OVERVIEW MAP - 3222629.2s

0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Spinnaker Coatings Plant #1	CLIENT: Michael Kerr
ADDRESS: 518 East Water Street	CONTACT: Richard Ordeman
Troy OH 45373	INQUIRY #: 3222629.2s
LAT/LONG: 40.0381 / 84.1970	DATE: December 12, 2011 4:34 pm

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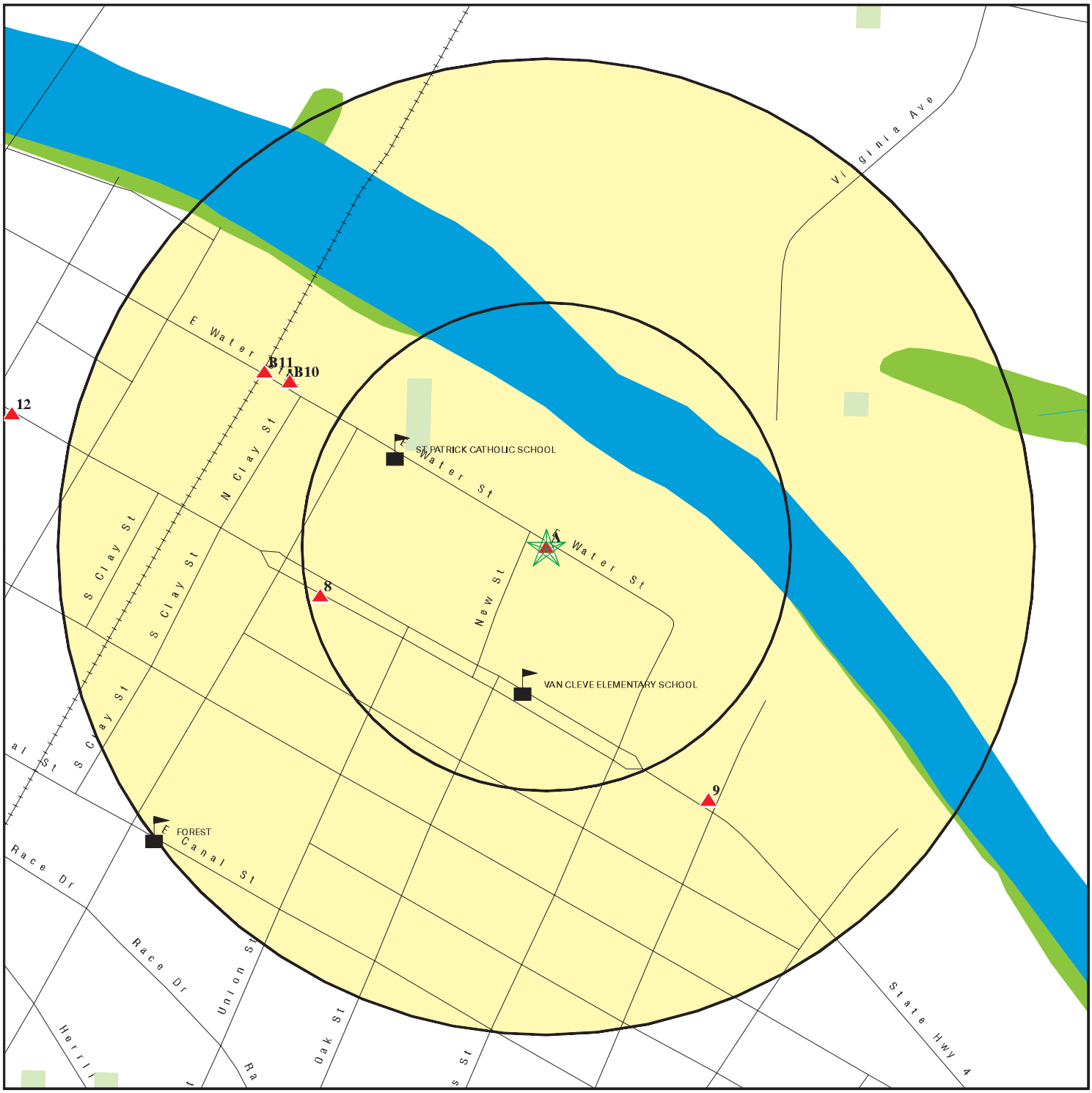
DETAIL MAP - 3222629.2s



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines from USGS
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Spinnaker Coatings Plant #1 ADDRESS: 518 East Water Street Troy OH 45373 LAT/LONG: 40.0381 / 84.1970	CLIENT: Michael Kerr CONTACT: Richard Ordeman INQUIRY #: 3222629.2s DATE: December 12, 2011 4:35 pm

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	1	0	NR	1
Proposed NPL		1.000	0	0	1	0	NR	1
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	1	NR	NR	1
FEDERAL FACILITY		1.000	0	0	0	0	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	X	1.000	0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	X	0.500	0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG	X	0.250	1	1	NR	NR	NR	2
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
Federal ERNS list								
ERNS	X	TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS		N/A	N/A	N/A	N/A	N/A	N/A	N/A
DERR	X	1.000	0	0	2	6	NR	8
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST		0.500	0	0	12	NR	NR	12
UNREG LTANKS		0.500	0	0	0	NR	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST		0.250	0	0	NR	NR	NR	0
FEMA UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		0.500	0	0	0	NR	NR	0
HIST ENG CONTROLS		0.500	0	0	0	NR	NR	0
HIST INST CONTROLS		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
ARCHIVE UST		0.250	0	0	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS	X	TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	0	1	NR	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS	X	TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TOWNGAS		1.000	0	0	0	0	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES	X	TP	NR	NR	NR	NR	NR	0
AIRS	X	TP	NR	NR	NR	NR	NR	0
USD		0.500	0	0	0	NR	NR	0
HIST USD		0.500	0	0	0	NR	NR	0
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
COAL ASH EPA		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH DOE		TP	NR	NR	NR	NR	NR	0
FINANCIAL ASSURANCE		TP	NR	NR	NR	NR	NR	0
CRO		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	1	0	0	NR	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A = This State does not maintain a SHWS list. See the Federal CERCLIS list.

A1 Target Property | **SPINNAKER COATING LLC**
518 E WATER STREET
TROY, OH 45373 | **SPILLS** | **S101396147**
NPDES | **N/A**

Site 1 of 7 in cluster A

Actual: 822 ft.

SPILLS:

Spill No.:	9805-55-2038
Spill Year:	1998
Date Spill Reported:	05/22/98
Spill Month:	5
Spill Number:	2038
Reporter Name:	RON KLENK
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	TOLUENE

Spill No.:	9805-55-2134
Spill Year:	1998
Date Spill Reported:	05/28/98
Spill Month:	5
Spill Number:	2134
Reporter Name:	CINDY GERNIGAN
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	WASTE WATER

OH NPDES:

Issue Date:	6/10/2010
Township:	Not reported
Facility Npdes Permit:	1GR01141*DG
Applicant Name:	SPINNAKER COATING
Applicant Address:	518 E WATER ST TROY, OH 45373

A2 Target Property | **SPINNAKER COATING LLC**
518 EAST WATER STREET
TROY, OH 45373 | **AIRS** | **S108318721**
N/A

Site 2 of 7 in cluster A

Actual: 822 ft.

AIRS:

Facility Id:	0855140083
Permit Classification:	E
# Emission Units Meeting Def of Trivial Outlined in EngGuide62:	0
Insignificant Emission Units:	10
Significant Emission Units:	4
Contact First Name:	Ron
Contact Last Name:	Dye
Mailing Address 1:	518 East Water Street
Mailing Address 2:	Not reported
Mailing City/State/Zip:	Troy, OH 45373
Contact Phone:	9373326509
Contact EMail:	ron.dye@spinps.com

SPINNAKER COATING LLC (Continued) **S108318721**

Emissions:

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	CO - Carbon Monoxide
Fugitives:	0
Stack:	1.05
Total:	1.05

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	NOx - Nitrogen Oxides

SPINNAKER COATING LLC (Continued) **S108318721**

Fugitives:	0
Stack:	1.25
Total:	1.25

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	Organic Compounds
Fugitives:	0
Stack:	0.14
Total:	0.14

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET

SPINNAKER COATING LLC (Continued) **S108318721**

Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	PE (Filt) - Primary PM, Filterable Portion Only
Fugitives:	0
Stack:	0.1
Total:	0.1

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	PM10 (Filt) - Primary PM10, Filterable Portion Only
Fugitives:	0
Stack:	0.1
Total:	0.1

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24

SPINNAKER COATING LLC (Continued) **S108318721**

Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	PM2.5 (FILT) - Primary PM2.5, Filterable Portion Only
Fugitives:	0
Stack:	0.1
Total:	0.1

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25
Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	SO2 - Sulfur Dioxide
Fugitives:	0
Stack:	0.01
Total:	0.01

Facility Id:	0855140083
Facility Name:	Spinnaker Coating LLC
Address1:	518 East Water Street
City/State/Zip:	Troy, OH 45373 0370
County Name:	Miami
Lat/Long(d m s):	40 2 15 / -84 11 45
Group Id:	Not reported
EPA EMU Id:	B001
Design Capacity Unit:	Boiler/Heater
Design Capacity:	3
Design Desc:	mmBTU/hr
Install Date:	01-JUN-56 1
SCC Id:	10300603
Winter %Throughput Processed:	25
Spring %Throughput Processed:	25
Summer %Throughput Processed:	25
Fall %Throughput Processed:	25

SPINNAKER COATING LLC (Continued) **S108318721**

Days Week:	7
Weeks Year:	52
Hours Day:	24
Hours Yr:	8500
Through Value:	25
Material Units:	MILLION CUBIC FEET
Primary Material of Throughput:	Natural Gas
Mat Act:	Burned
Pollutant:	VOC - Volatile Organic Compounds
Fugitives:	0
Stack:	0.14
Total:	0.14

A3 Target Property | **BROWN-BRIDGE CORPORATION** | **RCRA-TSDF** | **1000162875**
518 E WATER ST | **CORRACTS** | **OHD088648282**
TROY, OH 45373 | **RCRA-SQG**
FINDS
Site 3 of 7 in cluster A | **DERR**

Actual: 822 ft.

RCRA-TSDF:

Date form received by agency:	02/23/2009
Facility name:	SPINNAKER COATING LLC - PLANT 1
Facility address:	518 E WATER STREET TROY, OH 453730370
EPA ID:	OHD088648282
Contact:	RONALD E DYE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(937) 332-6349
Contact email:	RON.DYE@SPINPS.COM
EPA Region:	05
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	SPINNAKER COATING, LLC
Owner/operator address:	518 EAST WATER STREET TROY, OH 45373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	03/28/2002
Owner/Op end date:	Not reported

Owner/operator name:	SPINNAKER COATING, LLC
Owner/operator address:	518 EAST WATER STREET TROY, OH 45373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	03/28/2002

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency: 02/27/2008
Facility name: SPINNAKER COATING LLC - PLANT 1
Classification: Small Quantity Generator

Date form received by agency: 02/27/2007
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING - PLANT #1
Classification: Small Quantity Generator

Date form received by agency: 01/31/2006
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC PLANT 1
Classification: Small Quantity Generator

Date form received by agency: 02/28/2005
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING, LLC - PLANT #1
Classification: Small Quantity Generator

Date form received by agency: 02/29/2004
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING-PLT 1
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/03/2003
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING, LLC
Classification: Small Quantity Generator

Date form received by agency: 03/26/2002
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC
Classification: Small Quantity Generator

Date form received by agency: 02/22/2002
Facility name: SPINNAKER COATING LLC - PLANT 1

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

Site name: SPINNAKER COATING
Classification: Small Quantity Generator

Date form received by agency: 02/29/2000
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING
Classification: Large Quantity Generator

Date form received by agency: 09/08/1998
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC
Classification: Large Quantity Generator

Date form received by agency: 02/26/1998
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING
Classification: Large Quantity Generator

Date form received by agency: 02/23/1996
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: BROWN-BRIDGE CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/24/1994
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: KIMBERLY-CLARK, BROWN-BRIDGE
Classification: Large Quantity Generator

Date form received by agency: 09/30/1993
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC
Classification: Large Quantity Generator

Date form received by agency: 09/30/1993
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC
Classification: Large Quantity Generator

Date form received by agency: 02/20/1992
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: KIMBERLY-CLARK, BROWN-BRIDGE
Classification: Large Quantity Generator

Date form received by agency: 03/09/1990
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: KIMBERLY CLARK CORP BROWN-BRIDGE DIV 1
Classification: Large Quantity Generator

Date form received by agency: 11/17/1980
Facility name: SPINNAKER COATING LLC - PLANT 1
Site name: SPINNAKER COATING LLC
Classification: Not a generator, verified

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Corrective Action Summary:
Event date: 09/29/1992
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 05/01/2009
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Facility Has Received Notices of Violations:
Regulation violated: SR - 3745-65-16
Area of violation: Generators - Pre-transport
Date violation determined: 03/27/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/30/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 04/30/1991
Date achieved compliance: 12/30/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: TSD - Closure/Post-Closure
Date violation determined: 12/11/1989
Date achieved compliance: 05/03/1990

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/11/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:
Evaluation date: 03/27/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/10/1998
Evaluation lead agency: State

Evaluation date: 11/04/1991
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - General
Date achieved compliance: 12/30/1991
Evaluation lead agency: State

Evaluation date: 04/30/1991
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/30/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/30/1991
Evaluation lead agency: State

Evaluation date: 04/18/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/11/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: TSD - Closure/Post-Closure
Date achieved compliance: 05/03/1990
Evaluation lead agency: State

Evaluation date: 11/17/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CORRACTS:

EPA ID: OHD088648282
EPA Region: 05

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

Area Name: ENTIRE FACILITY
Actual Date: 05/01/2009
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s): 322221
Coated and Laminated Packaging Paper and Plastics Film Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: OHD088648282
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 09/29/1992
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 322221
Coated and Laminated Packaging Paper and Plastics Film Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

FINDS:

Registry ID: 110000394403

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are

BROWN-BRIDGE CORPORATION (Continued) **1000162875**

maintained in programmatic databases.

DERR:

DERR ID:	555001490
District:	SWDO
Alias:	Not reported
Lat/Long:	40.0383 -84.196541999999994
EPA ID:	Not reported
Program:	**Remedial Response**
Contact Phone:	(937) 285-6357

A4 Target Property **KIMBERLY CLARK** **FINDS** **1006222741**
518 EAST WATER STREET **SPILLS** **N/A**
TROY, OH 45373

Site 4 of 7 in cluster A

Actual: 822 ft.

FINDS:

Registry ID: 110009820998

Environmental Interest/Information System
PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

SPILLS:

Spill No.:	9401-55-0276
Spill Year:	1994
Date Spill Reported:	01/26/94
Spill Month:	1
Spill Number:	0276
Reporter Name:	RON KLENK
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	1765
Lat/Long:	400215 / 841143
Product Spilled Name:	TOLUENE

A5 Target Property **ENVIRONMENTAL TECHNOLOGY GROUP *** **FINDS** **1006216802**
518 E WATER ST **N/A**
TROY, OH 45373

Site 5 of 7 in cluster A

Actual: 822 ft.

FINDS:

Registry ID: 110009651153

Environmental Interest/Information System
The OH-CORE (Ohio - Core) database contains information commonly

ENVIRONMENTAL TECHNOLOGY GROUP * (Continued) **1006216802**

shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

A6
Target Property
Actual: 822 ft.

518 EAST WATER STREET EAST END OF PROPERTY **ERNS** **98438187**
518 EAST WATER STREET EAST END OF PROPERTY **N/A**
TROY, OH 45373

Site 6 of 7 in cluster A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A7
Target Property
Actual: 822 ft.

518 E WATER ST **ERNS** **94355803**
518 E WATER ST **N/A**
TROY, OH 45373

Site 7 of 7 in cluster A

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

8
WSW
< 1/8
0.118 mi.
624 ft.

WALTZS CLEANERS **RCRA-SQG** **1000423854**
432 E MAIN ST **FINDS** **OHD981198765**
TROY, OH 45373

Relative: Higher

Actual: 829 ft.

RCRA-SQG:

Date form received by agency:	05/06/1986
Facility name:	WALTZS CLEANERS
Facility address:	432 E MAIN ST TROY, OH 45373
EPA ID:	OHD981198765
Contact:	ANNA BROCK
Contact address:	432 E MAIN ST TROY, OH 45373
Contact country:	US
Contact telephone:	(513) 339-4015
Contact email:	Not reported
EPA Region:	05
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED

WALTZS CLEANERS (Continued) **1000423854**

CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BROCK ANNA
Owner/operator address: ADDRESS NOT REPORTED
CITY NOT REPORTED, AK 99998
Owner/operator country: Not reported
Owner/operator telephone: (312) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F004
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE

WALTZS CLEANERS (Continued) **1000423854**

SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/13/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/10/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004642094

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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9 SSE 1/8-1/4 0.154 mi. 813 ft.

SPEEDWAY 1030
801 N MAIN ST
TROY, OH 45373

RCRA-NonGen FINDS **1000467071 OHD987002722**

Relative: Higher

Actual: 825 ft.

RCRA-NonGen:

Date form received by agency: 04/04/2005
Facility name: SPEEDWAY 1030
Facility address: 801 N MAIN ST
TROY, OH 45373
EPA ID: OHD987002722
Mailing address: PO BOX 1500
SPRINGFIELD, OH 45501
Contact: CHARLES A BESSE
Contact address: PO BOX 1500
SPRINGFIELD, OH 45501
Contact country: US
Contact telephone: (937) 863-6078
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: SPEEDWAY/SUPERAMERICA

SPEEDWAY 1030 (Continued) **1000467071**

Owner/operator address: 207 WALTER ST
SPRINGFIELD, OH 45506
Owner/operator country: Not reported
Owner/operator telephone: (937) 322-1873
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/29/2002
Facility name: SPEEDWAY 1030
Classification: Not a generator, verified

Date form received by agency: 12/03/1997
Facility name: SPEEDWAY 1030
Classification: Conditionally Exempt Small Quantity Generator

Hazardous Waste Summary:
Waste code: D018
Waste name: BENZENE

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/02/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004671221

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of

SPEEDWAY 1030 (Continued) **1000467071**

Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

B10 **TROY GAS COMPANY** **Manufactured Gas Plants** **1008407639**
WNW **EAST WATER AND CLAY STREETS** **N/A**
1/8-1/4 **TROY, OH 45373**
0.156 mi.
825 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
830 ft.

Manufactured Gas Plants:
No additional information available

B11 **HOBART CABINET CO** **RCRA-SQG** **1000156247**
WNW **301 E WATER ST** **FINDS** **OHD004268520**
1/8-1/4 **TROY, OH 45373**
0.170 mi.
897 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
830 ft.

RCRA-SQG:

Date form received by agency:	03/19/1986
Facility name:	HOBART CABINET CO
Facility address:	301 E WATER ST TROY, OH 45373
EPA ID:	OHD004268520
Contact:	EDWARD HOBART
Contact address:	301 E WATER ST TROY, OH 45373
Contact country:	US
Contact telephone:	(513) 335-4666
Contact email:	Not reported
EPA Region:	05
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator

HOBART CABINET CO (Continued) **1000156247**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	HOBART CABINET CO
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code:	F002
Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

HOBART CABINET CO (Continued) **1000156247**

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 10/20/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/16/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/05/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110004594555

Environmental Interest/Information System
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

HOBART CABINET CO (Continued) **1000156247**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

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12 WNW 1/4-1/2 0.282 mi. 1489 ft. | **ERWIN CHRYSLER-PLYMOUTH DODGE, I** | **LUST** | **U004089933**
120 E MAIN ST | **UST** | **N/A**
TROY, OH 45373

Relative: Higher

Actual: 829 ft.

LUST:

Release Number:	55003275-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000
Class:	Viable Responsible Party has been identified

Facility:

Facility ID:	55003275
Facility Type:	Auto Dealership
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W001350
Owner Name:	ERWIN CHRYSLER-PLYMOUTH DODGE, I
Owner Address:	PO BOX 339
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	(513) 335-5696

UST:

Tank ID:	T00001
Tank Status:	**Removed**
Tank Type:	Cathodically Protected Steel
Capacity:	550
Content:	Used Oil
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	5/1/1981
Date Removed:	1/28/1993
Date Last Used:	1/28/1993

ERWIN CHRYSLER-PLYMOUTH DODGE, I (Continued) **U004089933**

Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Not reported
Release Detection on Piping:	Not reported

13
NNE
1/4-1/2
0.336 mi.
1774 ft.

MIAMI SHORES GOLF COURSE
402 E STAUNTON RD
TROY, OH 45373

LUST **U004096153**
UST **N/A**

Relative:
Higher

Actual:
839 ft.

LUST:

Release Number:	55009994-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000
Class:	Viable Responsible Party has been identified

Facility:

Facility ID:	55009994
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W017842
Owner Name:	MIAMI SHORES GOLF COURSE
Owner Address:	402 E STAUNTON RD
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported

MIAMI SHORES GOLF COURSE (Continued) **U004096153**

Corrosion Protection Piping: Not reported
Piping Material: Not reported
Piping Type: Not reported
Release Detection on Piping: Not reported

14
NNE
1/4-1/2
0.337 mi.
1778 ft.

TROY WELL FIELD UNKNOWN SOURCE **DERR** **S103686367**
300 E STAUNTON RD **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
837 ft.

DERR:
DERR ID: 555001353
District: SWDO
Alias: East Troy Contaminated Aquifer
Lat/Long: 40.037438000000002 -84.200154999999995
EPA ID: OHSFN0507962
Program: Site Assessment Remedial Response
Contact Phone: (937) 285-6357

15
North
1/4-1/2
0.350 mi.
1849 ft.

ACTION GBW, INC. **LUST** **U002038657**
201 E STAUNTON RD **UST** **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
835 ft.

LUST:
Release Number: 55002314-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 6 Closure of regulated UST
FR Status: NFA: No Further Action
Priority: 3
Review Date: 6/20/2000
Class: Viable Responsible Party has been identified

Facility:
Facility ID: 55002314
Facility Type: Gas Station
24 Hr Emergency Contact: KEVIN ACCURSO
24 Hr Emergency Phone: (937)339-4850
Number Of Tanks On Site: 4
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Not reported
Active Release Site: No
Owner Id: W000250
Owner Name: ACTION GBW, INC.
Owner Address: 201 E STAUNTON RD
Owner City/State/Zip: TROY, OH 45373
Owner Phone: (513)339-4850

Inspection:
Facility Id: 55002314
Inspection Id: 8/29/94

ACTION GBW, INC. (Continued) **U002038657**

Code:	203
Permit Number:	P00001
Inspection Type:	Final

Permit:

Facility Id:	55002314
Permit Id:	P00001
Permit Status:	Expired
Issued Date:	4/7/1995
Lfd Permit Id:	Not reported

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	6000
Content:	Kerosene
CAS #:	8008-20-6
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	10/1/1994
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled;Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector;Interstitial Monitoring Double Walled

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	6000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	10/1/1994
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled;Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector;Interstitial Monitoring Double Walled

ACTION GBW, INC. (Continued) **U002038657**

Tank ID:	T00003
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	12000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	10/1/1994
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled;Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector;Interstitial Monitoring Double Walled

Tank ID:	T00004
Tank Status:	**Currently In Use**
Tank Type:	Fiberglass Reinforced Plastic
Capacity:	8000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	10/1/1994
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled;Manual Tank Gauging;Statistical Inventory Reconciliation
Corrosion Protection Piping:	None Required
Piping Material:	Fiberglass Reinforced Plastic
Piping Type:	Pressure
Release Detection on Piping:	Electronic Line Leak Detector;Interstitial Monitoring Double Walled

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16 **TROY CENTRAL OFFICE** **LUST** **U003749478**
WNW **17-19 S MARKET** **UST** **N/A**
1/4-1/2 **TROY, OH 45373**
0.359 mi.
1893 ft.

Relative:
Higher

Actual:
829 ft.

LUST:

Release Number:	55007126-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**NFA: No Further Action**
Priority:	2

TROY CENTRAL OFFICE (Continued) **U003749478**

Review Date: 6/20/2000
Class: Viable Responsible Party has been identified

Facility:

Facility ID:	55007126
Facility Type:	Utilities
24 Hr Emergency Contact:	DAN FARRELL
24 Hr Emergency Phone:	(260)433-1974
Number Of Tanks On Site:	1
Local Fire Department:	TROY FIRE DEPARTMENT
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W025009
Owner Name:	FRONTIER COMMUNICATION CORP
Owner Address:	11799 NORTH COLLEGE AVE
Owner City/State/Zip:	CARMEL, IN 46032
Owner Phone:	(317)208-3474

Inspection:

Facility Id:	55007126
Inspection Id:	1/9/96
Code:	103
Permit Number:	P00001
Inspection Type:	Final

Permit:

Facility Id:	55007126
Permit Id:	P00001
Permit Status:	Expired
Issued Date:	9/9/1996
Lfd Permit Id:	Not reported

Facility Id:	55007126
Permit Id:	P00001
Permit Status:	Expired
Issued Date:	9/9/1996
Lfd Permit Id:	Not reported

UST:

Tank ID:	T00001
Tank Status:	**Removed**
Tank Type:	Steel
Capacity:	1500
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1960
Date Removed:	1/10/1996
Date Last Used:	1/10/1996
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported

TROY CENTRAL OFFICE (Continued) **U003749478**

Corrosion Protection Piping:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	Double Walled Fiberglass
Capacity:	1000
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1996
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Liner
Corrosion Protection Piping:	None Required
Piping Material:	Double Walled
Piping Type:	Suction: valve at dispenser
Release Detection on Piping:	No Monitoring Suction/Gravity System

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17
WSW
1/4-1/2
0.361 mi.
1905 ft.

COUNTRY JUNCTION **LUST** **U004088430**
229 S MULBERRY ST **UST** **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
827 ft.

LUST:

Release Number:	55010036-N00001
Release Date:	10/16/1991
Facility Status:	**Active**
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**CON: a release is confirmed**
Priority:	2
Review Date:	3/29/2011
Class:	Viable Responsible Party has been identified

Facility:

Facility ID:	55010036
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	Yes
Owner Id:	W017884
Owner Name:	COUNTRY JUNCTION
Owner Address:	229 S MULBERRY ST
Owner City/State/Zip:	TROY, OH 45373

COUNTRY JUNCTION (Continued) **U004088430**

Owner Phone: Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

18
North
1/4-1/2
0.386 mi.
2037 ft.

EAST TROY CONTAMINATED AQUIFER
EAST TROY ALONG WEST BANK OF MIAMI RIVER
TROY, OH 45373

NPL **1001814501**
Proposed NPL **OHSFN0507962**
CERCLIS
FINDS

Relative:
Higher

Actual:
835 ft.

NPL:

EPA ID:	OHSFN0507962
EPA Region:	05
Federal:	N
Final Date:	2008-09-03 00:00:00

Site Details:

Site Name:	EAST TROY CONTAMINATED AQUIFER
Site Status:	Proposed
Site Zip:	45373
Site City:	TROY
Site State:	OH
Federal Site:	No
Site County:	MIAMI
EPA Region:	05
Date Proposed:	09/19/07
Date Deleted:	Not reported
Date Finalized:	/ /

CERCLIS:

Site ID:	0507962
EPA ID:	OHSFN0507962
Facility County:	MIAMI
Short Name:	EAST TROY CONTAMINATED AQ

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Congressional District:	08
IFMS ID:	B5EN
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	Not reported
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	S
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	05
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Currently on the Final NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Not reported
Non NPL Status Date:	Not reported
Site Fips Code:	39109
CC Concurrence Date:	Not reported
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	5270133.00000
Contact Name:	SHARI KOLAK
Contact Tel:	(312) 886-6151
Contact Title:	Remedial Project Manager (RPM)
Contact Email:	kolak.shari@epa.gov
Contact ID:	5270195.00000
Contact Name:	STEVEN L. RENNINGER
Contact Tel:	(513) 260-7849
Contact Title:	On-Scene Coordinator (OSC)
Contact Email:	Not reported
Contact ID:	5271043.00000
Contact Name:	DON DE BLASIO
Contact Tel:	(312) 886-9749
Contact Title:	Community Involvement Coordinator
Contact Email:	Not reported

CERCLIS Site Alias Name(s):

Alias ID:	101
Alias Name:	TROY WELL FIELD
Alias Address:	Not reported
	Not reported
Alias ID:	102
Alias Name:	TROY VOC PLUME SITE
Alias Address:	309 FRANKLIN STREET
	TROY, OH 45373

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Alias ID: 13000031
Alias Name: East Troy Contaminated Aquifer
Alias Address: EAST TROY ALONG WEST BANK OF MIAMI RIVER
Troy, OH 45373
Alias ID: 102
Alias Comments: Not reported
Site Description: Cis-1,2-dichloroethene and trichloroethene have been detected in the East Troy well field since 1988.

CERCLIS Assessment History:

Action Code: 001
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/15/1999
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: SITE INSPECTION
Date Started: 12/06/1999
Date Completed: 06/30/2000
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: INTEGRATED ASSESSMENT
Date Started: 12/06/1999
Date Completed: 06/30/2000
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PRELIMINARY ASSESSMENT
Date Started: 12/06/1999
Date Completed: 06/30/2000
Priority Level: Higher priority for further assessment
Operable Unit: SITEWIDE

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	EXPANDED SITE INSPECTION
Date Started:	02/01/2002
Date Completed:	09/26/2002
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	Not reported
Date Completed:	09/01/2006
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	EXPANDED SITE INSPECTION
Date Started:	Not reported
Date Completed:	03/30/2007
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Notice Letters Issued
Date Started:	Not reported
Date Completed:	05/17/2007
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: HAZARD RANKING SYSTEM PACKAGE
Date Started: Not reported
Date Completed: 09/10/2007
Priority Level: Being considered for proposal to the NPL
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started: Not reported
Date Completed: 09/19/2007
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: Not reported
Date Completed: 04/17/2008
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 05/31/2007
Date Completed: 04/17/2008
Priority Level: Stabilized
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Action:	Special Notice Issued
Date Started:	Not reported
Date Completed:	08/06/2008
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	Not reported
Date Completed:	09/03/2008
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMEDIAL INVESTIGATION/FEASIBILITY STUDY NEGOTIATIONS
Date Started:	08/06/2008
Date Completed:	02/23/2009
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	02/25/2009
Date Completed:	Not reported
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	Not reported
Date Completed:	07/07/2010
Priority Level:	Not reported

EAST TROY CONTAMINATED AQUIFER (Continued) **1001814501**

Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Federal Register Details:
Fed Register Date: 09/03/2008
Fed Register Volume: 73
Page Number: 51368

Fed Register Date: 09/19/2007
Fed Register Volume: 72
Page Number: 53509

Click this hyperlink while viewing on your computer to access
180 additional US CERCLIS Financial: record(s) in the EDR Site Report.

FINDS:

Registry ID: 110009305162

Environmental Interest/Information System
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

C19 **TROY FIRE DEPT** **LUST** **U004102785**
West **18 E CANAL ST** **UST** **N/A**
1/4-1/2 **TROY, OH 45373**
0.404 mi.
2133 ft. **Site 1 of 2 in cluster C**

Relative:
Higher

Actual:
830 ft.

LUST:
Release Number: 55010007-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 2
Review Date: 6/20/2000
Class: Viable Responsible Party has been identified

Facility:
Facility ID: 55010007
Facility Type: Not reported
24 Hr Emergency Contact: Not reported
24 Hr Emergency Phone: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero

TROY FIRE DEPT (Continued) **U004102785**

Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W017855
Owner Name:	TROY FIRE DEPT
Owner Address:	18 E CANAL ST
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

C20 **DUTCHS SERVICE INC** **LUST** **U004089535**
West **206 S MARKET ST** **UST** **N/A**
1/4-1/2 **TROY, OH 45373**
0.417 mi.
2203 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
830 ft.

LUST:

Release Number:	55010100-N00001
Release Date:	1/29/2003
Facility Status:	**Active**
LTF Status:	6 Closure of regulated UST
FR Status:	**NRC: No response to NCR letter sent**
Priority:	2
Review Date:	2/9/2011
Class:	Responsible Party is non-viable

Facility:

Facility ID:	55010100
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	TROY FIRE DEPARTMENT
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	Yes

DUTCHS SERVICE INC (Continued) **U004089535**

Owner Id:	W021438
Owner Name:	JOHN HUFFORD
Owner Address:	1524 PETERS RD
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

Inspection:

Facility Id:	55010100
Inspection Id:	1/29/03
Code:	103
Permit Number:	P00001
Inspection Type:	Final
Facility Id:	55010100
Inspection Id:	1/30/03
Code:	103
Permit Number:	P00001
Inspection Type:	Final

Permit:

Facility Id:	55010100
Permit Id:	P00001
Permit Status:	Closed
Issued Date:	12/17/2002
Lfd Permit Id:	11204

UST:

Tank ID:	T00001
Tank Status:	**Removed**
Tank Type:	Bare Steel
Capacity:	4000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/29/2003
Date Last Used:	1/1/1997
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported
Tank ID:	T00002
Tank Status:	**Removed**
Tank Type:	Bare Steel
Capacity:	4000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported

DUTCHS SERVICE INC (Continued) **U004089535**

AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/29/2003
Date Last Used:	1/1/1997
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**Removed**
Tank Type:	Bare Steel
Capacity:	4000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/29/2003
Date Last Used:	1/1/1997
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00004
Tank Status:	**Removed**
Tank Type:	Bare Steel
Capacity:	4000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/30/2003
Date Last Used:	1/1/1997
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00005
Tank Status:	**Removed**
Tank Type:	Bare Steel

DUTCHS SERVICE INC (Continued) **U004089535**

Capacity:	1000
Content:	New Oil - Petroleum
CAS #:	68334-30-5
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/30/2003
Date Last Used:	1/1/1998
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

Tank ID:	T00006
Tank Status:	**Removed**
Tank Type:	Bare Steel
Capacity:	550
Content:	Used Oil
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	1/30/2003
Date Last Used:	1/1/2000
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Pressure
Release Detection on Piping:	Not reported

D21 **IVEX CORP** **DERR** **1005969013**
SSW **421 S UNION ST** **NPDES** **N/A**
1/4-1/2 **TROY, OH 45373**
0.440 mi.
2321 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
831 ft.

DERR:

DERR ID:	555001242
District:	SWDO
Alias:	Not reported
Lat/Long:	40.03166667 -84.200555559999998
EPA ID:	Not reported
Program:	**Not reported**
Contact Phone:	(937) 285-6357

OH NPDES:

Issue Date:	7/28/2006

IVEX CORP (Continued) **1005969013**

Township: Not reported
Facility Npdes Permit: 1GR00198*DG
Applicant Name: TROY LAMINATING & COATING INC
Applicant Address: 421 S UNION ST TROY, OH 45373

D22 **L&CP CORP** **LUST** **U004094644**
SSW **421 S UNION ST** **UST** **N/A**
1/4-1/2 **TROY, OH 45373**
0.440 mi.
2321 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
831 ft.

LUST:
Release Number: 55010091-N00001
Release Date: Not reported
Facility Status: Inactive
LTF Status: 1 SUS/CON from regulated UST
FR Status: NFA: No Further Action
Priority: 2
Review Date: 6/26/2000
Class: Viable Responsible Party has been identified

Facility:
Facility ID: 55010091
Facility Type: Not reported
24 Hr Emergency Contact: Not reported
24 Hr Emergency Phone: Not reported
Number Of Tanks On Site: Not reported
Local Fire Department: Zero
Delegated Authority: No
Elig For Green Buckeye Award: Not reported
Active Release Site: No
Owner Id: W017940
Owner Name: L&CP CORP
Owner Address: 421 S UNION ST
Owner City/State/Zip: TROY, OH 45373
Owner Phone: Not reported

UST:
Tank ID: Not reported
Tank Status: Not reported
Tank Type: Not reported
Capacity: Not reported
Content: Not reported
CAS #: Not reported
Regulated: Not reported
Overfill Device Installed: Not reported
Spill Device Installed: Not reported
AST/UST: Not reported
Installation Date: Not reported
Date Removed: Not reported
Date Last Used: Not reported
Date Abandoned/Closed: Not reported
Corrosion Protection Tank: Not reported
Release Detection on Tank: Not reported
Corrosion Protection Piping: Not reported
Piping Material: Not reported
Piping Type: Not reported
Release Detection on Piping: Not reported

L&CP CORP (Continued) **U004094644**

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

23
SW
1/4-1/2
0.441 mi.
2331 ft.

FORMER AVEY SERVICE **LUST** **U004090625**
430 S CRAWFORD **UST** **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
834 ft.

LUST:

Release Number:	55010078-N00001
Release Date:	5/25/1989
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	4/14/2011
Class:	Responsible Party for release has not yet been determined

Facility:

Facility ID:	55010078
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W017926
Owner Name:	FORMER AVEY SERVICE
Owner Address:	430 S CRAWFORD
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

UST:

Tank ID:	T00001

FORMER AVEY SERVICE (Continued) **U004090625**

Tank Status:	**Removed**
Tank Type:	BM - Bare Metal
Capacity:	500
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/4/1989
Date Last Used:	6/4/1989
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**Removed**
Tank Type:	BM - Bare Metal
Capacity:	500
Content:	Diesel
CAS #:	68334-30-5
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	6/4/1989
Date Last Used:	6/4/1989
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

24
NE
1/4-1/2
0.448 mi.
2365 ft.

TROY BAPTIST CHURCH **LUST** **U004102781**
691 STAUNTON RD **UST** **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
836 ft.

LUST:

Release Number:	55009991-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000
Class:	Viable Responsible Party has been identified

TROY BAPTIST CHURCH (Continued) **U004102781**

Facility:

Facility ID:	55009991
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W017839
Owner Name:	TROY BAPTIST CHURCH
Owner Address:	691 STAUNTON RD
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

25
SE
1/4-1/2
0.457 mi.
2414 ft.

EASTSIDE MINI MART **LUST** **U001431600**
1314 E MAIN ST **UST** **N/A**
TROY, OH 45373

Relative:
Higher

Actual:
828 ft.

LUST:

Release Number:	55005123-N00001
Release Date:	4/29/1997
Facility Status:	**Active**
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**CON: a release is confirmed**
Priority:	2
Review Date:	3/31/2011
Class:	Responsible Party is non-viable

Facility:

Facility ID:	55005123

EASTSIDE MINI MART (Continued) **U001431600**

Facility Type:	Gas???Station
24 Hr Emergency Contact:	UMAR DHADHA
24 Hr Emergency Phone:	(937)673-2481
Number Of Tanks On Site:	2
Local Fire Department:	TROY FIRE DEPARTMENT
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	Yes
Owner Id:	W024403
Owner Name:	TROY PETROLEUM LLC
Owner Address:	1010 N BROAD ST
Owner City/State/Zip:	FAIRBORN, OH 45324
Owner Phone:	(937)673-2481

Inspection:

Facility Id:	55005123
Inspection Id:	1/13/03
Code:	701
Permit Number:	P00001
Inspection Type:	Final

Permit:

Facility Id:	55005123
Permit Id:	P00001
Permit Status:	Closed
Issued Date:	9/30/2002
Lfd Permit Id:	11202
Facility Id:	55005123
Permit Id:	P00002
Permit Status:	Expired
Issued Date:	3/18/1997
Lfd Permit Id:	01872
Facility Id:	55005123
Permit Id:	P00003
Permit Status:	Closed
Issued Date:	3/19/1977
Lfd Permit Id:	01874

UST:

Tank ID:	T00001
Tank Status:	**Removed**
Tank Type:	Steel
Capacity:	6000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	3/18/1997
Date Last Used:	1/1/1987
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported

EASTSIDE MINI MART (Continued) **U001431600**

Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00002
Tank Status:	**Removed**
Tank Type:	Steel
Capacity:	3000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	3/18/1997
Date Last Used:	1/1/1992
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00003
Tank Status:	**Removed**
Tank Type:	Steel
Capacity:	3000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	Not reported
Date Removed:	3/18/1997
Date Last Used:	1/1/1989
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Unknown
Piping Type:	Suction: valve at tank
Release Detection on Piping:	Not reported

Tank ID:	T00004
Tank Status:	**Removed**
Tank Type:	Not reported
Capacity:	3000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST

EASTSIDE MINI MART (Continued) **U001431600**

Installation Date:	Not reported
Date Removed:	3/18/1997
Date Last Used:	3/18/1997
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00005
Tank Status:	**Currently In Use**
Tank Type:	DW - FRP - Fiberglass
Capacity:	10000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	3/19/1997
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	DW FPTP - Flex Pipe
Piping Type:	Pressure
Release Detection on Piping:	Mechanical Line Leak Detector

Tank ID:	T00006
Tank Status:	**Currently In Use**
Tank Type:	DW - FRP - Fiberglass
Capacity:	8000
Content:	Gasoline
CAS #:	8006-61-9
Regulated:	Yes
Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	3/19/1997
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	None Required
Release Detection on Tank:	Automatic Tank Gauging;Interstitial Monitoring Double Walled
Corrosion Protection Piping:	None Required
Piping Material:	DW FPTP - Flex Pipe
Piping Type:	Pressure
Release Detection on Piping:	Mechanical Line Leak Detector

26 WNW 1/4-1/2 0.466 mi. 2458 ft. | **RIVER CORRIDOR OFFICE**
209 W WATER ST
TROY, OH 45373 | **LUST UST** | **U004099931 N/A**

Relative: Higher

Actual: 832 ft.

LUST:

Release Number:	55010042-N00001
Release Date:	Not reported
Facility Status:	**Inactive**
LTF Status:	6 Closure of regulated UST
FR Status:	**NFA: No Further Action**
Priority:	3
Review Date:	6/20/2000
Class:	Viable Responsible Party has been identified

Facility:

Facility ID:	55010042
Facility Type:	Not reported
24 Hr Emergency Contact:	Not reported
24 Hr Emergency Phone:	Not reported
Number Of Tanks On Site:	Not reported
Local Fire Department:	Zero
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	No
Owner Id:	W017890
Owner Name:	RIVER CORRIDOR OFFICE
Owner Address:	209 W WATER ST
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	Not reported

UST:

Tank ID:	Not reported
Tank Status:	**Not reported**
Tank Type:	Not reported
Capacity:	Not reported
Content:	Not reported
CAS #:	Not reported
Regulated:	Not reported
Overfill Device Installed:	Not reported
Spill Device Installed:	Not reported
AST/UST:	Not reported
Installation Date:	Not reported
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Release Detection on Piping:	Not reported

27 SSW 1/2-1 0.609 mi. 3215 ft. | **TROSTEL PARK LANDFILL** | **DERR** | **S103686366** | **N/A**
635 S UNION ST
TROY, OH 45373

Relative: Higher

Actual: 830 ft.

DERR:

DERR ID:	555000821
District:	SWDO
Alias:	Union St Landfill
Lat/Long:	40.026111110000002 -84.202222219999996
EPA ID:	OHD981194160
Program:	**Not reported**
Contact Phone:	(937) 285-6357

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28 WNW 1/2-1 0.693 mi. 3662 ft. | **HOBART BROTHERS** | **DERR** | **S104974964** | **N/A**
600 W MAIN ST | **SPILLS**
TROY, OH 45373 | **NPDES**

Relative: Higher

Actual: 832 ft.

DERR:

DERR ID:	555001763
District:	SWDO
Alias:	Not reported
Lat/Long:	40.04224 -84.209100000000007
EPA ID:	OHD004279337
Program:	**Not reported**
Contact Phone:	(937) 285-6357

SPILLS:

Spill No.:	8707-55-2494
Spill Year:	1987
Date Spill Reported:	07/16/87
Spill Month:	7
Spill Number:	2494
Reporter Name:	COMPANY
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	1766
Lat/Long:	Not reported
Product Spilled Name:	HYDRAULIC OIL

OH NPDES:

Issue Date:	8/15/2006
Township:	Not reported
Facility Npdes Permit:	1GR00493*DG
Applicant Name:	HOBART BROTHERS CO
Applicant Address:	101 TRADE SQUARE E TROY, OH 45373

29 SW 1/2-1 0.697 mi. 3679 ft. | **LOUIS HARBOR**
801-809 S. WALNUT STREET
TROY, OH 45373 | **CERC-NFRAP**
RCRA-NonGen
FINDS
DERR | **1000262188**
OHD986966273

Relative: Higher

Actual: 829 ft.

CERC-NFRAP:

Site ID:	0503419
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	LEWIS HARBOR
Alias Address:	Not reported OH
Alias Name:	LOUIS HARBOR
Alias Address:	Not reported MIAMI, OH

CERCLIS-NFRAP Assessment History:

Action:	UNILATERAL ADMIN ORDER
Date Started:	Not reported
Date Completed:	08/12/1988
Priority Level:	Not reported
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	Not reported
Date Completed:	01/25/1989
Priority Level:	Not reported
Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	01/25/1989
Priority Level:	Not reported
Action:	POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started:	01/25/1989
Date Completed:	11/14/1989
Priority Level:	Cleaned up
Action:	PRELIMINARY ASSESSMENT
Date Started:	Not reported
Date Completed:	03/26/1991
Priority Level:	Higher priority for further assessment
Action:	SITE INSPECTION
Date Started:	Not reported
Date Completed:	09/22/1992
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	10/29/1998
Priority Level:	Not reported

LOUIS HARBOR (Continued) **1000262188**

RCRA-NonGen:

Date form received by agency:	06/10/2009
Facility name:	CENTRAL TRUST CO NA
Facility address:	801 S WALNUT ST TROY, OH 45373
EPA ID:	OHD986966273
Mailing address:	201 E FIFTH ST CINCINNATI, OH 45202
Contact:	DONALD MCCLANAHAN
Contact address:	201 E FIFTH ST CINCINNATI, OH 45202
Contact country:	US
Contact telephone:	(513) 651-8410
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NAME NOT REPORTED
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	LOUIS HARBOR TRUST
Owner/operator address:	ADDRESS NOT REPORTED CITY NOT REPORTED, AK 99998
Owner/operator country:	Not reported
Owner/operator telephone:	(312) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

LOUIS HARBOR (Continued) **1000262188**

Historical Generators:
Date form received by agency: 09/05/1989
Facility name: CENTRAL TRUST CO NA
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: D000
Waste name: Not Defined

Violation Status: No violations found

FINDS:

Registry ID: 110004658709

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

DERR:
DERR ID: 555001764
District: SWDO
Alias: Not reported
Lat/Long: 40.031455999999999 -84.206999999999994
EPA ID: OHD986966273
Program: Not reported
Contact Phone: (937) 285-6357

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30 SE 1/2-1 0.788 mi. 4159 ft. | **DYE MILL RD LANDFILL** | **DERR** | **S103686363**
DYE MILL RD | **N/A**
TROY, OH 45373

Relative: Lower
Actual: 820 ft.

DERR:
DERR ID: 555000253
District: SWDO
Alias: Not reported
Lat/Long: 40.016388890000002 -84.190555560000007
EPA ID: OHD981796048
Program: Not reported
Contact Phone: (937) 285-6357

31 WSW 1/2-1 0.813 mi. 4293 ft. | **HOBART CORP TROY SUNSHADE CO DIV**
750 LINCOLN AVE
TROY, OH 45373 | **CERC-NFRAP**
RCRA-CESQG
FINDS
DERR | **1000156222**
OHD004474466

Relative: Higher

Actual: 825 ft.

CERC-NFRAP:

Site ID:	0504241
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	Not reported
Date Completed:	08/01/1980
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	Not reported
Date Completed:	06/30/1987
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	Not reported
Date Completed:	06/30/1987
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information

RCRA-CESQG:

Date form received by agency:	07/24/2008
Facility name:	HOBART CORP PLANT 27
Facility address:	750 LINCOLN AVE TROY, OH 45374
EPA ID:	OHD004474466
Contact:	BARBARA MILLER
Contact address:	750 LINCOLN AVE TROY, OH 45374
Contact country:	US
Contact telephone:	(937) 332-2188
Contact email:	BARBARA.MILLER@ITWFEG.COM
EPA Region:	05
Land type:	Private
Classification:	Conditionally Exempt Small Quantity Generator
Description:	Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

HOBART CORP TROY SUNSHADE CO DIV (Continued) **1000156222**

Owner/Operator Summary:

Owner/operator name:	ITW FOOD EQUIPMENT GROUP LLC
Owner/operator address:	701 S RIDGE AVE TROY, OH 45374
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/01/1999
Owner/Op end date:	Not reported

Owner/operator name:	ITW FOOD EQUIPMENT GROUP LLC
Owner/operator address:	701 S RIDGE AVE TROY, OH 45374
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/01/1999
Owner/Op end date:	Not reported

Owner/operator name:	ITW FOOD EQUIPMENT GROUP LLC
Owner/operator address:	701 S RIDGE AVE TROY, OH 45374
Owner/operator country:	US
Owner/operator telephone:	(937) 332-3000
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/02/2002
Owner/Op end date:	Not reported

Owner/operator name:	ITW FOOD EQUIPMENT GROUP LLC
Owner/operator address:	701 S RIDGE AVE TROY, OH 45374
Owner/operator country:	US
Owner/operator telephone:	(937) 332-3000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/02/2002
Owner/Op end date:	Not reported

Owner/operator name:	HOBART CORP
Owner/operator address:	701 S RIDGE AVE TROY, OH 45374
Owner/operator country:	US
Owner/operator telephone:	(937) 332-3000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/0001
Owner/Op end date:	01/02/2002

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

HOBART CORP TROY SUNSHADE CO DIV (Continued) **1000156222**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/11/2007
Facility name: HOBART CORP PLANT 27
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 03/02/2004
Facility name: HOBART CORP PLANT 27
Site name: HOBART PLANT 27
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/28/1998
Facility name: HOBART CORP PLANT 27
Site name: TROY PLANT 27
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/08/1994
Facility name: HOBART CORP PLANT 27
Site name: PMI-F.E.G. PLANT 27
Classification: Large Quantity Generator

Date form received by agency: 02/24/1992
Facility name: HOBART CORP PLANT 27
Site name: PMI-F-E-G PLANT 27
Classification: Large Quantity Generator

Date form received by agency: 02/26/1990
Facility name: HOBART CORP PLANT 27
Site name: HOBART CORPORATION PLANT 27
Classification: Large Quantity Generator

Date form received by agency: 11/19/1980
Facility name: HOBART CORP PLANT 27
Site name: TROY PLANT 27
Classification: Not a generator, verified

Date form received by agency: 01/01/1979
Facility name: HOBART CORP PLANT 27
Site name: TROY PLANT 27
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS

HOBART CORP TROY SUNSHADE CO DIV (Continued) **1000156222**

CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Universal Waste - Small Quantity Handlers
Date violation determined: 07/24/2008
Date achieved compliance: 08/14/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/30/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 07/24/2008
Date achieved compliance: 08/14/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/30/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: Not reported

HOBART CORP TROY SUNSHADE CO DIV (Continued) **1000156222**

Area of violation: Generators - Records/Reporting
Date violation determined: 08/22/2007
Date achieved compliance: 09/18/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/22/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:
Evaluation date: 08/14/2008
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/24/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 08/14/2008
Evaluation lead agency: State

Evaluation date: 07/24/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Universal Waste - Small Quantity Handlers
Date achieved compliance: 08/14/2008
Evaluation lead agency: State

Evaluation date: 09/18/2007
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/22/2007
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 09/18/2007
Evaluation lead agency: State

Evaluation date: 05/12/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/14/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

HOBART CORP TROY SUNSHADE CO DIV (Continued) **1000156222**

Registry ID: 110004596795

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

DERR:

DERR ID:	555000400
District:	SWDO
Alias:	Not reported
Lat/Long:	40.033333329999998 -84.211111110000004
EPA ID:	OHD004474466
Program:	**Not reported**
Contact Phone:	(937) 285-6357

32
SSW
1/2-1
0.877 mi.
4629 ft.

Relative:
Higher

Actual:
829 ft.

DELTECH POLYMERS CORP
1250 S. UNION ST.
TROY, OH 45373

RCRA-LQG **1000192674**
FINDS **OHD077432409**
DERR
LUST
UST
MANIFEST
SPILLS

RCRA-LQG:

Date form received by agency:	01/23/2006
Facility name:	DELTECH POLYMERS CORPORATION
Facility address:	1250 S UNION ST TROY, OH 45373
EPA ID:	OHD077432409
Contact:	JAMES E MATHIS
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(937) 339-3150
Contact email:	jmathis@deltechcorp.com
EPA Region:	05
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste

DELTECH POLYMERS CORP (Continued) **1000192674**

during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	DELTECH POLYMERS CORPORATION
Owner/operator address:	1250 S. UNION ST. TROY, OH 45373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1991
Owner/Op end date:	Not reported

Owner/operator name:	DELTECH POLYMERS CORPORATION
Owner/operator address:	1250 S. UNION ST. TROY, OH 45373
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1991
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	03/23/2005
Facility name:	DELTECH POLYMERS CORPORATION
Classification:	Large Quantity Generator

Date form received by agency:	02/25/2004
Facility name:	DELTECH POLYMERS CORPORATION

DELTECH POLYMERS CORP (Continued) **1000192674**

Site name: DELTECH POLYMERS CORP.
Classification: Large Quantity Generator

Date form received by agency: 02/25/2003
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 05/02/2002
Facility name: DELTECH POLYMERS CORPORATION
Site name: DELTECH POLYMERS CORP
Classification: Large Quantity Generator

Date form received by agency: 05/01/2000
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 05/05/1999
Facility name: DELTECH POLYMERS CORPORATION
Site name: DELTECH POLYMERS CORP
Classification: Large Quantity Generator

Date form received by agency: 02/19/1998
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/28/1996
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/25/1994
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 11/24/1992
Facility name: DELTECH POLYMERS CORPORATION
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D035

DELTECH POLYMERS CORP (Continued) **1000192674**

Waste name: METHYL ETHYL KETONE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/24/2006
Date achieved compliance: 11/07/2007
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-41
Area of violation: Generators - Records/Reporting
Date violation determined: 10/07/2005
Date achieved compliance: 10/07/2005
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/07/2005
Enf. disposition status: Not reported

DELTECH POLYMERS CORP (Continued) **1000192674**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-66-74(B)
Area of violation: Generators - Pre-transport
Date violation determined: 02/19/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-34(C)(1)
Area of violation: Generators - Pre-transport
Date violation determined: 02/19/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-34(A)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/19/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-34(A)(3)
Area of violation: Generators - Pre-transport
Date violation determined: 02/19/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

DELTECH POLYMERS CORP (Continued) **1000192674**

Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-65-35
Area of violation: Generators - Pre-transport
Date violation determined: 02/19/1998
Date achieved compliance: 06/10/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/20/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-66-74(B)
Area of violation: Generators - Pre-transport
Date violation determined: 08/31/1992
Date achieved compliance: 12/13/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/02/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-34(A)(2)(3)
Area of violation: Generators - Pre-transport
Date violation determined: 08/31/1992
Date achieved compliance: 12/13/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/02/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Regulation violated: SR - 3745-52-34(C)(1)(B)
Area of violation: Generators - Pre-transport
Date violation determined: 08/31/1992
Date achieved compliance: 12/13/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/02/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

DELTECH POLYMERS CORP (Continued) **1000192674**

Proposed penalty amount: 0
Final penalty amount: 0
Paid penalty amount: 0

Evaluation Action Summary:

Evaluation date: 05/24/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/07/2007
Evaluation lead agency: EPA

Evaluation date: 05/24/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/07/2005
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - Records/Reporting
Date achieved compliance: 10/07/2005
Evaluation lead agency: State

Evaluation date: 09/30/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/19/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 06/10/1998
Evaluation lead agency: State

Evaluation date: 12/06/1993
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/13/1993
Evaluation lead agency: State

Evaluation date: 08/31/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 12/13/1993
Evaluation lead agency: State

Evaluation date: 10/25/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000394387

DELTECH POLYMERS CORP (Continued) **1000192674**

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

The OH-CORE (Ohio - Core) database contains information commonly shared among the Ohio EPA environmental programs. The information is facility-based, general in nature, and used to support specific programmatic systems while simultaneously maintaining an inventory of common facility-related data. Specific programmatic details are maintained in programmatic databases.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

DELTECH POLYMERS CORP (Continued) **1000192674**

DERR:

DERR ID:	555001262
District:	SWDO
Alias:	Not reported
Lat/Long:	40.025555560000001 -84.201388890000004
EPA ID:	Not reported
Program:	**Not reported**
Contact Phone:	(937) 285-6357

LUST:

Release Number:	55000232-N00002
Release Date:	4/1/2010
Facility Status:	**Active**
LTF Status:	1 SUS/CON from regulated UST
FR Status:	**TR1: Tier 1**
Priority:	2
Review Date:	2/28/2011
Class:	E

Facility:

Facility ID:	55000232
Facility Type:	Industrial
24 Hr Emergency Contact:	Brent Reedstrom
24 Hr Emergency Phone:	(937)620-9231
Number Of Tanks On Site:	3
Local Fire Department:	TROY FIRE DEPARTMENT
Delegated Authority:	No
Elig For Green Buckeye Award:	Not reported
Active Release Site:	Yes
Owner Id:	W000837
Owner Name:	DELTECH POLYMERS CORP.
Owner Address:	1250 S UNION ST
Owner City/State/Zip:	TROY, OH 45373
Owner Phone:	(937) 335-5286

Permit:

Facility Id:	55000232
Permit Id:	P00001
Permit Status:	Closed
Issued Date:	12/4/1998
Lfd Permit Id:	06066
Facility Id:	55000232
Permit Id:	P00002
Permit Status:	Expired
Issued Date:	8/1/2006
Lfd Permit Id:	Not reported

UST:

Tank ID:	T00001
Tank Status:	**Currently In Use**
Tank Type:	Steel;Double Walled (Interstice)
Capacity:	30000
Content:	Hazardous Substance
CAS #:	STYRENE MENOMER
Regulated:	Yes

DELTECH POLYMERS CORP (Continued) **1000192674**

Overfill Device Installed:	Yes
Spill Device Installed:	Yes
AST/UST:	UST
Installation Date:	1/1/1988
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Impressed Current
Release Detection on Tank:	Ground Water Monitoring;Interstitial Monitoring Double Walled
Corrosion Protection Piping:	Impressed Current
Piping Material:	Bare Steel
Piping Type:	Gravity Feed
Release Detection on Piping:	Ground Water Monitoring

Tank ID:	T00002
Tank Status:	**Currently In Use**
Tank Type:	Steel;Double Walled (Interstice)
Capacity:	30000
Content:	Hazardous Substance
CAS #:	STYRENE MENOMER
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1988
Date Removed:	Not reported
Date Last Used:	Not reported
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Impressed Current
Release Detection on Tank:	Ground Water Monitoring;Interstitial Monitoring Double Walled
Corrosion Protection Piping:	Impressed Current
Piping Material:	Bare Steel
Piping Type:	Gravity Feed
Release Detection on Piping:	Ground Water Monitoring

Tank ID:	T00003
Tank Status:	**Tank Temporarily Closed**
Tank Type:	Bare Steel
Capacity:	20000
Content:	Hazardous Substance
CAS #:	STYRENE ETHYLBENZENE
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1976
Date Removed:	Not reported
Date Last Used:	11/1/1998
Date Abandoned/Closed:	11/1/1998
Corrosion Protection Tank:	None Required
Release Detection on Tank:	None Required
Corrosion Protection Piping:	None Required
Piping Material:	Bare Steel
Piping Type:	Gravity Feed
Release Detection on Piping:	None Required (Emergency Generator UST)

Tank ID:	T00004

DELTECH POLYMERS CORP (Continued) **1000192674**

Tank Status:	**Removed**
Tank Type:	Steel;Double Walled (Interstice)
Capacity:	5000
Content:	Hazardous Substance
CAS #:	STYRENE MISC.
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1988
Date Removed:	8/24/1995
Date Last Used:	8/24/1995
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00005
Tank Status:	**Removed**
Tank Type:	Steel
Capacity:	500
Content:	Unknown
CAS #:	Not reported
Regulated:	Yes
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1978
Date Removed:	8/24/1995
Date Last Used:	10/1/1987
Date Abandoned/Closed:	Not reported
Corrosion Protection Tank:	Not reported
Release Detection on Tank:	Not reported
Corrosion Protection Piping:	Not reported
Piping Material:	Bare Steel
Piping Type:	Not reported
Release Detection on Piping:	Not reported

Tank ID:	T00006
Tank Status:	**Change In Service**
Tank Type:	Steel
Capacity:	500
Content:	Hazardous Substance
CAS #:	Not reported
Regulated:	No
Overfill Device Installed:	No
Spill Device Installed:	No
AST/UST:	UST
Installation Date:	1/1/1978
Date Removed:	Not reported
Date Last Used:	10/1/1987
Date Abandoned/Closed:	1/1/1992
Corrosion Protection Tank:	None Required
Release Detection on Tank:	None Required

DELTECH POLYMERS CORP (Continued) **1000192674**

Corrosion Protection Piping:	None Required
Piping Material:	Bare Steel
Piping Type:	Gravity Feed
Release Detection on Piping:	None Required

NY MANIFEST:

EPA ID:	OHD077432409
Country:	USA
Mailing Name:	GOODSON POLYMERS INCORPORATED
Mailing Contact:	GOODSON POLYMERS INCORPORATED
Mailing Address:	1250 SOUTH UNION STREET
Mailing Address 2:	Not reported
Mailing City:	TROY
Mailing State:	OH
Mailing Zip:	45373
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	513-339-0591

Document ID:	NYA5497983
Manifest Status:	Completed copy
Trans1 State ID:	186Q15
Trans2 State ID:	Not reported
Generator Ship Date:	880927
Trans1 Recv Date:	880927
Trans2 Recv Date:	881003
TSD Site Recv Date:	881006
Part A Recv Date:	881013
Part B Recv Date:	881013
Generator EPA ID:	OHD077432409
Trans1 EPA ID:	OHD981954571
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	50000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

Document ID:	NYA5498037
Manifest Status:	Completed copy
Trans1 State ID:	Not reported
Trans2 State ID:	Not reported
Generator Ship Date:	880927
Trans1 Recv Date:	880927
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	881006
Part A Recv Date:	881013
Part B Recv Date:	881013
Generator EPA ID:	OHD077432409
Trans1 EPA ID:	OHD981954571

DELTECH POLYMERS CORP (Continued) **1000192674**

Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity:	50000
Units:	P - Pounds
Number of Containers:	001
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	100
Year:	88

SPILLS:

Spill No.:	8601-55-0172
Spill Year:	1986
Date Spill Reported:	01/21/86
Spill Month:	1
Spill Number:	0172
Reporter Name:	COMPANY
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	POLYSTYRENE RESIN

Spill No.:	9202-55-0477
Spill Year:	1992
Date Spill Reported:	02/10/92
Spill Month:	2
Spill Number:	0477
Reporter Name:	COMPANY
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	1765
Lat/Long:	400131 / 841201
Product Spilled Name:	LUBE OIL
Product Spilled Name:	STYRENE

Spill No.:	9206-55-2460
Spill Year:	1992
Date Spill Reported:	06/12/92
Spill Month:	6
Spill Number:	2460
Reporter Name:	FD
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	STYRENE

Spill No.:	9411-55-5050
Spill Year:	1994
Date Spill Reported:	11/28/94
Spill Month:	11
Spill Number:	5050

DELTECH POLYMERS CORP (Continued) **1000192674**

Reporter Name:	TERRY SMALL
Confidential:	No
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	STYRENE

Spill No.:	1011-55-3180
Spill Year:	2010
Date Spill Reported:	11/24/2010 00:00:00
Spill Month:	11
Spill Number:	3180
Reporter Name:	BOB SUNDLIE
Confidential:	Not reported
District Code:	SW
County Code:	55
Employee Number:	Not reported
Lat/Long:	Not reported
Product Spilled Name:	STYRENE

Click this hyperlink while viewing on your computer to access additional OH SPILL: detail in the EDR Site Report.

Count: 18 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TROY	1000440859	CITY TRANSFER & STORAGE CO	BIG FOUR RR AND CRAWFORD	45373	RCRA-NonGen, FINDS
TROY	1006216371	MIAMI COUNTY SOLID WASTE & RECYCLI	2200 N CORD 25 A	45373	FINDS, SWF/LF
TROY	U004102787	TROY FORD, INC.	3230 S COUNTY ROAD 25A	45373	LUST, UST
TROY	U004089934	ERWIN CHRYSLER-PLYMOUTH DODGE, I	2245 S COUNTY ROAD 25A	45373	LUST, UST
TROY	1005869698	TROY SOUTH PLANT	DYE MILL RD	45373	FINDS
TROY	874834	PARKING LOT ON WATER ST. BROWN BRI	PARKING LOT ON WATER ST. BROWN		ERNS
TROY	1011964633	PLANT 16	701 S RIDGE AVE	45373	PCB TRANSFORMER
TROY	1011968854	PLANT 16	701 S RIDGE AVE	45373	PCB TRANSFORMER
TROY	1011965173	PLANT 16	701 S RIDGE AVE	45373	PCB TRANSFORMER
TROY	1011964876	PLANT 16	701 S RIDGE AVE	45373	PCB TRANSFORMER
TROY	1005869697	TROY NORTH PLANT	CO RTE 504	45373	FINDS
TROY	1009400132	ODOT MIAMI COUNTY GARAGE	2423 STATE ROUTE 55	45373	RCRA-CESQG
TROY	S106314647	TROY WATER PLANT	TROY DM		SPILLS
TROY	1003872396	TROSTEL PARK LDFL UNION STREET LDF	SOUTH UNION STREET	45373	CERC-NFRAP
TROY	U004089792	ELIZABETH ELEM SCHOOL	5760 WALNUT GROVE-CLARK COUNTY	45373	LUST, UST
TROY	S105743192	TROY GAS COMPANY	E WATER & CLAY STS	45373	TOWNGAS
TROY	S110482551	TROY DRINKING WATER PLANT	WELLBROOK & RIDGE AVE		SPILLS
TROY	1003872403	TROY RR DEPOT	EAST WEST ST	45373	CERC-NFRAP, DERR

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 06/30/2011
Date Data Arrived at EDR: 07/12/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 79

Source: EPA
Telephone: N/A
Last EDR Contact: 10/12/2011
Next Scheduled EDR Contact: 01/23/2012
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 06/30/2011
Date Data Arrived at EDR: 07/12/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 79

Source: EPA
Telephone: N/A
Last EDR Contact: 10/12/2011
Next Scheduled EDR Contact: 01/23/2012
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 06/30/2011	Source: EPA
Date Data Arrived at EDR: 07/12/2011	Telephone: N/A
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 10/12/2011
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/29/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/12/2012
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/10/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/11/2011	Telephone: 703-603-8704
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 10/14/2011
Number of Days to Update: 36	Next Scheduled EDR Contact: 01/23/2012
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/25/2011	Source: EPA
Date Data Arrived at EDR: 03/01/2011	Telephone: 703-412-9810
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 11/29/2011
Number of Days to Update: 62	Next Scheduled EDR Contact: 03/12/2012
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/09/2011
Date Data Arrived at EDR: 03/15/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 91

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/05/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/05/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/05/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/05/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2011
Date Data Arrived at EDR: 03/25/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 10/03/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/04/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: Ohio EPA
Telephone: 614-644-2924
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: N/A

DERR: Division of Emergency & Remedial Response's Database

The DERR listings contains sites from all of Ohio that are in the Division of Emergency and Remedial Response (DERR) database, which is an index of sites for which our district offices maintain files. The database is NOT a record of contaminated sites or sites suspected of contamination. Not all sites in the database are contaminated, and a site's absence from the database does not imply that it is uncontaminated.

Date of Government Version: 08/22/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/27/2011
Number of Days to Update: 35

Source: Ohio EPA, Div. of Emergency and Remedial Response
Telephone: 614-644-3538
Last EDR Contact: 11/21/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Licensed Solid Waste Facilities
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/17/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 11/08/2011
Number of Days to Update: 20

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2621
Last EDR Contact: 10/17/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank File
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/18/2011
Date Data Arrived at EDR: 10/20/2011
Date Made Active in Reports: 11/01/2011
Number of Days to Update: 12

Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 11/23/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Quarterly

UNREG LTANKS: Ohio Leaking UST File
A suspected or confirmed release of petroleum from a non-regulated UST.

Date of Government Version: 08/25/1999
Date Data Arrived at EDR: 08/19/2003
Date Made Active in Reports: 08/26/2003
Number of Days to Update: 7

Source: Department of Commerce
Telephone: 614-752-7938
Last EDR Contact: 08/01/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 10

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/01/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/31/2011
Date Data Arrived at EDR: 02/01/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 48

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/16/2011
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 103

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Underground Storage Tank Tank File
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 09/16/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/30/2011
Number of Days to Update: 14

Source: Department of Commerce
Telephone: 614-752-8200
Last EDR Contact: 12/12/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 25

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/04/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2011
Date Data Arrived at EDR: 06/01/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 13

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/12/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 32

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 07/01/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 18

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2011
Date Data Arrived at EDR: 11/01/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 10

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/02/2011
Date Data Arrived at EDR: 11/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 7

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/17/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Sites with Engineering Controls
A database that tracks properties with engineering controls.

Date of Government Version: 08/17/2011
Date Data Arrived at EDR: 08/18/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 41

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Semi-Annually

INST CONTROL: Sites with Institutional Engineering Controls
A database that tracks properties with institutional controls.

Date of Government Version: 08/17/2011
Date Data Arrived at EDR: 08/18/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 41

Source: Ohio Environmental Protection Agency
Telephone: 614-644-2306
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Semi-Annually

HIST INST CONTROLS: Institutional Controls Database
"Institutional control" is a restriction that is recorded in the same manner as a deed which limits access to or use of the property such that exposure to hazardous substances or petroleum are effectively and reliably eliminated or mitigated. Examples of institutional controls include land and water use restrictions. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 28

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

HIST ENG CONTROLS: Operation & Maintenance Agreements Database
Volunteers that complete a voluntary action that relies on the ongoing operation and maintenance (O&M) of an engineered control to make the site protective (e.g" cap systems and ground water treatment systems) must enter into a legally binding agreement with the Ohio EPA before the director issues a covenant not to sue. This O&M Agreement must describe how the remedy is constructed and how itwill be monitored, maintained and repaired. It also lays out inspection opportunities for the agency. Companies must document that they have the financial capability to operate any remedy relied on, before the agency will agree to enter into the O&M Agreement. The statute requires that the agency be notified of any change in ownership. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/04/2006
Date Made Active in Reports: 05/04/2006
Number of Days to Update: 30

Source: Ohio EPA
Telephone: 614-644-2306
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

State and tribal voluntary cleanup sites

VCP: Voluntary Action Program Sites
Site involved in the Voluntary Action Program.

Date of Government Version: 08/17/2011
Date Data Arrived at EDR: 08/18/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 41

Source: Ohio EPA, Voluntary Action Program
Telephone: 614-728-1298
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 08/04/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/04/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Ohio Brownfield Inventory
A statewide brownfields inventory. A brownfield is an abandoned, idled or under-used industrial or commercial property where expansion or redevelopment is complicated by known or potential releases of hazardous substances and/or petroleum.

Date of Government Version: 09/20/2011
Date Data Arrived at EDR: 09/21/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 7

Source: Ohio EPA
Telephone: 614-644-3748
Last EDR Contact: 09/21/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 06/27/2011
Date Data Arrived at EDR: 06/27/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/28/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

HIST LF: Old Solid Waste Landfill

A list of about 1200 old abandoned dumps or landfills. This database was developed from Ohio EPA staff notebooks and other information dating from the mid-1970s

Date of Government Version: 01/01/1980
Date Data Arrived at EDR: 07/01/2003
Date Made Active in Reports: 07/17/2003
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/26/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facility Listing

A listing of recycling facility locations.

Date of Government Version: 07/07/2011
Date Data Arrived at EDR: 07/22/2011
Date Made Active in Reports: 08/09/2011
Number of Days to Update: 18

Source: Ohio EPA
Telephone: 614-728-5357
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/07/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 06/08/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 13

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/05/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Locations
A list of clandestine drug lab sites with environmental impact. This list is extracted from the SPILLS database based on the "product" type.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 02/19/2010
Date Made Active in Reports: 03/09/2010
Number of Days to Update: 18

Source: Ohio EPA
Telephone: 614-644-2080
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

ARCHIVE UST: Archived Underground Storage Tank Sites
Underground storage tank records that have been removed from the Underground Storage Tank database.

Date of Government Version: 09/16/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 12

Source: Department of Commerce, Division of State Fire Marshal
Telephone: 614-752-7938
Last EDR Contact: 12/12/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Quarterly

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 09/09/2011
Date Data Arrived at EDR: 09/16/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/22/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 10/04/2011
Date Data Arrived at EDR: 10/04/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 38

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/04/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Annually

SPILLS: Emergency Response Database

Incidents reported to the Emergency Response Unit. The focus of the ER program is to minimize the impact on the environment from accidental releases, spills, and unauthorized discharges from any fixed or mobile sources. Incidents involving petroleum products, hazardous materials, hazardous waste, abandoned drums, or other materials which may pose as a pollution threat to the state?s water, land, or air should be reported immediately. Not all incidents included in the database are actual SPILLS, they can simply be reported incidents.

Date of Government Version: 05/30/2011
Date Data Arrived at EDR: 06/01/2011
Date Made Active in Reports: 06/28/2011
Number of Days to Update: 27

Source: Ohio EPA
Telephone: 614-644-2084
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/15/2011
Date Data Arrived at EDR: 07/07/2011
Date Made Active in Reports: 08/08/2011
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 10/05/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/29/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 94

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/08/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Varies

DOD: Department of Defense Sites
This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites
The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 08/12/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 112

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/09/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/01/2011
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 41

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/03/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Varies

ROD: Records Of Decision
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/31/2011
Date Data Arrived at EDR: 09/14/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 15

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/14/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites
Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/21/2010
Date Made Active in Reports: 01/28/2011
Number of Days to Update: 99

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/29/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Varies

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011
Date Data Arrived at EDR: 09/08/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 21

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/07/2011
Next Scheduled EDR Contact: 03/19/2012
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/17/2010
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 94

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 12/02/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/27/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/31/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/07/2011
Date Data Arrived at EDR: 01/21/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 59

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010
Date Data Arrived at EDR: 11/10/2010
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 98

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/19/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011
Date Data Arrived at EDR: 07/15/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 60

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/12/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/11/2011
Date Data Arrived at EDR: 01/13/2011
Date Made Active in Reports: 02/16/2011
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/13/2011
Next Scheduled EDR Contact: 01/23/2012
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/14/2010
Date Data Arrived at EDR: 04/16/2010
Date Made Active in Reports: 05/27/2010
Number of Days to Update: 41

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 09/13/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 03/01/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 62

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/30/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Biennially

TOWNGAS: DERR Towngas Database

The database includes 82 very old sites (circa 1895) which produced gas from coal for street lighting. Most visual evidence of these sites has disappeared, however the potential for buried coal tar remains. The database is no longer in active use.

Date of Government Version: 07/28/1992
Date Data Arrived at EDR: 02/21/2003
Date Made Active in Reports: 03/05/2003
Number of Days to Update: 12

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 02/12/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UIC: Underground Injection Wells Listing
A listing of underground injection well locations.

Date of Government Version: 08/22/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/27/2011
Number of Days to Update: 35

Source: Ohio EPA
Telephone: 614-644-2752
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facility locations.

Date of Government Version: 10/05/2011
Date Data Arrived at EDR: 10/06/2011
Date Made Active in Reports: 10/31/2011
Number of Days to Update: 25

Source: Ohio EPA
Telephone: 614-644-3469
Last EDR Contact: 10/03/2011
Next Scheduled EDR Contact: 01/16/2012
Data Release Frequency: Varies

NPDES: NPDES General Permit List
General information regarding NPDES (National Pollutant Discharge Elimination System) permits.

Date of Government Version: 08/17/2011
Date Data Arrived at EDR: 08/18/2011
Date Made Active in Reports: 09/27/2011
Number of Days to Update: 40

Source: Ohio EPA
Telephone: 614-644-2031
Last EDR Contact: 11/16/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Semi-Annually

AIRS: Title V Permits Listing
A listing of Title V Permits issued by the Division of Air Pollution Control. It is a federal operating permit program adopted and implemented by the state. The basic program elements typically specify that major sources will submit an operating application to the specified state environmental regulatory agency according to a schedule.

Date of Government Version: 09/27/2011
Date Data Arrived at EDR: 09/27/2011
Date Made Active in Reports: 11/07/2011
Number of Days to Update: 41

Source: Ohio EPA
Telephone: 614-644-2270
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Varies

USD: Urban Setting Designation Sites
A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined.

Date of Government Version: 08/17/2011
Date Data Arrived at EDR: 08/18/2011
Date Made Active in Reports: 09/28/2011
Number of Days to Update: 41

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 11/14/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

HIST USD: Urban Setting Designations Database
A USD may be requested for properties participating in the VAP when there is no current or future use of the ground water by local residents for drinking, showering, bathing or cooking. In these areas, an approved USD would lower the cost of cleanup and promote economic redevelopment while still protecting public health and safety. If these USDs were to be approved, the ground water cleanup or response requirements for the areas could be lessened. The Ohio EPA director may approve a USD request based on a demonstration that the USD requirements are met and an evaluation of existing and future uses of ground water in the area. The Ohio EPA director's decision on approval or denial of the request is needed before cleanup requirements for the site can be determined. This database is no longer updated or maintained by the state agency.

Date of Government Version: 05/10/2005
Date Data Arrived at EDR: 04/25/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 16

Source: Ohio EPA
Telephone: 614-644-3749
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 10/24/2011
Next Scheduled EDR Contact: 02/06/2012
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/08/2011
Next Scheduled EDR Contact: 03/26/2012
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/04/2011
Next Scheduled EDR Contact: 02/13/2012
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/08/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 10/20/2011
Date Data Arrived at EDR: 10/20/2011
Date Made Active in Reports: 10/31/2011
Number of Days to Update: 11

Source: Ohio EPA
Telephone: 614-644-2955
Last EDR Contact: 10/17/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 01/23/2009
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/06/2009
Number of Days to Update: 10

Source: Ohio EPA
Telephone: 614-644-2134
Last EDR Contact: 10/17/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/20/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: N/A

CRO: Cessation of Regulated Operations Facility Listing
"Cessation of Regulated Operations" means the discontinuation or termination of regulated operations or the finalizing of any transaction or proceeding through which those operations are discontinued. "Regulated Operations" means the production, use, storage or handling of regulated substances.

Date of Government Version: 06/17/2011
Date Data Arrived at EDR: 08/23/2011
Date Made Active in Reports: 09/27/2011
Number of Days to Update: 35

Source: Ohio EPA
Telephone: 614-644-3065
Last EDR Contact: 11/18/2011
Next Scheduled EDR Contact: 02/27/2012
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/22/2011
Next Scheduled EDR Contact: 03/05/2012
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 07/20/2011
Date Made Active in Reports: 08/11/2011
Number of Days to Update: 22

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/18/2011
Next Scheduled EDR Contact: 01/30/2012
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2011
Date Data Arrived at EDR: 08/09/2011
Date Made Active in Reports: 09/16/2011
Number of Days to Update: 38

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/08/2011
Next Scheduled EDR Contact: 02/20/2012
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/24/2011
Date Made Active in Reports: 06/30/2011
Number of Days to Update: 6

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/28/2011
Next Scheduled EDR Contact: 03/12/2012
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 08/11/2011
Date Data Arrived at EDR: 08/26/2011
Date Made Active in Reports: 09/14/2011
Number of Days to Update: 19

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 10/24/2011
Next Scheduled EDR Contact: 02/06/2012
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 08/19/2011
Date Made Active in Reports: 09/15/2011
Number of Days to Update: 27

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Child Day Care Facilities
Source: Department of Job & Family Services
Telephone: 614-466-6282

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SPINNAKER COATINGS PLANT #1
518 EAST WATER STREET
TROY, OH 45373

TARGET PROPERTY COORDINATES

Latitude (North):	40.03810 - 40˚ 2' 17.2''
Longitude (West):	84.197 - 84˚ 11' 49.2''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	739153.1
UTM Y (Meters):	4435540.5
Elevation:	822 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	40084-A2 TROY, OH
Most Recent Revision:	1984

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

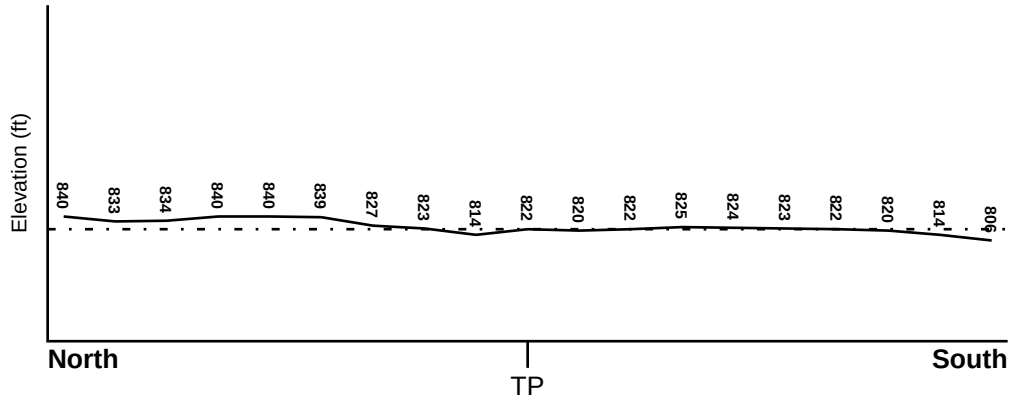
TOPOGRAPHIC INFORMATION

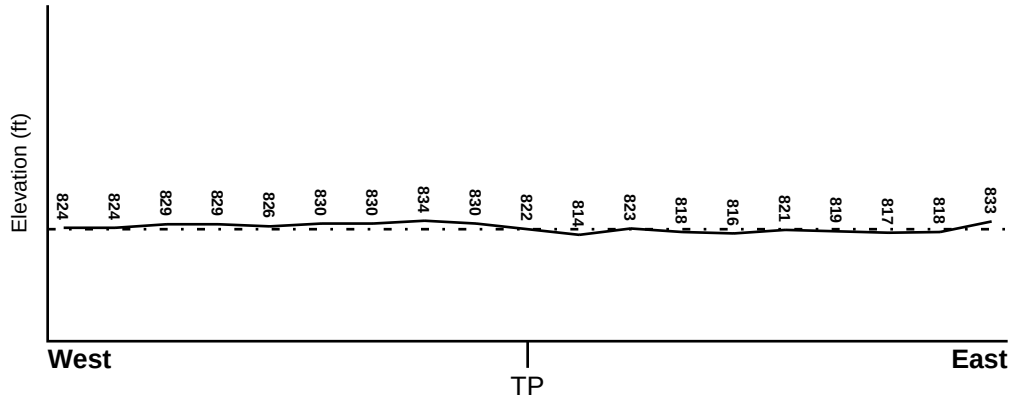
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 822 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
MIAMI, OH	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
TROY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

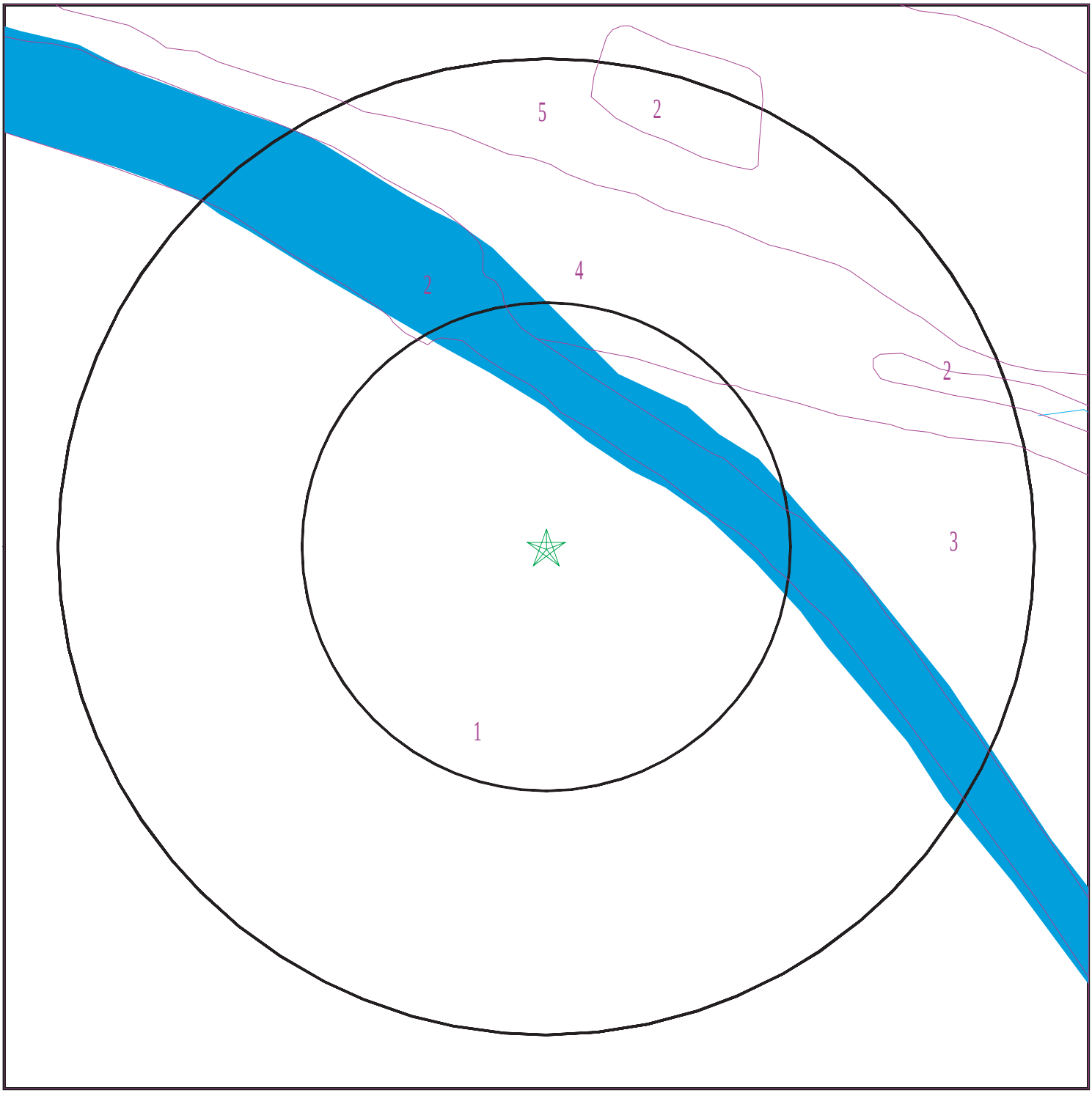
Era:	Paleozoic
System:	Ordovician
Series:	Upper Ordovician (Cincinnatian)
Code:	O3 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 3222629.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Spinnaker Coatings Plant #1 ADDRESS: 518 East Water Street Troy OH 45373 LAT/LONG: 40.0381 / 84.1970	CLIENT: Michael Kerr CONTACT: Richard Ordeman INQUIRY #: 3222629.2s DATE: December 12, 2011 4:35 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Eldean

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
2	11 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
3	22 inches	29 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	29 inches	59 inches	stratified gravel to sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Eldean

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
2	11 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
3	22 inches	29 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
4	29 inches	59 inches	stratified sand to gravel	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: Eel

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 76 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	31 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
2	31 inches	42 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9
3	42 inches	59 inches	stratified sand to gravel	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141.14 Min: 42.34	Max: 8.4 Min: 7.9

Soil Map ID: 5

Soil Component Name: Ross

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	44 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.1
2	44 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14.11 Min: 4.23	Max: 8.4 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS2317354	0 - 1/8 Mile NNE
A3	USGS2317353	0 - 1/8 Mile NE
A6	USGS2317356	1/8 - 1/4 Mile NE
B7	USGS2317352	1/8 - 1/4 Mile East
C11	USGS2317351	1/8 - 1/4 Mile ESE
F18	USGS2317350	1/4 - 1/2 Mile ESE
J37	USGS2317358	1/2 - 1 Mile NW
M60	USGS2317360	1/2 - 1 Mile NW
66	USGS2317347	1/2 - 1 Mile SSE
70	USGS2317359	1/2 - 1 Mile NE
76	USGS2317349	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B9	OH5501612	1/8 - 1/4 Mile East

Note: PWS System location is not always the same as well location.

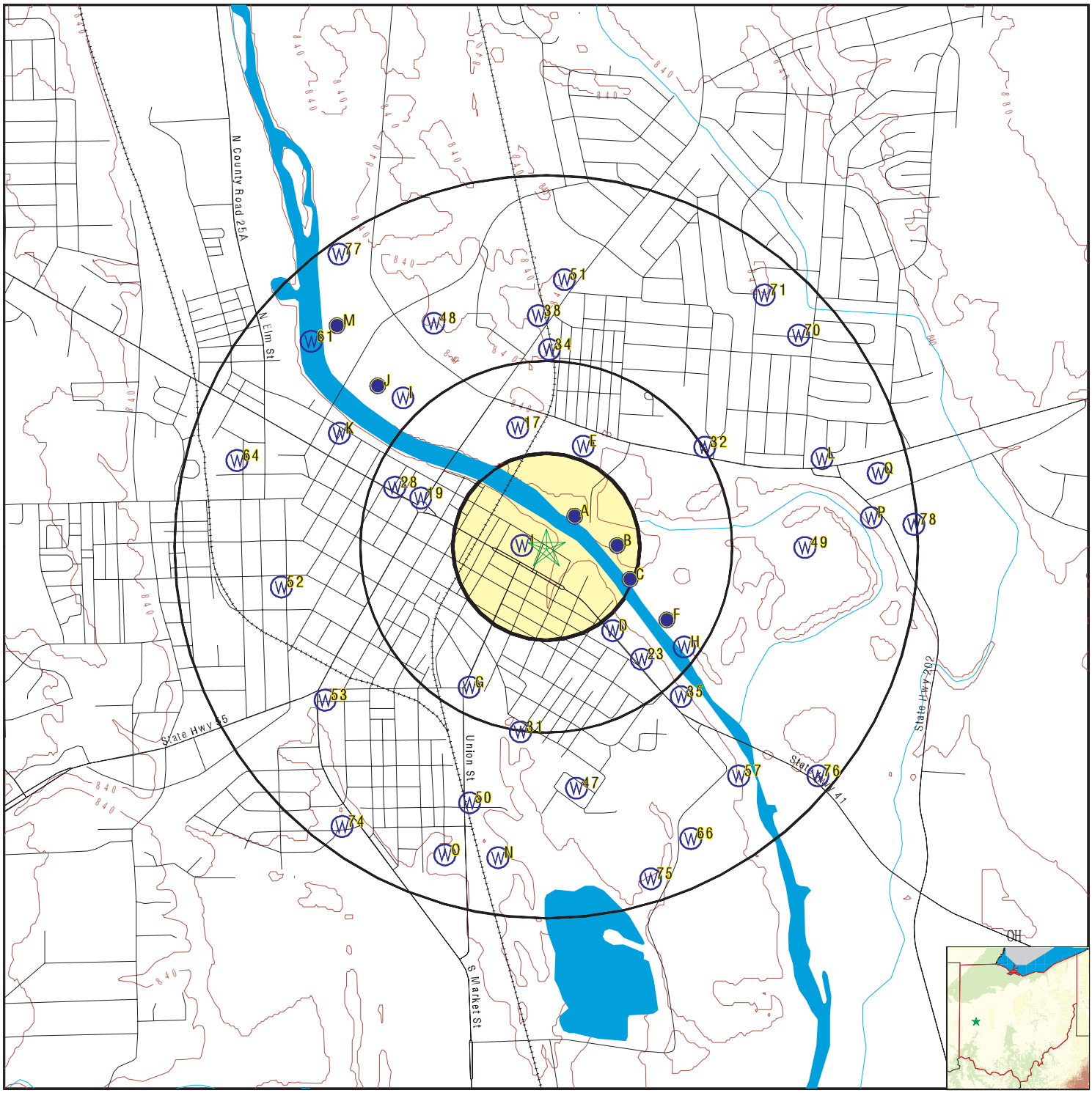
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	OHD500000797785	0 - 1/8 Mile West
A4	OHD500000287452	0 - 1/8 Mile NE
A5	OHD500000279129	0 - 1/8 Mile NE
B8	OHPW50000002104	1/8 - 1/4 Mile East
B10	OHD500000279128	1/8 - 1/4 Mile East
D12	OHD500000608930	1/4 - 1/2 Mile SE
C13	OHPW50000002094	1/4 - 1/2 Mile ESE
E14	OHD500000714291	1/4 - 1/2 Mile NNE
E15	OHWT30000001157	1/4 - 1/2 Mile NNE
D16	OHD500000607837	1/4 - 1/2 Mile SE
17	OHD500000284847	1/4 - 1/2 Mile NNW
19	OHD500000279137	1/4 - 1/2 Mile WNW
F20	OHPW50000002091	1/4 - 1/2 Mile ESE
F21	OHD500000287619	1/4 - 1/2 Mile ESE
F22	OHPW50000002090	1/4 - 1/2 Mile ESE
23	OHD500000651832	1/4 - 1/2 Mile SE
F24	OHD500000287622	1/4 - 1/2 Mile ESE
G25	OHD500000608932	1/4 - 1/2 Mile SSW
G26	OHD500000609459	1/4 - 1/2 Mile SSW
G27	OHD500000609460	1/4 - 1/2 Mile SSW
28	OHD500000279120	1/4 - 1/2 Mile WNW
H29	OHD500000287623	1/4 - 1/2 Mile SE
H30	OHPW50000002087	1/4 - 1/2 Mile SE
31	OHD500000278821	1/2 - 1 Mile South
32	OHD500000814407	1/2 - 1 Mile ENE
I33	OHD500000287248	1/2 - 1 Mile NW
34	OHD500000281336	1/2 - 1 Mile North
35	OHD500000280008	1/2 - 1 Mile SE
I36	OHD500000287249	1/2 - 1 Mile NW
38	OHD500000812805	1/2 - 1 Mile North
K39	OHD500000720963	1/2 - 1 Mile WNW
K40	OHD500000715434	1/2 - 1 Mile WNW
K41	OHD500000715433	1/2 - 1 Mile WNW
K42	OHD500000773271	1/2 - 1 Mile WNW
K43	OHD500000720970	1/2 - 1 Mile WNW
K44	OHD500000720965	1/2 - 1 Mile WNW
J45	OHPW50000002110	1/2 - 1 Mile NW

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
K46	OHD500000812812	1/2 - 1 Mile WNW
47	OHD500000280007	1/2 - 1 Mile South
48	OHD500000284848	1/2 - 1 Mile NNW
49	OHD500000280232	1/2 - 1 Mile East
50	OHD500000623779	1/2 - 1 Mile SSW
51	OHD500000281334	1/2 - 1 Mile North
52	OHD500000280001	1/2 - 1 Mile West
53	OHD500000280003	1/2 - 1 Mile SW
L54	OHD500000281194	1/2 - 1 Mile ENE
L55	OHD500000281195	1/2 - 1 Mile ENE
M56	OHD500000279106	1/2 - 1 Mile NW
57	OHD500000280217	1/2 - 1 Mile SE
M58	OHD500000287451	1/2 - 1 Mile NW
M59	OHPW50000002113	1/2 - 1 Mile NW
61	OHD500000278820	1/2 - 1 Mile NW
N62	OHD500000280006	1/2 - 1 Mile South
N63	OHD500000279116	1/2 - 1 Mile South
64	OHD500000717106	1/2 - 1 Mile WNW
O65	OHD500000280221	1/2 - 1 Mile SSW
P67	OHD500000718219	1/2 - 1 Mile East
P68	OHD500000286331	1/2 - 1 Mile East
O69	OHD500000280005	1/2 - 1 Mile SSW
71	OHD500000759911	1/2 - 1 Mile NE
Q72	OHD500000281191	1/2 - 1 Mile ENE
Q73	OHD500000281190	1/2 - 1 Mile ENE
74	OHD500000714256	1/2 - 1 Mile SW
75	OHD500000281288	1/2 - 1 Mile SSE
77	OHPW50000002115	1/2 - 1 Mile NW
78	OHD500000281202	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 3222629.2s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location

SITE NAME: Spinnaker Coatings Plant #1 ADDRESS: 518 East Water Street Troy OH 45373 LAT/LONG: 40.0381 / 84.1970	CLIENT: Michael Kerr CONTACT: Richard Ordeman INQUIRY #: 3222629.2s DATE: December 12, 2011 4:35 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **West** **0 - 1/8 Mile** **Higher**	**OH WELLS**	**OHD500000797785**

Well log n:	2022320		
Well type :	W		
End user i:	1361		
Cnty code:	109	Twp code:	2665
Orig owner:	LANE & KATIE	Orig own 1:	HALE
Drill type:	AR	Test type :	A
Well use c:	AGR	Aquifer ty:	GRA
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	NA
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	736		
St name:	SHAFTSBURY	St type co:	RD
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Well Loc Desc:	ON THE WEST SIDE OF SHAFTSBURY ROAD NORTH OFF OF ADAMS STREET		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD83		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	945		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03815		
Longitude:	-84.19823		
Source of :	GLOBAL POSITION SYSTEM	Flowing we:	N
Test rate:	50		
Draw down:	25		
S water le:	18		
S water me:	T	S water 1:	05/22/2009
Cas ht:	1.6		
Screen len:	3		
Total dept:	54		
Date of co:	05/22/2009	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	CLEAR		
Well seal :	0		
Screen slo:	.02		
Screened i:	51		
Screened 1:	54		

Sustained :	50		
Attatch st:	Not Reported		
Screen dia:	5		
Screen typ:	CONTINOUS WIRE WOUND	Screen mat:	PVC
Pump type:	SUBMERSIBLE		
Pump capac:	12		
Pump set a:	0		
Pitless ty:	SIMMONS	Pump inst :	WILEY WELL DRILLING, INC.
Elev sourc:	GLOBAL POSITION SYSTEM		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000797785		

A2
NNE **FED USGS** **USGS2317354**
0 - 1/8 Mile
Lower

Agency cd:	USGS	Site no:	400221084114600
Site name:	MI-11		
Latitude:	400221	EDR Site id:	USGS2317354
Longitude:	0841146	Dec lat:	40.03922063
Dec lon:	-84.19605421	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	824.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-12-01	Ground water data end date:	1966-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-12-01	12.00	

Map ID Direction Distance Elevation	Database	EDR ID Number
A3 **NE** **0 - 1/8 Mile** **Lower**	**FED USGS**	**USGS2317353**

Agency cd:	USGS	Site no:	400221084114500
Site name:	MI-10		
Latitude:	400221	EDR Site id:	USGS2317353
Longitude:	0841145	Dec lat:	40.03922064
Dec lon:	-84.19577643	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	825.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	166	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-12-01	Ground water data end date:	1966-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-12-01	12.00	

A4 **NE** **0 - 1/8 Mile** **Higher**		**OH WELLS**	**OHD500000287452**

Well log n:	733436		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	STO
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.039161		
Longitude:	-84.195414		
Source of :	Not Reported	Flowing we:	N
Test rate:	1000		
Draw down:	16.3		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	124		
Date of co:	03/24/1992	Located in:	Not Reported
Assoc rpt :	Y		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287452		

A5
NE
0 - 1/8 Mile
Higher

OH WELLS **OHD500000279129**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	374169		
Well type :	W		
End user i:	1076		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	43		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	MARKET	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.039256		
Longitude:	-84.195409		
Source of :	Not Reported	Flowing we:	N
Test rate:	2100		
Draw down:	35		
S water le:	11.5		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	117		
Date of co:	07/23/1968	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279129		

A6
NE
1/8 - 1/4 Mile
Lower

FED USGS **USGS2317356**

Agency cd:	USGS	Site no:	400222084114300
Site name:	MI-14		
Latitude:	400222	EDR Site id:	USGS2317356
Longitude:	0841143	Dec lat:	40.03949842
Dec lon:	-84.19522085	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	825.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-12-01	Ground water data end date:	1966-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-12-01	6.00	

B7
East
1/8 - 1/4 Mile
Lower

FED USGS **USGS2317352**

Agency cd:	USGS	Site no:	400217084113800
Site name:	MI-12		
Latitude:	400217	EDR Site id:	USGS2317352
Longitude:	0841138	Dec lat:	40.03810959
Dec lon:	-84.19383191	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	821.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	125	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-12-01	Ground water data end date:	1966-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-12-01	10.00	

B8
East
1/8 - 1/4 Mile
Higher

OH WELLS **OHPW50000002104**

Objectid:	3875		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15630		
Well name:	TROY, CITY OF WELL 0E14		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.038189		
Longitude:	-84.193414		

Accuracy:	5
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED
Hdatum:	WGS 84
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)
Site id:	OHPW50000002104

B9
East
1/8 - 1/4 Mile
Higher

FRDS PWS **OH5501612**

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100607		
Facility name:	Troy, City Of WELL 0W04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100609		
Facility name:	Troy, City Of WELL 0W12		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100611		
Facility name:	Troy, City Of P01		
Facility type:	Sampling_station	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100613		
Facility name:	Troy, City Of WELL 0E13		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100615		
Facility name:	Troy, City Of WELL 0E17		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100617		
Facility name:	Troy, City Of WELL 0E14		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100603		
Facility name:	Troy, City Of WELL 0E04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100605		
Facility name:	Troy, City Of WELL 0W03		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100607		
Facility name:	Troy, City Of WELL 0W04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100609		
Facility name:	Troy, City Of WELL 0W12		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100611		
Facility name:	Troy, City Of P01		
Facility type:	Sampling_station	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100613		
Facility name:	Troy, City Of WELL 0E13		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100615		
Facility name:	Troy, City Of WELL 0E17		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100617		
Facility name:	Troy, City Of WELL 0E14		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100619		
Facility name:	Troy, City Of WELL 0E18		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	31080		
Facility name:	Troy City		
Facility type:	Treatment_plant	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	67008		
Facility name:	Troy, City Of Distribution		
Facility type:	Distribution_system_zone	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100603		
Facility name:	Troy, City Of WELL 0E04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100605		
Facility name:	Troy, City Of WELL 0W03		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100607		
Facility name:	Troy, City Of WELL 0W04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100609		
Facility name:	Troy, City Of WELL 0W12		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100611		
Facility name:	Troy, City Of P01		
Facility type:	Sampling_station	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100613		
Facility name:	Troy, City Of WELL 0E13		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100615		
Facility name:	Troy, City Of WELL 0E17		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100617		
Facility name:	Troy, City Of WELL 0E14		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100619		
Facility name:	Troy, City Of WELL 0E18		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	31080		
Facility name:	Troy City		
Facility type:	Treatment_plant	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	67008		
Facility name:	Troy, City Of Distribution		
Facility type:	Distribution_system_zone	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100603		
Facility name:	Troy, City Of WELL 0E04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100605		
Facility name:	Troy, City Of WELL 0W03		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100619		
Facility name:	Troy, City Of WELL 0E18		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	31080		
Facility name:	Troy City		
Facility type:	Treatment_plant	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	67008		
Facility name:	Troy, City Of Distribution		
Facility type:	Distribution_system_zone	Treatment process:	lime - soda ash addition
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100603		
Facility name:	Troy, City Of WELL 0E04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100605		
Facility name:	Troy, City Of WELL 0W03		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100607		
Facility name:	Troy, City Of WELL 0W04		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100609		
Facility name:	Troy, City Of WELL 0W12		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100611		
Facility name:	Troy, City Of P01		
Facility type:	Sampling_station	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100613		
Facility name:	Troy, City Of WELL 0E13		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100615		
Facility name:	Troy, City Of WELL 0E17		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100617		
Facility name:	Troy, City Of WELL 0E14		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		
Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100619		
Facility name:	Troy, City Of WELL 0E18		
Facility type:	Well	Treatment process:	lime - soda ash addition
Treatment objective:	other		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	31080		
Facility name:	Troy City		
Facility type:	Treatment_plant	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	67008		
Facility name:	Troy, City Of Distribution		
Facility type:	Distribution_system_zone	Treatment process:	lime - soda ash addition
Treatment objective:	other		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100603		
Facility name:	Troy, City Of WELL 0E04		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100605		
Facility name:	Troy, City Of WELL 0W03		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100607		
Facility name:	Troy, City Of WELL 0W04		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100609		
Facility name:	Troy, City Of WELL 0W12		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		

Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100611		
Facility name:	Troy, City Of P01		
Facility type:	Sampling_station	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

Pwsid:	OH5501612	Epa region:	05
State:	OH	County:	Miami
Pws name:	Troy City PWS		
Population Served:	22500	Pwssvcconn:	9508
PWS Source:	Groundwater		
Pws type:	CWS		
Status:	Active	Owner type:	Private
Facility id:	100613		
Facility name:	Troy, City Of WELL 0E13		
Facility type:	Well	Treatment process:	sedimentation
Treatment objective:	softening (hardness removal)		
Contact name:	John Shaffer		
Original name:	City of Troy		
Contact phone:	Not Reported	Contact address1:	100 South Market Street.
Contact address2:	Not Reported		
Contact city:	Troy		
Contact zip:	45373		

PWS ID:	OH5501612		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	TROY, CITY OF WATER DEPT. SUPERINTENDENT 100 SOUTH MARKET ST. TROY, OH 45373		
Addressee / Facility:	Not Reported		

Facility Latitude:	40 2 0.0000	Facility Longitude:	84 11 19.0000
Facility Latitude:	40 2 3.0000	Facility Longitude:	84 11 22.0000
Facility Latitude:	40 2 39.0000	Facility Longitude:	84 12 21.0000
Facility Latitude:	40 2 58.0000	Facility Longitude:	84 12 27.0000

Facility Latitude:	40 2 12.0000	Facility Longitude:	84 11 32.0000
Facility Latitude:	40 2 48.0000	Facility Longitude:	84 12 28.0000
Facility Latitude:	40 2 7.0000	Facility Longitude:	84 11 28.0000
Facility Latitude:	40 2 17.0000	Facility Longitude:	84 11 36.0000
City Served:	Not Reported		
Treatment Class:	Treated	Population:	21300

Violations information not reported.

B10
East
1/8 - 1/4 Mile
Higher

OH WELLS **OHD500000279128**

Well log n:	374191		
Well type :	W		
End user i:	1076		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	42		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1525908.42		
Horiz y:	746760.62		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.038148		
Longitude:	-84.193136		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	1100		
Draw down:	23.5		
S water le:	11		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	125		
Date of co:	04/17/1969	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279128		

C11
ESE **FED USGS** **USGS2317351**
1/8 - 1/4 Mile
Lower

Agency cd:	USGS	Site no:	400213084113600
Site name:	MI-13		
Latitude:	400213	EDR Site id:	USGS2317351
Longitude:	0841136	Dec lat:	40.03699852
Dec lon:	-84.19327633	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	828.00		
Altitude method:	Level or other surveying method		
Altitude accuracy:	.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	134	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	Not Reported		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-12-01	Ground water data end date:	1966-12-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1966-12-01	14.00	

Map ID Direction Distance Elevation	Database	EDR ID Number
D12 SE 1/4 - 1/2 Mile Higher	**OH WELLS**	**OHD500000608930**

Well log n:	921104		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	670
Orig owner:	CHARLES	Orig own 1:	WATKINS
Drill type:	CT	Test type :	B
Well use c:	D	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	E		
St no:	948		
St name:	MAIN	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03493		
Longitude:	-84.1941		
Source of :	GEOCODE	Flowing we:	N
Test rate:	20		
Draw down:	5		
S water le:	15		
S water me:	T	S water 1:	08/04/2000
Cas ht:	1		
Screen len:	0		
Total dept:	42		
Date of co:	08/04/2000	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	20		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000608930		

C13
ESE **OH WELLS** **OHPW50000002094**
1/4 - 1/2 Mile
Lower

Objectid:	3877		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15632		
Well name:	TROY, CITY OF WELL 0E18		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.036667		
Longitude:	-84.192222		
Accuracy:	500		
Ll colmeth:	INTERPOLATION - MAP		
Hdatum:	NAD 27		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (OTHER)		
Site id:	OHPW50000002094		

E14
NNE **OH WELLS** **OHD500000714291**
1/4 - 1/2 Mile
Higher

Well log n:	10805		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	2665
Orig owner:	F	Orig own 1:	SHAW
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	129		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1525516.11		
Horiz y:	748074.03		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.041733		
Longitude:	-84.194625		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	18		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	37		
Date of co:	04/16/1946	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000714291		

E15
NNE
1/4 - 1/2 Mile
Higher

OH WELLS **OHWT30000001157**

County:	MIAMI	Pwsid:	OH5501612
Wtp num:	5678	Wtp name:	TROY CITY
Tp avail:	PERMANENT	Wtr type:	ground water
Wtpdsn cap:	16000000		
Notreat in:	Not Reported	Wtr body n:	MAXCAP: 7330000 MGD; DSGN_CAP: 1600000
Wtp status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water	First name:	TIMOTHY B.
Last name:	RAY	Title:	Not Reported
Address1:	619 Orchard Dr.		
Address2:	Not Reported		

City:	TROY	State:	OH
Zip:	45373	Phone:	Not Reported
Emg phone:	Not Reported		
Latitude:	40.042258		
Longitude:	-84.195669		
Accuracy:	5		
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED		
Hdatum:	NAD 27		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)		
Site id:	OHWT30000001157		

D16
SE **OH WELLS** **OHD500000607837**
1/4 - 1/2 Mile
Higher

Well log n:	844074		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	670
Orig owner:	DON	Orig own 1:	STRINGER
Drill type:	CT	Test type :	B
Well use c:	AGR	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	E		
St no:	1033		
St name:	MAIN	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03462		
Longitude:	-84.19327		
Source of :	GEOCODE	Flowing we:	N
Test rate:	15		
Draw down:	2		
S water le:	13		
S water me:	G	S water 1:	03/24/1998
Cas ht:	0		
Screen len:	0		

Total dept:	42		
Date of co:	03/24/1998	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000607837		

17
NNW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD500000284847**

Well log n:	9955020		
Well type :	W		
End user i:	2166		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	MUNICIPAL LIGHTING P
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	CBL
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	204		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1524437.28		
Horiz y:	748442.98		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.04269		
Longitude:	-84.198502		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	17		
Draw down:	28		
S water le:	5		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	58		
Date of co:	10/19/1959	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000284847		

F18
ESE **FED USGS** **USGS2317350**
1/4 - 1/2 Mile
Lower

Agency cd:	USGS	Site no:	400208084112900
Site name:	MI-44		
Latitude:	400208	EDR Site id:	USGS2317350
Longitude:	0841129	Dec lat:	40.0356097
Dec lon:	-84.1913318	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	TROY	Map scale:	24000
Altitude:	820.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.0		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	19730101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	OUTWASH		
Well depth:	105	Hole depth:	132
Source of depth data:	Not Reported		
Project number:	443900300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	1974-08-08
Water quality data end date:	2000-08-16	Water quality data count:	91
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

19
WNW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD500000279137**

Well log n:	52200		
Well type :	W		
End user i:	1955		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	DEWAYS FOOD MARKET
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	55		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	28		
St dir cod:	Not Reported		
St no:	0		
St name:	55/SR 70	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1523040.9		
Horiz y:	747469.29		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.039945		
Longitude:	-84.203423		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	30		
Draw down:	0		
S water le:	14		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	49		
Date of co:	05/13/1953	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279137		

F20
ESE **OH WELLS** **OHPW50000002091**
1/4 - 1/2 Mile
Lower

Objectid:	3873		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15628		
Well name:	TROY, CITY OF WELL 0E04		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.035278		
Longitude:	-84.191111		
Accuracy:	500		
Ll colmeth:	INTERPOLATION - MAP		
Hdatum:	NAD 27		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (OTHER)		
Site id:	OHPW50000002091		

F21
ESE **OH WELLS** **OHD500000287619**
1/4 - 1/2 Mile
Lower

Well log n:	754252		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	SCL
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.035081		
Longitude:	-84.19078		
Source of :	Not Reported	Flowing we:	N
Test rate:	1200		
Draw down:	11.6		
S water le:	14.8		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	106		
Date of co:	01/08/1993	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	WELL #18 NEAR GOLF COURSE		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287619		

F22
ESE **OH WELLS** **OHPW50000002090**
1/4 - 1/2 Mile
Lower

Objectid:	3876		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15631		
Well name:	TROY, CITY OF WELL 0E17		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.035236		
Longitude:	-84.190617		

Accuracy:	5
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED
Hdatum:	WGS 84
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)
Site id:	OHPW50000002090

23
SE **OH WELLS** **OHD500000651832**
1/4 - 1/2 Mile
Higher

Well log n:	950608		
Well type :	W		
End user i:	1361		
Cnty code:	109	Twp code:	670
Orig owner:	DOUGLAS	Orig own 1:	SCHWARTZ
Drill type:	R	Test type :	A
Well use c:	AGR	Aquifer ty:	SHA
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	W		
St no:	1195		
St name:	MAIN	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03366		
Longitude:	-84.19222		
Source of :	GEOCODE	Flowing we:	Not Reported
Test rate:	45		
Draw down:	12		
S water le:	30		
S water me:	T	S water 1:	03/18/2003
Cas ht:	1		
Screen len:	3		
Total dept:	68		
Date of co:	03/18/2003	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	.02		
Screened i:	47		
Screened 1:	50		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000651832		

F24
ESE **OH WELLS** **OHD500000287622**
1/4 - 1/2 Mile
Lower

Well log n:	762994		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	STO
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.034937		
Longitude:	-84.190664		
Source of :	Not Reported	Flowing we:	N
Test rate:	1020		
Draw down:	13.1		
S water le:	10.8		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		

Total dept:	122		
Date of co:	01/19/1994	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287622		

G25
SSW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD500000608932**

Well log n:	904858		
Well type :	W		
End user i:	1413		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	IVEX CORP
Drill type:	A	Test type :	P
Well use c:	M	Aquifer ty:	SLT
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	MW47
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	S		
St no:	421		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.03257		
Longitude:	-84.20096		
Source of :	GEOCODE	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	10/22/1999
Cas ht:	2		
Screen len:	0		
Total dept:	36		
Date of co:	10/22/1999	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000608932		

G26
SSW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD500000609459**

Well log n:	904859		
Well type :	W		
End user i:	1413		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	IVEX CORP
Drill type:	A	Test type :	P
Well use c:	D	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	SP1
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	S		
St no:	421		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		

Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03257		
Longitude:	-84.20096		
Source of :	GEOCODE	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	10/19/1999
Cas ht:	0		
Screen len:	0		
Total dept:	40		
Date of co:	10/19/1999	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000609459		

G27
SSW **OH WELLS** **OHD500000609460**
1/4 - 1/2 Mile
Higher

Well log n:	904857		
Well type :	W		
End user i:	1413		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	IVEX CORP
Drill type:	A	Test type :	P
Well use c:	M	Aquifer ty:	GCL
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	MW13A
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	S		
St no:	421		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03257		
Longitude:	-84.20096		
Source of :	GEOCODE	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	10/19/1999
Cas ht:	3		
Screen len:	0		
Total dept:	16		
Date of co:	10/19/1999	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000609460		

28
WNW
1/4 - 1/2 Mile
Higher

OH WELLS **OHD500000279120**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	182339		
Well type :	W		
End user i:	1264		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	STEILS DEPT. STORE
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	29		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	21		
St dir cod:	Not Reported		
St no:	0		
St name:	70	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1522675.32		
Horiz y:	747629.31		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.040365		
Longitude:	-84.20474		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	24		
Draw down:	2		
S water le:	8		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	56		
Date of co:	08/02/1957	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279120		

H29
SE
1/4 - 1/2 Mile
Lower

OH WELLS **OHD500000287623**

Well log n:	762993		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	GSC
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.034146		
Longitude:	-84.190188		
Source of :	Not Reported	Flowing we:	N
Test rate:	1200		
Draw down:	5.5		
S water le:	11.9		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	118		
Date of co:	01/19/1994	Located in:	Not Reported
Assoc rpt :	Y		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287623		

H30
SE
1/4 - 1/2 Mile
Lower

OH WELLS **OHPW50000002087**

Objectid:	3874		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15629		
Well name:	TROY, CITY OF WELL 0E13		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.034186		
Longitude:	-84.189867		
Accuracy:	5		
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED		
Hdatum:	WGS 84		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)		
Site id:	OHPW50000002087		

31
South
1/2 - 1 Mile
Higher

OH WELLS **OHD500000278821**

Well log n:	9955002		
Well type :	W		
End user i:	2530		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	GUM PRODUCTS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	422		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	28		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1524395.62		
Horiz y:	744120.58		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.030824		
Longitude:	-84.198361		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	305		
Draw down:	5		
S water le:	10		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	55		
Date of co:	Not Reported	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000278821		

32
ENE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000814407**

Well log n:	93615		
Well type :	W		
End user i:	1071		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	TROY BAPTIST TEMPLE
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	205		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1527088.5		
Horiz y:	748117.29		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.041932		
Longitude:	-84.189013		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	8		
Draw down:	6		
S water le:	22		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	49		
Date of co:	10/14/1959	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000814407		

I33
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000287248**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	788744		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	GSC
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	STAUNTON	St type co:	RD
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.043505		
Longitude:	-84.203916		
Source of :	Not Reported	Flowing we:	N
Test rate:	1200		
Draw down:	22.9		
S water le:	9.9		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	83		
Date of co:	04/03/1995	Located in:	Not Reported
Assoc rpt :	Y		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287248		

34
North
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281336**

Well log n:	71971		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	2665
Orig owner:	LEONARD	Orig own 1:	OAKS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	632		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	OLD TROY	St type co:	PI
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1524908.37		
Horiz y:	749545.44		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.04574		
Longitude:	-84.196894		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	21		
S water le:	31		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	45		
Date of co:	04/24/1951	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281336		

35
SE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280008**

Well log n:	207681		
Well type :	W		
End user i:	1264		
Cnty code:	109	Twp code:	670
Orig owner:	W	Orig own 1:	HAINES
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	19		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	E		
St no:	1331		
St name:	MAIN	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1526686.34		
Horiz y:	744578.5		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.032199		
Longitude:	-84.190213		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	5		
S water le:	12		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		

Total dept:	40		
Date of co:	12/04/1958	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280008		

I36
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000287249**

Well log n:	788745		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	CT	Test type :	Not Reported
Well use c:	PWS	Aquifer ty:	CBL
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	STAUNTON	St type co:	RD
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.044195		
Longitude:	-84.204722		
Source of :	Not Reported	Flowing we:	N
Test rate:	700		
Draw down:	27.4		
S water le:	8.1		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	68		
Date of co:	05/11/1995	Located in:	Not Reported
Assoc rpt :	Y		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287249		

J37
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2317358**

Agency cd:	USGS	Site no:	400239084122000
Site name:	MI-1020		
Latitude:	400239	EDR Site id:	USGS2317358
Longitude:	0841220	Dec lat:	40.04422034
Dec lon:	-84.20549902	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	TROY	Map scale:	24000
Altitude:	825.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19500101
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	OUTWASH		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	443900300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	1976-03-04
Water quality data end date:	1976-03-04	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

38
North
1/2 - 1 Mile
Higher

OH WELLS **OHD500000812805**

Well log n:	9955074		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	WILLIAM	Orig own 1:	ASHMORE
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	18		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1524761.68		
Horiz y:	750028.91		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.047059		
Longitude:	-84.197451		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	96		
Date of co:	03/01/1946	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000812805		

K39
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000720963**

Well log n:	2002209		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		
Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	15		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		

Total dept:	22		
Date of co:	05/04/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40 PREPACK #5 SAND WELL SCREEN USED.		
Well seal :	0		
Screen slo:	.01		
Screened i:	12		
Screened 1:	22		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	2.5		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000720963		

K40
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000715434**

Well log n:	2002280		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		
Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		
Total dept:	20.5		
Date of co:	05/03/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40 PREPACK #5 SAND WELL SCREEEN USED.		
Well seal :	0		
Screen slo:	.01		
Screened i:	10.5		
Screened 1:	20.5		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	3		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000715434		

K41
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000715433**

Well log n:	2002279		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		

Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		
Total dept:	21.5		
Date of co:	05/03/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40 PREPACK #5 SAND WELL SCREEN USED.		
Well seal :	0		
Screen slo:	.01		
Screened i:	11.5		
Screened 1:	21.5		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	2.5		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000715433		

K42
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000773271**

Well log n:	2002208		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		
Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	14		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		
Total dept:	20		
Date of co:	05/04/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40, #5 SAND PREPACK WELL SCREEN.		
Well seal :	0		
Screen slo:	.01		
Screened i:	10		
Screened 1:	20		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	2.5		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000773271		

K43
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000720970**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	2002212		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		
Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	13		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		
Total dept:	20		
Date of co:	05/06/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40 PREPACK #5 SAND WELL SCREEN USED		
Well seal :	0		
Screen slo:	.01		
Screened i:	10		
Screened 1:	20		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	2.5		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000720970		

K44
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000720965**

Well log n:	2002211		
Well type :	W		
End user i:	4166		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	KIMBERLY CLARK
Drill type:	GE	Test type :	Not Reported
Well use c:	M	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	518		
St name:	WATER	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	Not Reported		
Zone code:	S		
Horiz x:	1521917.24		
Horiz y:	748421.49		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.0425		
Longitude:	-84.2075		
Source of :	GPS	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	13		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	10		
Total dept:	21		
Date of co:	05/06/2005	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	SCHEDULE 40, #5 SAND PREPACK WELL SCREEN USED.		
Well seal :	0		
Screen slo:	.01		
Screened i:	11		
Screened 1:	21		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	2.5		
Screen typ:	MACHINE SLOTTED	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000720965		

J45
NW
1/2 - 1 Mile
Higher

OH WELLS **OHPW50000002110**

Objectid:	3878		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15633		
Well name:	TROY, CITY OF WELL 0W03		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.044539		
Longitude:	-84.205578		
Accuracy:	5		
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED		
Hdatum:	WGS 84		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)		
Site id:	OHPW50000002110		

K46
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000812812**

Well log n:	179381		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	HOBART BROS. CO.
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	MSH
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	421		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	21		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1521833.51		
Horiz y:	748353.46		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.042309		
Longitude:	-84.207794		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	200		
Draw down:	5		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	80		
Date of co:	02/20/1957	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000812812		

47
South
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280007**

Well log n:	508277		
Well type :	W		
End user i:	2382		
Cnty code:	109	Twp code:	670
Orig owner:	LESTER	Orig own 1:	ROBBINS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	18		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	Not Reported		
St no:	0		
St name:	JEEP	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1525175.58		
Horiz y:	743307.02		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.028632		
Longitude:	-84.195522		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	20		
Draw down:	4		
S water le:	19		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	42		
Date of co:	11/07/1977	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280007		

48
NNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000284848**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	197403		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	2665
Orig owner:	W	Orig own 1:	FRY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	206		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	467		
St name:	STAUNTON	St type co:	RD
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1523273.81		
Horiz y:	749947.72		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.046759		
Longitude:	-84.202759		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	0		
S water le:	22		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	66		
Date of co:	06/28/1956	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000284848		

49
East
1/2 - 1 Mile
Lower

OH WELLS **OHD500000280232**

Well log n:	36915		
Well type :	W		
End user i:	2530		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	BOARD OF PARK COMMIS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	124		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1528482.64		
Horiz y:	746665.45		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.038019		
Longitude:	-84.183938		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	200		
Draw down:	5		
S water le:	8		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	47		
Date of co:	02/27/1948	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280232		

50
SSW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000623779**

Well log n:	893845		
Well type :	W		
End user i:	540		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	BARRETT PAVING
Drill type:	CT	Test type :	B
Well use c:	AGR	Aquifer ty:	GRA
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	S		
St no:	803		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.02806		
Longitude:	-84.20094		
Source of :	GEOCODE	Flowing we:	Not Reported
Test rate:	2		
Draw down:	210		
S water le:	18		
S water me:	G	S water 1:	11/30/2000
Cas ht:	2		
Screen len:	0		

Total dept:	215		
Date of co:	11/30/2000	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	2		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000623779		

51
North
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281334**

Well log n:	71986		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	2665
Orig owner:	LEONARD	Orig own 1:	OAKS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	628		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	17		
St dir cod:	Not Reported		
St no:	0		
St name:	OLD TROY	St type co:	PI
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1525138.89		
Horiz y:	750533.39		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.048463		
Longitude:	-84.196137		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	2		
S water le:	10		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	34		
Date of co:	11/28/1951	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281334		

52
West
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280001**

Well log n:	263874		
Well type :	W		
End user i:	1263		
Cnty code:	109	Twp code:	670
Orig owner:	DAVID	Orig own 1:	SPENCER
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	11		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	DRURY	St type co:	LN
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1521039.24		
Horiz y:	746242.93		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.036475		
Longitude:	-84.210488		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	5		
S water le:	15		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	35		
Date of co:	08/15/1961	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280001		

53
SW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280003**

Well log n:	237462		
Well type :	W		
End user i:	1264		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	BAKERS SUPPLY CO.
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	13		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	33		
St dir cod:	S		
St no:	1350		
St name:	MARKET	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1521630.99		
Horiz y:	744624.32		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.032064		
Longitude:	-84.208266		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	125		
Draw down:	14		
S water le:	6		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	37		
Date of co:	04/07/1960	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280003		

L54
ENE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281194**

Well log n:	73711		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	ED	Orig own 1:	SWITZER
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	263		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	11		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1528746.53		
Horiz y:	747930.98		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.041506		
Longitude:	-84.18308		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	6		
Draw down:	0		
S water le:	18		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	38		
Date of co:	12/03/1948	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281194		

L55
ENE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281195**

Well log n:	73716		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	DONALD	Orig own 1:	STEVENS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	271		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	11		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1528753.67		
Horiz y:	747916.68		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.041467		
Longitude:	-84.183054		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	7		
Draw down:	2		
S water le:	32		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	54		
Date of co:	12/14/1948	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281195		

M56
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000279106**

Well log n:	9990798		
Well type :	W		
End user i:	2541		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	14		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.04617		
Longitude:	-84.207358		
Source of :	Not Reported	Flowing we:	N
Test rate:	17		
Draw down:	0		
S water le:	14		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		

Total dept:	177		
Date of co:	10/06/1962	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279106		

57
SE
1/2 - 1 Mile
Lower

OH WELLS **OHD500000280217**

Well log n:	9955038		
Well type :	W		
End user i:	1532		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	BROWN BROS PACKING C
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	9		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1527482.53		
Horiz y:	743438.38		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.029111		
Longitude:	-84.187294		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	125		
Draw down:	0		
S water le:	14.8		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	45		
Date of co:	03/21/1937	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280217		

M58
NW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000287451**

Well log n:	622317		
Well type :	W		
End user i:	1289		
Cnty code:	109	Twp code:	2665
Orig owner:	Not Reported	Orig own 1:	CITY OF TROY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GSC
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	23		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	Not Reported		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.046837		
Longitude:	-84.207563		
Source of :	Not Reported	Flowing we:	N
Test rate:	1390		
Draw down:	2.8		
S water le:	10.9		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	87		
Date of co:	05/24/1981	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000287451		

M59
NW
1/2 - 1 Mile
Higher

OH WELLS **OHPW50000002113**

Objectid:	3880		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15635		
Well name:	TROY, CITY OF WELL 0W12		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.046789		
Longitude:	-84.2079		

Accuracy:	5
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED
Hdatum:	WGS 84
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)
Site id:	OHPW50000002113

M60
NW
1/2 - 1 Mile
Higher

FED USGS **USGS2317360**

Agency cd:	USGS	Site no:	400249084122800
Site name:	MI-15		
Latitude:	400249	EDR Site id:	USGS2317360
Longitude:	0841228	Dec lat:	40.04699801
Dec lon:	-84.20772133	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	SENENES23T1R10
Location map:	TROY	Map scale:	24000
Altitude:	827.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5.		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19621006
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	177	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	443900200		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1962-10-06	Ground water data end date:	1962-10-06
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1962-10-06	14.00	

61
NW
1/2 - 1 Mile
Lower

OH WELLS **OHD500000278820**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	9955001		
Well type :	W		
End user i:	1955		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	HOBART BROS. CO.
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1959	Loc area:	Not Reported
Loc no:	420		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	21		
St dir cod:	Not Reported		
St no:	0		
St name:	25A	St type co:	USRT
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1521528.83		
Horiz y:	749725.39		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.046058		
Longitude:	-84.208975		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	6		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	72		
Date of co:	10/09/1951	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000278820		

N62
South
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280006**

Well log n:	395585		
Well type :	W		
End user i:	2562		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	TROY GRAVEL CO.
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SHA
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	17		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	27		
St dir cod:	Not Reported		
St no:	0		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1523954.35		
Horiz y:	742379.19		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.026022		
Longitude:	-84.199819		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	0		
Draw down:	0		
S water le:	0		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	68		
Date of co:	07/25/1969	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280006		

N63
South
1/2 - 1 Mile
Higher

OH WELLS **OHD500000279116**

Well log n:	374188		
Well type :	W		
End user i:	1076		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	TROY GRAVEL CO.
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	Not Reported
Loc map ye:	1981	Loc area:	Not Reported
Loc no:	25		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	UNION	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1524129.62		
Horiz y:	742299.72		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.025813		
Longitude:	-84.199188		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	250		
Draw down:	0		
S water le:	19		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		

Total dept:	999		
Date of co:	04/17/1969	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000279116		

64
WNW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000717106**

Well log n:	294852		
Well type :	W		
End user i:	1237		
Cnty code:	109	Twp code:	670
Orig owner:	MAXWELL	Orig own 1:	MAY
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	7		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	21		
St dir cod:	Not Reported		
St no:	124		
St name:	ASH	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1520444.09		
Horiz y:	748052.79		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.041411		
Longitude:	-84.212736		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	16		
Draw down:	3		
S water le:	16		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	42		
Date of co:	07/12/1963	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000717106		

O65
SSW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280221**

Well log n:	9955042		
Well type :	W		
End user i:	2530		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	TROY ICE & COAL CO
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SHA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	52		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1523390.66		
Horiz y:	742409.04		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.026075		
Longitude:	-84.201834		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	200		
Draw down:	6		
S water le:	18		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	76		
Date of co:	07/26/1929	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280221		

66
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS2317347**

Agency cd:	USGS	Site no:	400136084112300
Site name:	MI-1007		
Latitude:	400136	EDR Site id:	USGS2317347
Longitude:	0841123	Dec lat:	40.02672103
Dec lon:	-84.18966505	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	TROY	Map scale:	24000

Altitude:	824.00		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	2.5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	Not Reported
Date inventoried:	Not Reported	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	OUTWASH		
Well depth:	Not Reported	Hole depth:	Not Reported
Source of depth data:	Not Reported		
Project number:	443900300		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1976-03-04
Water quality data end date:	1976-03-04	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

P67
East
1/2 - 1 Mile
Higher

OH WELLS **OHD500000718219**

Well log n:	999827		
Well type :	W		
End user i:	847		
Cnty code:	109	Twp code:	2665
Orig owner:	EVELYN	Orig own 1:	ALEXANDER
Drill type:	CT	Test type :	P
Well use c:	D	Aquifer ty:	SGR
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	365724
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	16		
St name:	202	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Zone code:	S		
Horiz x:	1529418.81		
Horiz y:	747187.47		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.0395		
Longitude:	-84.18063		
Source of :	GPS	Flowing we:	Not Reported
Test rate:	30		
Draw down:	0		
S water le:	23		
S water me:	T	S water 1:	01/16/2006
Cas ht:	1.6		
Screen len:	3		
Total dept:	60		
Date of co:	01/16/2006	Located in:	Not Reported
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	.035		
Screened i:	57		
Screened 1:	60		
Sustained :	30		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000718219		

P68
East
1/2 - 1 Mile
Higher

OH WELLS **OHD500000286331**

Well log n:	601865		
Well type :	W		
End user i:	1263		
Cnty code:	109	Twp code:	2665
Orig owner:	CARBS	Orig own 1:	KIDDER
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1982	Loc area:	Not Reported
Loc no:	105		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	11		
St dir cod:	Not Reported		
St no:	36		
St name:	504	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1529445.94		
Horiz y:	746953.87		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.03886		
Longitude:	-84.180518		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	7		
Draw down:	2		
S water le:	26		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	48		
Date of co:	10/03/1981	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000286331		

O69
SSW
1/2 - 1 Mile
Higher

OH WELLS **OHD500000280005**

Well log n:	182318		
Well type :	W		
End user i:	1263		
Cnty code:	109	Twp code:	670
Orig owner:	W	Orig own 1:	MCGEE
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	16		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	28		
St dir cod:	S		
St no:	1313		
St name:	CRAWFORD	St type co:	ST
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1523187.53		
Horiz y:	742379.19		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.025982		
Longitude:	-84.202557		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	6		
Draw down:	1		
S water le:	12		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	33		
Date of co:	01/30/1957	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000280005		

70
NE
1/2 - 1 Mile
Higher

FED USGS **USGS2317359**

Agency cd:	USGS	Site no:	400246084110301
Site name:	MI-206 MIAM NAWQA LUS WELL BVAS URB-28 AT TROY, OH		
Latitude:	400246.86	EDR Site id:	USGS2317359
Longitude:	0841103.13	Dec lat:	40.04635
Dec lon:	-84.18420278	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	TROY	Map scale:	24000
Altitude:	835		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	3		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	20010908
Date inventoried:	20010908	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	OUTWASH		
Well depth:	43.5	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	443912900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	2001-09-08
Water quality data end date:	2001-09-08	Water quality data count:	2
Ground water data begin date:	2001-11-19	Ground water data end date:	2001-11-19
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2001-11-19	21.02	

71
NE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000759911**

Well log n:	2010438		
Well type :	W		
End user i:	1361		
Cnty code:	109	Twp code:	2665
Orig owner:	HARRY	Orig own 1:	HONEYCUTT
Drill type:	AR	Test type :	A
Well use c:	AGR	Aquifer ty:	GRA
Loc map ye:	Not Reported	Loc area:	Not Reported
Loc no:	0		
Sub name:	Not Reported	Sub map ye:	Not Reported

Sub no:	Not Reported	Permit no:	NA
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	801		
St name:	MAPLECREST	St type co:	DR
Sec add:	Not Reported		
Sec add no:	0		
City:	TROY	State code:	OH
Zip:	45373		
Well Loc Desc:	NORTH OFF OF STAUNTON ROAD, 2ND PLACE PASSED THE SCHOOL		
Zone code:	Not Reported		
Horiz x:	0		
Horiz y:	0		
Horiz datu:	NAD83		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	828		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.04792		
Longitude:	-84.18594		
Source of :	GLOBAL POSITION SYSTEM	Flowing we:	N
Test rate:	60		
Draw down:	10		
S water le:	18		
S water me:	T	S water 1:	06/20/2007
Cas ht:	1.6		
Screen len:	3		
Total dept:	61		
Date of co:	06/20/2007	Located in:	Not Reported
Assoc rpt :	N		
Depth to b:	0		
Drill year:	Not Reported		
Comments:	CLEAR		
Well seal :	0		
Screen slo:	.02		
Screened i:	58		
Screened 1:	61		
Sustained :	60		
Attatch st:	Not Reported		
Screen dia:	5		
Screen typ:	CONTINOUS WIRE WOUND	Screen mat:	PVC
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	GLOBAL POSITION SYSTEM		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000759911		

Q72
ENE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281191**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well log n:	73847		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	WILLIAM	Orig own 1:	GAIER
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	222		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	11		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1529532.72		
Horiz y:	747699.89		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.040912		
Longitude:	-84.180257		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	7		
Draw down:	1		
S water le:	20		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	45		
Date of co:	11/02/1948	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		

Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281191		

Q73
ENE
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281190**

Well log n:	73824		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	TOM	Orig own 1:	DOWNING
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	GRA
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	192		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	11		
St dir cod:	Not Reported		
St no:	0		
St name:	55	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1529553.67		
Horiz y:	747699.89		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.040913		
Longitude:	-84.180183		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	8		
Draw down:	1		
S water le:	18		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	44		
Date of co:	07/12/1948	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		

Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281190		

74
SW
1/2 - 1 Mile
Lower

OH WELLS **OHD500000714256**

Well log n:	102523		
Well type :	W		
End user i:	0		
Cnty code:	109	Twp code:	670
Orig owner:	HAROLD	Orig own 1:	WINEMILLER
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SND
Loc map ye:	1977	Loc area:	Not Reported
Loc no:	14		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	28		
St dir cod:	Not Reported		
St no:	17		
St name:	ELMWOOD	St type co:	AVE
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1521837		
Horiz y:	742825.92		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.027138		
Longitude:	-84.207409		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	10		
Draw down:	4		
S water le:	10		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		

Total dept:	32		
Date of co:	12/16/1953	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000714256		

75
SSE **OH WELLS** **OHD500000281288**
1/2 - 1 Mile
Lower

Well log n:	407950		
Well type :	W		
End user i:	1076		
Cnty code:	109	Twp code:	670
Orig owner:	Not Reported	Orig own 1:	TROY, OHIO SEWAGE PL
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	BLD
Loc map ye:	1982	Loc area:	Not Reported
Loc no:	176		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	34		
St dir cod:	Not Reported		
St no:	0		
St name:	Not Reported	St type co:	Not Reported
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		
Zone code:	Not Reported		
Horiz x:	1526206.03		
Horiz y:	741999.14		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		

Vert acc u:	Not Reported		
Latitude:	40.025095		
Longitude:	-84.191755		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	62		
Draw down:	5.2		
S water le:	9.3		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	16		
Date of co:	08/25/1971	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	Not Reported		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281288		

76
SE
1/2 - 1 Mile
Lower

FED USGS **USGS2317349**

Agency cd:	USGS	Site no:	400145084106000
Site name:	MI-205 MIAM NAWQA LUS WELL BVAS AG-27		
Latitude:	400145.0	EDR Site id:	USGS2317349
Longitude:	0841059.6	Dec lat:	40.02916667
Dec lon:	-84.18322222	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	39
State:	39	County:	109
Country:	US	Land net:	Not Reported
Location map:	TROY	Map scale:	24000
Altitude:	820		
Altitude method:	Interpolated from topographic map		
Altitude accuracy:	5		
Altitude datum:	National Geodetic Vertical Datum of 1929		
Hydrologic:	Upper Great Miami. Indiana, Ohio. Area = 2480 sq.mi.		
Topographic:	Not Reported		
Site type:	Ground-water other than Spring	Date construction:	20000522
Date inventoried:	20000912	Mean greenwich time offset:	EST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	OUTWASH		
Well depth:	24	Hole depth:	Not Reported
Source of depth data:	reporting agency (generally USGS)		
Project number:	443912900		
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

Peak flow data count:	0	Water quality data begin date:	2000-08-01
Water quality data end date:	2000-08-01	Water quality data count:	1
Ground water data begin date:	2000-08-01	Ground water data end date:	2000-08-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
2000-08-01	6.51	

77
NW
1/2 - 1 Mile
Higher

OH WELLS **OHPW50000002115**

Objectid:	3879		
County:	MIAMI	Pwsid:	OH5501612
Well num:	15634		
Well name:	TROY, CITY OF WELL 0W04		
Dnr wl log:	Not Reported		
Wl avail:	PERMANENT	Act date:	10/15/1999
Wl status:	Active	Sys status:	Active
Sys name:	TROY CITY PWS	Sys type:	Community
Src type:	ground water		
Latitude:	40.049514		
Longitude:	-84.207508		
Accuracy:	5		
Ll colmeth:	GPS CODE MEASUREMENTS (PSEUDO RANGE) DIFFERENTIALLY CORRECTED		
Hdatum:	WGS 84		
Verify met:	VERIFIED RELATIVE TO MAP FEATURES (1:24,000)		
Site id:	OHPW50000002115		

78
East
1/2 - 1 Mile
Higher

OH WELLS **OHD500000281202**

Well log n:	66255		
Well type :	W		
End user i:	2557		
Cnty code:	109	Twp code:	2665
Orig owner:	WILFRED	Orig own 1:	MILLS
Drill type:	Not Reported	Test type :	Not Reported
Well use c:	Not Reported	Aquifer ty:	SGR
Loc map ye:	1945	Loc area:	Not Reported
Loc no:	560		
Sub name:	Not Reported	Sub map ye:	Not Reported
Sub no:	Not Reported	Permit no:	Not Reported
Sec owner :	Not Reported	Lot no:	Not Reported
Sect no:	0		
St dir cod:	Not Reported		
St no:	0		
St name:	202	St type co:	SR
Sec add:	Not Reported		
Sec add no:	0		
City:	Not Reported	State code:	OH
Zip:	Not Reported		

Zone code:	Not Reported		
Horiz x:	1530035.68		
Horiz y:	746964.18		
Horiz datu:	NAD27		
Horiz acc :	0		
Horiz acc1:	0		
Horiz ac 1:	Not Reported		
Vert loc:	0		
Vert acc:	0		
Vert acc u:	Not Reported		
Latitude:	40.038919		
Longitude:	-84.178412		
Source of :	DIGITIZED	Flowing we:	N
Test rate:	5		
Draw down:	1		
S water le:	46		
S water me:	Not Reported	S water 1:	Not Reported
Cas ht:	0		
Screen len:	0		
Total dept:	68		
Date of co:	03/27/1951	Located in:	Y
Assoc rpt :	Not Reported		
Depth to b:	0		
Drill year:	Not Reported		
Well seal :	0		
Screen slo:	0		
Screened i:	0		
Screened 1:	0		
Sustained :	0		
Attatch st:	\\NRAS1\		
Screen dia:	0		
Screen typ:	Not Reported	Screen mat:	Not Reported
Pump type:	Not Reported		
Pump capac:	0		
Pump set a:	0		
Pitless ty:	Not Reported	Pump inst :	Not Reported
Elev sourc:	Not Reported		
Water leve:	0		
Well drill:	Not Reported	Subcon odh:	Not Reported
Site id:	OHD500000281202		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: OH Radon

Radon Test Results

Zipcode	Num Tests	Maximum	Minimum	Arith Mean	Geo Mean
45373	1088	223	0.1	8.79	5.19

Federal EPA Radon Zone for MIAMI County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 45373

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	8.280 pCi/L	20%	80%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 614-265-1044

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Public Water System Data
Source: Ohio Environmental Protection Agency
Telephone: 614-644-2752
The database includes community, transient noncommunity and nontransient noncommunity water wells; and source treatment unit locations.

Water Well Database
Source: Department of Natural Resources
Telephone: 614-265-6740

OTHER STATE DATABASE INFORMATION

RADON

State Database: OH Radon
Source: Department of Health
Telephone: 614-644-2727
Radon Statistics for Zip Code Areas

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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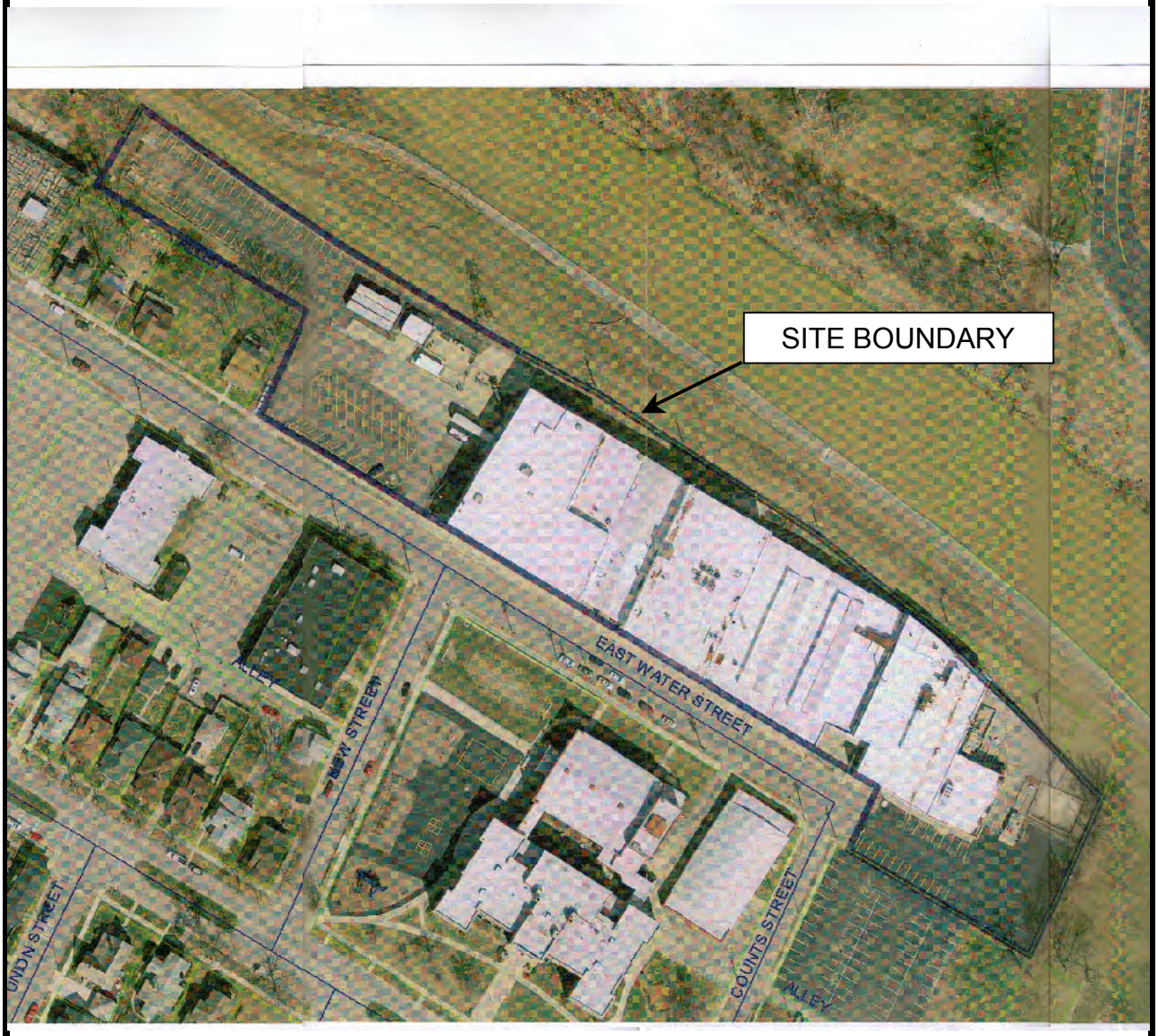


SOURCE:	PROJECT:	DATE:	REVISI
Miami County Auditor's Office	048-11	01/04/2012	A

SPINNAKER COATING, LLC	***Tax Map***
MAKSolve, L.L.C. Environmental engineering, sciences & compliance	Tax Map 518 East Water Street Troy, Ohio 45373

Miami County, Ohio - Property Record Card
Parcel: D08-101816
Card: 1

A sketch is unavailable for this parcel.

GENERAL PARCEL INFORMATION

Owner	SPINNAKER COATING LLC
Property Address	518 E WATER ST
Mailing Address	518 E WATER ST TROY OH 45373
Land Use	399 - OTHER INDUSTRIAL STRUCTURES
Legal Acreage	4.415
Legal Description	IN LOT 7827

NOTES

| [CARD 001] | SMDA#: D08-NE006 -005-00

VALUATION

	Appraised	Assessed
Land Value	$153,900.00	$53,870.00
Improvements Value	$1,226,300.00	$429,210.00
CAUV Value	$0.00	$0.00
Taxable Value	$483,080.00	

RESIDENTIAL

LAND

Land Type	Acreage	Depth	Frontage	Depth	Value
S1 - Primary Site	4.415	0	0	100	153850

ADDITIONS

IMPROVEMENTS

Description	Year Built	Dimension	Area	Value
Industrial Report	0	0x0	0	$1,226,300.0

AGRICULTURAL

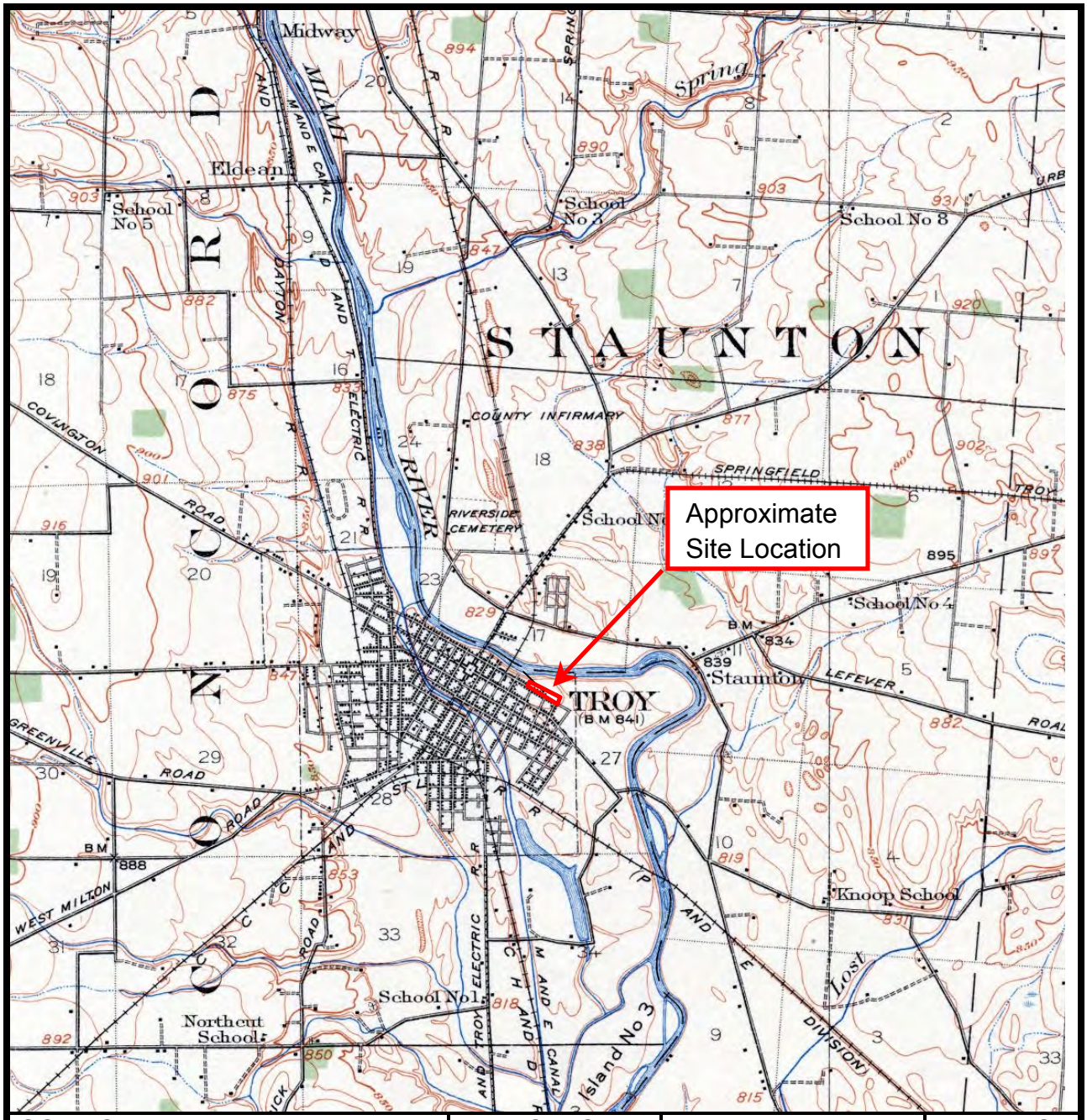
Land Type	Land Usage	Soil Type	Acres

SALES

Date	Buyer	Seller	Price
4/1/2002	SPINNAKER COATING LLC	SPINNAKER COATING INC	0
11/10/1999	SPINNAKER COATING INC	BROWN BRIDGE	0
9/19/1994	BROWN BRIDGE	Unknown	1575000

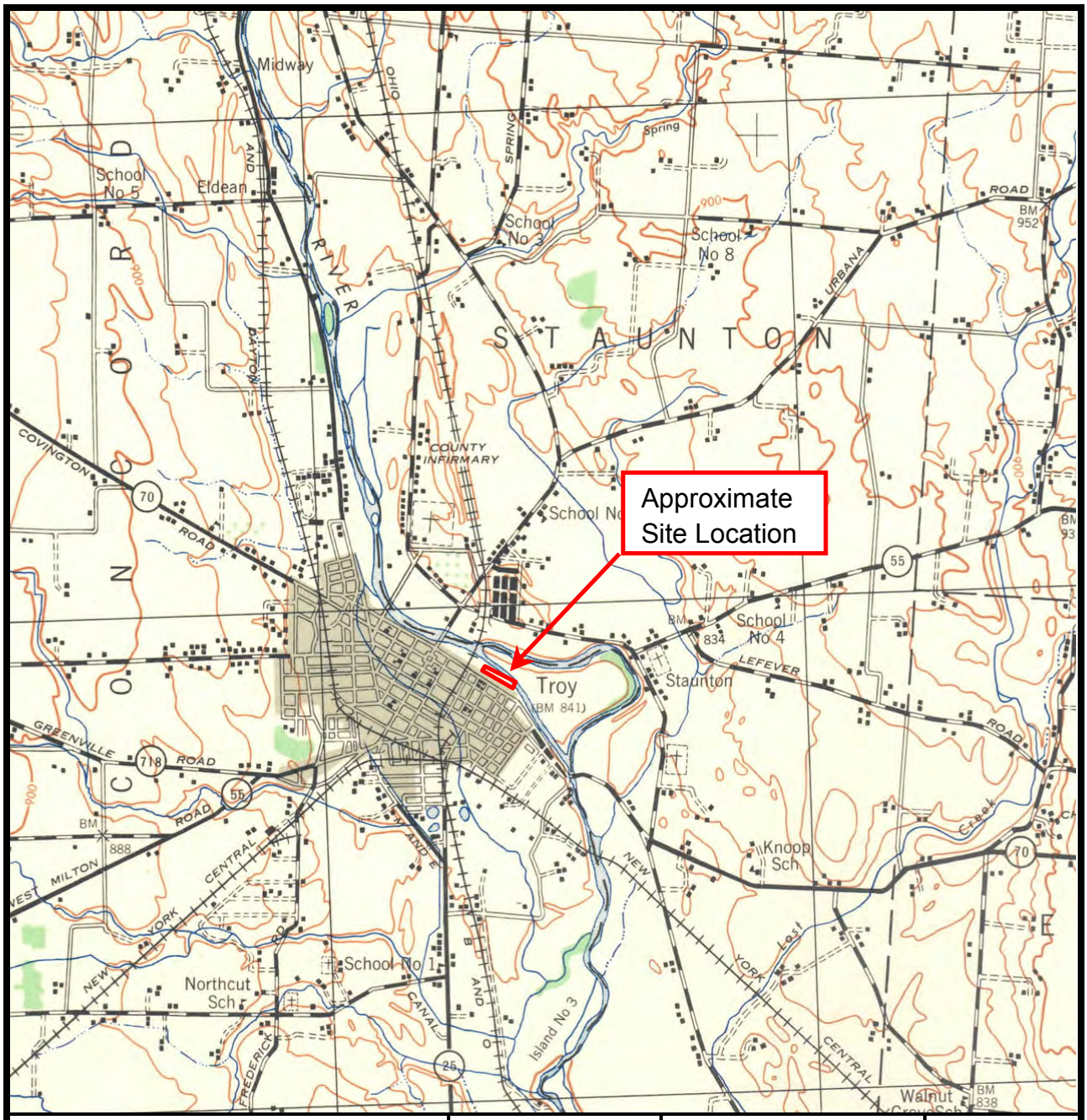
COMMERCIAL

APPENDIX C: Historical Research Documentation



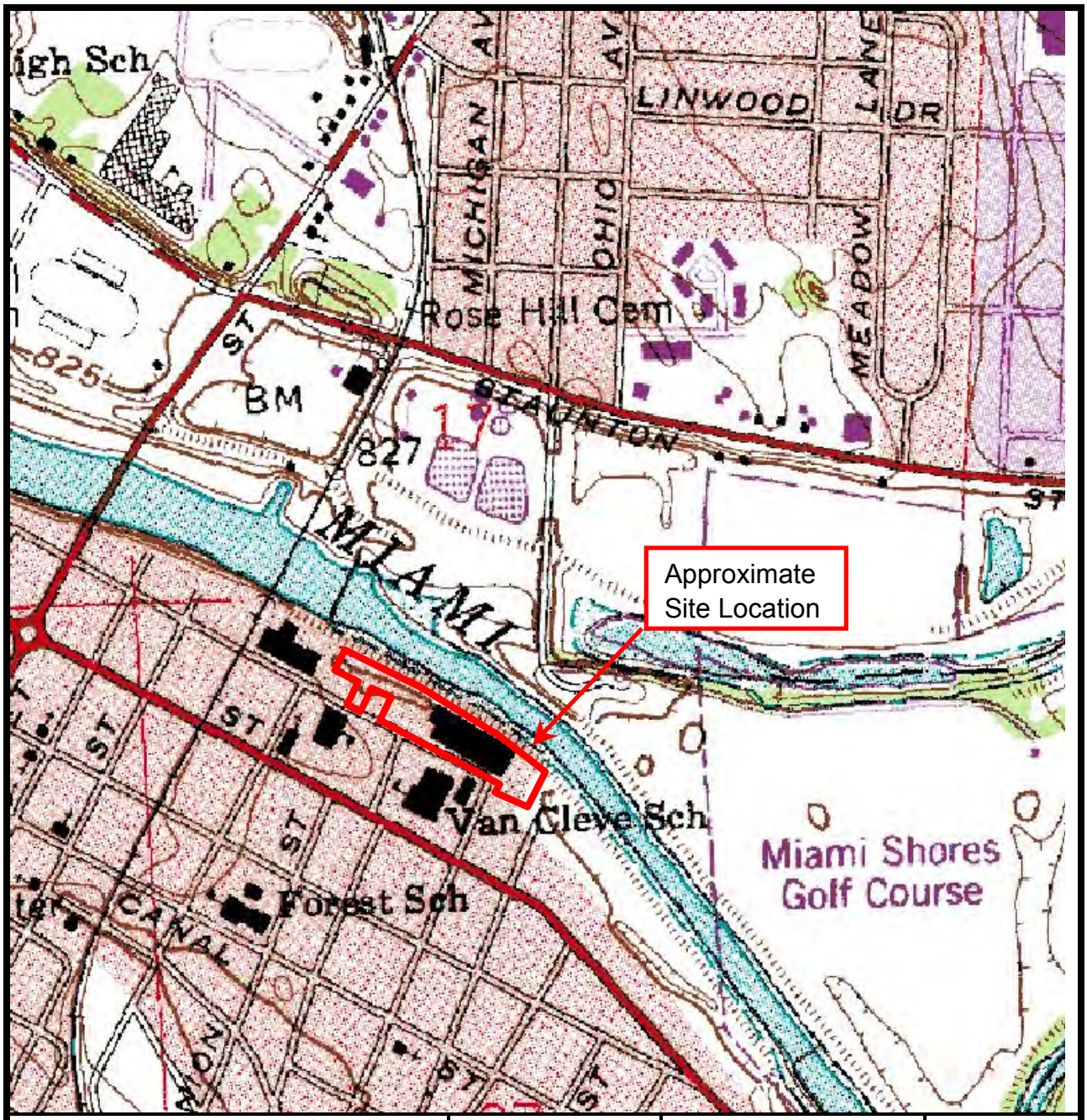
SOURCE:	PROJECT:	DATE:	REVISI
http://historical.mytopo.com/	048-11	01/04/2012	A

SPINNAKER COATING, LLC	***1914 TOPO***
MAK Solve, L.L.C. Environmental engineering, sciences & compliance	HISTORICAL TOPOGRAPHY 518 East Water Street Troy, Ohio 45373



SOURCE:	PROJECT:	DATE:	REVISI
http://historical.mytopo.com/	048-11	01/04/2012	A

SPINNAKER COATING, LLC	***1944 TOPO***
MAK Solve, L.L.C. Environmental engineering, sciences & compliance	HISTORICAL TOPOGRAPHY 518 East Water Street Troy, Ohio 45373



SOURCE:	PROJECT:	DATE:	REVISI
http://msrmaps.com/	048-11	01/04/2012	A

SPINNAKER COATING, LLC	***1982 TOPO***
MAK Solve, L.L.C. Environmental engineering, sciences & compliance	HISTORICAL TOPOGRAPHY 518 East Water Street Troy, Ohio 45373

1878-1879

Harr Daniel, clothing, south-west cor Public Square, res 308 Franklin
Harr Julius F, clerk D Harr
Harrison S T, clerk Geo Mayer, Union
Harrison Mrs, seamstress, Union
Hart Albert, carpenter, Canal east of Union
Hart John M, Franklin and Clay
Harter F L, of Ensey & Harter, Cherry and Franklin
Harter & Houser, hardware, iron, etc, 223 Market
Harter S K, of Harter & Houser, Franklin
Hartley Alonzo, tinner, 713 Water
Hartman Catharine, tailoress, 410 Water
Hartman Jacob, wheelwright, 301 Canal
Hatfield Gilbert B, tinner, boards Hatfield House
Hatfield G W, clerk Hatfield House
Hatfield H L, of Bonner & Hatfield, Mulberry bet Main and Water
Hatfield Mrs S A, proprietress Hatfield House, Mulberry and Main
Hathaway Abraham, carpenter, Water and Adams
Hathaway D C, 700 Main
Hathaway Frank, carpenter, Water and Adams
Hathaway Matilda, 700 Main
Hatzler M, laborer, Washington
Hawes Wm, cooper, 602 Canal
Hayner Clark, distillery, 309 Main
Hayner Lewis, manufacturer of and dealer in pure distilled rye and bourbon whiskies, Franklin
Hayner Wm, machinist, east Canal, res Staunton township
HAYS M W, mayor, office City Hall, res 315 Franklin
Haywood Alex, farmer, 708 Market
Heaton E A, planing mill, west end Main, res Franklin
Heaton Jos S, carpenter, 401 Canal
Heim Ada, 216 Water
Heist Henry, tailor, 319 Union
Helpman David, clerk, 602 Main
Helpman Rachel, 602 Main
Helpman Wm, clerk, east Main
Henne Chas, of C Henne & Bro, 211 Mulberry

I. S. MEEKS. P. F. EAGLE.

MEEKS & EAGLE,

Physicians & Surgeons,

OFFICE, 107 WEST MAIN STREET,

TROY, OHIO.

N. B.—Dr. I. S. Meeks gives special attention to the treatment of chronic diseases.

Climax Sleigh Runner.

THE ONLY PERFECT SLEIGH RUNNER FOR VEHICLES MANUFACTURED.

It is light, neat, strong and durable. It is made entirely of iron with steel shoes. Something new. Send for descriptive circular. Agents wanted.

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Send orders to

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TROY, OHIO.

Henne Charles & Bro, boots and shoes, Main and Walnut
Henne Jacob, brewer, 215 Race
Henne John E, of C Henne & Bro and of Henne & Kessler, Crawford
Henne Joseph, proprietor Troy brewery, 210 Water
Henne & Kessler, saloon and restaurant, Market and Public Square
Henry John, teamster, 716 Canal
Herman J W, carriage salesman, Elm
Herman Wm C, laborer, Elm
Hern Lillie, waiter Morris House
Hershey Samuel, laborer, 414 Canal
Herz Mary, laundress, Washington
Hiatt Willis, laborer, 723 Walnut
Hickerson Miss D, 617 Mulberry
Hickerson Mrs M, of Hickerson & Weiland, Mulberry
HICKERSON & WEILAND, furniture dealers, 205, 211 north Market

1898-1899 Hollis & Oakes

Sullivan, Theo. Common Pleas Judge, Court House.
Thomas & Thomas, 110 w Main.
Williams, H. H., 12 s Cherry.
Williams, E. S., 5 s Plum.

Auctioneers:
Bumbli, Hi., 109 w Water.
Luker, Caleb, res 536 s Grant.

Bakeries:
Gieblehouse, George, 13 s Market.
Stephey Bros, 419 Public Square.

Banks:
First National Bank, e Main.
Troy National Bank, 1 Market.

Barber Shops:
Bowerman, Wm., 209 Public Square.
Graef, Henry, 10 e Main.
Hammons, T. F., (col) 15 s Market.
Jones, G. H., (col) 101 Public Square.
Jones, Mrs., M. J (col) hair dresser, 101 Public Square.
Jones, Patrick, (col) s e cor Public Square.
Long, Geo. A, 305½ Public Square.
Lyons, Wm., (col) s w cor Market and Public Square.
Reichard, Geo., 121 W Main.

Bicycle Stores:
Emrick, C. E., 107 w Main.
Julian Mfg Co., J. H. Julian, Mgr., 9 n Walnut.

Blacksmith Shops:
Burnside, & Miller, s Market, near Christian Church.
Landry, John, cor Adams and Main.
Meadows, M. M. 123 s Market.
Rebholtz & Diehl, 401 e Main.
Rhynard's Shop, 796 Peters Ave.
Village blacksmith shop, Henry Wesco, Prop'r, 510 e Sherman.
Weatherhead & Burnside, n Market n of River Bridge.
Wilson, John (col) 640 w Main.
Zerkle Bros,, 113 e Main.

Book and Stationery Stores:
Bretland & Stephey, s Market.
Roney, Silas 3 w Main.

Bowling Alley:
Smith, Otto, 127 n Market.

Breweries and Distilleries:
Hayner's Distillery, C. C. Hayner, Prop'r e Water, near C. H. & D.
Troy Bottling Works, Jos. Schauer, Prop'r w Water, cor Plum.
Troy Brewery, Jacob Heune, Prop'r, w Water.
Troy Malt House, 611 w Main.

Building and Loan Associations:
Home Savings Association, Louis A. Ziegenfelder, Sec'y w Main.
People's Building & Saving Association, L. O. Shilling, Sec'y, 14 w Franklin.

Butchers and Meat Stores:
Braun, Nicholas, 104 w Main.
Greulich, Frank 106½ e Main.
Kiefer & Britts, s Monroe.
Koerner Bros, 114 s Market,
Long, M. H., 644 w Main.

Civil Engineers and Surveyors:
Dowler, J. W., County Surveyor, Court House.
Northcutt, W. H., 27 n Oxford.
Walker, H. J., s e cor Main & Cherry.

Cigar Dealers and Tobacco Merchants:
Morris, J. Wesley, Mgr Peters Tob. Warehouse, s e cor Market and Canal.
Flynn, Dan'l Cigar Dealer, cor Main and Pub Square.
Lynch, Chas. A., (col) Court House.
Rich, W. M., 115 e Main.
Yost, Clinton L., Cigar Manufacturer, s Market.

Clothiers, Tailors and Gent's Furnishers:
Barnett Bros,. s e cor Pub Square.
Freidlich, J. M., 5 w Main.
Gates, P, J. & Co., 2-4 s Market.
Geisinger, H. C., s e cor Main and Cherry.
Harr, C. J., 9 s Market.
Heist, Henry, 6 e Main.
Long, C. T., 9 s Market.
Whitmore, W. F., 9 e Main.

Collecting Agencies:
Carr, Joseph H., Agt Agency at Dayton, O., 508 s Plum.
Interstate Law & Collecting Agency, 123 Pub Square.

Contractors and Builders:
Deweese, J. H., Short.
Lind, Samuel, 501 e Franklin.
Macey, Obed, 233 s Oxford.

Coopers:
Brady, Geo., 130 n Elm.
McDonald, John, 203 s Oxford.

Dairies and Dairymen:
Dill, Geo. 101 s Elm.

Dentists:
Jones, B. W., Brown's Block, Pub Square.
Miles, C. D., Market 2nd Floor.
Whiting, W. H. s e cor Pub Square.

CHINA
SILVER
and
CUT GLASS

Rankin & Zimmerman,

414 North Main Street, Tel. Home 307 Piqua, Ohio

OFFICE SUPPLIES
STATIONERY
BOOKS and
WALL PAPER

Coal Dealers
- Fidelity Coal Co, 640 May
- Peckham Coal and Ice Co, The, Crawford and C H & D R R
- Trojan Coal Co, 305 E Main
- Troy Tile and Brick Co, The, W Main and city limits

Coffee Mill Mfg.
- Hobart Mfg Co, Penn and Simpson

Commission Merchants
- Troy Fruit Co, 112 E Main

Contractors
- Smith, M Z, suite 3 Masonic Temple bldg
- Pearson, W A, Garfield and C H & D R R

Dash Mfg.
- McKinnon Dash Co, Ridge ave and Olive

Dentists
- Eddy, Paul G, s e cor Square and Market
- Davis, A A, suite 5 Masonic Temple
- McCullough, F A, n w cor Square & Main, Brown blk
- Miles, C D, Troy National Bank bldg

Distilling Companies
- Hayner Distilling Co, Water and Clay

Drug Stores
- Fulkerson, John M, 6 W Main
- Clawson, G B, 5 E Main
- Rinehart, H M, 14 S Market
- Tobey, Chas W, 3 S Market

Dry Cleaners
- Liberty Dry Cleaning, n side Square
- Pearson's Laundry and French Dry Cleaning, 217 S Market

Dry Goods Stores
- Grunder, J M & Co, 8 S Market
- Kramer & Stetson, 18 S Market
- McClain, John, 103-105 E Main
- Steil, Fred & Son, n w cor Square & Main

Electrical Machinery
- American Fixture & Mfg Co, 113 W Water
- DeWeese Electric Co, 6 N Market

Electrical Contractors
- American Fixture & Mfg Co, 113 W Water
- DeWeese Electric Co, 6 N Market

Express Companies
- American Exp Co Agency, 127 S Market
- Wells-Fargo Exp Co, 206 S Market

Flour Mfg.
- Allen & Wheeler Co, The, office n e cor Public Square

Florist
- Thomas, L A, 714 S Grant

Funeral Directors
- Roberts, F C, w s Square
- Shilling Bros, 111 W Main
- Thomson & Son, 9 E Main

Furniture Dealers
- Roberts, F C, w side Square
- Shilling Bros, 111 W Main
- Thomson & Son, 9 E Main

Grain Buyers and Shippers
- Allen & Wheeler Co, The, office n e cor Square

Grocery Stores
- Brown, H, Canal st
- Burns, N E & Co, 16 N Market
- Cash Grocery and Fruit Co, n w cor Square and Market
- City Grocery, 13 S Market
- Cox, M Arthur, cor Olive and Garfield
- Connor, E, Market and Water
- Culbertson Heights Grocery, Culbertson Heights
- Doppler, H W, Market and Race
- Enycart Grocery, 214 S Market
- Gruver, C T, 127 Monroe
- Henne, Jos Jr, 221 E Main
- Krayer, Fred, 111 E Main
- Laufer Bros, 432 E Main
- Layman, F, S Crawford
- Long, Adam, 732 W Main
- McCullough, D M & Co, n e cor Square and Main
- Miami Cash Grocery, 14 W Franklin
- Miller, Thos A, West and Walnut
- Norris, J W & Son, 449 S Mulberry
- Pearson, F, Penna and Olive
- Quality Grocery, 12 W Main
- Smith, Otto W, s w cor Main and Elm
- Young & Johnson, 33 N Elm
- Young, D H, Garfield and May

Groceries—Wholesale
- McCullough, D M & Co, n e cor Square and Market

Hardware Stores
- Cosley, H A, Masonic Temple, W Main
- Hatfield & Scott, 7 S Market
- Schaible & Smith, 12 S Market

Harness Dealers
- Miller Bros, s e cor Main and Walnut

Harness Mfg.
- Miller Bros, s e cor Main and Walnut

Hotels
- Manhattan Hotel and Restaurant, 9-11 N Market
- Merchants Hotel, Market and Franklin
- Hotel Hatfield, 123 E Main

House Movers
- Blevins, Jos, 6 N Market

Insurance Agencies
- Clark, A W, 208 W Main
- Conrad, Geo W, 14½ S Market
- Davis, J W, 111 S Market
- Goodrich, P J & Son, 206½ W Main
- Green, H E & Son, ground floor Courthouse
- McConnell, Geo R, n w c Square, Brown blk
- McKinney, C T, suite 3 Masonic Temple
- Martin, Z Frank, 12 S Cherry
- Mason, A B, 5 Masonic Temple bldg

MAKE OUR BANK—YOUR BANK

Piqua Savings Bank Co.

Pays Interest on Deposits Loans Money to Build Homes

The

New Troy Hotel

Northwest Corner Market and Franklin

AMERICAN PLAN

Rebuilt ..:.. Refurnished

Hot and Cold Water in Every Room

First Class in all Appointments.
Sample Rooms With Good Light.
Entire Construction Fireproof.

$20,000 Spent in Reconstruction

BY THE

Merchants Hotel Company

R. L. RUSSELL, Manager.

1916
Piqua & Troy
Directory

Universal
Directory
Co.

1929 The Calkins-Kelly Directory Co.

902 Brademeyer Amelia
903 Shaffner Edw
907 Drake Harold O
908 Yantes Geo W
909 Burnside Jno C
912 Fox Omer
920 Gibboney Ezra K
923 Campbell D Ray
929 Foster Frank
926 Cecil Harley J
930 Johnson Ellis L
1003 Francis C T
1007 Gorrell Russell B
1008 Smallenbarger Adam
Sine Alta
1010 Moist Raymond L
1013 Shawver Edw
1016 Butler Jno L
1017 Snedeker C E
1020 Rogers Ernest
1021 vacant
1101 vacant
1105 Wert Kenneth
1109 vacant

WASHINGTON

From 132 N Elm West to Madison

818 Scholl Chas P
823 Kiser Russell E
824 Landman Elizth
829 Morgan Benj F
830 Collins Jno F
836 vacant
837 Shoffner Wm J
840 Bissett Wm C
909 Earhart Carl G
911 Wilson Chelsea E
912 Williams Dorothy
913 Herst Cynthia
917 Davis Thos
920 North Geo F
921 Good Nancy
929 Stewart Neil
933 Bailey Clara

WATER EAST

From 125 N Market east to N Frank

3 Briggs Chas U
7 Briggs Walter C
10 Holt Fred L
13 Cope Wm W
13½ Baumeister Werner
16 Combs Mary
17 Pearson Jos E
21 Shinn Jos S
23 Pearson Walter J
101 Greulich Gustav C
107 DeWeese Darius E
111 Knoop Louis P
115 Robbins Chas
116 Harris G Raymond
121 Dick Raleigh T
124 Boller Ernest G
Girls' Civic League
201 Chambers Luetta
Helser Ira M
204½ Ross W Eugene
206 Bothe Henry J
209 Jackson Implement Co
Jackson Chas H
220 Arkenberg Andrew F
405 Sedam Otto R
409 Freed Jno
414 Laufer Fred L
417 Faucette Wm
420 Tecklenberg Wm M
423 Tecklenberg Florence
428 Shadley Marion
Byrkett Andrew F
431 Donovan Omer L
432 Gillis Amos
436 Moyer Jno S
439 Moyer Wm H
440 Shellenbarger Jno H
Weaver Irvin I
441 New Favorite Mfg Co
444 Michel W Alonzo
446 Barga A J
447 Nash Clarence A

450 Rodgers Harry B
453 Myers Grant
502 Herr Wm D
506 Webb Geo A
507 McDaniel Kenneth G
510 Carey Jesse R
512 Gessner Walter N
518 Davis Geo F
521 Brown-Bridge Mills
526 Werts Jesse A
529 McAfee Arthur
530 Mentink Harold
533 Campbell Jas R
534 Harris Harry M
540 Doll Fred C
602 Kessler Lester W
VanKirk Clarence
614 Kirkland Lawrence
618 Powell Dyson H

WATER WEST

From 24 N Market west to Elm

13 Bradford Wesley M
15 Denny's Garage
23 Daugherty Geo E
Fregin Edw J
Danison P T
101 Cosley Edwin M S
109 Bumbli Bert
110 Gillis Jas
111 Hobart Cabinet Co
118 vacant
120 Rench Rolland O
201 Coleman Warren
Stoltz Leonard
Thompson Geo L
209 County Power House
215 Eagles' Club
301 Moyer Irma M
Ziegenfelder T C
Yost C P
305 Ellis Geo W
306 Houston Wilbur B
309 Dungan I L Rev
315 Folker Wm B
316 Babb Harriett
318 Dill Albert P
321 Heller Della C
324 Shilling Louis O
403 Coolidge Chas
405 vacant
413 Hunt Hiram W
423 Westfall N S
503 Reynolds Wm H
Jenkins Clayton
504 Donahou Danl T
509 Duer Walter
510 Workman Harry N
515 Stratton W Riley
Jones Robt A
522 Favorite Mary A L
523 McClellan Loretta
Fahnestock Theron
603 Fregin Adelaide
Pearson Howard F
609 Brady Emma
614 Cress H G Co
615 Knapp Edw F
621 Walters Jas B
Warner May
Schmuecker Richd
Abshire Oliver L
702 Goodrich Frank C
703 Weisenbarger H G
708 Blevins Jos
709 McCarthy Sarah L
711 Connor Edgar M
717 Wellbaum J Harry
725 Shaeffer Orral B
747 Jones Eliza A
750 vacant
801 Welch Chas W
808 Kirstien Elizth M
814 Siler Clarence
815 Sewell P W
817 vacant
825 Chase Lydia E
826 Ullery Clement A
901 Siler Jesse
914 vacant

nut South—continued

Trapp Alfred V
Blackmore D Edgar
Mouch Edw
Buirley Harrison
Hale Lewis
Berchtold C F
Fish R Earl
Weimer A H
VanHorn Anna
Stoner P E
Green C E
Zimmerman Lilbern
½ Wood Ora
Neff G S
Boak Judson D
Hardesty R A
Beard W O
Martin H G
Railing M E
Mikels R A
Harper Anna L
Bell Martin
Davidson Gerald A
vacant
Duggins Lloyd
Chipley Ida B
Pearson Louis
Bittikofer P L
Gillis Arthur W
Baker Robt L
Zeller Paul
Binkley Gordon
Tyler W M
Young M M
Skenes C R
Bowman H W
Musgrave Howard L
Hunt Robt E
Vore Vernon
Harbor Harris
Rhynard Sadie
Sinclair Refining Co
Harbor Harris
Snyder Stephen D
Kruse Clarence A
Helzer Harley H

820 Smith Ruby
823 Ziegler Jas E
824 Boehringer J A
902 Brademeyer Amelia
903 Shaffner Edw
907 Drake Harold O
908 Yantes Geo W
909 McWilliams J W
914 Fox Letta E
920 Rozell Isaac
926 Cecil Harley J
929 Williamson
930 Johnson Bertha E
933 Campbell D Ray
1003 Hetzler M E
1007 Counts Lorin M
1008 Smallenbarger Adam
1008½ Moore R K
1010 Moist Raymond L
1013 Shawver Edw
1016 Coppock Robt K
1017 Snedeker C E
1020 Zook Roy C
1021 Brown Eugene F
1100 Bausch Jas E
1101 Miles Harold E
1105 Wert Kenneth
1107 Rose H N

WASHINGTON

From 132 N Elm west to Madison

818 Scholl Chas P
820 Weihrauch J E
823 Freyhof Edw J
824 Landman Elizth
829 Morgan Benj F
830 Kilpatrick Jno
836 vacant
837 Shoffner Wm J
840 Bissett Wm C
909 Norris Jno H
911 Courtney T W
912 Williams Dorothy
913 Herst Cynthia
917 Davis Willard
920 Anthony E W

921 Shoemaker J J
929 Stewart Neil
933 Bailey Clara

WATER EAST

From 125 N Market east to N Frank

3 Briggs Chas U
7 Briggs Mary A
10 Holt Fred L
13 Mitchell Mary L
13½ Dalzell P L
16 Marshall D L
17 Pearson Jos E
18 Wright Emma A
21 Enders Sue C
23 Pearson Walter J
101 Greulich Gustav C
107 DeWeese Kath
111 Knoop Louis P
115 Robbins Chas
116 Harris G Raymond
121 Dick Raleigh T
124 Girls Civic League
124½ McCool W E
201 Fox Oscar E
204 Dye Walter J
206 Bothe Henry J
209 Jackson Implement Co
Jackson Chas H
215 Farm Bureau Assn
405 Sedam Otto R
409 Freed Jno
413 Lutz R E
414 Laufer Fred L
417 Dunlap C H
420 vacant
423 Teckenberg Florence
Ross M L
428 Edminson Deyer C
431 Sarver Chas E
432 Gillis Amos
436 Moyer Jno S
439 Elliott C E
440 North Fred
441 New Favorite Mfg Co
444 Locker Harry L

446 Barga A J
447 Kirkland Lawrence
450 Rodgers Harry B
453 Brumbaugh Jesse
453½ Sharits Edw
507 Mumma Willard H
521 Brown-Bridge Mills
529 McAfee Arthur
533 Campbell Annie K
537 Keller J K
Riesenbeck H J
602 Haaga L F
605 Stuart Harry N
614 Jones J M
618 Roop Willard
622 Speckbaugh Geo

WATER WEST

From 24 N Market west to Elm

11 vacant
13 Reed Howard E
21 vacant
21½ Jones Sarah
23 Daughery Geo E
101 Cosley Edwin M S
109 Bumbli Bert
110 vacant
111 Hobart Cabinet Co
118 vacant
120 Brandon C T
Paul Louis
201 Coleman Warren
Lowry K F
201½ LeFevre Mayme C
209 County Power House
215 Eagles' Club
301 Mayer Irma M
Babb Etta
305 Gammel E R
306 McDowell Harriet
309 Dungan I L Rev
315 Folker Wm B
316 Babb Harriett
318 Dill Albert P
321 Heller Della C
321½ Jones Melvin

The Calkin-Kelly Directory Co 1935

THE TROY ICE & COAL COMPANY

"Save With Ice"

Manufacturers and Distributors Ice—Refrigerators—Coal

641-649 South Union Street — Phones: Office 2238, Factory 2237

1942 POLK

WALNUT S—Contd

933 (923)ΔCampbell D Ray ◎

Ross intersects

1003ΔFrancis Clarence T ◎
1007ΔSeeker Cleo S
1008 Hofacker Floyd R ◎
1008½ΔRoth Edw
1010 Moist Ray L ◎
1013ΔShawver Edna R Mrs ◎
1016ΔMurphy Melvin L
1017ΔSnedeker Clifford E ◎
1020ΔZook Roy C ◎
1021ΔByrum L Kenneth ◎

Enyeart intersects

1100ΔBausch Jas E
1101ΔMiles Harold E ◎
1105ΔKarnes Cary M ◎
1107ΔRoss Herbert N ◎

S Dixie Highway intersects

WASHINGTON — From 132 N Elm west to Madison, 1 north of Main

811 Butler Wm E
818 Scarf Robt
820ΔMain Paul O
823 Freyhof Edw I
824 Maggert Thelma Mrs
824½ Newman Howard E
829ΔStiles Robt D
830ΔSeay Elliot W
836ΔWright Herbert
837ΔShoffner Wm J ◎
840ΔBissett Wm C

Harrison intersects

909ΔStambaugh Wm E
911 Beyerle Branhan A
912 Ross Margt
913ΔHurst Cynthia Mrs ◎
917 Robinson Della Mrs
920 Swank J Loren
921ΔStuart Neal ◎
929 Vacant
933ΔShaffer Raymond H

Madison intersects

WATER EAST—From 125 N Main east to Frank, 1 north of Main

5 Briggs Chas
7ΔBriggs Mary S Mrs ◎
10ΔCockrill Jos E
13ΔMitchell Mary L Mrs
13½ΔDalzell Philip L
16 Scott Wm W
17ΔPearson Jos E ◎
18ΔMitchell Angeline Mrs ◎
21 Enders Sue Mrs
23ΔDungan Irvine L

N Walnut intersects

100ΔOakes H Calver
101ΔGreulich Aug C ◎
Greulich Helen L nurse
107ΔHufford Jacob A ◎
107½ Putterbaugh Leo E
111 Knoop Louis P ◎
115ΔRobbins Chas ◎
116ΔHarris Geo R ◎
116½ Stuchell Lyle E
121ΔDick Raleigh T ◎
124 Girls Civic League
124½ McCool Walter E

N Mulberry intersects

201ΔFox Oscar E
204 Vacant
204½ΔPalmer Helen
215ΔFarm Bureau Co-operative Assn
ΔFarm Bureau Insurance Service

B&ORR crosses
S Clay intersects

ne corΔHobart Cabt Co
se cor Vacant
405ΔBunn Irving E
409 Freed Amelia Mrs
413ΔGillis Chas F
414 Laufer Ann ◎
417 Stryker R Berlyn
420ΔLocker Harry
423ΔDunlap Carl H ◎
428 Edminson Dyer C ◎
431ΔDonovan Paul R ◎
432 Gillis Amos
436ΔDoll Fred C ◎
439 Wright Paul W ◎
440 Bowman Lawrence
441 Fraizer & Scott machy mfrs
ΔFraizer F L Machine Shop
444 Duncan Effie E Mrs ◎
446 Ester Stanley E
447ΔKirkland Lawrence W
450ΔRodgers Harry B ◎
453 Rickey John E

New intersects
Oak intersects

—— Brown-Bridge Mills Inc gummed paper
529ΔPacker Robt W
533 Honeyman Nora Mrs
537 Morrow Milan T
537½ Mick Frank W

S Counts intersects

601ΔSaul Robt A ◎
602 Battson Jas H
Modestt Harry
Courtney Thos W
605 Stewart Harry H
614 Smitley Earl C
618 Bowman Harry W
622ΔSpeckbaugh Geo ◎

Frank intersects

801 Rolf Jas F
815 Wilson Lee L

WATER WEST—From 24 N Market west to Elm, 1 north of W Main

9 Vacant
9½ΔBruner DeWitt
Frigge Louise Mrs
11 Fleetwing Service Station
21 Hogan Wm
21½ Young Elizabeth Mrs
23ΔDaugherty Geo E ◎

N Cherry intersects

101ΔCosley Edwin M ◎
109 Bumbli Albert
110 Snider Lester
111ΔHobart Cabinet Co mfrs
114 Vacant
118 Howard Thos
120ΔMarshall Don L ◎

N Plum intersects

201ΔState Div Aid for the Aged
201½ Snell Jacob
203ΔDingler Carl C
205ΔResies Beauty Shop
209ΔMiami County Power Plant
215 Eagles Building hall

STEIN STUDIO

Portrait and Commercial Photography

106½ E. MAIN — PHONE 9601

WATER W—Contd

301 Pritchard Lawrence
Bookwalter Kenneth
Daughters of American Revolution
ΔMoyer Irma M ◎
305ΔLutz Lyold V
306 McDowell Harriett Mrs
309ΔWinters Carl A Rev
315ΔFolker Wm B ◎
316ΔBabb Harriett E Mrs
318ΔDill Albert P
321ΔKessler Ira O
321½ΔHeller Dela C Mrs ◎
324 Knuefener Grace M Mrs

N Oxford intersects

403ΔJenkins Clayton D ◎
407ΔMiller Kenneth V ◎
413ΔHunt Blanche Mrs ◎
423ΔYoung Wm F
425ΔWestfall Newton ◎

N Monroe intersects

503 Reynolds Wm H
504 Studebaker Marvin B
505 Hildebrand Linus W
507 Vacant
507½ Swank John E
509ΔSanger Russell R ◎
509½ Putnam Chas
510 Doseck Henry A
515ΔStartton Riley W ◎
515½ΔWestfall Paul J
522ΔRudy Elta F ◎
523ΔSpraul Jos M
523½ΔSlutman Fletcher A

Adams intersects

603 Siler Wilbur
Pearson Howard H
609ΔBrady Emma P Mrs ◎
614 Motor Generator Corp (sub div of Hobart Mfg Co)
615ΔGrove Bessie M Mrs ◎
621ΔBarrere Walter P
ΔHedrick Garth E
rear Horn Dale E
621½ Tilley Fred H
May Reeves

Jackson intersects

703 Vacant
709 Vacant
711 Vacant
717 Vacant
719 Martin Lewis F
721 Vacant
725 Ashman Robt R

Duert Court
Hobart road

747 Howard Mabel Mrs
ΔCantiliver Marion
747½ Vacant

N Elm intersects

801 Welch Chas W
808 Kirstein Jacob C
814ΔLehman Nellie Mrs
815ΔKaufman John E
817 Siler Leonard D
825ΔChase Lydia E Mrs ◎
826 Miller Saml

N Cedar intersects

901 Hufford J Vernette jr
914 Sweigart Sam L

Harrison intersects

WAYNE — From Garfield west to Lake, 6 south of McKaig av

413ΔDavis Geo W ◎
418 Vacant
423ΔKennedy Mary C Mrs
424 Hartman Warren
427ΔHennessey Earl W ◎

Pennsylvania av intersect

513ΔWebster Robt E

Ridge av intersect
Summit av intersect

—— Stouder Memorial Hosp (side ent)
1219 Jones Leonard ◎
1221 Hirsh Roy

Lake intersect

WEST EAST—From 641 S Mark east to Union, 9 south of E Mai

2 Hull David D
6ΔShane Dewey E
11ΔShroyer Floyd E
12 Alkire Harold J
13 May Saml D ◎
18ΔRoutzong Harriett Mrs ◎
18½ Segner Edwin J
24ΔWittenmyer Leslie D
22ΔChamplin Warren E
30ΔFulmer E W Co No 42 gros

S Walnut intersec

102ΔNash Clarence A
104ΔMorrow Geo R
108ΔDeWeese Ralph H
112 Cook Wm H ◎
116ΔJones Stella M Mrs ◎
117ΔNorris Carl A ◎

S Mulberry intersto
S Clay intersec

314 Knife's Barber Shop
317ΔDunlap Sophia Mrs
Emmel Lawrence

S Crawford intersec

402ΔIndiana Refining Co oils
Studebaker Robt O
405 Fine Guy C
407 Anthony Walter J
409 Larck Walter E
411 Plantz Noah
413 Nolan Chas E
415 Ganger Carrie Mrs
417 Taylor Vernon R

B&ORR cross

se cor Noonan Wm M restr

Union intersec

WEST WEST—West from 1004 Li coln av, south of W Main
(No houses)

WESTERN AVENUE—(Changed Ridge av)

WESTGATE CIRCLE — From 10 Westgate rd south 1 block in ci
206ΔSouthard Claude K ◎

WESTGATE LANE — From 1 Pennsylvania av east to B&OR
(No houses)

WESTGATE ROAD — From 1 Ridge av east 2 blocks to Pen sylvania av
1005ΔBouknecht Harold R ◎
1007ΔBallentine Jas S ◎
1008ΔFish R Earle ◎
1010ΔFox Gerald B ◎
1013ΔSmith Lewis ◎
1014ΔButtweiler Alex G ◎

431ΔMouch Edw ⊙ furn
435ΔLowry Clyde M
436ΔHale Louis ⊙
†E Simpson intersects
503ΔBerchtold Carl F ⊙
504ΔDixon Albert M Rev ⊙
ΔFish Paul E
rear No Return
507ΔBarnes Peter M ⊙
508ΔBrown Kennard ⊙ pntr
513 Guss Marvin
513½ΔSmock Alva P
514 Zimmerman Maggie M Mrs ⊙
514½ Acker Wilbur
517ΔEdwards Lawrence J
518ΔEmrick Sophia Mrs ⊙
522ΔJones Carleton E ⊙
523ΔGlasmeier Geo F ⊙
524ΔCoate Chas E ⊙
527ΔNewman Harold ⊙
530ΔEarhart Almeda Mrs ⊙
533ΔBattson Herbert C ⊙
534ΔAnderson Art
†Raper intersects
601ΔThaxton Romie M ⊙
602 No Return
607 Chipley Ida B Mrs
610ΔPearson Louis N ⊙ barber
613 Weaver Ruth S Mrs
617ΔGillis Arth W ⊙
618ΔMotter Carrie Mrs ⊙
621ΔZeller Paul ⊙
624ΔEstes Andrew ⊙
628ΔDoseck Henry A ⊙
632ΔMcConnell Max F ⊙
†B&ORR crosses

9

†E West intersects
700ΔClewers E Lawrence
702ΔHanes Carl W
713ΔMiles Chas D Rev
718ΔMcKinney Roscoe E ⊙
719ΔHarhor Freda Mrs ⊙
724ΔMoats Robt L ⊙
728ΔSinclair Refining Co bulk plant
742 Harbor Louis junk
†NYCRR crosses
804ΔSomers Harold L
808ΔKruse Clarence A ⊙
812ΔStoltz Robt E
ΔZiegler L Edw
820ΔSmith Ruby M Mrs
823ΔZiegler Jas E ⊙
824ΔJones P A
824½ Masterson Josephine
†Young intersects
902ΔMyers Richd W ⊙
903ΔBuchanan Ralph R ⊙
907ΔDrake Harold O ⊙
908ΔYantis Geo W ⊙
909ΔWilson John F ⊙
914ΔWagner Jas L ⊙
929ΔBoller Ernest G jr
930ΔJohnson Bertha E Mrs ⊙
†Ross intersects
1003ΔFrancis Clarence T ⊙
1004ΔTootle Jas N
1006ΔClass F W
1007ΔSeeker Cleo S
1008ΔMiller John L ⊙
1010ΔMoist Ray L ⊙
1013ΔShawyer Edna R Mrs ⊙
ΔBernhardt Francis J
1013½ Boyd Leo A
1016ΔMurphy Melvin L ⊙
1017ΔSnedeker Clifford E ⊙
1020ΔZook Roy C ⊙
1021ΔHenning Earl J ⊙
†Enyeart intersects
1100ΔBausch Jas E ⊙
1101ΔMiles Lillian S Mrs ⊙
1105ΔThompson Russell J ⊙
1107ΔRoss Herbert N ⊙
†S Dixie hwy intersects

2

WASHINGTON—From 132 N Elm west to Madison, 1 north of Main
818ΔDungan Irvin L Rev ⊙
820ΔLong Wilmot M
821ΔReinhard Alf J ⊙
823 Smith Carl G ⊙
824ΔLong Chas W
824½ΔKnoop Jas F
829ΔKessler Ola M Mrs ⊙
830 Carpenter Paul R
836ΔLong Harry F ⊙
837ΔShoffner Wm J ⊙
840ΔBissett Florence M Mrs
†Harrison intersects
909 Fessler Minerva Mrs ⊙
911ΔHibbard Alonzo ⊙
912 Williams Tony
913 Waters Coy M
917 Davis Willard L ⊙
918 Under Constn
920 Under Constn
921ΔStewart Neal ⊙
929 Harris Clara A Mrs ⊙
933 Berry Woodrow W
†Madison intersects

1

WATER E—From 125 N Main east to Frank, 1 north of Main
5 Briggs Chas U ⊙
7ΔGrimes Robt T ⊙
10ΔSherwood Harley ⊙
13ΔMcGregor Harry M
13½ΔDalzell Philip L
16ΔWest Fred H
17ΔPearson Jos E ⊙
18ΔGray Albert S ⊙
18½ΔBaker Jessie W Mrs
21ΔShafer Walter C

1950 POLK

CONTRACTORS
Building and Concrete Block
N. MARKET AT B & O R.R. TRACKS PHONE 2-3231

WATER E—Contd
23ΔKirk Albert A
†N Walnut intersects
101ΔGreulich Aug C ⊙
107ΔHufford Jacob A ⊙
107½ΔEdmunds Harriett Mrs
111 Knoop Louis P ⊙
115ΔRobbins Grace Mrs ⊙
116ΔHarris Geo R ⊙
116½ΔShaw Betty Mrs
121ΔDick Raleigh T ⊙
124ΔGirls Civic League
124½ΔWagner Harold L
†N Mulberry intersects
201 Jackson Paul W ⊙
204 Vacant
204½ΔNoonan Wm M jr
206 Bothe Bib J Mrs ⊙
209ΔJackson Implement Co
209½ Victor Hazel Mrs
210ΔHobart Cabt Co (stge)
215ΔMiami County Farm Bureau Co'operative Assn
ΔKarnes Cary M ins
ΔWells Ralph W ins
224 Hobart's C C (Stge)
†B&ORR crosses
†S Clay intersects
†N Crawford intersects
405ΔWeatherhead Delmar ⊙
409ΔLutz Robt ⊙
413ΔStryker R Beryln
414ΔLaufer Ann ⊙
417ΔDunlap Carl H
420ΔFox Oscar
423ΔSmock Wm E ⊙
428ΔEdminson Dorothy J Mrs ⊙
431ΔDonovan Paul R ⊙
432ΔGillis Amos ⊙ carp
436ΔDoll Fred C ⊙
439ΔWright Paul W ⊙
440 Bowman Lawrence
441ΔTrojan Manufacturing Co (whse)
444 Duncan Effie Mrs
446ΔFry Robt
447ΔKirkland Lawrence W
450ΔRodgers Cora Mrs ⊙
453ΔDaugherty Floy
†New intersects
†Oak intersects
521-25ΔBrown-Bridge Mills Inc gummed paper
†S Counts intersects
601ΔSaul Florence Mrs ⊙
622ΔMarshall Josephine Mrs
†N Frank intersects

1

WATER W—From 24 N Market west to Elm, 1 north of W Main
9ΔDarst Wilma H
9½ΔElifritz Robt L
19ΔDaugherty Hardware
21ΔKister Wm
21½ΔDaugherty G Robt
23ΔDaugherty Geo E ⊙
†N Cherry ends
101ΔCosley Edwin M ⊙
109ΔBumbli Albert ⊙
110 Snyder Lester E
113-17ΔHobart Cabinet Co
118ΔHoward Thos G ⊙
120ΔMarshall Don L ⊙
†N Plum ends
201ΔState Div Aid for the Aged
ΔState Div of Pub Welfare Dept
201½ΔTenney Lulu E Mrs
203ΔTroy Chamber of Commerce
ΔJackson Effie Mrs
209ΔMiami County Power Plant
215ΔEagles Hall
Miami Aerie No 971 FOE
ΔMiami Aerie No 971 FOE (Ladies Auxiliary)
†N Short ends
301ΔEmrie Harley
Pegram Maude Mrs
306 Alspaugh M E
309ΔHines Chas R ⊙
315ΔFolker Clara Mrs ⊙
316ΔBabb Webb F ⊙
318ΔDill Albert P ⊙
321ΔKessler Ira O
321½ Young Harley
324ΔKnuefener Grace M Mrs
†N Oxford intersects
403ΔJenkins D Clayton ⊙
407 Rankin Hugh W jr
413ΔHunt Blanche Mrs ⊙
423ΔMcPherson Leah Mrs
425ΔMcCurdy May W Mrs
†N Monroe ends
503ΔReynolds Wm H ⊙
504ΔNolan June Mrs
505ΔYoung Wm F
507½ΔAvey Donald W
509ΔSanger Russell R ⊙
509½ΔLeFevre Mayme
510ΔBowers John W ⊙
Bowers Opal M Mrs beauty shop
515ΔStratton W Riley ⊙
515½ΔSeydler Sherman A jr
522ΔRudy Elta F Mrs ⊙

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WALNUT S—Contd
1008△Seitz Emmett F ◎
1010△Moist Ethel M Mrs ◎
1013△Bernhardt Francis J ◎
1013½ Plank Wm
1016△Murphy Melvin L ◎
1017△Snedeker Clifford E ◎
1020△Zook Roy C ◎
1021△Gray Anna Mrs ◎
Enycart intersects
1100△Bausch Jas E ◎
1101△Miles Lillian S Mrs ◎
1105△South Dale R
1107△Ross Herbert N ◎
S Dixie hwy intersects

2

WASHINGTON—From 132 N Elm west to Madison, 1 north of Main
818△Kriete Robt C
820△Long Wilmot M
821△Reinhard Alf J ◎
823△Smith Carl G ◎
824△Daugherty Floyd A
824½ Cremeans Norven E
829△Kessler Ola M Mrs ◎
830△Wilson Billy C ◎
836△Long Harry F ◎
837△Shoffner Effie H Mrs ◎
840△Bissett Florence M Mrs
Harrison intersects
909△Calloway Gertrude Mrs
911△Hibbard Alonzo ◎
912 Williams Woodson ◎
913△Morton Herbert F
917 Davis Willard ◎
920△Waters Coy M
921△Stewart Neal ◎
924△Motter Jack L ◎
929△Harris Clara A Mrs ◎
933△Wagner Hershel M
Madison intersects

1

WATER E—From 125 N Main east to Frank, 1 north of Main
3△South Dale R phys
5△Wells Ralph W ◎ ins
7△Brown Mary D phys
△Brown David R phys
10△Sherwood Harley ◎
13△Bowen Grace H Mrs
13½△Dalzell Phil L
16△West Fred H ◎
17△Pearson Jos E ◎
18△Gray Albert S ◎
18½△Tarbutton Jas A
21△Hagen Axel
23△Wilson Ernest C

107½△Edmunds Harriett F Mrs
111△Knoderer Robt K ◎ chiropractor
115△Robbins Grace P Mrs ◎
116△Harris G Raymond ◎
116½△Vorpe Geo W
121△Dick Raleigh T ◎
124△Girls Civic League
124½△Wagner Harold L
N Mulberry intersects
201 Overfield Tavern (historic bldg)
204 Hime Ethel
204½△Noonan Wm M jr
206△Bothe Bib J Mrs ◎
209△Roeth's Used Appliances
△Starcher Glen L
210△Hobart Cabt Co (stge)
215 Vacant
224 Hobart Cabt Co (stge)
B&ORR crosses
S Clay intersects
N Crawford intersects
405△Billhimer Martha A Mrs ◎
409△Lutz Robt E ◎
413 Lutz Kittie Mrs
417△Newman Roy E
420△StPatrick Sch
423△Strine Robt ◎
431△Donovan Paul R ◎
432△Gillis Amos ◎
436△Doll Fred C ◎
439△Wright Paul R ◎
440 Bowman Lawrence
441△Waltz's Dry Clns (plant)
444△Duncan Effie Mrs
446 Fry Wm R
447△Foster Curtis E
450△Rodgers Cora E Mrs ◎
453 Vacant
New intersects
Oak intersects
521-25△Brown-Bridge Mills Inc gummed paper
S Counts intersects
622 Vacant
N Frank intersects

1

WATER W—From 24 N Market west to Elm, 1 north of W Main
9△Darst Wilma H
9½ Swallow Jennie W Mrs
19△Daugherty's Hdw
21 Mitchell Cath J Mrs
21½△Daugherty G Robt
23△Daugherty Geo E ◎
N Cherry ends

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WATER W—Contd
113-17△Hobart Cabt Co
118△Howard Thos G ◎
120△Marshall Don L ◎
N Plum ends
201△State Div Aid for the Aged
△State Div of Pub Welfare Dept
△Fulker John E lwyr
201½△Tenney Lulu E Mrs
203△Troy Chamber of Commerce
209△Miami County Power Plant
215 Eagles Hall
△Eagles Club
Miami Aerie No 971 FOE
Miami Aerie No 971 FOE (Ladies' Aux)
Boy Scouts of Am (Lacol Troop No 244)
N Short ends
301△Seabrook Ann O Mrs
305 No return
306△Icenbarger Emma E Mrs ◎
309△Hines Chas R ◎
315△Folker Clara B Mrs ◎
316△Babb Webb F ◎
318△Dill Albert P ◎
321△Kessler Ira O
321½ McCreary Wm N
324△Chaney Robt E
N Oxford intersects
403△Jenkins D Clayton ◎
407△Ward Willis W
413△Hunt Blanche Mrs ◎
423△Vesper Dale L
425△McCurdy May W Mrs ◎
N Monroe ends
503△Reynolds Wm H ◎
504 Davidson John H
505△Yackels Aloye
507½△Hale Minnie B Mrs
509△Johnston Louis A
509½△Miller Lowell T
510△Bowers John W ◎
Bowers Opal M Mrs beauty shop
515△Stratton W Riley ◎
515½ Carity Chas P
522△Rudy Pearl M Mrs ◎
523△Spraul Jos M ◎
Adams intersects
603△Siler Wilbur F
△Siler Glenna E Mrs ◎
609△Davis Clifford ◎
615△Johnson Arth ◎
621△Barrere Walter P
△Keiser Thelma I Mrs
rear Boram Fredora Mrs

ne cor△Hobart Bros (electrode plant)
Hobart rd begins
747△Weymer Wm L
747½ Sweargin Leslie J
N Elm intersects
801△Doll Max L ◎
808△Kirstein Jacob C ◎
814△Ingels Dorothy B Mrs ◎
815△Sewell Perlema ◎
817△Siller Leonard D ◎
825△Ellis LeRoy G
826△Miller Saml
N Cedar intersects
901△Robinson Wm R
Bill's Radio & TV Serv
914△Bailey O G
Harrison intersects

4

WAYNE—From Garfield av west to Lake, 6 south of McKaig av
414△Huenstein Minnie P Mrs ◎
423△Kennedy Bernice F
424△Furnas Roger G
427△Hennessey Earl W ◎
Pennsylvania av intersects
1030△Farrell Jos E ◎
1109△Bates Nellie M Mrs
1113△Duke Richd L
1115△Elifritz Wm W
Ridge av intersects
1117△Pippen Eug J
1119△Buckalew Allan H jr
Summit av intersects
1219△Caldwell Vernal
1221△Tucker Harry L ◎
Lake ends
1301△Brooks Ethel E Mrs ◎
1305△Tootle Jas N ◎

9

WEST E—From 641 S Market east to Union, 9 south of E Main
2△Avery Harold M
6△Kiefer Paul J ◎
11△Reedy Robt W ◎
12△Heckerman Kenneth E ◎
13△Collier Opal B Mrs ◎
18△Routzong Harriett Mrs ◎
22△Champlin Frances Mrs ◎
24△Wittenmeyer Willa J Mrs
30△Fulmer E W Co No 42 gros
S Walnut intersects
102△Myers Bernard ◎
104△Gearhart Jack
108△Lambert Effie M Mrs ◎
112△Cook Wm H ◎
116△Jones Stella M Mrs ◎

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WALNUT S—Contd
312 Thornton Jas A ◎ △ FE9-7414
316 Shafer Walter C △ FE9-7825
316½ Shafer Ralph H △ FE9-8314
317 Yount Rose E Mrs ◎
△ FE9-6494
320 Brewer Effie D Mrs ◎
△ FE9-8311
321 Scott Bruce ◎ △ FE9-7350
323 Hardesty Mary E Mrs ◎
△ FE9-3346
Hardesty Beauty Salon
△ FE9-3346
326 Williams Harry L ◎
△ FE9-7412
330 Mumma Ralph R
△ FE9-7413
331 Ceyler Ward S △ FE2-6527
332 Miller Lester L △ FE9-8313
336 Carroll Delmar E △ FE5-5351
Lafayette intersects
403 DeWeese Robt N ◎ △ FE2-6526
404 Campbell C Otho ◎
△ FE9-7046
409 Myers John H △ FE5-4437
409½ George Jerry
410 Lyker Wm E △ FE9-6518
Rasor Chas L △ FE9-7823
412 Grilliot Ralph J ins ◎
△ FE5-1383
417 Smith Carl J △ FE9-8940
419 Epperson Wm H ◎
419½ Dyke Calvin D ◎
△ FE2-6432
420 Swisher R Culton △ FE9-3983
421-23 Mouch Edw Furn
△ FE5-5491
424 Trapp Alf V ◎ △ FE5-4696
424½ Atterholt Lawrence E
△ FE9-7375
430 Athey Stuart E △ FE9-7372
431 Mouch Minnie M Mrs ◎
△ FE5-5491
435 Lowry Clyde M △ FE9-7588
436 Smith Overton △ FE9-7374
436½ Supinger Roscoe E
E Simpson intersects
503 Graef Marie F Mrs ◎
△ FE9-8556
504 Dixon Albert M Rev ◎
△ FE9-3286
507 Shane Dewey E ◎ △ FE9-6055
508 Brown Kennard ◎ pntr
△ FE9-4745
513 Sentman Jas M △ FE9-7589
513½ Weldy John R △ FE9-7587
514 Zimmerman Maggie M Mrs
◎ △ FE5-5777
514½ Buirley Raymond E
△ FE5-5778
517 Edwards Lawrence J
△ FE9-8436
518 Boyle Frank ◎ △ FE5-5779
518½ No return
522 Jones Carleton E jr ◎
△ FE5-4743
523 McMillen Ronald E
△ FE9-8449
524 No return
527 Macy Thos W ◎ △ FE9-8960
530 Earhart Almeda L Mrs ◎
△ FE9-3982
533 Battson Herbert C ◎
△ FE9-8498
534 Anderson Art M △ FE5-1896
534½ Earhart Oscar
Raper intersects
601 Moreland Ethel Mrs
602 Noble Kilus S
602½ Alexander Harold W
△ FE9-3984
607 Stine Mary Mrs
607½ Brandenburg R Mearl Mrs
△ FE9-8448
610 Collins Elinor Mrs
612 Alexander Russel H
△ FE9-7354
613 Davis Larkin S ◎ △ FE9-6052
617 Gillis Olive Mrs ◎ △ FE9-6053
618 No return
621 Burba Jack R ◎ △ FE9-7820
624 Scholler Nita G Mrs
△ FE9-3923
628 Doseck Henry A ◎ △ FE5-4440
628½ Mutschler Dorothy Mrs
632 Vacant
B&ORR crosses
9
E West intersects
607 Stine Mary
700½ Clewers Edw L △ FE9-6816
702 Lewis Albert H △ FE2-3070
713 Phelps Hanson E △ FE5-4847
718 McKinney Roscoe E
△ FE5-4849
719 Burnside Delbert △ FE5-4846
Cities Serv (garage)
NYCRR crosses
804 Inman R Lester ◎
△ FE2-7437
808 Greulich Wm F ◎
△ FE2-7168
812 Aldrich Bertha Mrs
812½ Vacant
820 Pyles Melvin A ◎
△ FE5-1435
823 Zeigler Haze lF Mrs ◎
△ FE5-5589
824 Jones Perle A ◎ △ FE2-3136
824½ Urick Ronald △ FE2-6057
Young intersects
902 Duncan Harry C ◎
△ FE9-8367
903 Buchanan Washer Serv
△ FE9-7866
Buchanan Ralph R ◎
△ FE9-7866
907 Gladman Wm H ◎ △ FE9-8536
908 Yantis Geo W ◎ △ FE8-6144
909 Wilson John F ◎ △ FE9-8913
914 Wagner Jas L ◎ △ FE2-4203
917 Hobson Jas L ◎ △ FE2-6625
920 Rozell Isaac R ◎ △ FE2-3137
923 Campbell D Ray ◎ △ FE9-8537
926 Cecil Edna Mrs ◎ △ FE2-4936
929 Davis Elson V △ FE9-8915
930 Johnson Bertha E Mrs ◎
△ FE9-6141
E Ross intersects
1003 Tecklenburg Norbert W ◎
△ FE5-5801
1004 Chenoweth Edwin jr
△ FE5-4784
1006 Voris Lowell N △ FE9-7096
1007 Seeker & Son Cycle Serv
1008 Seitz Emmett F ◎ △ FE5-4775
1010 Boram Geo R ◎ △ FE9-9428
1013 Bernhardt Francis J ◎
△ FE9-8648
1013½ Jenkins Pearl J
1016 Rauch Mildred △ FE2-3880
1017 Snedeker Clifford E ◎
△ FE9-6336
1021 Gray Neil ◎ △ FE9-8649
Enyeart intersects
1100 Bausch Jas E ◎ △ FE9-6408
1101 Miles Lillian S Mrs ◎
△ FE2-3206
1105 Berning Cletus W ◎
△ FE5-2506
1107 Ross Herbert N ◎ △ FE2-3531
S Dixie hwy intersects

2
WASHINGTON — From 132 N Elm west to Madison, 1 north of Main
818 Stanley Agnes M Mrs ◎
△ FE9-8712
820 Long Wilmot M △ FE9-3426
821 Reinhard Alf J ◎ △ FE9-9127
823 Smith Carl G ◎ △ FE9-9381
824 Dilley Gerald M △ FE9-6606
824½ Vacant
829 Vulgamore Jack N △ FE9-9382
830 Rogers John C ◎ △ FE9-6600
836 Long Harry F ◎ △ FE9-8714
837 Rosenbaum Lester J
△ FE9-9384
840 Bissett Florence M Mrs
△ FE9-6608
Harrison intersects
909 Bradford Wesley M chiropodist △ FE9-3761
911 Burns Marion △ FE9-3909
912 Williams Anthony ◎
913 Moton Herbert F ◎
△ FE9-6535
917 Davis Willard L ◎
920 Fraley Willard D △ FE2-4658
921 Stewart Neal ◎ landscape gdnr △ FE2-6728
924 Motter Jack L ◎ △ FE2-4650
929 Harris Clara A Mrs ◎
△ FE9-6534
933 McKibben Gene R
Madison intersects

1
WATER E — From 125 N Main east to Frank, 1 north of Main
3 Vacant
5 Wells Ralph W ◎ ins
FE2-7705
7 Shurben Nursing Home
△ FE9-9074
Shurben Ray D △ FE9-9074
10 Sherwood Harley ◎ △ FE5-4428
13 Epler Ennis K △ FE5-4021
13½ Dalzell Phil L △ FE2-4332
16 West Fred H ◎ △ FE5-4855
17 Pearson Jos E ◎ △ FE5-5641
18 Gray Albert S ◎ △ FE9-3291
18½ Wilgus Bessie B Mrs
△ FE5-4868
21 Hagen Axel △ FE5-4429
23 Wilson Ernest C △ FE2-3590
N Walnut intersects
101 Bunch C Gene ◎ △ FE2-3597
107 Hufford Jacob A ◎
△ FE9-8973
107½ Edmunds Harriett F Mrs
△ FE9-8972
111 Knoderer Robt K chiropractor
△ FE9-9431
111½ Martin Donna L Mrs
△ FE5-5505
115 Robbins Grace P Mrs ◎
△ FE5-5062
116 Harris G Raymond ◎
△ FE5-5063
116½ Vorpe Mary L Mrs
△ FE5-4051
121 Dic kRaleigh T ◎
△ FE9-8096
123 Brooks Wm A ◎
△ FE2-7244
N Mulberry intersects
201 Overfield House The
204 Noonan Wm M jr △ FE2-4310
204½ Vacant
206 Anderson Olney F △ FE9-7622
209 Roeth's Appliances Inc hsehold △ FE5-4331
209½ Favorite Paul △ FE5-0416
210 Hobart Cabt Co (stge)
211 Zirkle Lbr Sls whol
△ FE2-7447
211½ Schroder Louis
213 Recore Arvie Music Center
△ FE5-1166
215 Massie Plmb & Htg
△ FE2-6082
B&ORR crosses
S Clay intersects
310 Hobart Cabt Co (plant)
△ FE9-8666
N Crawford intersects
405 Billhimer Martha A Mrs ◎
△ FE9-8564
409 Lutz Robt E ◎ △ FE5-4242
413 Ditmer Walter E △ FE5-5319
417 Newman Roy E ◎ △ FE5-4245
420 StPatrick Sch △ FE2-4277
423 Strine Robt W ◎ △ FE5-5318
431 Donovan Paul R ◎
△ FE2-4718
432 Gillis Amos ◎ △ FE5-4243
436 Doll Fred C ◎ △ FE5-4244
439 Heffelfinger Don C
△ FE5-5310
440 Perkins Carl E ◎ △ FE5-4241
441 Brown-Bridge Mills Inc (stge)
444 No return
446 Fry Wm R
447 Brown-Bridge Mills Inc (stge)
450 Rodgers Cora E Mrs ◎
△ FE5-4546
New intersects
Oak intersects
521-25 Brown-Bridge Mills Inc
gummed paper △ FE2-1266
N Frank intersects

1
WATER W — From 24 N Market west to Elm, 1 north of W Main
9 Darst Wilma H △ FE9-7191
9½ Ferguson Van jr
△ FE9-797
19 Daugherty's Hdw △ FE9-91503
21 Stahl Louis O △ FE5-4046
21½ Marks Aug A △ FE9-7195
23 Daughtery Geo E ◎
△ FE9-8091
N Cherry ends
101 Cosley Edwin M ◎ △ FE5-5136
109 Owens Geo A
110 Snyder Lester E △ FE9-6077
111-17 Hobart Cabt Co
△ FE5-4666
118 Howard Thos G △ FE2-4007
120 Marshall Don L ◎
△ FE5-5006
N Plum ends
201 Vacant
201½ Tenney Lulu E Mrs
△ FE5-4347
203 Concord Twp Trustees (ofc)
△ FE5-4349
209 Miami County Power Plant
△ FE9-8891
215 **Eagles Hall**
Fraternal Order of Eagles
Miami Aerie No 971
Fraternal Order of Eagles
Miami Aerie No 971 Auxiliary
N Short ends

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907 Gladman Wm H ◎ 339-8536
908 Yantis Geo W ◎ 339-6144
909 Brand Elmer F ◎ 339-8915
914 Wagner Jas L ◎ 332-2403
917 Hobson Jas L ◎ 332-6625
920 Rozell A Mary Mrs ◎ 332-3237
923 Campbell D Ray ◎ 339-8537
926 Cecil Edna Mrs ◎ 332-4936
929 Ekler Ennis K ◎ 339-8530
930 Johnson Joseph L ◎ 339-6141
E Ross intersects
1003 Finfrock Robt ◎ 335-5802
1004 Kessler Rex B 335-4785
1006 Voris Lowell N FE 9-4096
1007 Alexander Margt A Mrs ◎
1008 Seitz Emmett F ◎ 335-4775
1010 Boram Geo R ◎ 339-9428
1013 Bernhardt Francis J ◎ 339-8648
1013½ Anderson Ole H
1016 Rauch Mildred Mrs FE 2-3880
1017 Snedeker Clifford E ◎ 339-6336
1020 Zook Roy C ◎ 335-4781
1021 Gray Anna J Mrs ◎
Enyeart intersects
1100 Bausch James E ◎ 339-6408
1101 Miles Lillian S Mrs ◎ 332-3206
1105 Berning C W Htg & Air Conditioning 335-2506
Berning Cletus W ◎ FE 5-2506
1107 Ross Herbert N ◎ 332-3531
S Dixie hwy intersects

2

WASHINGTON — From 132 N Elm west
818 Stanley Agnes M Mrs ◎ 335-2107
820 Long Wilmot M 339-3426
821 Reinhard Alf J ◎ optom 339-9127
823 Vacant
824 Applegate Wm I
824½ Bice Larry
829 Brown Frank 339-9385
830 Rogers John C ◎ 339-6600
836 Long Minnie G Mrs ◎ 332-6214
837 No return
840 Bissett Florence M Mrs 339-6608
Harrison intersects
909 Bradford Wesley M podiatrist 339-3761
911 Burns Marion T 339-3909
913 Moton Herbert F ◎ 339-6535
917 Davis Willard L ◎
920 Vacant
921 Stewart Neal ◎
924 Motter Jack L ◎ 332-4650
929 Harris Clara A Mrs ◎ 339-6534
933 Taylor Junior B 339-6532
Madison intersects

1

WATER E — From 125 N Main east
5 Wells Ralph W ◎ 332-7705
7 Miller Zelma Mrs ◎ 332-3591
10 Recreation Youth Center (side ent)
13 Vacant
13½ Dalzell Phil L 332-4332
16 West Fred H ◎ 335-4855
Bishop Alice Mrs 335-4869
18½ Fleigh Mildred Mrs
21 Hagen Axel 335-4429
23 Wilson Ernest C 332-3590
N Walnut intersects
101 Bunch C Gene ◎ 332-3597
107 Hufford Zelpha H Mrs ◎ 339-8973
107½ Rayburn Frances Mrs 335-4420
111 Eply Margt E Mrs 332-3749
111½ Dirscherl Margt Mrs 339-9395
115 No return
116 Harris G Raymond ◎ 335-5063
116½ Vorpe Geo W 335-4051
121 Hance Dora Mrs ◎ 335-5065
124 Girls Civic League 335-4235
124½ Rex Everette R 335-6145
N Mulberry intersects
201 Overfield House
204½ Jeffers John C
206 Clegg Willard H 335-4016
209 Roeth's Appliances Inc elec 335-4331
209½ Pickering Jon 339-4245
210 Hobart Cabt Co (stge) 339-6696
211½ Jay Jesse
213 Recore Arvie Music Center 335-1166
213½ Noonan Wm M jr 332-4310
215 Massie Plmb & Htg 332-6082
B&ORR crosses
S Clay intersects
301 Hobart Cabt Co (plant) 339-8666
N Crawford intersects
405 Billhimer Martha A Mrs ◎ 339-8564
409-13 Lutz Robt E ◎ 339-8562
417 Catalano Michl ◎ 335-4245
420 StPatrick Sch 332-4277
423 Strine Robt W ◎ 335-5318
431 Donovan Paul R ◎ 332-4718
439 Brown Clyde
441-47 Brown-Bridge Mills Inc (stge)
444 Reed Billy R 339-3487
446 Fry Wm R 339-8800
450 Wesco Kenneth H 339-8807
New intersects
Oak intersects
521-25 Brown-Bridge Mills Inc gummed paper 332-1266
N Frank intersects

1

WATER W — From 24 N Market west
9 Greer Douglas M
9½ Mumford Paul E 339-4973
19 Daugherty's Hdw 339-9150
21 Stahl Louis O 335-4046
21½ Emmel Geo jr
23 Daugherty Geo E ◎ 339-8091
N Cherry ends
101 Coble Orpha Realty Co 335-5056
109 Vacant
110 Snyder Lester E 339-6077
111-17 Hobart Cabt Co 335-4666
118 Walters E L 332-4006
120 Marshall Helen Mrs ◎ 335-5006
N Plum ends
201 Thornburgh Wm H lwyr 335-5212
201½ Tennow Lulu E Mrs 335-

HEISE REALTY, Inc.
Real Estate—Residential—Commercial—Farms
VIRGINIA HEISE
124½ W. MAIN ST. TEL. 332-7263

Water W—Contd
203½ No return
209 County Power Plant 339-8891
215 **Eagles Hall**
Fraternal Order of Eagles Miami Aerie No 971 335-7630
Fraternal Order of Eagles Miami Aerie No 971 Auxiliary 335-7630
N Short ends
301 Greulich Edith 339-4970
301½ No return
303 Tooley Bessie Mrs 339-4135
303½ Crouse Maude Mrs
305 Mowery David R 335-6644
Elleman Nevin J 339-4978
306 Icenbarber Emma E Mrs ◎ 332-3135
309 Hines Chas R ◎ 335-6678
309½ Groves Donald E 339-4133
315 Folker Mary E Mrs ◎ 339-8531
316 Babb Webb F ◎ 339-3881
318 McKee Earl R 335-5289
321 Kessler Ira O 339-4976
321½ Creger Dennis E
324 West Robt J 339-6232
N Oxford intersects
403 Lowery David A 332-7623
407 Toulouse Thos D 339-4306
413 Hunt Blanche L Mrs ◎ 335-5286
423 Vesper Dale 339-4308
425 McCurdy May W Mrs ◎ 332-4370
N Monroe ends
503 Gillis Mary Mrs ◎ 335-1451
504 Plank Wilma M Mrs 339-6425
505 Vacant
507½ Duff Dorothy H Mrs 339-6234
509 Johnston Louis A 335-4358
509½ Littlejohn Roger
510 Hobart Bros (dormitory)
515 Stratton W Riley ◎ 335-1454
515½ Vacant
523 Shough John H 335-4359
523½ Vacant
Adams intersects
600 Hobart Bros Mtr Generator Corp (plant) 332-1222
603 Siler Glenna E Mrs ◎
609 Davis Clifford ◎ 339-6454
615 Johnson Arth 332-3851
621 Nelson Jennings R
Wooddell Rita Mrs 335-1378
rear Yates James E
621½ Hartley Jas O
Moore Donald
Jackson intersects
Duer ct begins
Hobart rd begins
701 Hobart Bros Mtr Generator Corp (plant)
747 Lamb Edw V
747½ Vacant
N Elm intersects
814 Ingels Dorothy B Mrs ◎ 339-6941
815 Sewell Perlema W ◎ 332-4958
817 Siler Ruth B Mrs ◎ 332-6215
820 Kirtley John H ◎ 339-8552
820 Kirtley John H ◎ 339-8552
825 Gladman Raymond 339-8712
826 Miller Saml 339-8733
N Cedar intersects
901 Slack Emma M Mrs 339-6607
914 Sweigart Margt M Mrs ◎ 339-4465
Harrison intersects

4

WAYNE — From Garfield av west 6 south of McKaig av
414 Barker Louis P 335-5686
424 Hobart Mfg Co (Employees Fed Credit Union) 335-2237
427 Vacant
Pennsylvania av intersects
Ridge av intersects
1030 Farrell Jos E ◎ 332-3868
1100 Stouder Memorial Hosp (main ent)
Summit av intersects
1109 Buirley Thos
1113 Vacant
1115 Majher Marion
Ridge av intersects
1117 Frye Calvin C 339-8937
1119 Pusser Frederic D 335-6690
1219 McNeal Ross W Rev ◎ 339-9643
1221 Tucker Marie A Mrs 339-3411
Lake ends
1301 Monroe Orville
1305 Barnette A Jack ◎ 332-3018
Highland Park dr intersects

9

WEST E — From 641 S Market east
2 Lou's Decorated Cakes baked gds 339-4167
Long Norman G ◎ 339-4167
6 Fuller Raymond L ◎
12 Kendrick Henry
12 Shefmire Chas W
12½ Gunder Janet Mrs 339-3695
13 McKim LaVerne ◎
18 Routzong Eleanor ◎ nurse 339-3692
18½ Vacant
22 Long Donald E ◎ 335-4449
24 Stapleton Geo A
30 Drivers License Examination Sta
S Walnut intersects
102 Myers Bernard O ◎ 335-4691
104 Moler Ethel S Mrs 335-4693
108 Lambert Effie M Mrs ◎ 332-3076
112 Cook Wm H ◎ 332-7505
116 Jones Stella M Mrs ◎ 332-3077
117 Norris Carl A ◎ 339-3856
S Mulberry intersects

1578 McKAIG AVE.
INSTALLATION and SERVICE—Commercial—Residential
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1970 POLK

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604 W. Main — Troy — Tel. 332-5354
118 W. Ash - Room 211 — Piqua — Tel. 773-8598

E WATER ST—Contd
213½ Kolleda Freda K Mrs
215 Massie Plumbing & Heating 332-6082
B&ORR CROSSES
301 Hobart Cabt Co (Plant)
N CRAWFORD INTERSECTS
405 Billhimer Martha A Mrs ◎ 335-3244
409 Lutz Robt E ◎ 335-3267
417 Sampson Michl E 335-1333
420 Saint Patrick School 332-4277
423 Strine Robt W ◎ 335-2666
431 Brown-Bridge Mills (Stge)
444 Studebaker Bessie M 335-2383
446 Becker Ralph T
450 Wolfe Wilford W 335-7509
NEW ENDS
518 Brown-Bridge Mills Inc gummed paper 335-0561
N COUNTS ST ENDS

1

WATER ST W —FROM 24 N MARKET WEST

ZIP CODE 45373
9 Bledsoe Bessie Mrs 335-3962
9½ Vanchure Thos L
19 Daugherty's Hardware 335-7935
21 Siler Hazel Mrs 332-7541
21½ Gillis Sue 335-4743
23 Daugherty Lillie M Mrs ◎ 335-3160
N CHERRY ENDS
101 Coble Orpha Realty Co 335-5056
Powe Alma C Mrs ◎ 335-3328
101½ Siler Douglas L 335-8145
109 Hobart Cabt Co (Stge)
110 Snyder Lester E
111 Hobart Cabinet Co 335-4666
118 Walters E L 332-4006
120 Painter Ronald S 335-6456
N PLUM INTERSECTS
201 Plantz Ivan W Jr
201½ Smith Bobby R 335-3757
203 Vacant
203½ Mohan Jerry
209 County Power Plant 335-8341
215 Eagles Hall
Eagles Fraternal Order Of Miami Aerie No 971 335-7630
Miami Aerie No 971 Ladies Auxiliary (FOE) 335-7630
N SHORT ENDS
301 Scherer Ruth Mrs 335-3216
301½ Peeden Juanita O Mrs
303 Greulich Edith 335-3975
303½ Huffman Robt E
305 Vacant
306 Heath Michl A 332-3135
309 Hines Charles R ◎ 335-6678
309½ Berry Richd A 335-4709
315 Folker Mary E Mrs ◎ 335-6088
316 Babb Webb F ◎ 335-2249
318 West Robt J 335-3509
321 Knoebel Carl L ◎ 335-0342
321½ Wartenbe Lawrence E
324 Williams Roger C ◎ 335-4357
N OXFORD INTERSECTS
403 Kuehnle Emery C Jr ◎ 335-4384
407 Fields Wm B 335-6430
413 Shook Robt F ◎ 335-0178
423 Vesper Dale L 335-2268
425 Mc Curdy May W Mrs ◎ 335-3715
N MONROE ENDS
503 Gillis Mary Mrs ◎ 335-1451
504 Chesley R Roger Jr 332-3405
505 Ray Douglas L 335-2260
507½ Schelkun Thos L 335-3455
509 Johnston Louis A 335-4358
509½ Johnson Louanne Mrs
510 Hobart Bros (Dormitory)
515 Stratton Margt L Mrs ◎ 335-1454
515½ Weisenbarger Eleanor Mrs 335-1638
522 Hobart Bros (Dormitory)
523 Moore Roger 332-4080
523½ Mc Mullen Helen L Mrs 335-0918
ADAMS INTERSECTS
600 Hobart Bros Motor Generator Corp (Ofc) 335-7147

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124½ W. MAIN ST. TEL. 332-7268

W WATER ST—Contd
603 Siler Glenna E Mrs ◎
609 Vacant
615 Johnson Arth ◎
621 Hutchinson Mildred Mrs
Rear De Sacia Robt R
621½ Large Woodrow W Jr 355-3120
JACKSON INTERSECTS
DUER CT BEGINS
HOBART RD BEGINS
701 Hobart Bros Motor Generator Corp (Plant)

2

N ELM ST INTERSECTS
801 Florkey Clarence L ◎ 335-3112
808 Iddings Willard E ◎ 335-4552
814 Ingels Dorothy I Mrs ◎ 335-3301
815 Coleman Charles Jr ◎ 335-2163
817 Siler Ruth B Mrs ◎ 335-8242
820 Kirtley John H ◎ 335-1917
825 Gladman Raymond ◎ 335-3725
826 Miller Saml ◎ 335-3847
N CEDAR ST INTERSECTS
901 Slack Emma M Mrs 335-3687
914 Sweigart Margt M Mrs ◎ 335-3186
HARRISON ST INTERSECTS

4

WAYNE ST —FROM ½ BLK EAST OF PENNSYLVANIA AV WEST THEN NORTH

ZIP CODE 45373
414 Vacant
RIDGE AV INTERSECTS
1030 Farrell Joseph E ◎ 332-3868
1109 Swearingin Michl L 335-1876
1113 Preston Delmar M 335-2090
1115 Young Kenneth
SUMMIT AV INTERSECTS
1117 Hedges Wm R 335-0220
1119 Irvin James W 335-2606
1219 Pearson Velma L Mrs
1221 Tucker Marie A Mrs ◎ 335-2056
LAKE ENDS
1301 Hughes P Saml 335-2633
1305 Niswonger Gary L ◎ 335-2803
1400 Troy-Miami County Health Dept 332-5282
NUMBERED IN REVERSE
328 Niday Hubert 335-4198
329 Vacant
333 Welsh Danny A
335 Vacant
336 Vacant
337 West Harlan
338 Vacant
339 Vacant
341 Langston Robt M 335-2979
500 Highland View Nursing Home Inc 332-2188

9

WEST ST E —FROM 641 S MARKET EAST

ZIP CODE 45373
2 Lou's Decorated Cakes baked gds 335-7611
Long Louise Mrs ◎ 335-7611
6 No Return
12 Pottenger Gladys Mrs
Barnes Charlie E 335-8982
12½ Gunder Janet Mrs 335-1067
13 Stone Larry E ◎ 335-1209
18 Routzong Eleanor ◎ 335-7900
18½ Vacant
22 Gheen Jack E ◎ 335-4623
24 Stapleton Geo A 335-4834
26 State Drivers Examining Sta drivers test 335-1057
S WALNUT INTERSECTS
102 Blackstone Barry W 335-0384
104 Moler Ethel S Mrs 335-4693
108 Massengill Claude E 335-1779
112 Cook Wm H ◎ 332-7501
116 Jones Stella M Mrs ◎ 332-3077
117 Johnson Jimmie L ◎ 335-1409

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E WATER ST—Contd
107 Hufford Zelpha H Mrs ◎ 335-2322
107½★Swartz Robt
111 Laufer Loretta M 335-2118
111½ Dirscherl Margt J Mrs 335-0903
115 Tyminski Edw F ◎ 339-3221
116 Bill's Bicycle Shop 335-1537
Barnthouse Howard D 335-2800
116½★Wenrick Susan 335-7328
121★Spahr C
121½ Rue Charles
124 Girl's Civic League 335-4235
124½ Beemer Lawrence E Jr 335-4233
N MULBERRY INTERSECTS
201 Overfield Tavern Museum historical hse 335-4019
209 Roeth's Appliances Inc elec 335-4331
209½ Pickering Jon 335-2980
210 Hobart Cabt Co (Stge) 335-3018
211½ Wilson Matthew
213 Music Box 335-4247
213½★Massie Ronald
215 Music Box (Addl Space)
B&ORR CROSSES
301 Hobart Cabinet Co 335-4666
N CRAWFORD INTERSECTS
405★Mc Connell Vernon Jr 339-2314
409 Lutz Esther J Mrs ◎ 335-3267
417 Catalano Michl 335-5804
420 Saint Patrick School 339-3705
423 Strine Robt W ◎ 335-2666
431 Brown-Bridge Mills (Stge)
444 Studebaker Bessie M 335-2383
446 Carpenter Robt I 339-4556
450★Johnson May D
NEW ENDS
518 Brown-Bridge Mills Inc gummed paper 335-0561
523 City Board Of Educ Materials Center
N COUNTS ST ENDS

1

WATER ST W —FROM 24 N MARKET WEST

ZIP CODE 45373
9 Bledsoe Bessie Mrs 335-3962
9½★Tweed Tom
19 Daugherty's Hardware 335-7935
21 Daugherty Hdw (Stge)
21½★Flory Elmo
23 Daugherty Margt E ◎ 335-3160
N CHERRY ENDS
101 Coble Orpha Realty Co 335-5056
Powe Alma Coble Mrs ◎ 335-5056
101½ Pearson Bonita A Mrs 335-3315
109 Brewery The (Adl Space)
110 Snyder Lester E 335-1092
111 Brewery The restr 335-7724
N PLUM INTERSECTS
201★Adams Conchetta
201½ May Thos H
203★Williamson Sharon E
203½★Baker C S
209 County Power Plant 335-8341
215 Eagles Hall
Eagles Fraternal Order Of Miami Aerie No 971 335-7630
Miami Aerie No 971 Ladies Auxiliary (FOE) 335-7630
N SHORT ENDS
301 Wilt Helen L
301½ Peeden Juanita O Mrs 335-1787
303 Vacant
303½ Hesselgesser Ondalce 335-2850
305★Ervin Fairy E Mrs
309 Hines Charles R ◎ 335-6678
309½★Avey Harry L
315 Folker Mary Ellen Mrs ◎ 335-6088
316 Babb Webb F ◎ 335-2249
318 West James R 335-3509
321 Knoebel Carl L ◎ 335-0342
321½ Haines Wm
Francis Arnett
324 Heithaus John C ◎ 335-6260
N OXFORD INTERSECTS
403★Svajda Jo Ann
★Dougherty James
★Thompson Sharon
403½★Thompson David E 339-2838
407 No Return
413 Carney
423 Vesper Dale L 335-2268

1975 POLK

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HOBART
PHONE (513) 339-6011 TROY, OHIO 45373 USA

W WATER ST—Contd
425 Mc Curdy May W Mrs ◎ 335-3715
N MONROE ENDS
503 Gillis Mary E Mrs ◎ 335-1451
505 Smith Norman D
507½ Schelkun Thos L 335-3455
509 Johnston Louis A 335-4358
509½ Coppock Kathryn E Mrs 339-4297
510 Hobart Bros (Dormitory)
515 Stratton Margt L Mrs ◎ 335-1454
515½ Weisenbarger Eleanor A Mrs 335-1638
522 Hobart Bros (Dormitory)
523 Materials Center
523½ No Return
ADAMS INTERSECTS
600 Hobart Bros Motor Generator Div (Ofc) 339-6011
603 Siler Mary M Mrs 335-2109
603½★Whalen Gloria S Mrs 335-1360
JACKSON INTERSECTS
DUER CT BEGINS
HOBART RD BEGINS
701 Hobart Bros Motor Generator Div (Plant)

2

N ELM ST INTERSECTS
801 Florkey Clarence L ◎ 335-3112
808 Iddings Willard E ◎
814 Ingels Dorothy I Mrs ◎ 335-3301
815 Coleman Charles Jr ◎ 335-2163
817 Siler Ruth B Mrs ◎ 335-8242
820 Kirtley John H ◎ 335-1917
825 Gladman Raymond ◎
826 Ferguson Henry ◎
N CEDAR ST ENDS
901 Vacant
914 Sweigart Margt M Mrs ◎ 335-3186
HARRISON ST BEGINS

4

WAYNE ST —FROM ½ BLK EAST OF PENNSYLVANIA AV WEST THEN NORTH

RIDGE AV INTERSECTS
1030 Farrell Joseph E ◎ 339-3044
1109 Swearingin Michl L ◎ 335-1876
1113 Vacant
1115 Vacant
1117 Bensman Melvin L 335-0723
1119 Erwin Robt D
SUMMIT AV INTERSECTS
1221 Tucker Marie A Mrs ◎ 335-2056
LAKE ST ENDS
1301 Brooks Ethel Mrs ◎ 335-4220
1305★Davis John W ◎
1400 Troy-Miami County Health Board 335-5675
Troy Miami City Health Department 335-5675
State Air Pollution Control 335-5655
CRESCENT DR BEGINS

9

WEST ST E —FROM 641 S MARKET EAST

ZIP CODE 45373
2 Lou's Decorated Cakes baked gds 335-5328
Long Louise Mrs ◎ 335-5328
6 Flora Earl R
12★Chester Wilma
Brown Arth
12½ Schlosser Robt
13 Leadingham Everett E Jr
18 Vacant
18½ Vacant
22 Hall David K ◎ 335-0612
24 Stapleton Evelyn M 335-4834
26 State Drivers Examining Sta drivers test 335-1057
S WALNUT INTERSECTS
102 Mills Theo B 339-2700
104 Moler Ethel S Mrs 335-4693
108★Greer Danl R
112 Burba Jack R ◎ 335-3479
116 No Return
117 Matzig Peter ◎ 335-0445
S MULBERRY INTERSECTS
S CLAY INTERSECTS
317 Baker Richd E
S CRAWFORD INTERSECTS
Texas Inc (Stge)
403 Vacant (403-20)

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DOWNTOWN OFFICE 215 N. WAYNE ST. 773-0752
EAST MALL BRANCH 1270 EAST ASH ST. 778-1480

E WATER ST—Contd 1

18½ Leon's Beauty Shop 335-4106
21 Hagen Axel 335-4429
23 Wetz Leonard R 339-8393
N WALNUT INTERSECTS
101 Bunch C Gene ◎ 335-8992
107 Hufford Zelpha H Mrs ◎ 339-8123
107½★Garner Danl
111 Laufer Loretta M 335-2118
111½ Dirscherl Margt J Mrs 339-0903
115 Tyminski Judy M Mrs ◎
116 Bill's Bicycle Shop 335-1537
Barnthouse Howard D 335-2800
116½ Barnthouse Howard D II
121★Mathes Freda 335-5494
121½★Kehler Judith L 335-0901
124 Girl's Civic League
124½ Mc Neal Emily H 339-1768
N MULBERRY INTERSECTS
201 Overfield Tavern Museum historical hse
209 Short's Appliances Inc elec 335-4331
209½★Gallagher Danl
210 Hobart Cabt Co (Stge) 335-4666
211½★Snyder Sherry
213 Music Box 335-4247
213½★La Veck Lance R 335-5137
215 Music Box (Addl Space)
CHESSIE SYS CROSSES
301 Hobart Cabinet Co 335-4666
N CRAWFORD INTERSECTS
405 Mc Connell Vernon S Jr ◎ 339-2314
409 Lutz Fred J 335-7983
413 Hysinger Maudie Mrs 335-8740
417 Vacant
420 Saint Patrick School 339-3705
423 Strine Robt W ◎ 335-2666
431 Brown-Bridge Mills (Stge)
444 Vacant
446 Clark Mark A
450 Walker Wm E 339-0773
NEW ENDS
518 Brown-Bridge Mills Inc gummed paper 339-0561
523 City Board Of Educ (Materials Cntr)
622 Wintrow Clinton J 339-2229

WATER ST W —FROM 24 N MARKET WEST

ZIP CODE 45373
9 Weisbrod Alf J lwyr 335-5658
Lindeman Robt J lwyr 335-5658
Thornburgh Wm H lwyr 335-1611
19 Daugherty's Hardware 335-7935
21 Daugherty Hdw (Stge)
21½ Whidden Mary M 339-8670
23 Daugherty Margt E ◎ 339-1160
N CHERRY ENDS
101 Coble Orpha Realty Co 339-5056
Powe Alma C Mrs ◎ 339-5056
101½ Vacant
109 Brewery The (Addn Space)
110 Vacant
111 Troy Brewery Inc The restr 335-7244
N PLUM INTERSECTS
201 Anderson John H 335-2065
201½★Vorst Mary Mrs
203★Huffman Clayton R
203½ Preese
209 County Power Plant 335-8341
215 Eagles Hall
Eagles Fraternal Order Of Miami Aerie No 971 org-benevolent 335-7630
Miami Aerie No 971 Ladies Auxiliary (FOE) 335-7630
N SHORT ENDS
301★Marks Lura A 339-7251
301½ Peeden Juanita
303 Hesselgesser Ondalee
305 Ervin Fairy E Mrs
305½★Clester Debra L
309 Hines Dolly C Mrs ◎ 335-6678
309½★Allred Linda
315 Folker Mary Ellen Mrs ◎ 335-6088
316 Babb Webb F ◎ 335-2249
318 Jackson Douglas 339-4677
321 Knoebel Carl L ◎ 339-0342
321½ Vacant
Francis Emmett
Hanes Wm
324 Phillips Richd J ◎ 339-1387
N OXFORD INTERSECTS

POLK
1980

Wagner Plumbing & Heating
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Pumps, Electric Motors, Oil Burner Service
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W WATER ST—Contd

Caldwell Michl F 339-2545
403½★Smith Craig
407 Creager Barry E
413 Carney Leroy 339-5976
423 Vesper Dale L ◎ 335-2268
425 Mc Curdy May W Mrs ◎ 339-1715
N MONROE ENDS
503★Scully Anthony J
505 Eyler Julia V Mrs
507½ Vacant
509 Johnston Louis A 335-4358
509½ Stryker David ◎ 335-2755
510 Hobart Bros (Dormitory)
515 Stratton Margt L Mrs ◎ 335-1454
515½ Weisenbarger Eleanor
522 Hobart Bros (Dormitory)
523★Lewis Clyde
523½ Brazee Deborah E 339-7142
ADAMS INTERSECTS
600 Hobart Bros Motor Generator Div (Ofc) 339-6011
603 Siler Mary M Mrs 339-7809
603½★Roehm Patricia J Mrs 339-6688
JACKSON INTERSECTS
DUER CT BEGINS
HOBART RD BEGINS
701 Hobart Bros Motor Generator Div (Plant)

2

N ELM ST INTERSECTS
801 Florkey Clarence L ◎ 339-1112
808 Thuney Lyndle M ◎ 335-6670
814 Sherwood Horace D 339-1301
815 Coleman Charles Jr ◎ 335-2163
817 Siler Ruth O Mrs ◎ 335-8242
820 Kirtley John H ◎ 335-1917
825★Wilson Donald R ◎ 335-4004
826 Foston Wm H ◎
N CEDAR ST ENDS
901 Vacant
914 Patterson Saml D ◎ 335-0880
HARRISON ST BEGINS

16

WATERFORD DR

ZIP CODE 45373
2396 Reineke Rickford N ◎ 339-2907
2397 Jonkers Hilbrand J ◎ 339-5910
2398 Buckenberger John H ◎
ST ANDREWS BEGINS
2400 No Return
2402 Feltner Stanley ◎ 339-5158
2403 Creager Linda Mrs ◎ 335-1604
2405 Boyer Aug H ◎ 339-5744
2406 Kindrick John C 339-7311
2407★Redmond Jason J 339-8009
2408 Hazen Robt L ◎ 339-4321
2409 No Return
2410★Sutton James ◎
2411 Shannon Jack 339-8623
2412 Beemer Lawrence E Jr ◎ 339-8833
2413★Avery Ralph E Jr 339-3018
2414 Meiring Lawrence J ◎ 339-8835

4

WAYNE ST —FROM ½ BLK EAST OF PENNSYLVANIA AV WEST THEN NORTH

ZIP CODE 45373
RIDGE AV INTERSECTS
1030 Farrell Joseph E ◎ 339-3044
1109★Frigge John E ◎ 335-0975
1113★Hahn Beverly
1115★Schutz Carl
1117 Moist Marvin S 339-2250
1119 Erwin Robt D Jr 339-4653
SUMMIT AV INTERSECTS
1221 Tucker Marie A Mrs ◎ 335-2056
LAKE ST ENDS
1301 Brooks Ethel E Mrs
1305 Donley Elmer D ◎ 335-8086
1400 Hobart Corp 335-7171
CRESCENT DR INTERSECTS

9

WEST ST E —FROM 641 S MARKET EAST

ZIP CODE 45373
2 Long Norman 339-6549
6 Croft Bernard 335-3335
12★Pegg James M
12½★Wehrkanjp Joseph T
13 Browning Walter E ◎ 339-9280
18★Burnside Linda E Mrs
18½ No Return
22★Thrasher Doyle L ◎ 335-2218

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AND A FULL LINE OF PET SUPPLIES
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S WALNUT ST—Contd
1107 Wilson Ruth B Mrs ◎ 339-3022
S MARKET ST INTERSECTS

2

WASHINGTON ST —FROM 132 N ELM WEST

ZIP CODE 45373
818 Woodrow Larry G 339-6589
820 Lewis Richd S
821 Staggers Kath L ◎ 339-7165
823 Moore Carol
829★Fields Lori M
830 Rogers Rosetta L Mrs ◎ 335-0955
836 Vacant
837 Burns Marion T ◎ 335-6767
840 Williams Michl M Rev
HARRISON ST INTERSECTS
909★Myers Bryan K 335-3345
911 Bradford Hazel M Mrs ◎ 339-4856
913 Moton Herbert F ◎ 335-6635
917 Vacant
920★Corbett Vicky L 335-2211
921 Vacant
924★Noble Kenneth L
929 Vacant
933 Noble David ◎ 335-3471
MADISON ST INTERSECTS

11

WATER ST E —FROM 125 N MAIN EAST

ZIP CODE 45373
3 Green & Mc Gee Insurance Agency Inc 339-3211
5 Evans Michelle
7 Trojan Florist 339-2206
7½★Olson Neal
13 Allen Oscar III
13½ Collett Elise E Mrs 339-5175
16 Klockner Richard W & Associates Inc civil engs 339-5331
16½ Vacant
17 Leath Robt D 335-1763
18 Thornburgh Wm H Co lwyr 335-1611
18½★Braun James
21 Weisenbarger Eleanor A 335-1638

N WALNUT INTERSECTS
101 Bunch C Gene ◎ 335-8992
107 Hufford Zelpha M Mrs ◎ 339-8123
107½ Vacant
111 Laufer Loretta M mus tchr ◎ 335-2118
111½ Dirscherl Margt J Mrs 339-0903
115★Mahan Joseph A
116 Bill's Bicycle Shop 335-1537
Bill's Bicycle Shop (Stge)
121 Mathews Freda 335-5494
121½ Dyas Theresa A 339-6575
124 Girl's Civic League
124½ Mc Neal Emily H 339-1768
N MULBERRY INTERSECTS
201 Overfield Tavern Museum historical hse 335-4019
209 Horner's Corner Ceramic Studio 339-6772
210 Steel Furniture Components Inc
211½★Lilly James R
213 Richardson's Carpet 335-6800
213½★Larck Charles
215 Richardson's Carpet addl sp
CHESSIE SYS CROSSES
301 Hobart Cabinet Co steel furniture 335-4666
N CRAWFORD INTERSECTS
405 Mc Connell Vernon S Jr ◎ 335-0712
409 Hobart Edmund F M 335-3636
413 Vacant
420 Saint Patrick School 339-3705
423★Thorpe Richd
450 Walker Wm E
NEW ENDS
518 Brown-Bridge (Div Of Kimberly Clark) paper 339-0561
523 City Board Of Educ (Educational Tech Center) 335-8801
N COUNTS ST ENDS

1

WATER ST W —FROM 24 N MARKET WEST

ZIP CODE 45373
9 Weisbrod Alfred J Co L P A lwyrs 335-5658
19 Vacant

Trojan Florist
Flowers For All Occasions - Flowers Wired Anywhere
7 E. Water St. 339-2206 Troy, Ohio 45373

W WATER ST—Contd
23 Daugherty Margt E ◎ 339-1160
N CHERRY ENDS
101 Powe Alma C Mrs ◎ 339-5056
101½ Myers Barbara M Mrs 339-6832
109 Dugan John J ins 335-5751
International Improvement Corp investments 335-5323
Inlaco Inc investments 339-4847
Point Market Inc gro ofc 339-4847
Indian Lake Shopping Guide newspaper 339-4847
111 Brewery The restr 335-7407
N PLUM INTERSECTS
201 Gallow Patsy M Mrs
201½★Tavenner E Frank
203 Vacant
203½ Vacant
209 County Power Plant 335-8341
215 Eagles Hall
Eagles Fraternal Order Of Miami Aerie No 971 org-benevolent 335-7630
Miami Auxiliary No 971 (FOE) 335-7630
N SHORT ENDS
301★Acel Jas R 339-9539
301½★Peeden Juanita 339-7787
303 Vacant
303½★Hesselgesser Ondalee
305 Ervin Fairy E Mrs
309 Hines Dolly C Mrs ◎ 335-6678
309½★Ahler Anthony
315 Vacant
316★Richardson Jas V
318★Mc Closkey Nancy C Mrs 339-6583
321 Long Debbie J
King Audrey
Shaw Phyllis
★Walker Carla
Hereford Karen
Vacant
321½ Wartenbe Lawrence E ◎ 339-0342
324 Phillips Richd J ◎ 339-1387
N OXFORD INTERSECTS
403 Collins
★Brown Richd G
★Skinner Robt E
407 Bousner John R ◎ 335-1215
413 Carney R Leland ◎ 339-5976
423 Vesper Dale L 335-2268
425 Mc Curdy May W Mrs ◎ 339-1715
N MONROE ENDS
503 Scully Pearl Mrs 339-5877
505★Vesper Leslie A 335-2677
507 Wright Roy V 339-3485
509 Johnston Louis A 335-4358
509½ Stryker David ◎ 335-2755
515 Stratton Margt L Mrs ◎
515½ Wingert Howard
523 Vacant
523½ Vacant
ADAMS INTERSECTS
600 Hobart Bros Motor Generator Div (Ofc) 339-6011
JACKSON BEGINS
701 Hobart Bros Motor Generator Div (Plant)

2

N ELM ST INTERSECTS
801 Florkey Jennie E Mrs ◎ 339-1112
808★Kinnel Ida E Mrs
814 Sherwood Doris I Mrs ◎ 335-3474
815 Coleman Linda C Mrs ◎ 335-2163
817 Lutz Louis 335-7057
820 Kirtley Phyllis C Mrs ◎ 335-1917
825 Wilson Donald R 335-4004
826 Vacant
N CEDAR ST ENDS
901 Oldham Jesse ◎ 339-7400
914 Stroud Mada
HARRISON ST BEGINS

16

WATERFORD DR

ZIP CODE 45373
2396 Green Wm R ◎ 339-2207
2397 Perry Vicki V
2398 Vacant
ST ANDREWS BEGINS
2400 Campbell Jas H ◎ 339-4679
2402★Lindeman David R 339-5431
2403 Creager Linda Mrs ◎ 335-1604
2405 Boyer Aug H ◎ 339-5744

Building & Savings Association
DOWNTOWN: 210 WEST MAIN STREET TEL. (513) 335-567
WESTSIDE: 1590 WEST MAIN STREET TEL. (513) 339-848
NORTHSIDE: 927 NORTH MARKET STREET TEL. (513) 339-500

Polk 1990

Schnell's PLUMBING, HEATING & AIR CONDITIONING, INC.
"Continuous Service Since 1898" - A Kohler Registered Showroom
12 EAST CANAL ST., 45373
TEL. (513) 339-5001

HINES BUILDERS INC.
COMMERCIAL • INDUSTRIAL
CRANE SERVICE • CUSTOM PALLETS • PACKING MATERIAL
Lytle Rd., P.O. Box 414 45373 Tel. (513) 335-4586, FAX (513) 339-1694

S WALNUT ST–Contd
908 Anderson Michael 339-0084
909 Brand Elmer F ◎ 339-7816
914 Elliott Jeffrey D ◎ 335-4847
917 Hobson James L ◎ 339-2510
920 Denoyer David E ◎ 335-1661
926 Tucker James E ◎ 335-6959
929 Vacant
930 Johnson Leo ◎ 339-7271
933 Mc Clelland Lewis S ◎ 335-4070
E ROSS INTERSECTS
1003 Johannes Jas E ◎ 335-3172
1004★Murphy David 339-0587
1006★Thompson Richmond W 335-2399
1007 Boggs Grover E Jr ◎ 335-3171
1008★Browning Charles W ◎
1010 Burba Margt A Mrs ◎ 339-1479
1013 Bernhardt Francis J ◎ 339-1659
1013½ Rahbek Wm D 339-0273
1016 Vacant
1017 Faulkner Bobbie R Mrs ◎ 335-2749
1020★Frydell Gil A ◎ 339-3929
1021 Barker Jas S ◎ 339-0426
ENYEART ST ENDS
1100 Gray Dorothy C 335-3911
1101 Vacant
1105 Berning Cletus W ◎ 339-9600
1107 Dunfee Verl A ◎
S MARKET ST INTERSECTS

WASHINGTON ST –FROM 132 N ELM WEST 2

ZIP CODE 45373
818 Vacant
820 Lewis Richd S
821 Staggers Kath L ◎
823 Plantz Marlan D ◎ 339-8733
829 Parks Jacqueline
830 Rogers Rosetta L Mrs ◎ 339-2554
836 Vacant
837 Burns Marion T ◎ 335-6767
840★Vernon Christina
HARRISON ST INTERSECTS
909 Myers Brian K 335-3345
911 Bradford Hazel M Mrs ◎ 339-4856
913 Moton Herbert F ◎ 335-6635
917 Harris Gertie L
920 Vacant
921 Mills Walker 339-4360
924 Corbett Vicky L 335-2211
933 Noble David ◎ 335-3471
MADISON ST INTERSECTS

WATER ST E –FROM 125 N MAIN EAST 11

ZIP CODE 45373
3 Mc Gee-Doyle Insurance Agency 339-3211
5 Vacant
7 Trojan Florist 339-2206
7½ Vacant
13★Allen Bud 339-2336
13½ Collett Elisa E 339-5175
16 Klockner Richard W & Associates Inc civil engs 339-5331
16½★Murphy Keith 335-5329
17 Leath Robt D 335-1763
18 Thornburgh Law Offices 335-1611
18½ Gustin Florence P Mrs
21★Lowery Michl I
23★Coate Douglas R
N WALNUT INTERSECTS
101 Bunch C Gene ◎ 335-8992
107 Vacant
107½ Brown Nancy L
111 Laufer Loretta M mus tchr ◎ 335-2118
111½ Dirscherl Margt J Mrs 339-0903
115 Matz Robt P
116 Bill's Bicycle Shop 335-1537
121 Mathews Freda Mrs 335-5494
121½ No Return

STILLWATER MICROSYSTEMS, INC.
Computers - Networking
Business & Industry
Riverside Place / Miami Valley Centre
PHONE: (513) 778-0044
987 E Ash St., Piqua, OH

Trojan Florist
Flowers For All Occasions - Flowers Wired Anywhere
7 E. Water St. 339-2206 Troy, Ohio 45373

E WATER ST–Contd
124 Museum of Troy History 335-4188
124½ Mc Neil Emily Mrs 339-1768
N MULBERRY INTERSECTS
201 Overfield Tavern Museum historical hse 335-4019
209 Horner's Corner Ceramic Studio 339-1154
209½ Vacant
210 Colman Industries shelving & stge splst 335-5800
211½ No Return
213 Richardson's Carpet 335-6800
213½ Barnes Lawernce 335-2670
CHESSIE SYS CROSSES
301 Hobart Cabinet Co steel furniture 335-4666
N CRAWFORD INTERSECTS
405 Henn Jos T ◎ 335-1133
409 Chandler Harold D
413 Line Ronald E ◎
420 Saint Patrick School 339-3705
423★Ott Kim L 335-5467
NEW ENDS
518 Brown-Bridge (Div of Kimberly Clark) paper 339-0561
523 City Board of Educ (Educational Tech Center) 332-6795
N COUNTS ST ENDS

WATER ST W –FROM 24 N MARKET WEST 1

ZIP CODE 45373
9 Weisbrod Law Office 335-5658
19 All Occasion Ballon & Party Shop 339-0306
21 Vacant
21½ Ingle Jeffrey
23 Daugherty Margt E ◎ 339-1160
N CHERRY ENDS
101 Dugan John J ins agt 335-5751
101½ Gawronski David E 339-5143
109 Miami County Mental Health Center extended services program 339-2889
111 Brewery the restr 335-7407
N PLUM INTERSECTS
201 Vacant
201½ Vacant
203 Vacant
203½ Vacant
209 County Power Plant 335-8341
215 Vacant
N SHORT ENDS
301★Donahue Jas J
301½ Peeden Juanita 339-7787
303 Martz Alen 339-4670
303½ Hesselgesser Ondalee
305 Ervin Fairy E Mrs
309 Cornelisse David C ◎ 335-0844
315★Altic K S 335-0958
316 Clutter Julia M Mrs
318 Breeze Dale A
321 Knoebel Carl L ◎ 339-0342
324 Phillips Richd J ◎ 339-1387
N OXFORD INTERSECTS
403 Apartments
A Vacant
B Vacant
C Vacant
D Vacant
407 Vacant
413 Carney R Leland ◎ 339-5976
423 Vesper Dale L ◎ 335-2268
425 Vacant
N MONROE ENDS
503 Scully Pearl Mrs ◎ 339-5877
505 Vesper Leslie A 335-2677
509 Vacant
509½ Stryker David ◎ 335-2755
515 Wingert Howard E ◎ 339-0549
515½★Landis Chris 335-4231
523 Vacant
523½ Hoffelfingery Florence
ADAMS INTERSECTS
600 Hobart Bros Motor Generator Div (Ofc) 339-6011

Galbreath Better Homes and Gardens®
TROY TIPP CITY WEST MILTON PIQUA HUBER HEIGHTS CELINA

LOYAL ORDER OF MOOSE
TROY LODGE NO. 1044
Roger L. Ashcraft, Administrator
16 W. FRANKLIN ST.
TROY, OH 45373

Stillwater TECHNOLOGIES INC.
104 Foss Way, Troy, Ohio 45373
339-7561

Polk
1995

S WALNUT ST–Contd
534½ Not Verified
• RAPER ST INTERSECTS
601-610 Not Verified (6 Hses)
612★Bundy L 339-4374
• CHESSIE SYS CROSSES
613 Lutz Sharon [9]+ ⊙ 339-4132
617 Adkins Rebecca V [2] 335-3505
618 Not Verified
621 Burnside Charles D [9]+ ⊙ 339-3337
Burnside Barbara A 339-3337

• E WEST INTERSECTS
700 FELTNER'S CARRY OUT addl sp
700½ Dunn Kim [5]
702 Brown Laura D [5]
710 FELTNER'S CARRY OUT stge
713★Ritchie Tina M 339-1948
718 Mc Kinney Roscoe E [9]+ ⊙ 335-8214
719 TROY PLMB STGE
723 TROY PLMB stge
724 POWELL'S LANDSCAPING stge
804 DAVIS DON CUSTOM LAWN CARE lawn care mtce 335-2805
Davis Donald L Jr & Nancy A [4] ⊙ 335-2805
805 Under Constn
808 Cain Danl W & Brenda S [4] ⊙ 339-5216
811 Vacant
812 Lutz Thos E & Kathy J [9]+ ⊙ 339-1563
817-820 Vacant (2 Hses)
823 Stump Doris J [9]+ ⊙ 339-0448
Landry John M 339-0448
Genl B2357 335-5231
824 Lacey Trent L [2] ⊙ 335-5231
• YOUNG ST INTERSECTS
902 Stafford Thos L & Linda K [9]+ ⊙ 339-3726
903 Caldwell Charles D & R Jean [9]+ ⊙ 335-3040
907 Hufford Keith D [2] 335-6775
908 Anderson Michael & Kim [7] ⊙ 339-0084
909 Brand Elmer F & Ada [9]+ ⊙ 339-7816
914★Hatton Stephen N & Terry L ⊙ 335-5159
917 Hobson James L & Mary E [9]+ ⊙ 339-2510
920 Denoyer David E & Shawn L [5] ⊙ 335-1661
926 Tucker James E [9]+
929 Scott D Arlene [9] ⊙
930★Jacob Robert M 339-8239
933 Mc Clelland Lewis S & Kathleen A [9]+ ⊙ 335-4070
Moreland Marshall 335-4070
• E ROSS INTERSECTS
1003 Hill Todd A & Christy M [2] ⊙ 339-0834
1004★Harbour Eric S & D'Ann 335-0649
1006★Morrison Richd L II & Jamie L 335-8190
1007 Boggs Grover E Jr & Linda R [7] ⊙ 335-3171
1009 Browning Charles W & April [4] ⊙ 335-1710
1010 Melvin Chas C & Pamela S [2] ⊙
1013 Bernhardt Francis J & Dorothy A [9]+ ⊙ 339-1659
1013½ Vacant
1016 Schultz Pamela J [2] 339-1984
1017 Faulkner Bobbie R [9]+ ⊙ 335-2749
1020 Swindell Joshua M & Teresa A [2] ⊙
1021 Barker Jas S & Geneva M [9] ⊙ 339-0426
Barker Vicki L 339-0426
• ENYEART ST INTERSECTS
1100 Gray Dorothy C [7] ⊙ 335-3911
1101 Walters Howard G & Mary E [3] ⊙
Walters Timothy H
Barker Howard
1105 Berning Cletus W & Mildred M [9]+ ⊙ 339-9600
1107 Dunfee Verl A & Jill L [7] ⊙ 339-6363
• S MARKET ST INTERSECTS
92 HOUSEHOLDS
6 BUSINESSES

101

WALNUT ST W (TIPP CITY)–FROM 23 N 3D ST WEST

• **ZIP CODE 45371**
10★Smith Tonya ⊙
Rohles Robt
14 Conley M B [2] 667-2708
18 Givens Mark & Joann [2] 667-2486
19★Lee David 667-7553
27 Magaw Vivian E & Ruth P [2] ⊙ 667-2047
31 Lewis Richard I & Naomi [2] 667-2864
• N FOURTH ST INTERSECTS
107 Collins Victor S & Rose A [2] ⊙ 667-6383
109 Martin Jack C [2]
112 Manning Paul K [2] 667-1127
115 Lytle M Ruth [2] ⊙ 667-1757
118 Putnam Kenneth P & Tina R [2] 667-8438
119 Church Everett G [2] ⊙
• NEW ST INTERSECTS
1 Mills Johnna L [2]
2 Garland Gary D [2]
3 Not Verified
130 Vacant
• C S X RAILROAD INTERSECTS
201 Not Verified
208 Hancock Steve A & Stephanie J [2] ⊙ 667-7827
210 Vacant
218 Allen Matthew H [2]
219 Brown William E & Karen [2] 667-5434
227 Behm Stephen W & Nancy L [2] ⊙ 667-5536
223★Denney Norma M
• N 6TH ST INTERSECTS
303 BORCHERS CONSTRUCTION CO
308 Cleckner Helen F [2] ⊙ 667-3953
310★Miller Ruth A 667-3553
Miller Robt E 667-3553
312 Johnson George & Reogene E [2] ⊙ 667-2326
313 Cleckner Jerry L & Karen A [2] 667-2569
Cleckner Karen A 667-2569
Clemens J Scott 667-2569
316★Laux Mark
9 319 Not Verified
319½ Vacant
320 Springer Timothy A & Tammy S [2] 667-4668
326 Ousley Robert R [2]
327★Lipton Phillip M & Nancy S ⊙ 667-3179
• N SEVENTH ST INTERSECTS
411 Anthony Larry R & Klara Mae [2] ⊙ 667-6940
415 Howard Robert G & Lorayne A [2] ⊙ 667-5202
Howard Amanda C 667-5202
416 Bayman Georgia C [2] ⊙ 667-8855
418 Roth Steven E & Beverly [2] ⊙
419 Trent Douglas K [2] ⊙ 667-7782
423 Sharp Rebecca Z [2] 667-2604
426 Eickhoff Mark W & Carol J [2] ⊙ 667-8187
430 Statesman James C [2]
431 Ledford Marjorie L [2] ⊙ 667-6239
435 Rayman Mary E [2] ⊙ 667-6110
436★Thomas Roger A
436 Not Verified
445 Surber Joan M [2] 667-8147

514★Lux Rebecca A 667-5538
518 Not Verified
516★Bryson Brian
519 Penrod Barbara J [2] 667-2544
520★Klein Peggy A 667-6125
521★Hicks Howard & Cheryl
522 Trissell Kristie A [2] 667-2357
523★Curtis Paul & Joan
525★Rich Thos
★Kimes Jennie
526 Not Verified
528 Vacant
529★Thunderbird Eric & Renee
530★Doshi Ketan & Rupande 667-3897
532 Diehl Lori L & Neil H [2] 667-3111
532 Not Verified
536★Mastrino Sean & Laura
538 Olinger Teresa L [2]
540★Comer Tammy
542★Zuber Jodi
Frith Teresa
546 Creger Dennis E [2]
550★Madden Debbie
601★Ehlers Tammy
602 Thornbury Jimmie [2] 667-1641
603 BELL VIEW APARTMENTS 667-6513
606 Slattery Douglas M [2] 667-8139
607★Small Dennis
609★Hewett Carolyn J 667-2807
Cavannaugh Cherl K 667-2807
610★Vickers Benjamin & Maria mfrs rep
611★Rose Laurel D 667-5080
A★Bevan Michl
B★Mc Clellan Benny
612 Gilbert Bryan E [2]
614 Adkins Sandra K [2] 667-2621
615 Bell Shelia A [2] 667-9319
616★Applegate Michl 667-7924
617 Copeland Vickie L [2]
Tschirhart Roxanne
618★Pridemore Lisa M
619 Not Verified
621★Potts Sherry L 667-7475
• MAYNARD DR INTERSECTS
622 Vacant
624★Perdue Penny
626 Lucous Rick A & Leslie S [2] 667-1363
628★Bilhimer Jeffrey & Tracey 667-9883
632★Smith Craig & Brenda
634★Baker Kimberly
635 Vacant
636★Feeny Thos G & Kimberly R 667-2271
637 Furrow Patsy A [2] 667-8176
639 Akins Fred M [2] 667-5490
641★Smith Tracy L
• BOWMAN AV INTERSECTS
• MILES D INTERSECTS
88 HOUSEHOLDS
2 BUSINESSES

103

WARNER DR (TIPP CITY)–FROM 46 TIPPECANOE DR WEST

• **ZIP CODE 45371**
6 Wolfe Rebecca E [2] 667-6224
13 Wackler [2]
14 Boehrer Avis J [2] 667-3776
19 Patzek Michael J & Jill [2]
20★See Lauren M ⊙ 667-2116
27 Mealy Fae [2] 667-6116
28 Legner Amy E [2] 667-7158
35 Storck Robt H & Betty A [2] 667-2757
35 Obryant James L [2] 667-2149
43★Campbell Philip B & Carp ⊙ 667-5831
44 Teague Richd J & Shari J [2] 667-1690
52 Francis Leonard L & Faye [2]
53★Meador Ray & Judy
60 Martin Donald L & Beverly [2] 667-8298
Welder Debra M 667-8298
68 Taylor Joseph H & Betty L [2] ⊙ 667-2623
80 Brockert Richard W & Caroline A [2] ⊙ 667-2273
81 Pittman Rachel J [2] 667-6779
17 HOUSEHOLDS

2

WASHINGTON ST –FROM 132 N ELM WEST

• **ZIP CODE 45373**
818 Vacant
820 Lewis Cynthia K [9]+
Metz Deon Q
821 Staggers Kathleen L [9]+ 339-0311
Young Dawn A 339-0311
Staggers Jason D 339-0311
823★Merle Jos C
829 Parks Jacqueline E [5]
830 Rogers Rosetta L [9]+ ⊙ 339-2554
837 Burns Marion T & Ahletta M [9]+ ⊙ 335-6767
840 Not Verified
• HARRISON ST INTERSECTS
909★Mc Graw Orville O & Melinda K
911 Bradford Hazel M [9]+ ⊙ 339-4856
913-917 Not Verified (2 Hses)
920★Alexander Sheila
921★Jones Ralph
103 924 Corbett Vicky L [6] 335-2211
PERFORMANCE AUTOMOTIVE 339-6886
Rear Vacant
933 Noble David & Ethel J [9]+ ⊙ 335-3471
• MADISON ST INTERSECTS
14 HOUSEHOLDS
1 BUSINESS

11

WATER ST E –FROM 125 N MAIN EAST

• **ZIP CODE 45373**
3 MC GEE-DOYLE INSURANCE AGENCY 339-3211
6 Not Verified
7 TROJAN FLORIST 339-2206
13 Allen Bud [4] 339-2336
13½ Collett E E [5] 339-5176
16 KLOCKNER RICHARD W & ASSOCIATES INC civil engs 339-5331
16½ Murphy Keith [4] 335-5329
17 Leath Robt D [9]+ 335-1763
18 THORNBURGH LAW OFFICES 335-1611
THORNBURGH WM H lwyr 335-1611
THORNBURGH NANCY lwyr 335-1611
★Hondros Christon
18½ Bleckinger Martin [2]
21-23 Not Verified (2 Hses)
• N WALNUT INTERSECTS
101 Bunch C Gene [9]+
107 Lewis Janet L [2] ⊙ 335-0735
107½ Not Verified
111 Laufer Loretta M mus tchr ⊙ 335-2118
111½ Dirscherl Margt J [9]+ 339-0903
115★Baker Kendra R 335-6923
Jenks Diane 335-6923
116 Vacant
116a Carey Ronald L & Deloris M [2] 335-2366
116b Welker Donna [2]
Welker Ty
121-121½ Not Verified (2 Hses)
124 MUSEUM OF TROY HISTORY 335-4188
124½★Shepard B G 339-0545
• N MULBERRY INTERSECTS
201 OVERFIELD TAVERN MUSEUM historical hse 335-4019
209 HORNER'S CORNER CERAMIC STUDIO 339-6772
209½ Horner Robt L & Betty A [2] ⊙ 339-6772
210 Vacant
213 RICHARDSON'S CARPET INC 335-6800
213½ Barnes Lawernce & Dorothy S [7] 335-2670
• CHESSIE SYS CROSSES
301 HOBART CABINET CO steel furniture 335-4566
• N CRAWFORD INTERSECTS
405 Tucker Anita J [2] 335-1427
409-413 Not Verified (2 Hses)
420 SAINT PATRICK SCHOOL 339-3705
423 Ott Kim L [4] 335-5467
• NEW INTERSECTS
518 BROWN-BRIDGE div of kimbrly clark 332-6500
523 City Board of Educ 332-6795
• N COUNTS ST INTERSECTS
22 HOUSEHOLDS
13 BUSINESSES

1

WATER ST W –FROM 24 N MARKET WEST

• **ZIP CODE 45373**
9 WEISBROD & LOPEZ CO L P A 335-5658
WEISBROD ALF J lwyr 335-5658
19 Vacant
21 Vanchure Brenda S [2] 339-4675
Clegg Dave 339-4675

HOLDS 17

339-9878
335-3017
335-1987
335-1186
339-2118
339-8345
335-2647

335-1186
339-1805
335-2573
339-4791
339-4791
339-8419

335-7670

335-1515
339-3198
339-0712

335-7984
339-2027
339-4638
339-2571
339-3762
339-7847
339-7847
339-2768
335-6504
335-6504
339-7833
339-7833

339-6820
335-7719
335-7719

EHOLDS 30
M 2399

■
335-1979
335-1979
335-3634
339-3746
335-9789
335-9789
339-9951
335-0371

339-5738
339-4905
335-2162
335-0878
335-2631
335-3968
335-3968
335-8579
335-8579

335-6484
335-6484
339-5849
339-5849
332-0820
INS
EHOLDS 20

ELM ST

WASHINGTON ST (T)
Ⓜ Wells Rhonda J
820 Catlin Lynn A [3]
821 Staggers Katherine L [9]+ ■ 339-0311
Staggers Vander L 339-0311
823 Merle Joseph C Sr [2]+ ■
824 Baker David A & Nancy [9]+ ■ 335-1214
829 Parks Jacqueline E [9]+
830 Rogers Nanci E [9]+ ■ 339-2554
Rogers Rosetta L 339-2554
837 Burns Ahletta M [9]+ ■ 335-6767
Burns Tracia C 335-6767
840 8BⓂ Wiggins Pamela S
+ ***HARRISON ST INTERSECTS***
909 McGraw Orville O & Melinda [6]
913 Michael Robert E & Victoria [9]+ ■
917 McCoy Janet M [9]+
921 Alford Richard J [4] 332-9246
924Ⓜ Burton Scott 339-4886
933 Noble David & Ethel [2]+ ■ 335-3471
+ ***N MADISON ST INTERSECTS***
HOUSEHOLDS 16

E WASHINGTON ST (TROY)-
· ZIP CODE 45373 CAR-RT C003

719 MIAMI CONSERVANCY DISTRICT GARAGE
auto repr shops 335-6049
+ ***N ELM ST INTERSECTS***
+ ***WASHINGTON ST BEGINS***
BUSINESSES 1

N WASHINGTON ST (WEST MILTON)-FROM 2 S WASHINGTON ST NORTH
+ ***E HAMILTON ST ENDS***
+ ***E NORTH ST ENDS***
· ZIP CODE 45383 CAR-RT C002

102 MASONIC LODGE NO 577 fraternal assns
..... 698-4996
BUSINESSES 1

S WASHINGTON ST (WEST MILTON)-FROM 2 N WASHINGTON ST SOUTH
+ ***E HAMILTON ST ENDS***
+ ***E FRONT ST ENDS***
· ZIP CODE 45383 CAR-RT C001

100 Utz Ronald B [9]+ ■ 698-4551
Utz Mary 698-4551
110Ⓜ Sullivan Michael L 698-9278
120 Tinkle Chris E [9]+ ■ 698-7106
126Ⓜ Lucous J 698-8216
1 Not Verified
2 Patterson Brandy J [3] 698-9282
3 Not Verified
130 Achor Linda H [9]+ ■
140Ⓜ Collier Patricia L ■
+ ***CARPENTERS ALY INTERSECTS***
+ ***E 2ND ST ENDS***
200 Utz Mary K [9] ■
250Ⓜ Orme Matthew 698-9271
Orme Matthew B 698-9271
252 Not Verified
+ ***E MARKET ST ENDS***
400 Ratliff Sandra K [9]+ 698-3305
Ratliff Ty L 698-3305
1 Not Verified
2 Clark Debra S [3]
3 Rathiff Sandra K [2]
406 Cox Michael W [9]+ ■ 698-3414
Cox Roberta J 698-3414
Griffith Margaret L 698-3414
+ ***E SOUTH ST ENDS***
HOUSEHOLDS 18

W WASHINGTON CONCORD (COVINGTON)-
· ZIP CODE 45318 CAR-RT R003

3300 MORROW LARRY 339-3900
3720 WOLFE FARMS corn farm 335-6144
BUSINESSES 2

W WASHINGTON CONCORD RD (COVINGTON)-FROM 4401 N WASHINGTON RD WEST
· ZIP CODE 45318 CAR-RT R003

3300 Morrow Cassandra E [9]+ ■ 339-3900
3305 Morrow Linda A [9]+ 335-6481
Morrow Ralph E 335-6481
+ ***N STILLWELL RD BEGINS***
3420 Holfinger Robert E [9]+ ■ 335-6471
Holfinger Evelyn L 335-6471
3720 Wolfe Carlos D [9]+ ■ 335-6144
3900Ⓜ Ewick Byron H Jr 335-3371

W WASHINGTON CONCORD RD (
HOUSEHOLDS 5

WASHINGTON NEWBERRY RD (COVINGTON)-FROM 5899 W BROWN RD NORTH
· ZIP CODE 45318 CAR-RT R002

5850 Staton Eugene C & Charlotte [9]+ ■
..... 473-5346
6095 Smith Dale A [7] ■
Smith Stacy D
+ ***NEWBERRY WASHINGTON RD BEGINS***
HOUSEHOLDS 2

WATER ST (FLETCHER)-FROM 2 N WALNUT ST WEST

WATER ST (WEST MILTON)-FROM 2 WALNUT ST WEST
· ZIP CODE 45383 CAR-RT C001

25 Crew Phillip [7] ■ 698-4515
28 Sager Dennis J & Virginia [9]+ ■ 698-3520
30 Winemiller Monica R [9]+ ■
39 Beetley Terry E & Charlene [9]+ ■ 698-6210
BEETLEY TERRY CONTR & BLDR religious bldg constn 698-6210
+ ***MAPLE ST BEGINS***
100 Netzley Allen L & Linda [9]+ ■ 698-6556
155 Settles James M & Theressa [9]+ ■
203 Beetley Margaret L [9]+ ■ 698-3423
205 Overbay Henry M & Helen [8] ■ 698-4100
207 Seman Linda C [9]+ ■ 698-5174
Seman Julia A 698-5174
208 Tormey Randolph T [9]+ ■ 698-3402
Tormey Sue L 698-3402
209 Wooddell Donna M [6] ■ 698-8061
Wooddell Brian M 698-8061
211 Anderson Joyce A [8] ■ 698-5592
213 McKibben Larry D [9]+ ■ 698-5168
+ ***S JAY RD INTERSECTS***
BUSINESSES 1 HOUSEHOLDS 13

E WATER ST (TROY)-FROM 101 N MARKET ST SOUTHEAST
+ ***W WATER ST BEGINS***
· ZIP CODE 45373 CAR-RT C016

3 MCGEE DOYLE INSURANCE AGENCY ins agts brokers'serv 339-3211
5 Meyer James L [4]
5½ Zanow Mary J [3] ■
Zanow Tenishia S
7 Harrellson June [7] ■
TROJAN FLORISTS florists 339-2206
13 Allen Oscar W III [9]+ 339-2336
Allen Bud 339-2336
H Not Verified
13½ Collett Elise E [9]+ 339-5175
Collett Ray H 339-5175
16 KLOCKNER RICHARD W & ASSOCIATES engineering serv 339-5331
16½ Not Verified
17Ⓜ Leath Robert D 335-1763
18 Beitzel David E [5] ■ 335-8846
Clark Christopher D 335-5658
Lopez Jose M [5] 335-5658
Lopez Osiel 335-5658
LOPEZ BEITZEL SEVERT PRATT LPA atty
..... 335-5658
Pratt Andrew R 335-5658
Severt Todd D 335-5658
Thornburgh William H 335-1611
3-4 Not Verified (2 Apts)
21 Crotinger Kristina L [2] 332-0091
Crotinger Joseph A 332-0091
23Ⓜ Lewis Vincent S 335-5137
Lewis Tomi E 335-5137
+ ***N WALNUT ST INTERSECTS***
101 Bunch Mildred L [9]+ ■ 335-8992
107ⓂO'Shields Julie 339-1141
111 H Not Verified
111½ Kinder Michael D [3] 339-4276
115Ⓜ Fox Kendra R 335-6923
116 Carey Ronald L 335-2386
Wilhelm Diane K [5]
121 Tavern Overfield [2] ■
124 MUSEUM OF TROY HISTORY museum
..... 335-4168
124½ Shepard B G [3] 339-0545
+ ***N MULBERRY ST INTERSECTS***
201 OVERFIELD MUSEUM tourist attraction
..... 335-4019
209 HORNER'S CORNER ceramics sup.. 339-6772

Ⓜ NEW NEIGHBOR

E WATER ST (T)
210 INDEPENDENT MACHINE & TOOL..
ULTIMATE TOOL & GAGE COMPANY shop jobbing'repr .....
213½ Barnes Lawrence E [9]+ .....
+ ***RAILROAD CROSSES***
301 HOBART CABINET COMPANY ofc furn
.....
+ ***N CLAY ST ENDS***
+ ***N CRAWFORD ST ENDS***
405 Hile Karen K [7] ■ .....
409 Karnehm Gary L & Julia [6] ■ .....
413-420 Not Verified (2 Hses)
420 AUXILIARY SERVICES .....
423 Not Verified
+ ***NEW ST ENDS***
518 SPINNAKER COATINGS labels .....
523 TROY CITY ED TECH CNTR-CHANNE
.....
523 Not Verified
+ ***N COUNTS ST ENDS***
BUSINESSES 13 HOUSE

W WATER ST (TROY)-FROM 101 N MARK NORTHWEST
+ ***E WATER ST BEGINS***
· ZIP CODE 45373 CAR-RT C007

9 HARVEY RANDAL A atty .....
21 Brant John F [9]+ ■ .....
Brant Linda M .....
21½ Ingle Jeffrey E [9]+
23 Daugherty George [9]+ ■ .....
Daugherty Margaret E .....
+ ***N CHERRY ST ENDS***
101 AMOS PRESS newspapers .....
BENEFITS ANALYSIS COMPANY ..
CARRIAGE TRADE .....
COONS-MAGOTO BUILDERS sngle-fa
remodeling .....
DUGAN JOHN J AGENCY insurance
.....
C LARSON & ASSOCIATES computer sys .....
109 AMERICAN FAMILY INSURANCE insur brokers .....
111 R N D VENTURES nonres bldg opr
215 Caldwell David .....
Dixon Greg .....
Dixon William M .....
DIXON GREG atty .....
DIXON WILLIAM M atty .....
Johnston Robert C .....
215 Not Verified
KEMMER MEL atty .....
KERBER GRANT D atty .....
LIVINGSTON JAMES R atty .....
RIVERVIEW TITLE COMPANY title &
.....
Sell Charles H II .....
SELL CHARLES H II ATTORNEY ...
SHIPMAN DIXON & LIVINGSTON CO
.....
215 Not Verified
+ ***N SHORT ST ENDS***
301 Hakes David A .....
Lawson Anthony D [1]
301½ Myers Donna L [2]
Myers Lura A
303 Pottenger April .....
303½ Not Verified
305Ⓜ Prewitt Kenneth .....
309 Not Verified
315Ⓜ Crosier D .....
316Ⓜ Hile Joseph A
Ⓜ Land Bruce ■
Weaver Melinda K [2] .....
318 Havelszky Adam J [2] .....
Havelszky Sarah E .....
324 Phillips Richard J & Loretta [9]+ ■ ...
+ ***N OXFORD ST ENDS***
403Ⓜ Cline Sheila A
407Ⓜ Henderson Timothy J
413 Carney Richard L [9]+ ■ .....
Carney Samuel L .....
423 Vesper Dale L & Margaret [9]+ ■ ....
425Ⓜ Manning A .....
+ ***N MONROE ST ENDS***
503 Wheeler Kelly L [3] .....
505 Tipton Judith A [6] ■
Tipton Julie A
507½ Wright Roy V [9]+ ■ .....
Wright Amy L .....

POLK 2000

WASHINGTON ST Cont'd
+ NORTH ST ENDS
• ZIP CODE 45383 CAR-RT C004
100 Kirwan Christopher D 16▲ 937-698-3320
110 No Current Listing
120 Tinkle Johnnie B & Christena S 12▲ 937-698-7106
126 Butler Nathan & Angela K 4 937-698-0594
1 No Current Listing
2 Matthews William R & David M 8 937-698-9061
3 - No Current Listing (2 Apts)
140 Collier Patricia L 6
200 No Current Listing
252 Baker Bruce B & Linda L 7▲
400 Ratliff Sandra K 19 937-698-3305
1 - 3 No Current Listing (3 Apts)
406 Cox Michael W & Roberta J 15▲ 937-698-3414
Maggert Rex L 9▲
HOUSEHOLDS 17

N WASHINGTON ST (LUDLOW FALLS)-FRDM 3899 ELLEMAN RD NORTHWEST
+ MARKLEY RD INTERSECTS
+ W MARKLEY RD CONTINUES
+ ELLEMAN RD INTERSECTS

N WASHINGTON ST (WEST MILTON)
+ S DAVIS RD INTERSECTS
+ MARKLEY RD INTERSECTS
+ W MARKLEY RD ENDS

WASHINGTON CONCORD RD (COVINGTON)-FROM 3801 STILLWELL RD WEST
• ZIP CODE 45318 CAR-RT R003
3300 Morrow Larry E & Cassandra E 16▲ 937-339-3900
+ N WASHINGTON RD CONTINUES
3305 Morrow Ralph E 12▲ 937-335-6481
Morrow Linda A 937-335-6481
+ STILLWELL RD BEGINS
3420 Hoffinger Robert E 12▲ 937-335-6471
3720 Wolfe Carlos D & Judy K 12▲ 937-335-6144
3900 Ewick Byron H Jr & Mari M 16▲ 937-335-3371
HOUSEHOLDS 5

WATER ST (WEST MILTON)
• ZIP CODE 45383 CAR-RT C004
25 No Current Listing
28 Sager Dennis J 10▲
Sager Jesse K
30 No Current Listing
39 Beetley Terry E & Charlene C 9▲
• ZIP CODE 45383 CAR-RT C001
100 Johnson Nicholas A & Regan A 2
155 Simon Michael J 3▲ 937-878-6796
203 No Current Listing
205 Overbay Henry M & Helen L 11▲ 937-698-4100
207 Seman Linda C 11▲
Seman Eugene
208 Tormey Sue L 20▲ 937-698-3402
209 Cassell Jesse J 11▲
Cassell Mary S
211 Anderson Joyce A 12▲ 937-698-5592
213 Vancleve Linda S 4▲
HOUSEHOLDS 13

E WATER ST (TROY)-FROM 101 N WALNUT ST SOUTHEAST
+ N MARKET ST CONTINUES
+ W WATER ST BEGINS
• ZIP CODE 45373 CAR-RT C016
3 MC GEE DOYLE INSURANCE insurance 937-339-3211
6 Davis Jennifer A 13
7 TROJAN FLORISTS florists-retail ..937-339-2206
7 1/2 Harrelson June 12
13 Allen Bud 20▲ 937-339-2336
13 1/2 ✪ Coy Gregory E
16 RICHARD W KLOCKNER & ASSOC INC engineers-civil 937-339-5331
16 1/2 Bone Rita K 3 937-335-5013
17 Leath Robert D 20▲ 937-335-1763
18 LOPEZ KEMMER SEVERT & PRATT attorneys 937-335-5658
Perry Jimmy L 2
21 Davis Catherine 2 937-335-9476
Davis Sarah 937-335-9476
Jackson Jr David C 7
23 ✪ Cruea Derick 937-335-4122
Duffield Michael S 3
+ N WALNUT ST BEGINS
101 Ray Nick 2 937-332-6151
107 Hufford Charles T & Julie H 9▲ 937-339-1141
111 Twiss Michael D 5 937-339-7000
Twiss Erin 937-339-7000
115 Baker Kendra R 11▲ 937-335-6923
116 ✪ Demoss Bob 937-440-9508
2 Carey Ronald L & Deloris M 17▲ 937-335-2386
121 OVERFIELD MUSEUM historical places 937-335-4019
124 1/2 Shepard B G 13 937-339-0545
+ N MULBERRY ST INTERSECTS
209 WATERSTONE CERAMICS & POTTERY ceramic equip/supl 937-339-6772

E WATER ST Cont'd
210 OHIO VALLEY AUTOMATION automation consultants 937-335-8208
211 1/2 Poock Justin C 4
213 1/2 Criner Mario 3 937-335-6493
+ RAILROAD CROSSES
301 HOBART CABINET CO office furniture & equip-dlrs 937-335-4666
+ N CLAY ST ENDS
+ N CRAWFORD ST ENDS
405 Henn Ricky J & Sharleen M 12▲ 937-335-1133
409 Kemehm Gary L & Julia A 9▲ 937-339-2614
413 No Current Listing
420 AUXILIARY SVC schools 937-335-2184
ST PATRICK SCHOOL schools 937-339-3705
423 Lewis Karen N & Robert S 2▲ 937-332-8908
+ NEW ST ENDS
518 Parr George J 8
SPINNAKER COATING LLC coated & laminated paper 937-332-6500
SPINNAKER INDUSTRIES INC label stock-adhesive 937-332-6667
+ N COUNTS ST ENDS
BUSINESSES 12 HOUSEHOLDS 25

W WATER ST (TROY)-FROM 101 N MARKET ST NORTHWEST
+ E WATER ST INTERSECTS
• ZIP CODE 45373 CAR-RT C007
9 Gephart Jacquelin M & Edwin E 2 937-339-3148
RANDAL HARVEY CO attorneys ..937-335-3666
21 ✪ Beyke Stephen J 937-335-2537
23 No Current Listing
25 Crew Martha E 20▲ 937-698-4515
Crew Philip J 937-698-4515
28 Sager Dennis J & Virginia L 20▲ 937-698-3520
39 Beetley Terry E & Charlene C 20▲ 937-698-6210
+ N CHERRY ST ENDS
100 Netzley Allen L & Linda A 20▲ 937-698-6556
101 BENEFITS ANALYSIS CORP insurance 937-335-5751
CLEARY COMPONENTS CORP nonclassified establishments 937-335-1851
Gawronski David E 13
JOHN J OUGAN AGENCY insurance 937-335-0900
3 No Current Listing
101 1/2 ✪ Breneman Jennifer 937-339-0998
H Irons Matthew T & Andrea A 8 937-339-4033
111 BREWERY night clubs 937-339-8595
207 Seman Linda C 20▲ 937-698-5174
213 McKibben Larry D 20▲ 937-698-5168
215 BROSH LENEE attorneys 937-339-1500
Hawk Holly L 5 937-339-1500
Kerber Grant D 4 937-339-1500
Merritt Tom O 3 937-339-1500
MERRITT TOM O attorneys 937-339-1500
RIVERVIEW TITLE CO title companies 937-339-1500
SHIPMAN DIXON & LIVINGSTON attorneys 937-339-1500
+ N SHORT ST ENDS
301 Hakes David A 5 937-335-7570
301 1/2 ✪ Nickel Amanda S 937-332-1350
303 1/2 - 309 No Current Listing (3 Hses)
315 Crosier Donna M 7▲ 937-332-9837
316 No Current Listing
318 Lowe Mary 3 937-335-4654
324 Phillips Richard J & Loretta J 20▲ 937-339-1387
+ N OXFORD ST ENDS
403 Baughman Melissa L 5
✪ Mallory Anthony V & Starlene E 937-440-8183
407 ✪ Blase Stefanie 937-339-6746
413 Carney Richard L & Leland 20▲ 937-339-5976
423 Vesper Margaret M 17▲ 937-335-2268
425 Lanahan Sarah K 9
Laughlin Michael O 13▲
Manning Angela R 5
+ N MONROE ST ENDS
503 No Current Listing
505 Markin Wanda I 2 937-339-5222
507 1/2 Wright Roy V 20▲ 937-339-7973
509 1/2 Stryker David M 20▲ 937-335-2755
Stryker Pearle 937-335-2755
510 PLANNED PARENTHOOD OF THE clinics 937-335-0929
UNIVERSITY OF PHOENIX-OHIO schools 937-332-7400
110 MIAMI COUNTY PLANNING & ZONING county government 937-440-6111
120 MIAMI COUNTY BUILDING REGULATE government offices-county 937-440-6075
130 MIAMI COUNTY HEALTH DEPT county government 937-440-6105
130 MIAMI COUNTY SVC FOR ELDERLY government offices-county
130 WAIT & C health & welfare agencies 937-440-5411
130 WELL CHILD CLINIC clinics 937-440-5421
130 WIC NUTRITIONAL PROGRAM clinics 937-335-8530

W WATER ST Cont'd
150 MIAMI COUNTY TRANSIT AUTHORITY county govt 937-440-5488
210 MIAMI COUNTY BOARD-EDUCATION schools 937-440-8050
210 MIAMI COUNTY PROBATION OFFICE probation serv 937-332-6838
215 MIAMI COUNTY BOARD OF ELECTION government offices-county 937-440-3900
515 Wingert Cynthia L & Howard E 20▲ 937-339-0549
523 Mansmann Patricia K 13 937-335-4810
Mansmann Donald J 937-335-4810
523 1/2 Hou Chris 8 937-332-6669
+ ADAMS ST INTERSECTS
+ JACKSON ST BEGINS
701 TROY LUMBER CO building materials 937-335-8365
+ N ELM ST INTERSECTS
• ZIP CODE 45373 CAR-RT C003
801 Smith Vickie L 15▲
Smith Lacey D
808 No Current Listing
814 Bush Teresa L & James M 3
815 ✪ Maggert Linda M
817 Iddings David J & Cheryl D 13▲ 937-339-1499
820 Monteiro Carmen P 2 937-332-6511
825 Wilson Donald R & Helen V 20▲ 937-335-4004
826 No Current Listing
+ N CEDAR ST BEGINS
901 No Current Listing
914 Alford Richard J 4 937-332-9246
Harlow Ronald 10
+ HARRISON ST INTERSECTS
BUSINESSES 23 HDUSEHOLDS 51

WATERBURY PL (TROY)-FROM 1539 BEEKMAN DR NORTH
+ BROOK PARK DR CONTINUES
• ZIP CODE 45373 CAR-RY C014
1200 Ceyler Greg S 5 937-440-1438
Ceyler Michelle 937-440-1438
1202 No Current Listing
1217 Brown Charles L Sr & Margaret M 11▲ 937-335-1373
1218 ✪ Kimmel Robert L
Pitsenbarger Bernadine C 10▲ 937-339-7381
1221 Schlafer Constance R & Henry W 18▲ 937-332-9806
1222 Lynch Catherine S 13▲ 937-339-7657
1223 Sanders Kenneth H & Sharon A 15▲ 937-339-2944
1224 Guillozet Raymond E & Margaret C 8 937-339-3537
1227 Fellers William J & Marthel M 11▲ 937-339-3142
1228 Chaney Yvonne E 11▲ 937-335-6432
Chaney Becky L 937-335-6432
1231 Aufdemkampe Catharine B 8▲ 937-332-9271
Aufdemkampe Robert J 937-332-9271
1232 Walton Charles S & Marion S 9▲ 937-332-9096
1233 ✪ Byrket Sara J ▲ 937-335-7462
Byrket Sallie J 937-335-7462
1234 Overholser Anne M & Harold E 13▲ 937-335-7378
1237 Johnson Jack R & Mildred A 4▲ 937-332-7484
1238 Noll Gloria L & Dale R 13▲ 937-335-5003
1240 No Current Listing
1241 Furnas George M & Dorothy I 13▲ 937-339-3945
1242 Fudge Velma C 13▲ 937-339-1629
Fudge Keith 937-339-1629
1243 Francis Margaret J 13▲ 937-339-6130
1244 Adkins Juanita 13▲ 937-335-2627
Adkins Clara J 937-335-2627
1247 Stoltz Robert E 20▲ 937-335-4593
1248 Davis Thelma L 20▲ 937-339-0506
1251 Littlejohn Donald D & Betty M 11▲ 937-335-2016
1252 Lamka Paul L & Esther M 15▲ 937-339-2030
1253 Zimmerman Howard L & Ann 14▲ 937-335-1771
1256 Surmacz Theodore J & Virginia L 15▲ 937-335-6065
1257 ✪ Cruea Paul E & Carolyn A ▲ 937-335-2169
1261 - 1265 No Current Listing (2 Hses)
+ BEEKMAN DR INTERSECTS
1300 Russell James R & Juanita F 14▲ 937-335-5148
1301 Allen Betty I 13▲ 937-339-1345
1304 Cornell Robert S & Jane A 15▲ 937-339-4723
1305 - 1308 No Current Listing (2 Hses)
1309 Zwiebel Imogean K 13▲ 937-339-6959
1313 Hawn Reva J 15▲ 937-339-7565
1317 Conrad Ronald L & Janice L 2▲ 937-339-8737
HOUSEHOLDS 39

WATERFORD DR (TROY)-FROM 2401 SAINT ANDREWS DR WEST
+ WESTHAVEN DR CONTINUES
• ZIP CODE 45373 CAR-RT C005
2396 Green William R 20▲ 937-339-2207
2397 Peake Ronnie E 20▲ 937-335-5853

WATERFORD DR Cont'd
+ SAINT ANDREWS DR INTER
2398 Warner Mark B & Dorothy .....
2400 - 2402 No Current Listing
2403 ✪ Rapson Robert L
2405 Boyer August H & Lois J .....
2406 Garrett Lisa A & Paul D 5
2407 Maynor Douglas M 10▲
2408 Norris Rick L & Sharon K .....
2409 Hammaker Ora 11▲
2410 No Current Listing
2411 Kriss Charles A Jr & Sally
2412 Beemer Lawrence E Jr 2
2413 Thompson Ben 4 .....
Wilson Tracy S 11▲
2414 Meiring Agnes I 20▲ ...
+ KINGS CHAPEL DR INTERS

WAYNE ST (TROY)-FROM 59 WEST
+ S MADISON ST CONTINUE
+ PENNSYLVANIA AVE INTE
+ S RIDGE AVE INTERSECTS
+ S RIDGE AVE CONTINUES
• ZIP CODE 45373 CAR-RT C
1030 No Current Listing
+ SUMMIT AVE INTERSECTS
1100 ✪ Ballweg Jessie .....
✪ Campbell S H .....
CHARLIE'S DINER resta .....
Cole Robert 4
COMMUNITY HOUSING welfare org .....
CONSULTING & SUPPL consultants- business
✪ Goonan James ....
Holthaus F 4 .....
INNOVATIVE SUPPORT workers .....
KUNTZ ARLEEN occupa .....
MIAMI VALLEY HYPNOS .....
MIAMI VALLEY LIGHTIN lighting fixtures- whol ..
✪ Myers Edwin .....
NAMI OF MIAMI CO OH .....
Pace Gwen 4 .....
PACE'S PLACE MINISTI .....
SANDERS & ASSOC ga .....
SCHUMANN INDUSTRI serv .....
SELF RELIANCE INC ho .....
SERVPRO OF SHELBV & rug cleaners .....
STOUDER CENTER offi .....
SZABO INSURANCE ins .....
THIRD DIMENSION GR consulting .....
TRI-COUNTY BOARD C nonclassified establishm
TRINITY MEDICAL TRA serv .....
UPPER VALLEY JVS S schools .....
Wilson L 3 .....
Workman Arthur 3 ....
218 ✪ Mullennix Gregor
1105 HEART TO HEART personnel consultants
1172 ACKLEY INSURA .....
1175 TAKE 2 PRODUC production & taping sen
1300 QUALITY COMPU serv & rpr .....
1319 ✪ Vanhoose Melo
1400 SERVEPRO OF M carpet & rug cleaners ..
1400 TECUMSEH INVE damage restoration ..
1450 STOUDER CHIRC chiropractors do .....
1700 - 2217 No Current
2218 Long Dale R 4 .
2233 No Current Listing
2238 Watkins Ron 4
2238 Watkins Sally J
2242 ✪ Grillot Brian J
2242 Grillot Susanna
2502 ✪ Alto Casi L
2526 USA BENEFITS G .....
2700 OHIO EDUCATIO consultants .....
2720 Bluthardt Mark W
2720 King James Sr 4
2720 King Carlisa
3220 - 3305 No Current
3306 ✪ Iavarone Jame
3310 - 3311 No Current
3400 HOSPICE OF MI .....

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POLK 2005

Spinnaker Coatings Plant #1
518 East Water Street
Troy, OH 45373

Inquiry Number: 3222629.3
December 13, 2011

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/13/11

Site Name:
Spinnaker Coatings Plant #1
518 East Water Street
Troy, OH 45373

Client Name:
Michael Kerr
77 West Elmwood Drive
Dayton, OH 45459

EDR Inquiry # 3222629.3

Contact: Richard Ordeman

EDR® Environmental Data Resources Inc

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Certified Sanborn Results:

Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street
City, State, Zip: Troy, OH 45373
Cross Street:
P.O. # 057-11
Project: Spinnaker Coatings Plant #1
Certification # 26A4-4E76-A2F7

Maps Provided:

1955 1898
1942
1931
1923
1911
1905

Sanborn® Library search results
Certification # 26A4-4E76-A2F7

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1955 Source Sheets

Volume 1, Sheet 7

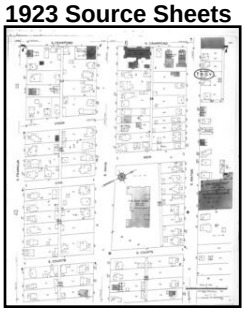
1942 Source Sheets

Volume 1, Sheet 7

1931 Source Sheets

Volume 1, Sheet 7

1923 Source Sheets



Volume 1, Sheet 7

1911 Source Sheets

Volume 1, Sheet 6

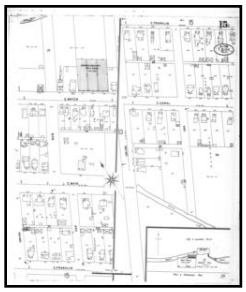
1905 Source Sheets

Volume 1, Sheet 14

Volume 1, Sheet 15

1898 Source Sheets

Volume 1, Sheet 14



Volume 1, Sheet 15

1955 Certified Sanborn Map

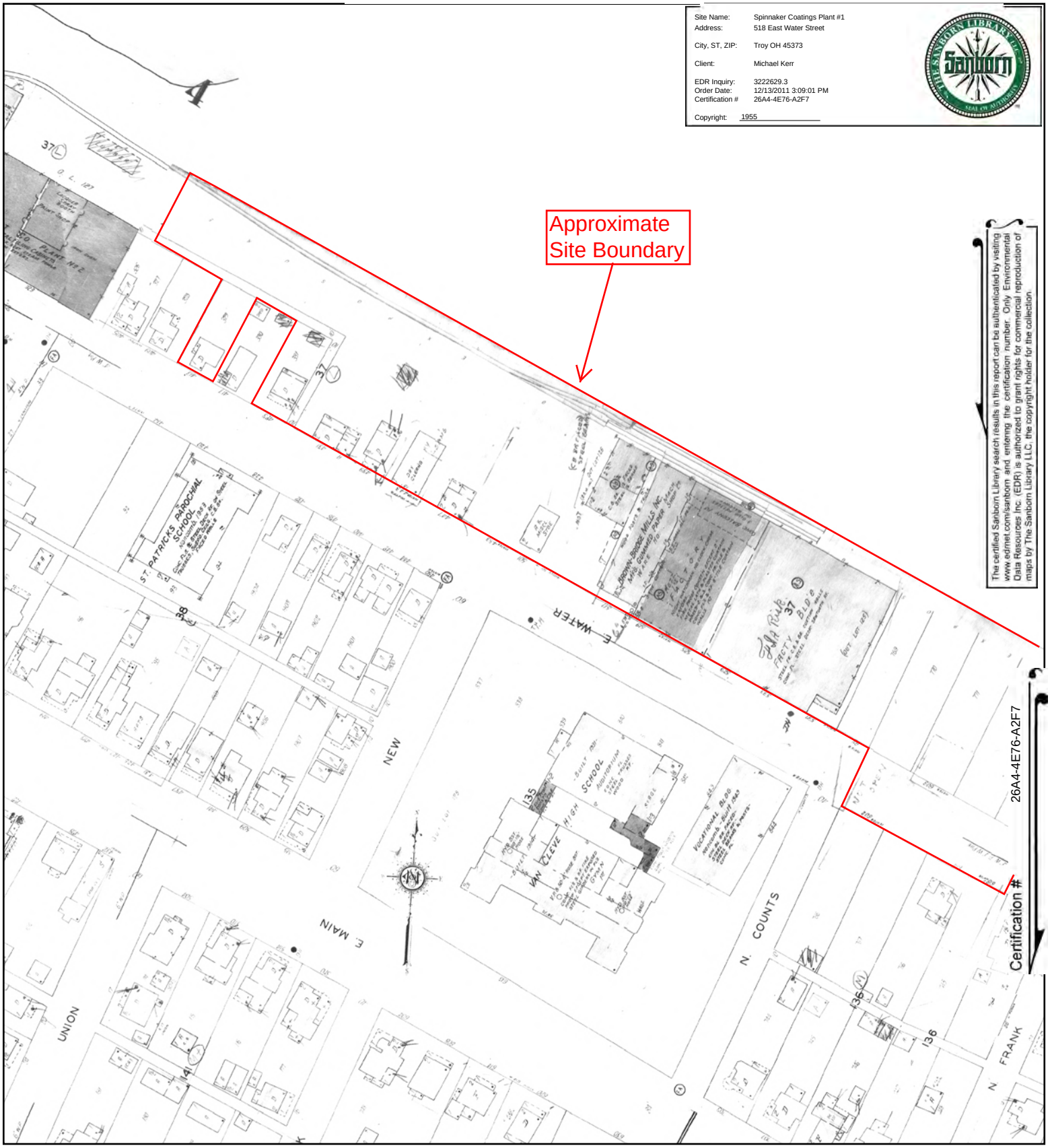
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1955



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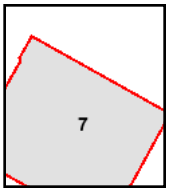

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N

1942 Certified Sanborn Map

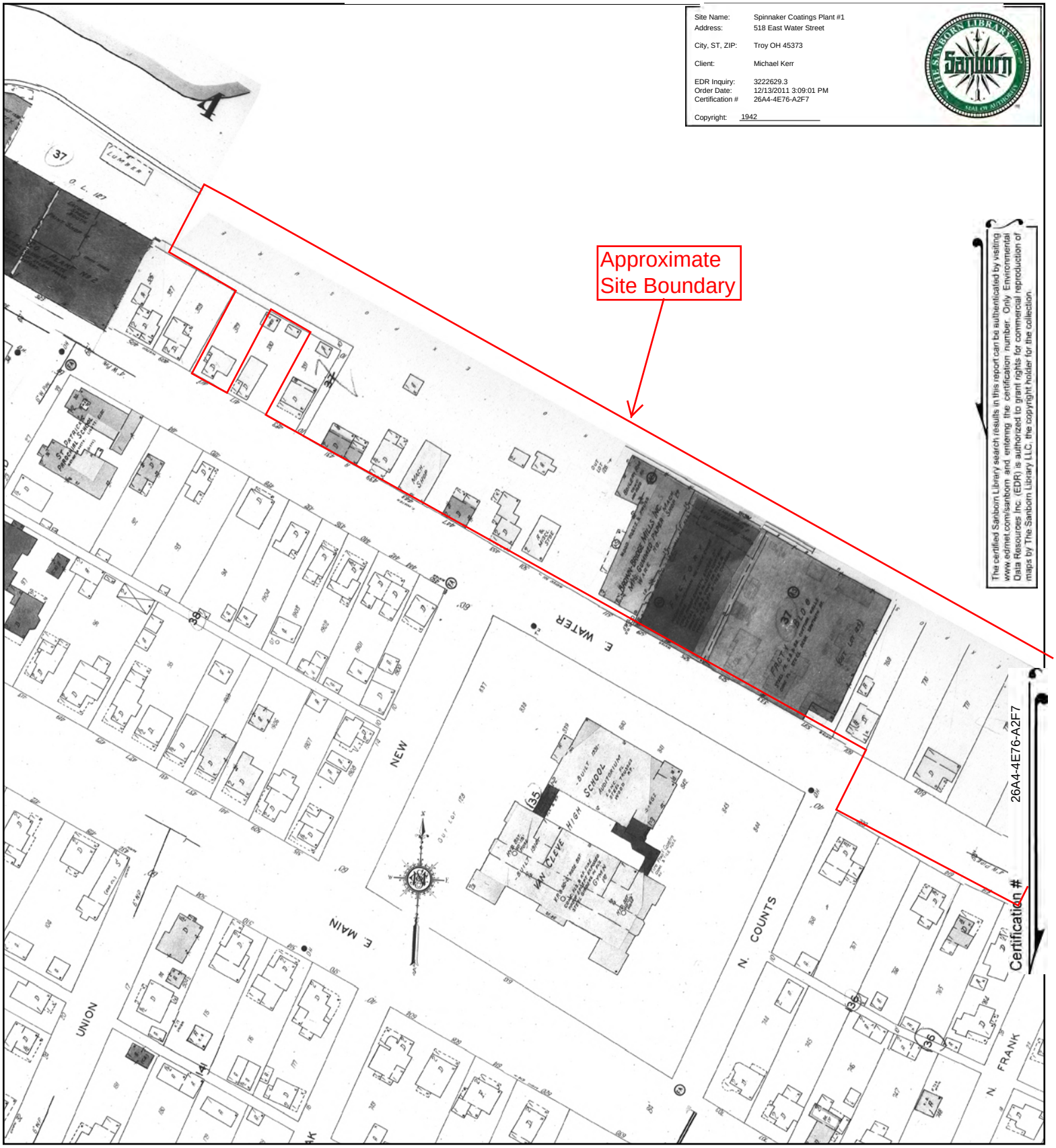
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1942



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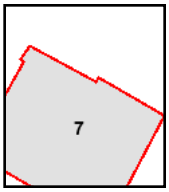

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N

1931 Certified Sanborn Map

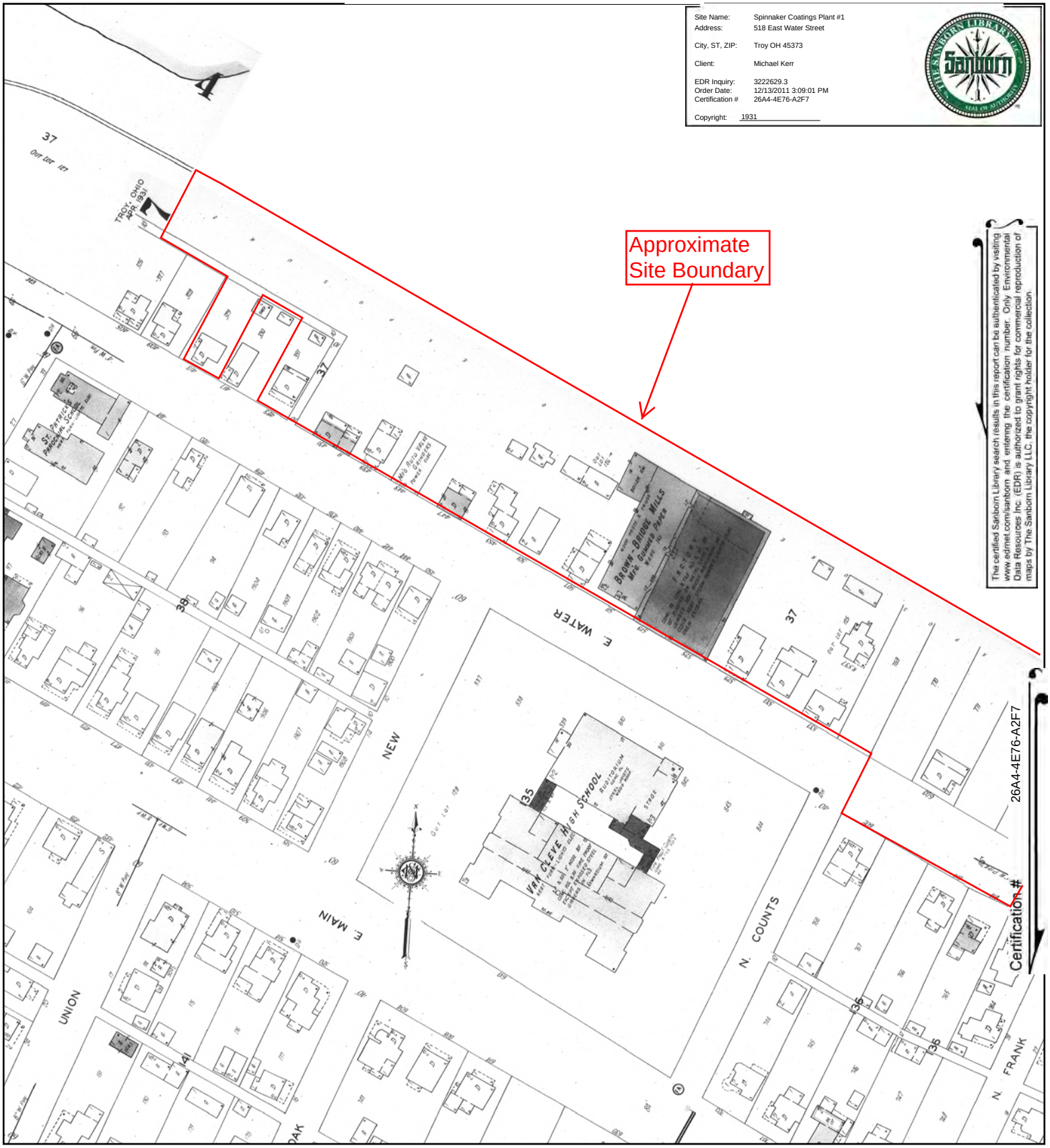
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1931



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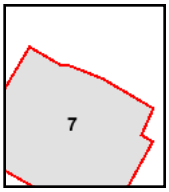

Volume 1, Sheet 7

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1923 Certified Sanborn Map

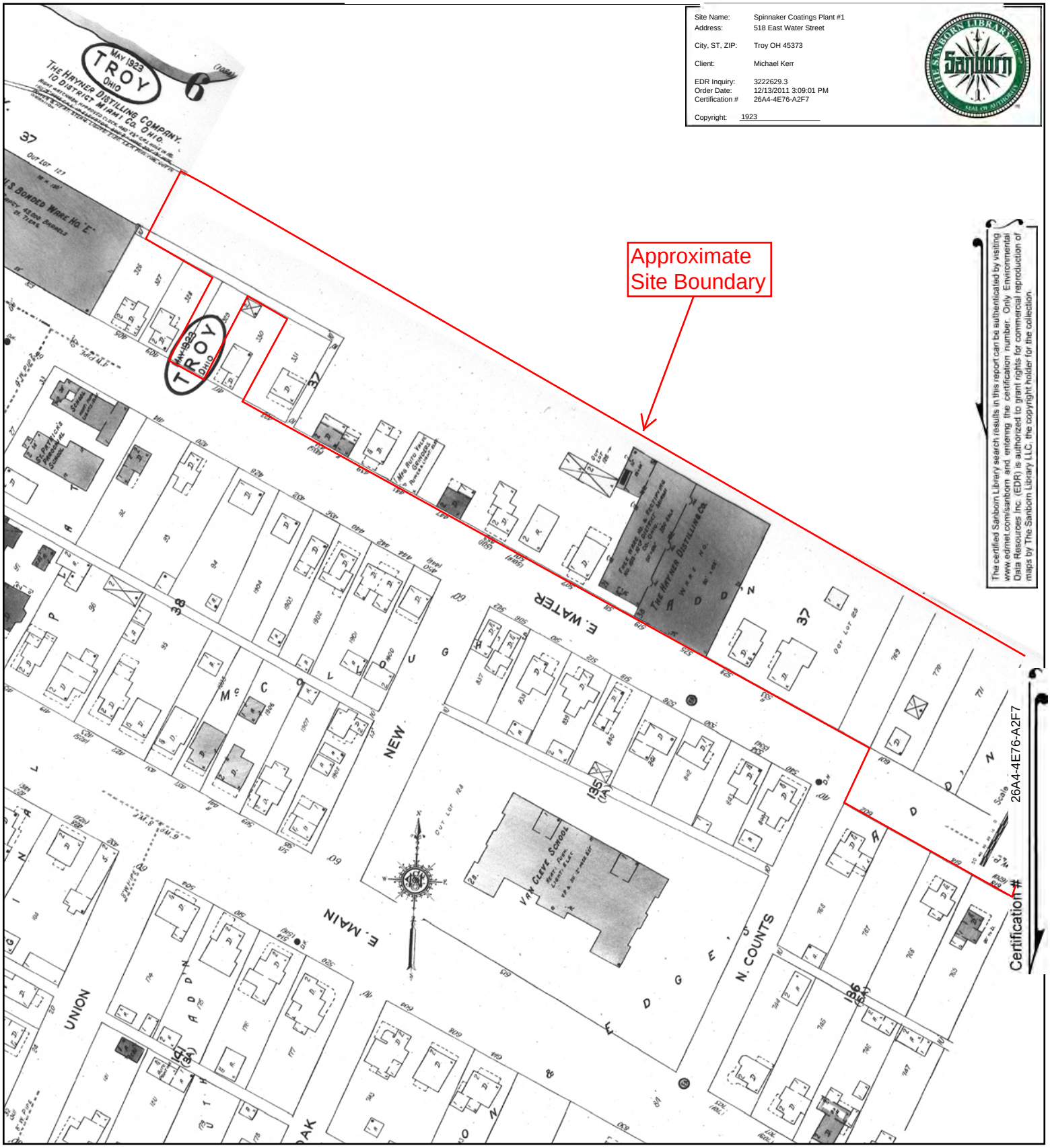
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1923



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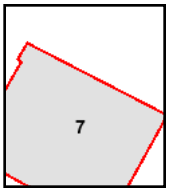


Volume 1, Sheet 7

N

1911 Certified Sanborn Map

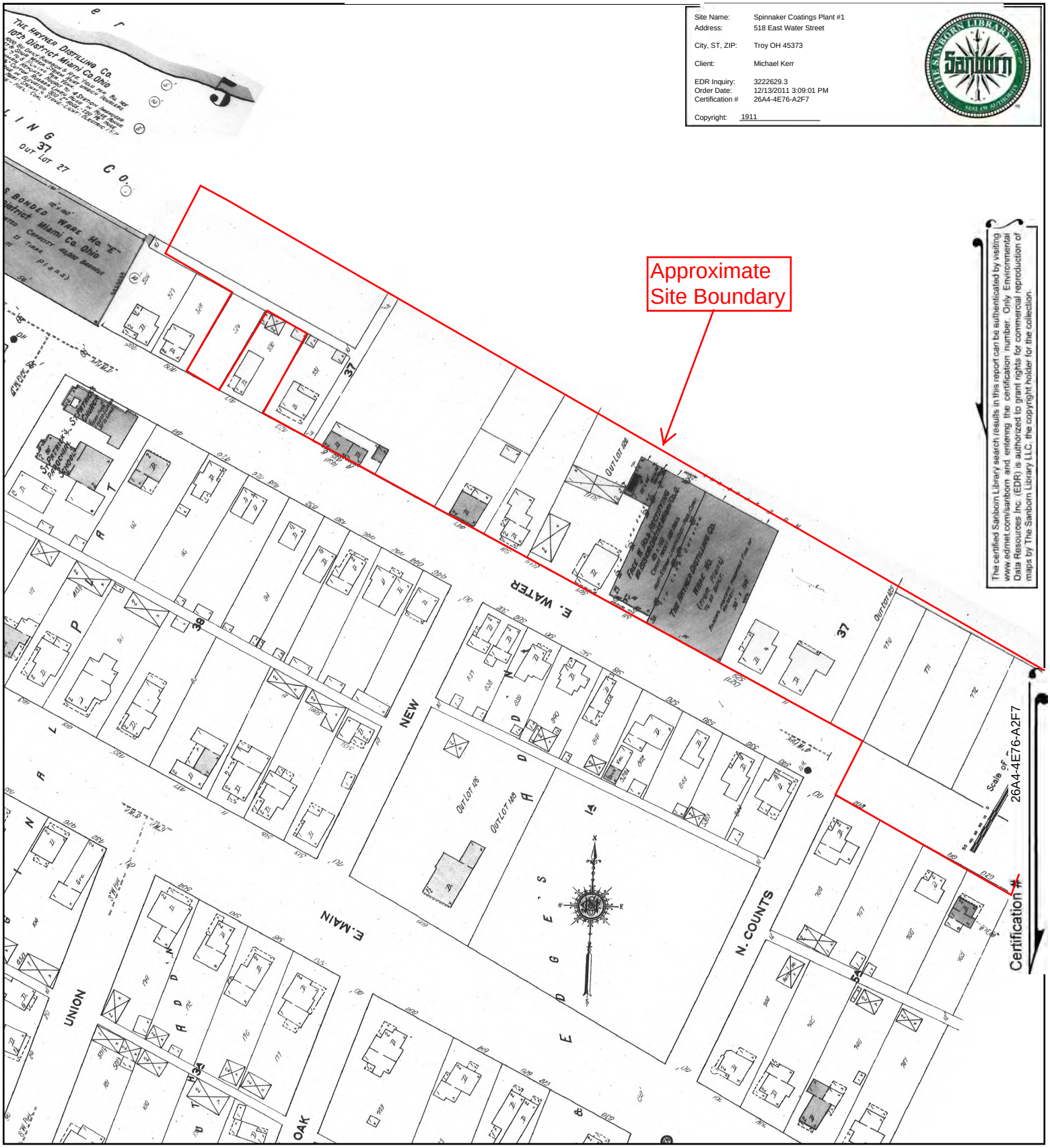
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1911



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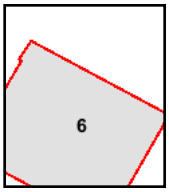

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1905 Certified Sanborn Map

Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street
City, ST, ZIP: Troy OH 45373
Client: Michael Kerr
EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
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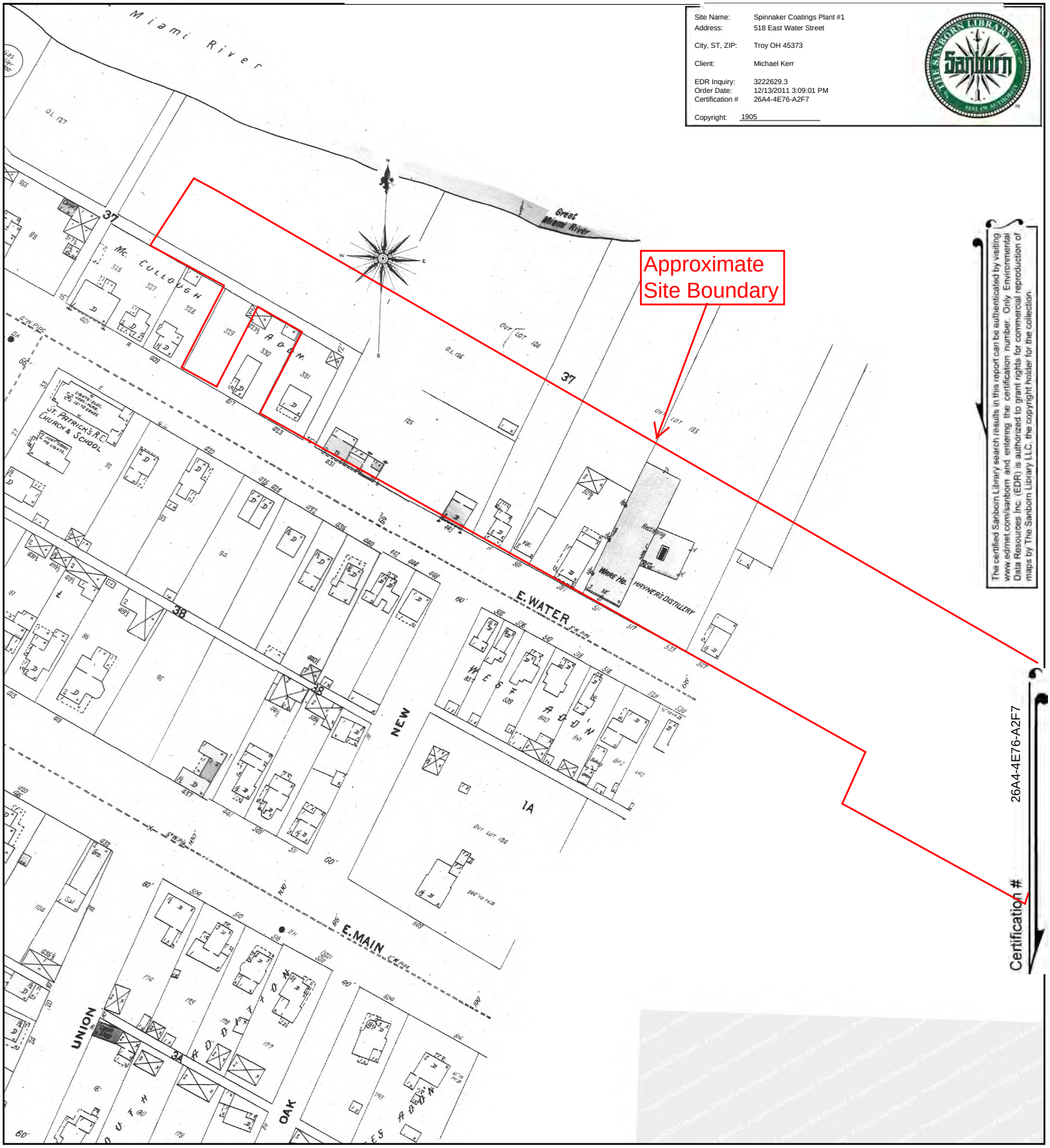
Copyright: 1905



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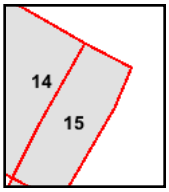

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N

1898 Certified Sanborn Map

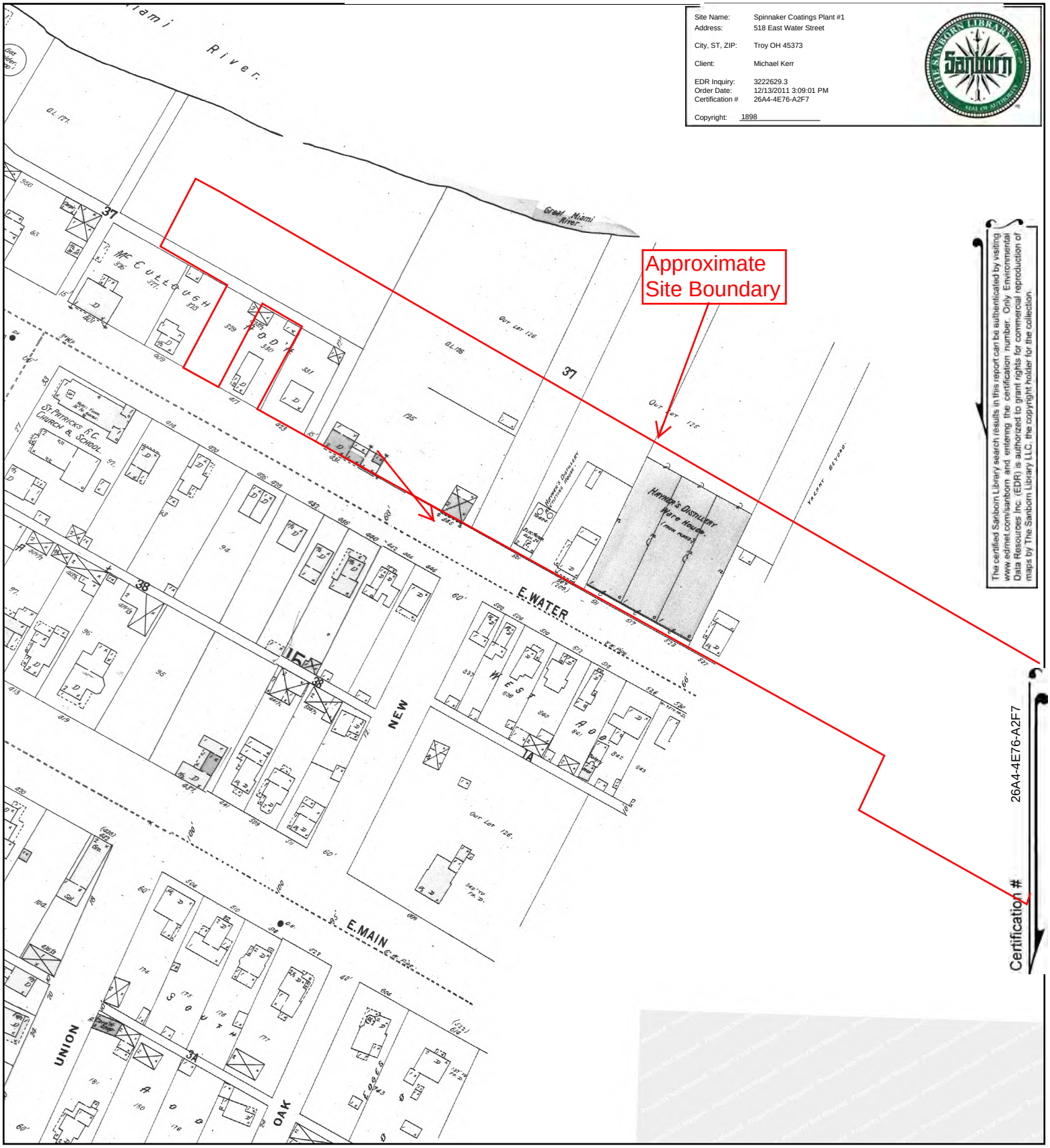
Site Name: Spinnaker Coatings Plant #1
Address: 518 East Water Street

City, ST, ZIP: Troy OH 45373

Client: Michael Kerr

EDR Inquiry: 3222629.3
Order Date: 12/13/2011 3:09:01 PM
Certification # 26A4-4E76-A2F7

Copyright: 1898



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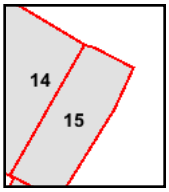

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N

Spinnaker Coatings Plant #1
518 East Water Street
Troy, OH 45373

Inquiry Number: 3222629.4
December 19, 2011

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Date EDR Searched Historical Sources:

Aerial Photography December 19, 2011

Target Property:

518 East Water Street

Troy, OH 45373

Year	***Scale***	***Details***	***Source***
1952	Aerial Photograph. Scale: 1"=1000'	Panel #: 40084-A2, Troy, OH;/Flight Date: August 01, 1952	EDR
1960	Aerial Photograph. Scale: 1"=1000'	Panel #: 40084-A2, Troy, OH;/Flight Date: May 03, 1960	EDR
1964	Aerial Photograph. Scale: 1"=500'	Panel #: 40084-A2, Troy, OH;/Flight Date: April 09, 1964	EDR
1972	Aerial Photograph. Scale: 1"=500'	Panel #: 40084-A2, Troy, OH;/Flight Date: April 26, 1972	EDR
1979	Aerial Photograph. Scale: 1"=1000'	Panel #: 40084-A2, Troy, OH;/Flight Date: November 17, 1979	EDR
1981	Aerial Photograph. Scale: 1"=1000'	Panel #: 40084-A2, Troy, OH;/Flight Date: May 03, 1981	EDR
1988	Aerial Photograph. Scale: 1"=750'	Panel #: 40084-A2, Troy, OH;/Flight Date: April 05, 1988	EDR
1994	Aerial Photograph. Scale: 1"=500'	Panel #: 40084-A2, Troy, OH;/Composite DOQQ - acquisition dates: April 01, 1994	EDR
2000	Aerial Photograph. Scale: 1"=750'	Panel #: 40084-A2, Troy, OH;/Flight Date: October 11, 2000	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 40084-A2, Troy, OH;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 40084-A2, Troy, OH;/Flight Year: 2006	EDR

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YEAR: 1952
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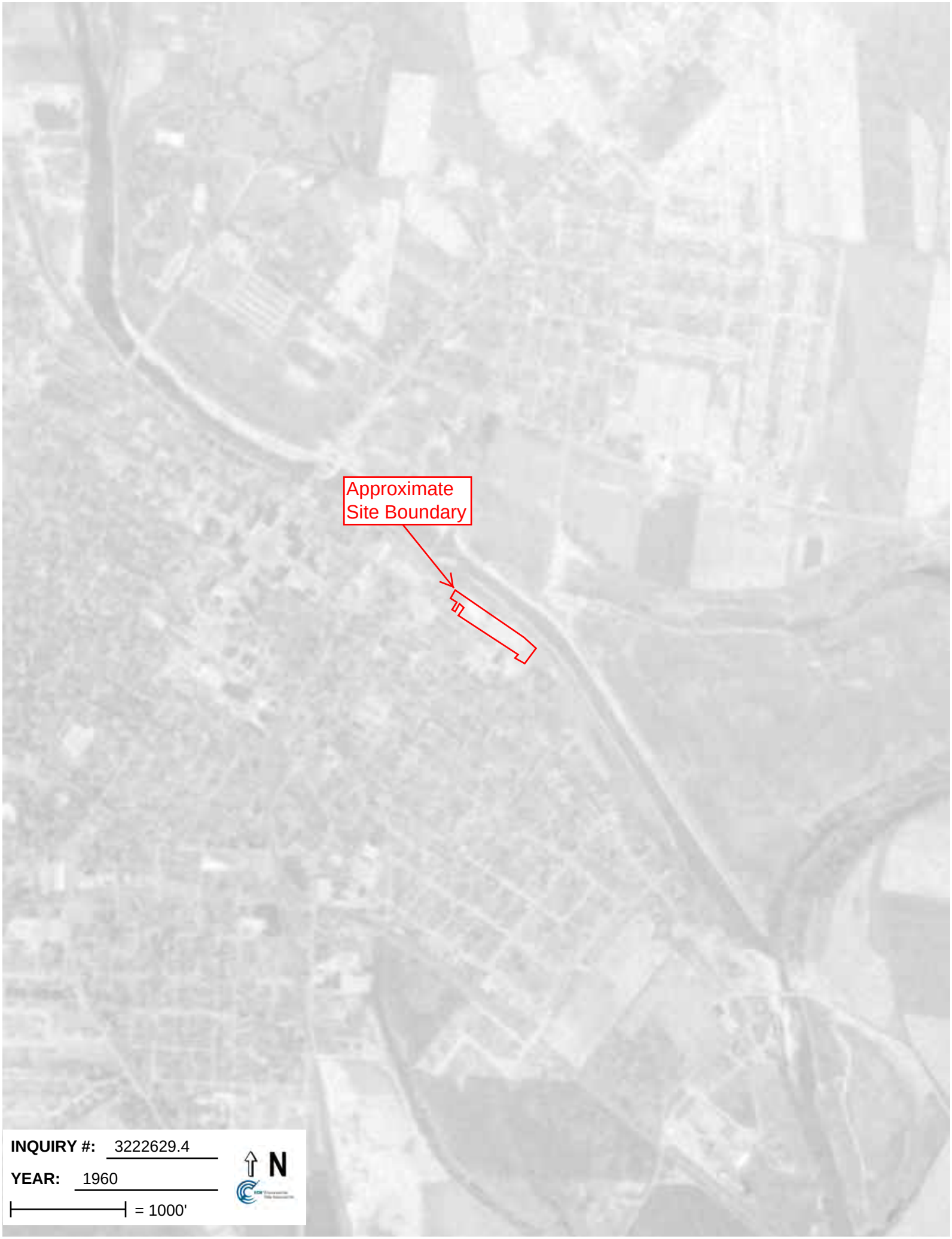
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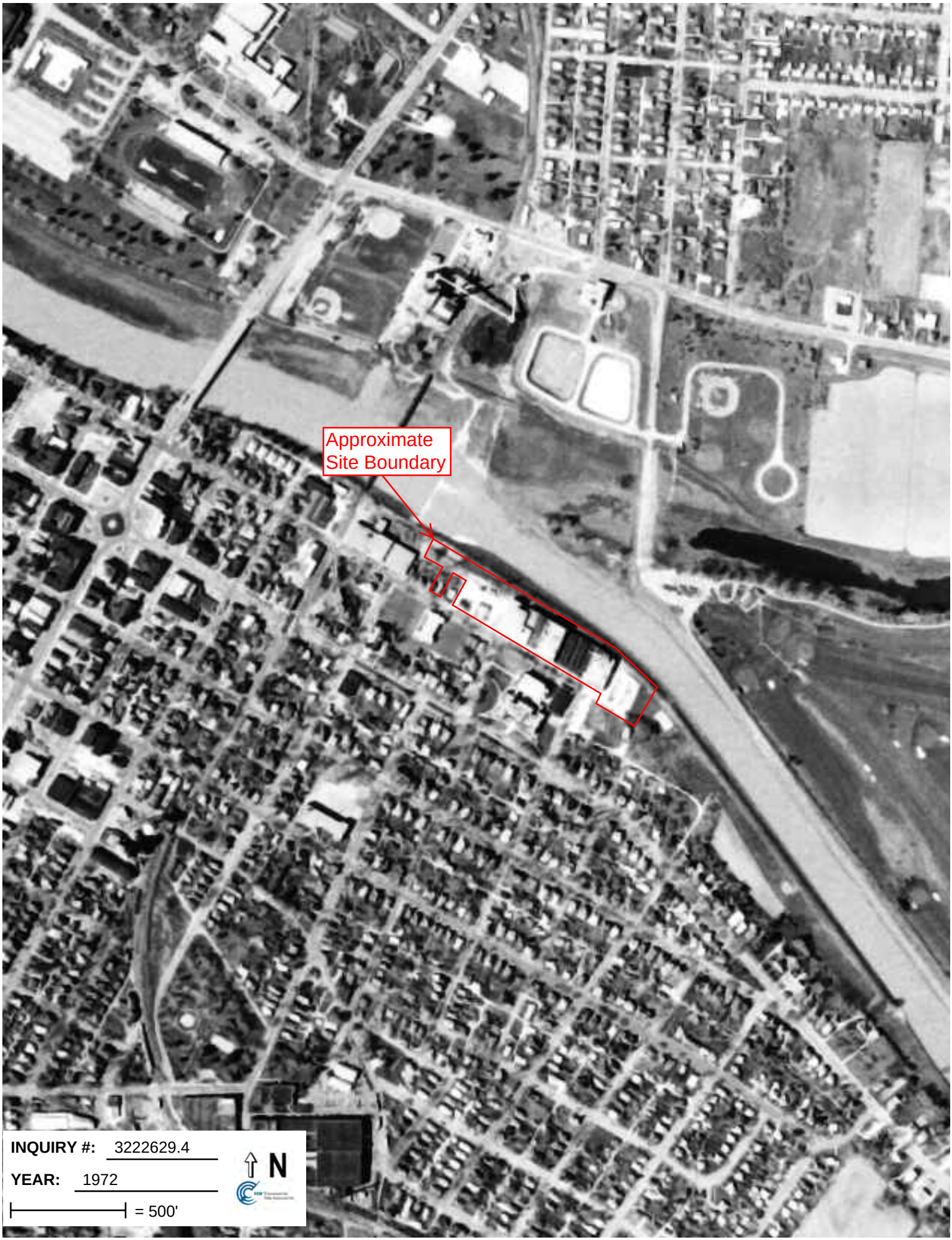
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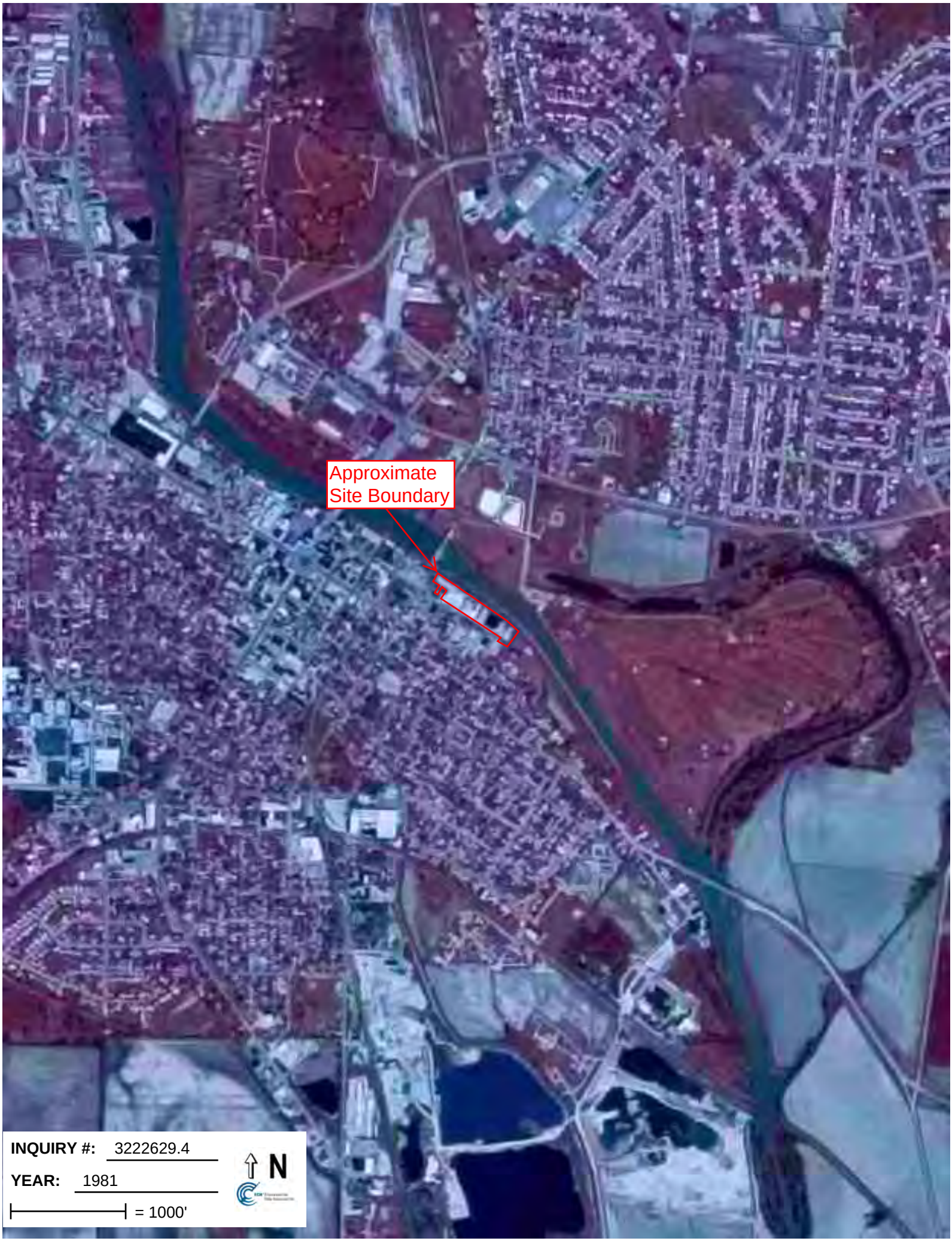
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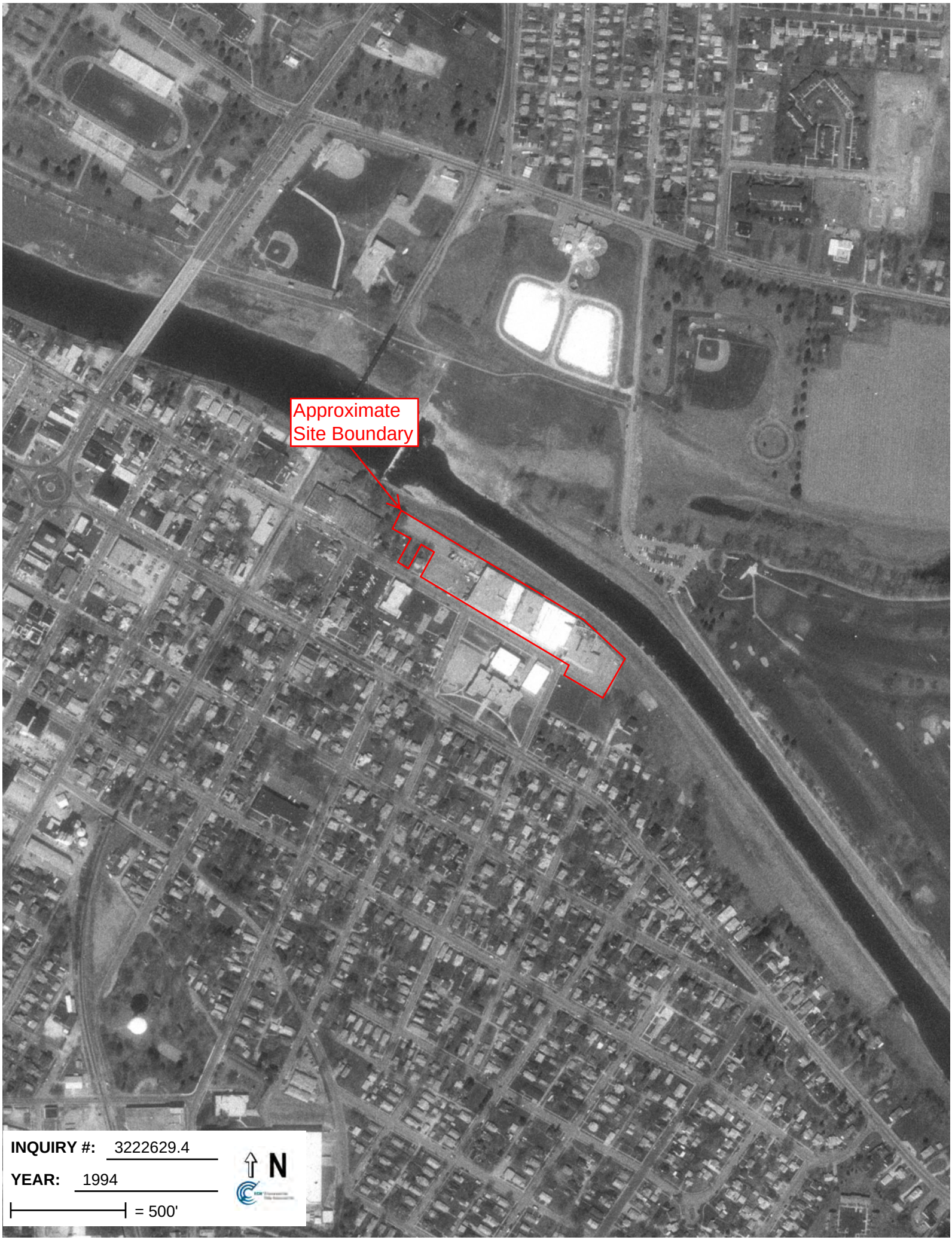
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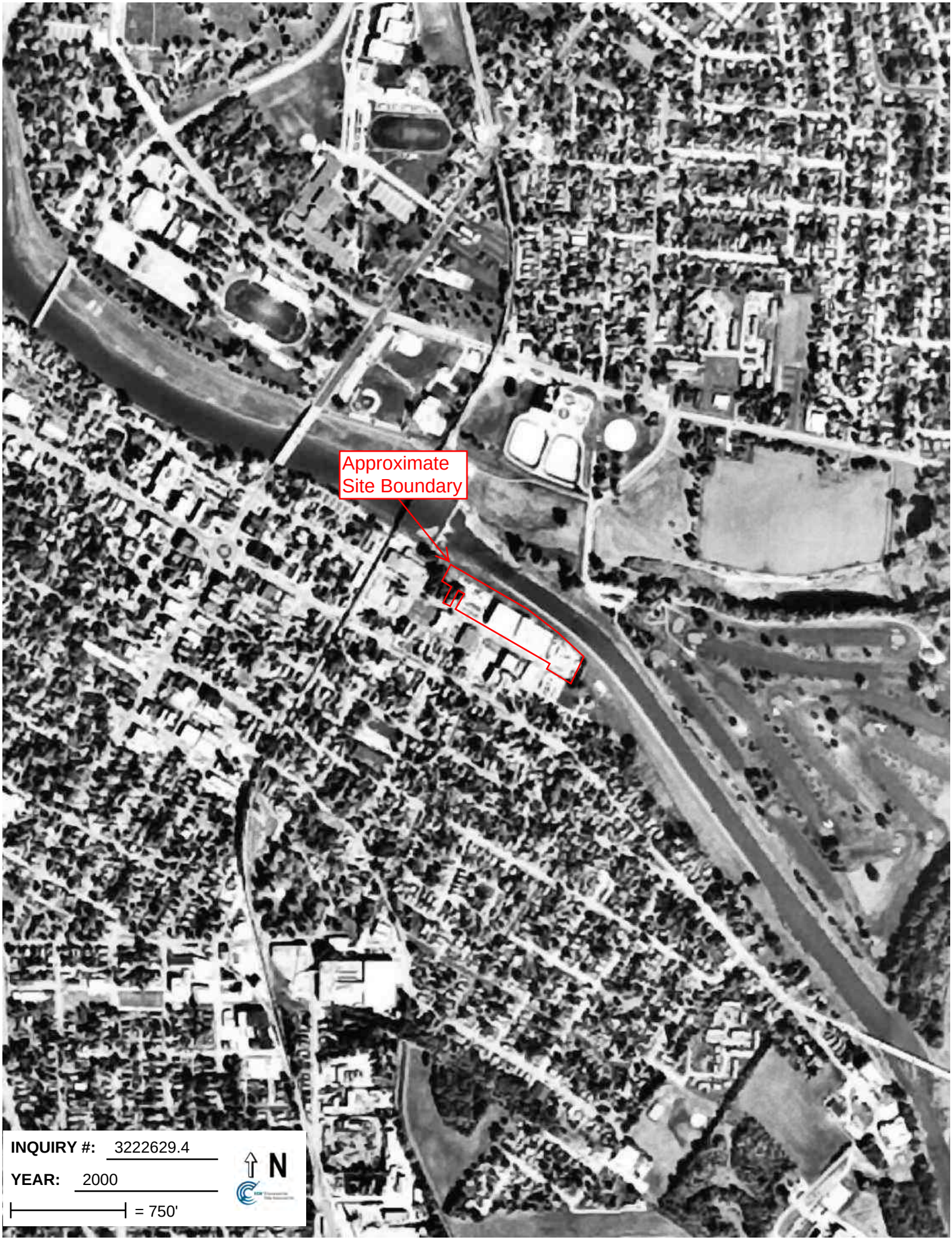
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YEAR: 2000
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Approximate
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YEAR: 2005
= 500'
N

Approximate
Site Boundary
INQUIRY #: 3222629.4
YEAR: 2006
= 500'
N

A MEMBER OF THE ENVIRONMENTAL RESOURCES MANAGEMENT GROUP

KIMBERLY-CLARK CORPORATION

BROWN-BRIDGE FACILITIES
TROY, OHIO

ENVIRONMENTAL AND OCCUPATIONAL SAFETY AND HEALTH SITE ASSESSMENT AND COMPLIANCE AUDIT

8 April 1994

ERM, INC.
450 West Wilson Bridge Road
Columbus, Ohio 43085

ERM

KIMBERLY-CLARK CORPORATION

BROWN-BRIDGE FACILITIES
TROY, OHIO

ENVIRONMENTAL AND OCCUPATIONAL SAFETY AND HEALTH SITE ASSESSMENT AND COMPLIANCE AUDIT

8 April 1994

ERM, INC.
450 West Wilson Bridge Road
Columbus, Ohio 43085

BROWN-BRIDGE FACILITIES
TROY, OHIO
ENVIRONMENTAL AND OCCUPATIONAL SAFETY AND HEALTH
SITE ASSESSMENT AND COMPLIANCE AUDIT

PREPARED FOR KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE FACILITIES

8 April 1994

John R. Platko
Senior Project Manager
ERM-Northeast, Inc.

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APPENDIX

A *ENVIRONMENTAL SITE ASSESSMENT REGULATORY DATABASE INFORMATION*

1.0 *INTRODUCTION*

ERM-Inc. was contracted by the Kimberly-Clark Corporation to perform an environmental and occupational safety and health site assessment and compliance audit of two Brown-Bridge facilities (Plant 1 and Plant 2) in Troy, Ohio. On March 24 and 25, an ERM-Inc. (ERM) team consisting of John R. Platko (of ERM-Northeast) and Elizabeth A. Cunningham, CIH, CSP (of Eagle Environmental Health) performed a two-day facility inspection. ERM's team met with Mr. Ron Klenk, Project Engineer, Environmental, and Mr. Dick Palm, Training Coordinator who provided unrestricted access to the sites and associated records. Messrs. Charlie Tompkins and Anthony Gasper (from Kimberly-Clark) were also present during the facility reviews. These reviews focused on the Brown-Bridge manufacturing and support operations.

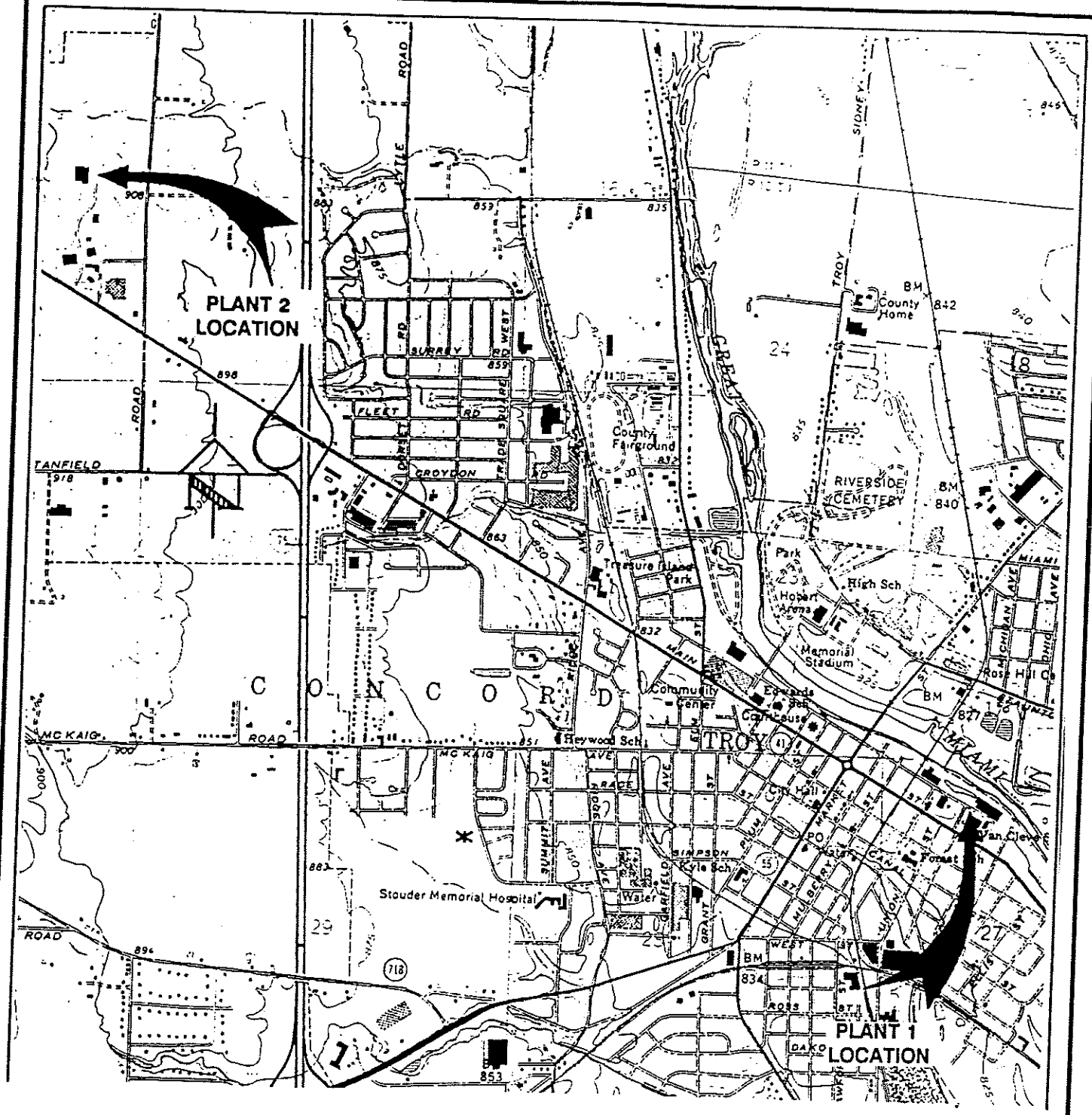
This report summaries significant findings and recommendations of the ERM review team. Information relating to the compliance evaluation of the Brown-Bridge facilities is reported in an "exception" format, with topics discussed relating only to potential compliance issues having applicability at the Plant 1 and Plant 2 sites.

2.0 ASTM ENVIRONMENTAL SITE ASSESSMENT

2.1 FACILITY DESCRIPTIONS

The Brown-Bridge operations consist of two facilities located at 518 East Water Street (Plant 1) and 30 Mary-Bill Drive (Plant 2) in the City of Troy, Miami County, Ohio. These facilities employ approximately 175 and 125 individuals at each Plant, respectively. Plant 1 is located in an area which is predominately residential, while Plant 2 is located in an industrial park bordered by agricultural land. Figure 2-1 presents a topographic area map that shows the location of each site. Plant 1 is located on approximately five acres with 295,000 square feet occupied by manufacturing, warehouse, office and operations support utilities. Brown-Bridge also owns a contiguous residential lot adjacent to the western portion of the site. The facility consists of seven interconnected buildings (noted as Buildings 1-A, 1-B, 1, 2, 3, 4 and 5) which are wooden and metal framed, concrete block and brick structures. The remainder of the Plant 1 site includes material storage areas, receiving and bulk loading/unloading areas, process utilities and other common elements such as parking lots, access roadways, sidewalks, storm water control features, etc.

Plant 2 also includes manufacturing, warehouse, office and operations support utilities and is located on a 10 acre site. The manufacturing facility occupies 95,000 square feet and is a steel frame and panel structure situated on a concrete slab. The remainder of the Plant 2 site consists of raw material storage areas, receiving and bulk loading/unloading locations, parking lots, access roads, sidewalks, utilities, storm water control features, and open mowed areas. Figures 2-2 and 2-3 provide detailed site maps of each facility.



TROY QUADRANGLE
OHIO–MIAMI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

N

SITE LOCATION MAP
PLANT 1 & 2
BROWN - BRIDGE FACILITY

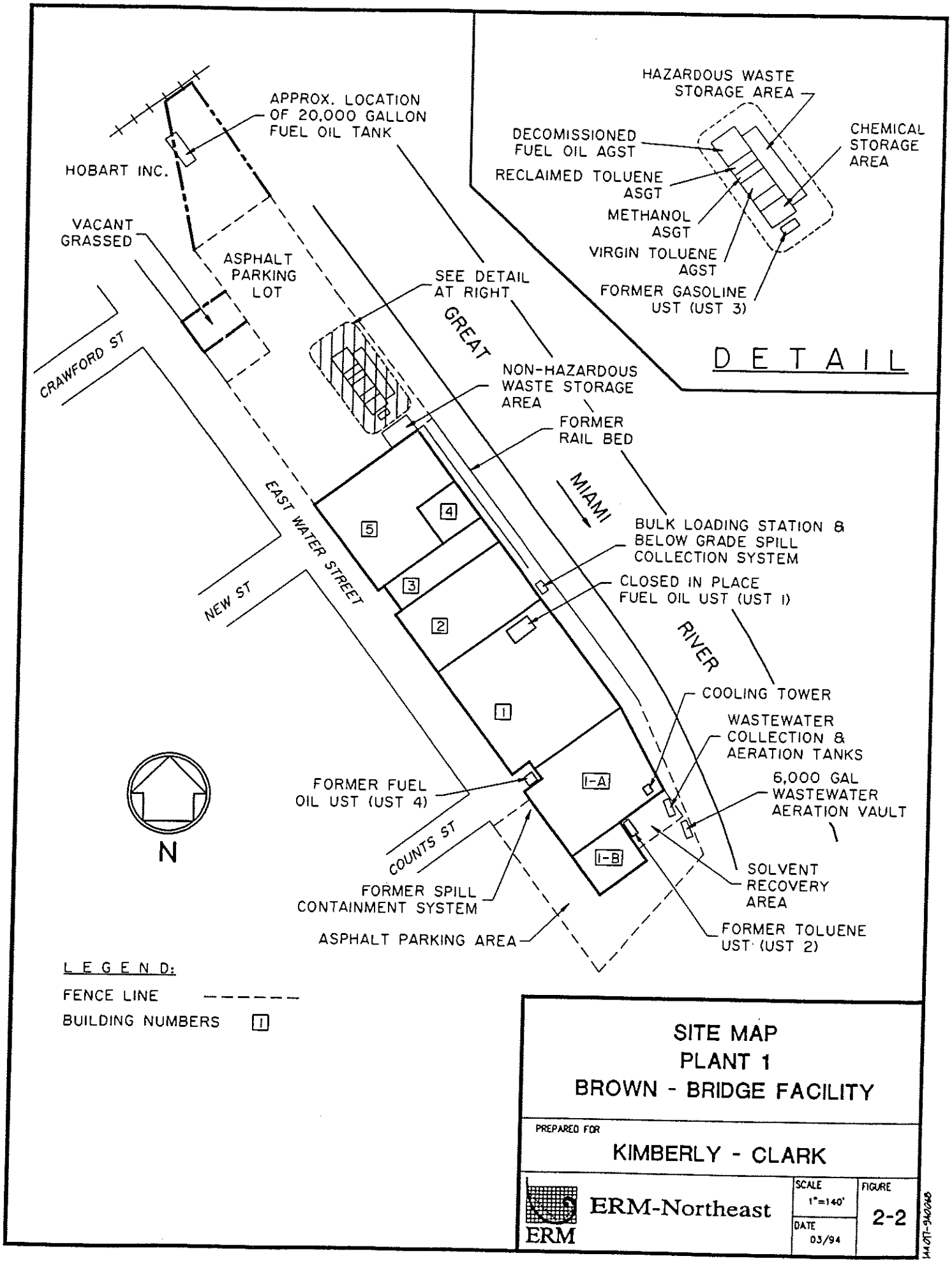
PREPARED FOR

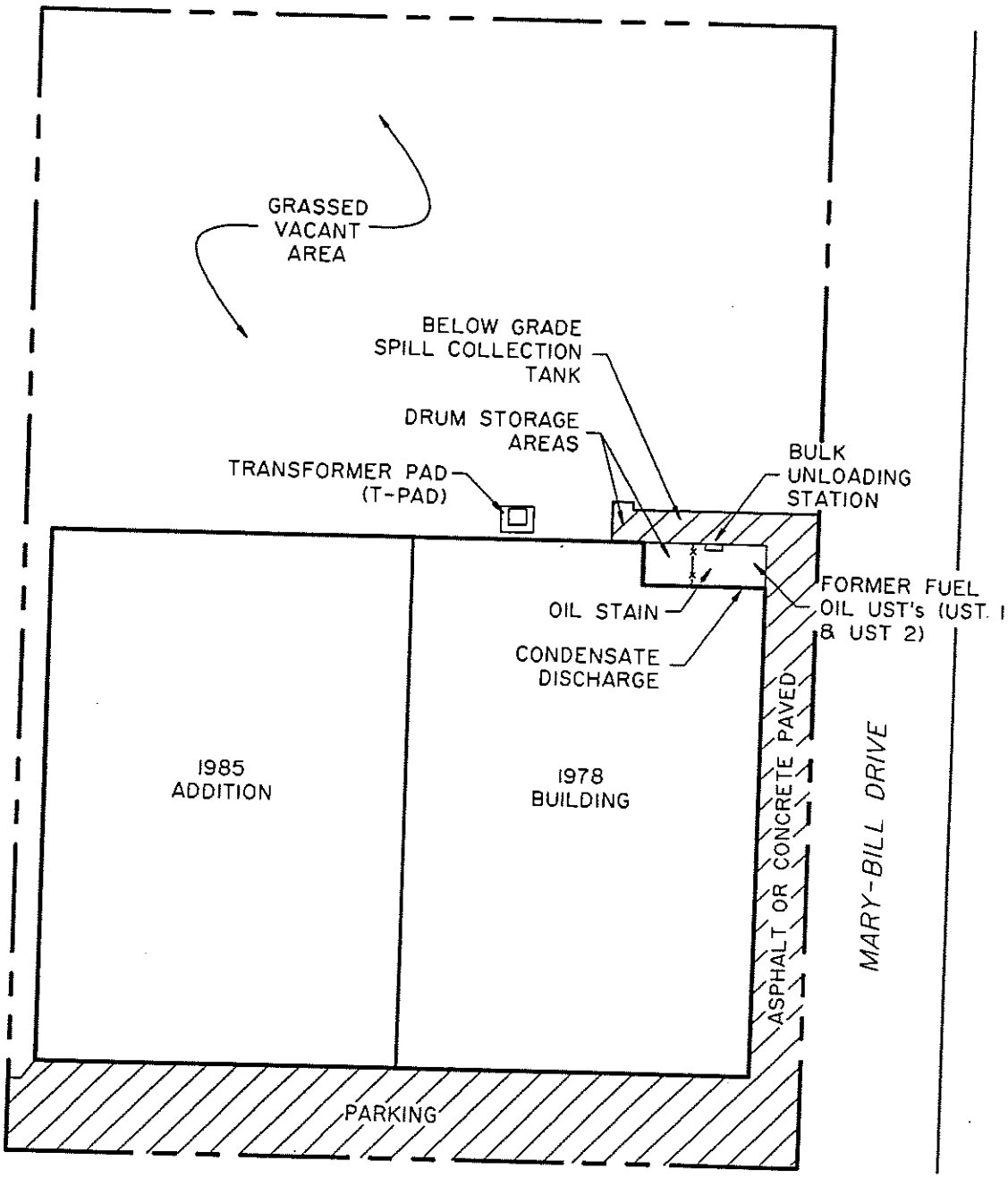
KIMBERLY - CLARK

ERM-Northeast

SCALE	FIGURE
1:24000	2-1
DATE 03/94	

MA017-940067


HAZARDOUS WASTE STORAGE AREA
DECOMISSIONED FUEL OIL AGST
CHEMICAL STORAGE AREA
RECLAIMED TOLUENE ASGT
METHANOL ASGT
VIRGIN TOLUENE AGST
FORMER GASOLINE UST (UST 3)
DETAIL
APPROX. LOCATION OF 20,000 GALLON FUEL OIL TANK
HOBART INC.
VACANT GRASSED
ASPHALT PARKING LOT
SEE DETAIL AT RIGHT
GREAT
CRAWFORD ST
NON-HAZARDOUS WASTE STORAGE AREA
FORMER RAIL BED
MIAMI
EAST WATER STREET
BULK LOADING STATION & BELOW GRADE SPILL COLLECTION SYSTEM
CLOSED IN PLACE FUEL OIL UST (UST 1)
NEW ST
RIVER
COOLING TOWER
WASTEWATER COLLECTION & AERATION TANKS
6,000 GAL WASTEWATER AERATION VAULT
FORMER FUEL OIL UST (UST 4)
COUNTS ST
SOLVENT RECOVERY AREA
FORMER SPILL CONTAINMENT SYSTEM
ASPHALT PARKING AREA
FORMER TOLUENE UST (UST 2)
N
LEGEND:
FENCE LINE
BUILDING NUMBERS
SITE MAP
PLANT 1
BROWN - BRIDGE FACILITY
PREPARED FOR
KIMBERLY - CLARK
ERM-Northeast
SCALE 1"=140'
DATE 03/94
FIGURE 2-2



N

SITE MAP
PLANT 2
BROWN - BRIDGE FACILITY

PREPARED FOR

KIMBERLY - CLARK

ERM-Northeast

SCALE	FIGURE
1"=100'	2-3
DATE 03/94	

2.2 *FACILITY OPERATIONS*

Brown-Bridge operations manufacture pressure, moisture, and heat sensitive adhesive papers for postage stamps, labels and other applications. The process involves the coating of rolled paper stock with water, acrylic, rubber or solvent based adhesives as well as "hot-melt" glues. Seven paper coaters are operated at Plant 1 and three are operated at Plant 2.

Water and acrylic based coating operations are conducted at both Plant 1 and Plant 2. These operations involve the preparation of adhesives using batch physical and chemical methods. Batched adhesives are delivered to paper coating machines where they are applied to the rolled stock. Plant 2 also manufactures silicone coated label backing material. Following adhesive application or the silicone backing process, stock is prepared for final packaging, through a variety of converting operations (e.g., rolling, sheeting, splitting, embossing, etc.).

Manufacturing operations using solvent based adhesives occur only in Plant 1. Solvents (toluene, isopropyl alcohol and methanol) are pre-mixed in enclosed vessels and transferred to the coating operations as needed. Coated papers are dried in gas heated ovens, where volatilized solvent is captured and directed to a carbon adsorption solvent recovery unit. The paper exits the oven and is prepared for converting and final packaging.

Manufacturing operations are supported by four gas-fired boilers at Plant 1. These boilers heat the facility and provide steam for manufacturing operations. Plant 2 is supported by a gas-fired steam generator and maintains a stand-by boiler which was not operating during the site visit. Both facilities have maintenance shops with a process control laboratory operated at Plant 1.

Raw materials and maintenance chemicals are maintained at both Plants in portable containers with capacities up to 275 gallons. The majority of chemicals are non-hazardous water and acrylic based adhesive emulsions, silicone, and rubber-based compounds. With the exception of flammable materials, container storage is conducted at various locations within the manufacturing buildings. At Plant 1 and Plant 2, flammable raw materials are stored in fenced areas outside of the manufacturing facility. Wastes, non-hazardous and hazardous, are also maintained in fenced areas outside of the Plants.

The facility utilizes bulk chemical storage for both raw materials related to water, acrylic and solvent-based adhesives. Eight bulk storage tanks serve Plant 1. Five of these tanks are located adjacent to west side of the manufacturing facility. Four of the five exterior tanks at Plant 1 are located within a concrete walled tank farm. The tank farm includes three 10,000 gallon aboveground storage tanks (ASTs) containing virgin toluene, reclaimed toluene, and methanol and one decommissioned 30,000 gallon fuel oil tank. A 250 gallon gasoline tank is located within the exterior raw material storage area and a 6000 gallon water-based emulsion tank is located in the basement of Building 5. Two additional emulsion bulk tanks are also present in Building 2.

Seven bulk storage tanks serve Plant 2. All tanks are within the manufacturing facility and contain various water and acrylic based adhesive raw materials.

Electrical service and natural gas is provided to both Plant 1 and 2 by Dayton Power and Light. Potable water is provided to the facilities by the City of Troy. At Plant 1, sanitary and process wastes are discharged to a municipal wastewater treatment plant, while storm water runoff and non-contact cooling waters are discharged to the Great Miami River. At Plant

2, sanitary and process flows also discharge to the municipal treatment plant, while storm water either infiltrates directly into the ground or flows to a municipal storm sewer system which services the site. Plant 1 is heated by a natural gas-fired boiler and electric roof-mounted HVAC units. Plant 2 is heated by gas-fired HVAC units.

2.3 *ENVIRONMENTAL SETTING*

Plant 1 is located on relatively flat terrain with an approximate elevation of 820 feet above mean sea level (MSL). The northeast perimeter of the site is bordered by a earthen levee which protects the facility from the Great Miami River adjacent to the site. Well log information from on-site borings associated with recent subsurface investigations (conducted in 1993 and described in Section 2.6.8), indicate that shallow ground water is present at a depths from 12 to 18 feet below grade. Bedrock was not encountered during these investigations, with the deepest borings extending to 23 feet. Soils underlying the area were generally reported as light to dark brown clays, sand and gravel associated with glacial outwash and alluvial deposits.

In general, surface geology of the of area is characterized by Wisconsinan Age glacial drift which covers the entire county. The drift varies in thickness from a few inches where bedrock is exposed to more than 200 feet where drift fills old preglacial streams valleys. The bedrock in Miami County consists of horizontally bedded sedimentary rocks. Most of the outcropping rock is limestone and dolostone. Plant 1 is within the 500-year floodplain of the Great Miami River. No apparent wetlands or marsh areas were observed on the property of the Plant 1 site.

Plant 2 is located on upland flat terrain with an approximate elevation of 920 feet above MSL. No surface waters border the site. The site is not

within the 100 or 500 year flood plain as delineated by local flood hazard boundary maps. Soils in the area consist of brownish-gray silts and yellowish-brown/brownish-gray mottled silty clays of the Crosby Series. No apparent wetlands or marsh areas were observed on the property of the Plant 2 site.

2.4 *LAND USE*

2.4.1 *Current Land Use*

Plant 1 is located in an area which is predominately residential. East Water Street borders the Plant to the south with two schools (one built between 1911 and 1923 with the second constructed in 1955) across from the plant. Residential properties abuts the eastern boundary of the parcel. To the west residential parcels and a cabinet manufacturer (Hobart, Inc.) are adjacent to the boundary of Plant 1.

Two municipal drinking water wells fields are located north of Plant 1 and across the Great Miami River. The first field includes three wells which are located approximately 3/4 of a mile upriver from the facility. The second field includes five wells which are situated along the northern bank of the River with first well located across from the northeast corner of the site. Four subsequent wells extend down river and are spaced on approximately 300 foot intervals. Wells in the second field range in depth from 110 to 117 feet. Mr. John Schaeffer, of the City of Troy's Water Department, reported excellent potable water quality and indicated that wells are monitored on a quarterly basis for contaminants, which include volatile organic compounds and heavy metals. Mr. Schaeffer also indicated that a complete 40 CFR Part 264 Appendix IX analytical evaluation is conducted annually with no reported detection of these materials in any of the wells adjacent to or down river from Plant 1.

Plant 2 is located in an industrial park area. Sites surrounding the facility appear to be light service and/or industrial manufacturing. To the north, the Plant is bordered by the Troy Daily News property. The facility is bordered to the east by Mary-Bill Drive. Directly across Mary-Bill Drive is West Tool and Die Company. To the south, Roconex, Inc. borders the site with agricultural land adjacent to the western boundary of Plant 2.

2.4.2 *Historic Land Use*

Historic land use at the facilities was reviewed during a recent environmental assessment (October, 1993). A review of records maintained by the Troy Historical Society indicated that the Plant 1 site was used as a brick storage yard in 1854. In 1866, a whiskey distillery began operations at the Plant site. The distillery operated in a structure near the location of what is currently Building 3. The distillery was reconstructed in 1911 following a train derailment from the B&O Railroad track located northwest of the site. An addition to the original structure was built in 1912 (Building 2). After a flood event which occurred in 1913, the levee was constructed along the Great Miami River. The distillery continued operations on-site until closed by prohibition in 1922. In 1928, Brown-Bridge Paper Company purchased the property and began manufacturing paper products. Additions to the original structures occurred in 1946 (Building 1), 1951 (Building 4), 1957 (Building 1-A), 1968 (Building 5) and 1980 (Building 1-B). The previous assessment also reported the presence of an auto valve grinding facility and later a dry cleaning operation from a review of Sanborn Fire Insurance Maps dated 1923, 1931, 1942 and 1955. These facilities were located in the area which is currently the west parking lot of Plant 1. Kimberly-Clark purchased the Brown-Bridge Paper Company in 1971 and has operated the facility since this date. ERM reviewed Sanborn Fire Insurance Maps dated 1898, 1905, 1911, 1923, 1931, 1947 and 1955. The maps confirmed historic use as

described above.

Plant 2 was constructed in 1978 and expanded in 1985. Previously the site has been used as agricultural land and as an experimental farm. Mr. Tim Foreman of the City of Troy Building Department indicated that the Plant 2 site and surrounding areas were sparsely wooded agricultural fields prior development in the early to mid-1970's.

Real Estate records relating to both the Plant 1 and Plant 2 properties were provided to ERM by Kimberly-Clark. A review of these documents revealed no apparent environmental liens on either the Plant 1 or Plant 2 parcels.

2.5 *REGULATORY REVIEW*

Regulatory review activities consisted of: an evaluation of information obtained through regulatory database searches conducted by Environmental Risk Information & Imaging Service, Inc. (ERIIS); contacts with state and local regulatory personnel; and an examination of a previous environmental assessment and prior investigations of both the Plant 1 and Plant 2 sites.

Information was obtained from two ERIIS reports prepared specifically for the subject sites. ERIIS report 43687 prepared on 25 March 1994 addresses the 518 E. Water Street property, Plant 1. ERIIS report 43686 was also prepared on 25 March 1994 and addresses the 30 Mary-Bill Drive property, Plant 2. Regulatory searches included a review of the following databases for facilities within Phase I Environmental Site Assessment radii standards specified by the American Society of Testing and Materials (ASTM). Figures 2-4 and 2-5 present environmental site maps that summarize the information obtained from environmental databases.

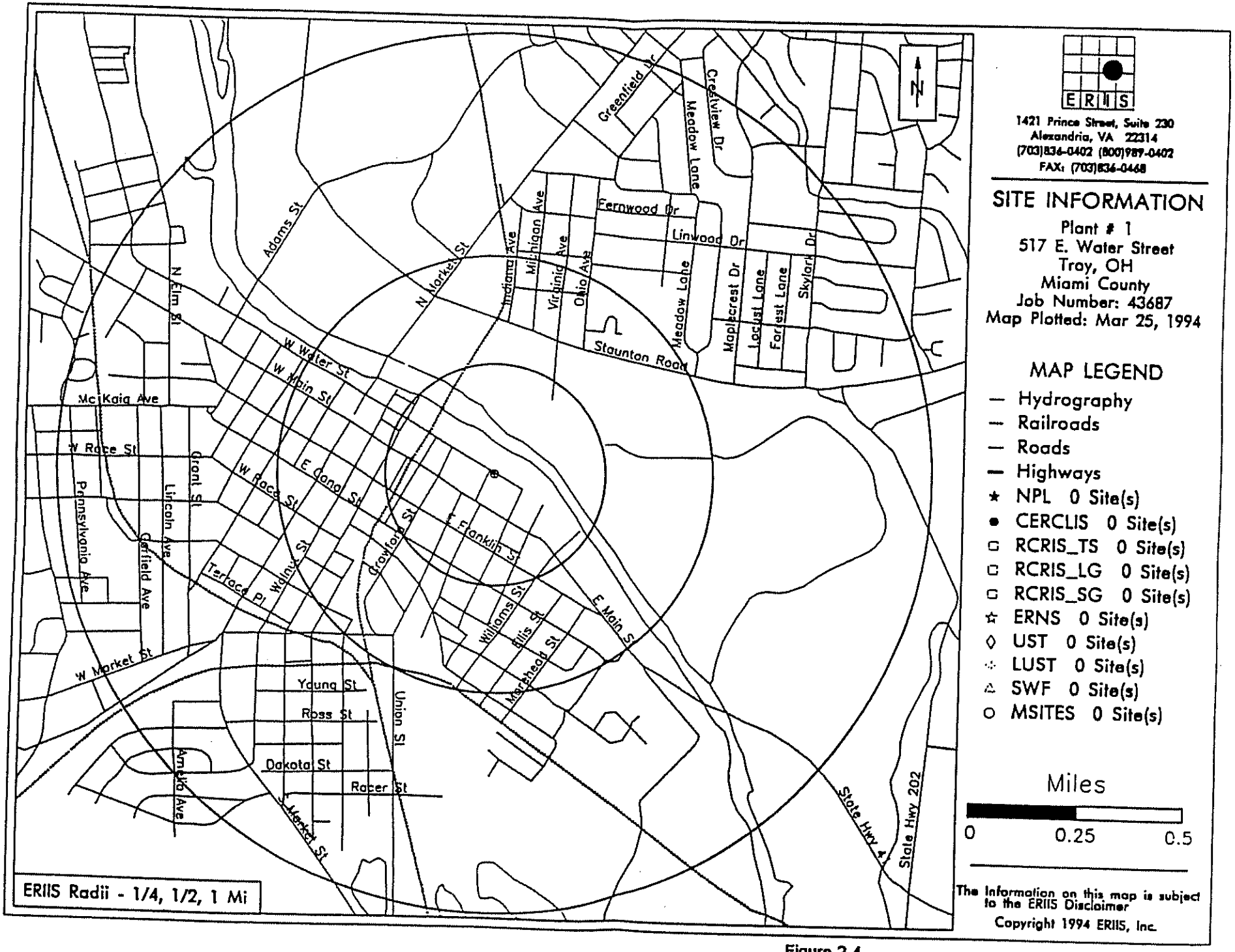


Figure 2-4
A summary of the results of Site Assessment Database Search for the Plant 1 facility.

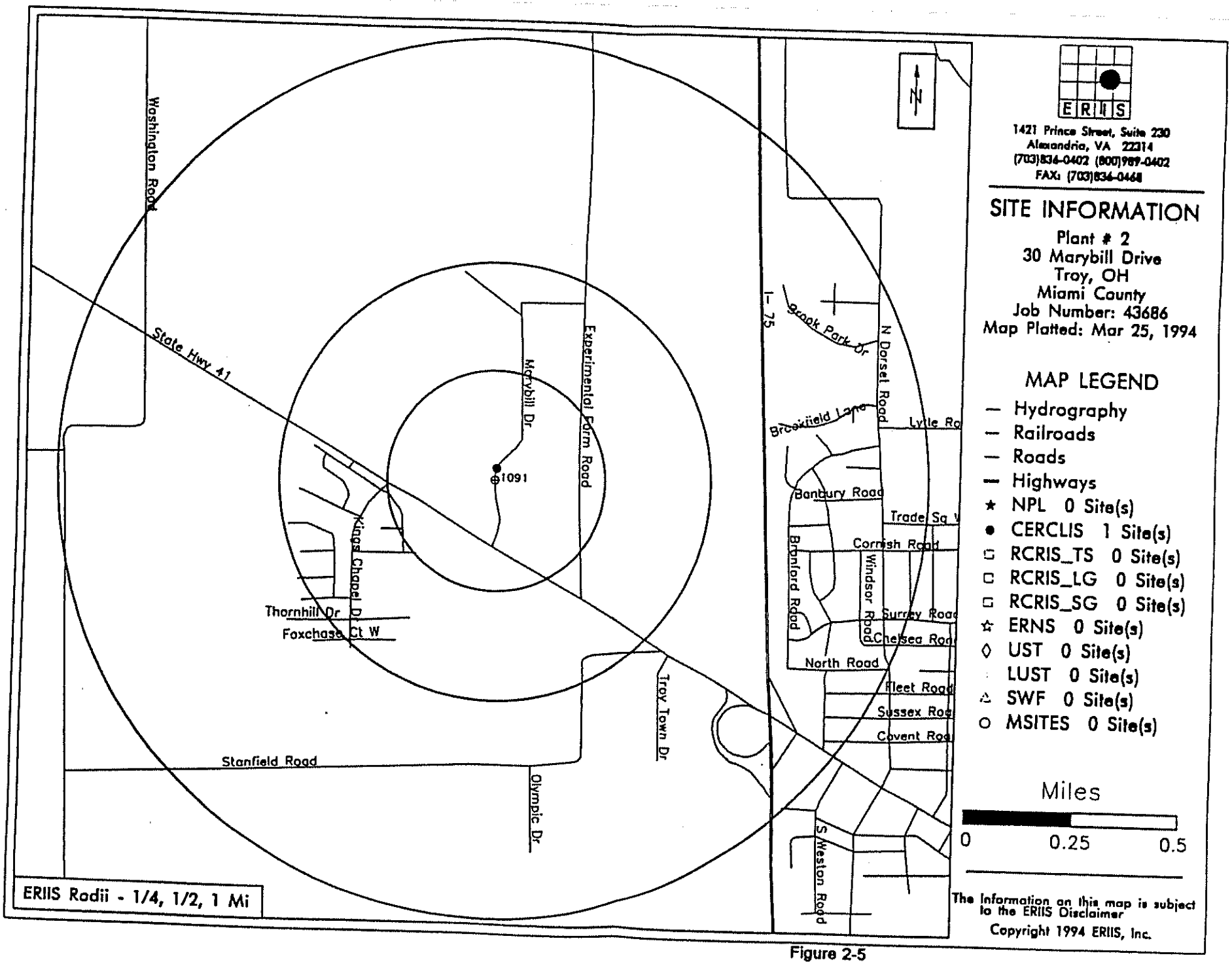


Figure 2-5
A summary of the results of Site Assessment Database Search for the Plant 2 facility.

Appendix A provides a copy of the environmental site assessment regulatory database information for both the Plant 1 and Plant 2 facilities.

A brief description of each database searched and the search radii are as follows:

- *National Priorities List (NPL) - 1 mile:* The NPL, also known as the Superfund List, is the United States Environmental Protection Agency's (USEPA) inventory of uncontrolled or abandoned hazardous waste sites that are targeted for possible long-term remedial action under CERCLA.

- *Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) - 0.5 mile:* The CERCLIS is USEPA's database of known and suspected abandoned hazardous waste sites. Listed sites have been investigated, or are currently under investigation, by USEPA for release or threatened release of hazardous substances. Sites placed on CERCLIS are subjected to review and evaluation and may be determined to be of little or no concern or may be subjected to additional levels of review and evaluation possibly leading to placement on the NPL.

- *Resource Conservation and Recovery Information System (RCRIS) - 1 mile for Treatment, Storage and Disposal Facilities (TSDs) - 0.25 mile for Large Quantity Generators (LQGs) and Small Quantity Generators (SQGs):* RCRIS contains information on facilities that generate, treat, store or dispose of hazardous waste.

- *Emergency Response Notification System (ERNS) - 0.5 mile:* The ERNS database records information on the sudden and/or accidental release of hazardous substances and petroleum into the

environment.

- *Underground Storage Tanks (UST) - 0.25 mile:* The Ohio UST report is a comprehensive listing of all registered USTs within Ohio.

- *Leaking Underground Storage Tanks (LUST) - 0.5 mile:* The Ohio LUST report, formerly the Petroleum Underground Storage Tank Release Incident Report (PUSTR), is a comprehensive listing of all reported leaking USTs within Ohio.

- *Solid Waste Facilities (SWF) - 0.5 mile:* The Ohio Solid Waste Facility List contains summary information pertaining to all permitted solid waste landfills operating within Ohio.

- *Ohio Master Sites List (MSL) - 1 mile:* The MSL, also known as the Ohio State Superfund List (MSITES), tracks sites in Ohio where hazardous waste has been found or where there are known, suspected, or likely release of such waste from a facility.

With the exception of the subject sites (identified as RCRIS facilities - see hazardous waste discussion in Section 2.6.5) and one other facility, no NPL, CERCLIS, RCRIS, ERNS, UST, LUST, SWF or MSITES sites were identified as located within the search radii of either Plant 1 or Plant 2. The other facility identified, Chromparts, Inc., was identified as a CERCLIS site located approximately 1/4 mile northeast of Plant 2. According to ERIIS, Chromparts was discovered under CERCLA on 1 June 1981. A preliminary assessment was conducted on 30 June 1987. A second preliminary assessment was conducted on 28 March 1990 and no further action was recommended.

The ERNS database zip code search indicated that one reported release

has occurred within the same zip code as the two Plants. This release occurred at Deltech Polymers, Inc. located at 1250 South Union Street, Troy. The ERIIS report summary indicates that on 10 February 1992, 700 gallons of lubricating oil was released to the land surface. The release was contained with dirt and collected with a vacuum truck. Reportedly, the release only affected the surface soil. Because only surface soil was affected and the spill site is not within 1-mile of either Plant 1 or Plant 2, this release would not be expected to have adversely affected the subject sites.

In addition to review of the ERIIS database summaries and in recognition of the due diligence component of this assessment, ERM interviewed select local and state regulatory personnel regarding both subject sites. Persons interviewed and their pertinent comments are summarized below.

- *Mr. Dick Zimmerman, Chief, Troy Fire Department:* Mr. Zimmerman indicated that Fire Department records did not appear to be complete. Regarding Plant 1, he recalled that a 15,000 gallon fuel oil UST was previously closed in place. He did not recall, nor have record of any additional USTs removal activities at the Plant 1 site. Regarding Plant 2, he recalls that two 15,000-gallon fuel oil tanks were removed in 1988. Mr. Zimmerman could not locate Fire Department records regarding any reported releases associated with these USTs.

  Mr. Zimmerman further indicated that his knowledge of both subject sites and their respective surrounding areas did not suggest significant potential for the Brown-Bridge properties to be adversely affected.

  In addition, Mr. Zimmerman was aware of a property boundary

dispute between Plant 1 and Hobart, an adjacent company. He indicated that Hobart uses a 20,000-gallon fuel oil UST which may be partially located on the Plant 1 property.

- *Mr. Mark Livengood, City of Troy Sewer Department:* Mr. Livengood was not aware of any issues associated with either Plant 1, Plant 2 or nearby parcels which would adversely affect the subject properties. He confirmed that Plant 1 discharges to the local POTW and further indicated that the Plant's discharge is monitored quarterly and is, both currently and historically, in full compliance with effluent limits.

- *Mr. Mike Zimmerman, Ohio EPA - Southwest District Office (SWDO), Division of Surface Water:* Mr. Zimmerman has visited both sites and was not aware of any issues associated with either Plant 1, Plant 2 or nearby properties which would adversely affect the subject sites. He further indicated that Plant 1 has an NPDES permit for discharges of non-contact cooling waters and storm water, and noted the facility was in full compliance.

- *Mr. Mark Boden, Ohio EPA - SWDO, Hazardous Waste Division of Hazardous Waste Management:* Mr. Boden was not aware of any issues associated with either Plant 1, Plant 2 or nearby properties which would adversely affect the subject sites. Mr. Boden has only inspected Plant 1 and indicated the facility is currently in full compliance.

- *Mr. Tim Wilson, Ohio EPA - SWDO, Division of Air Pollution Control*: Mr. Wilson was not aware of any issues associated with either Plant 1, Plant 2 or nearby properties which would adversely affect the subject sites. Mr. Wilson has only inspected Plant 1 and

noted that the facility maintains permits for VOC emissions from coating lines and recently conducted stack testing to obtain compliance certification. While Mr. Wilson has not yet reviewed the results of the stack tests, he does not anticipate a permit concern.

- *Ms. Lee Ann Leach, Ohio EPA - SWDO, Division of Emergency and Remedial Response*: Ms. Leach was interviewed regarding the CERCLIS site, Chromparts, Inc., located near Plant 2. Ms. Leach confirmed ERIIS information and also provided a preliminary assessment narrative. Her narrative indicated the site has been assigned a low priority due to an inability to confirm that hazardous waste was improperly disposed at the site.

2.6 *FACILITY INSPECTIONS*

The following paragraphs describe the results of ERM's review of:

- *Chemical Usage, Storage and Control*;
- *PCBs*;
- *Water Supply, Wastewater and Storm Water*;
- *Asbestos Containing Material*;
- *Solid and Hazardous Waste*;
- *Air Emissions*; and
- *Off-site Superfund Liability*;

related issues at both the Plant 1 and Plant 2 sites. In addition, ERM has reviewed the results of subsurface environmental investigations which were conducted in late 1993 at both facilities. The purpose of our review was to evaluate the adequacy of these recent investigations in characterizing potential environmental conditions which may exist at the subject sites and

to evaluate the proposed remedies. Section 2.6.8 of this report summarizes our review of these investigations.

2.6.1 *Chemical Usage, Storage and Control*

As previously described, raw materials and maintenance chemicals are maintained at both Plants in portable containers with capacities up to 275 gallons. The majority of chemicals are non-hazardous water and acrylic based adhesive emulsions, silicone, and rubber-based compounds. These materials are stored within the facility structures, with the exception of flammable materials, which are stored in explosion proof cabinets or in fenced areas outside of each manufacturing facility.

Chemical storage locations were examined during on-site visual reviews. Storage areas within Plant 1 and 2 were generally well maintained and situated such that spills or leaks could be contained by the facility structure or within the wastewater collection system of the Plant. No evidence of significant spills or leaks were noted within the interior structures during the site tour. Three bulk storage tanks were noted inside Plant 1 and seven within Plant 2. The tanks appeared in good condition, with no evidence of spills or leaks observed.

Exterior raw material storage/handling areas were also examined as part of the on-site review. At Plant 1 these areas included:

- *Four bulk storage tanks*: situated within a concrete secondary containment structure and located in the west parking lot. The bulk storage facility included three 10,000 gallon ASTs containing virgin toluene, reclaimed toluene, and methanol and one decommissioned 30,000 gallon fuel oil tank. A tanker unloading station, with a containment berm was also located in this area;

- *A concrete raw material storage pad*: containing drummed flammable materials (isopropyl alcohol, adhesives containing isopropyl alcohol, mineral spirits) and 1,1,1-trichloroethane. Typically ten to twenty 55 gallon drums are stored in this area. One 250 gallon gasoline AST, and a containment sump were noted in this area as well.

- *Two bulk unloading areas*: the first area was located behind Plant 1 (river side) and at the end of a former rail spur. Acrylic based adhesive emulsions are unloaded in this area and delivered to bulk tanks within the facility. This system included a concrete containment pad with a below grade vault used to collect inadvertent spills or contaminated runoff from the area. A second bulk unloading station, used for the delivery of adhesives to an AST within Building 5, was also noted on the west side of the facility. This unloading station did not have a complete secondary containment system; however, the unloading ramp is sloped toward the building edge which is curbed.

At the time of the site visit these systems appeared in good condition, with no evidence of significant spills or leaks observed. The facility personnel indicated that rainwater runoff, which collects in existing containment structures, is visually examined to confirm contaminants are not present prior to discharge to the Plant 1 storm sewer system.

In addition to the chemical handling systems described above, an existing 20,000 gallon fuel oil UST was noted in the northwest section of the Plant 1 parcel. Recent parcel boundary surveys appear to indicate that this UST intersects the Brown-Bridge/Hobart properties. This tank is owned and operated by Hobart, which has informed facility personnel that leaks or releases associated with the UST have not occurred.

During the site review, facility personnel also indicated that a toluene spill had occurred at the Plant 1 site in January of 1994. Brown-Bridge personnel noted that approximately 500 gallons of toluene was released to the soil from an above grade pump located in the southwest corner of the carbon adsorption solvent recovery system. The release was reported to the Ohio EPA and approximately 74 cubic yards of soil was excavated and prepared for off-site disposal. A final sample was collected from the base of the excavation. Analysis of that sample indicated concentrations at the base of the excavation contained less than 2.5 ppm toluene. These results were presented to representatives of the Ohio EPA, and upon Agency approval, the excavation was backfilled with gravel.

In addition to current material handling practices, information regarding historic chemical use at the Plant 1 site was reviewed. Historically, four underground storage tanks (USTs) were formerly operated at Plant 1. Table 2-1 summarizes available information relating to these former USTs.

Locations of the former USTs are identified on Figure 2-2. Leak tests were conducted on USTs 2 and 3 prior to removal (1987). Tests indicated that neither tank was leaking, however soil samples collected at UST 2 indicated the presence of toluene near the southeast corner of the tank. Reportedly, the release was associated with aboveground lines and remediated during and after removal of the UST, with notification to the Ohio EPA. In addition to the UST's described above, site records also indicated that a former spill containment tank once existed in an area which was located east of the shipping docks (just inside the gate of what is now the east parking lot). The tank likely provided spill containment for loading operations associated with a former fuel oil UST located nearby (UST 4).

TABLE 2-1
PLANT 1 FORMER UST LOCATIONS
KIMBERLY-CLARK BROWN-BRIDGE FACILITIES
TROY, OHIO

Plant 1 UST No.	Date Installed	Volume (Gallons)	Contents	Status	Reported Release
1	Unknown	15,000	Fuel Oil	Closed in Place 10-14-88	No
2	1973	3,000	Toluene	Removed 07-11-88	Yes
3	Unknown	400	Gasoline	Removed 12-15-88	No
4	Unknown	3,000	Fuel Oil	Removed 1986	No

As previously described, an auto valve grinding facility and later a dry cleaning facility were also operated in the area which is currently the west parking lot of Plant 1. While materials management practices for these facilities are unknown, Section 2.6.8 describes recent subsurface investigations which were conducted to characterize potential negative environmental conditions that may have been associated with these operations.

Exterior raw material storage/handling areas at Plant 2 were also examined as part of the on-site review. These areas included:

- *A concrete drum storage pad:* containing drummed flammable materials (isopropyl alcohol and mineral spirits), mineral oil, acetic acid, hazardous and non-hazardous waste, one 55 gallon drum collecting residual oil from a coater vent stack and a secondary containment sump. Typically fifteen to twenty-five 55 gallon drums are maintained at this location;

- *A bulk unloading station:* located north of the Plant's drum storage pad. Acrylic based adhesive emulsions are unloaded in this area and delivered to bulk tanks within the facility. This system included a concrete containment pad with a below grade vault used to collect inadvertent spills or contaminated runoff from the area.

During the site visit oil staining was noted on the drum storage pad and soils adjacent to the east side of the pad structure. The area of stained soil was approximately 1 foot wide and extended about 10 feet along the pad perimeter. Presumably the oil originated from a coater vent stack which is located directly above the pad. At the time of the site review, this residual oil was being collected in a 55 gallon drum placed beneath the coater vent.

No evidence of significant spills or leaks was observed on or near the bulk unloading station. The facility personnel indicated that rainwater runoff which collects in existing containment structures (for both the drum storage areas and the unloading station) is visually examined to confirm contaminants are not present prior to discharge to adjacent grassy areas of the site.

Historic storage practices at the Plant 2 site also included the operation of two USTs. Table 2-2 summarizes available information relating to these former USTs.

Locations of the former USTs are identified on Figure 2-3. According to reports provided by the facility, only minor soil contamination typical of overfills was encountered during the excavation and removal of these tanks.

TABLE 2-2
PLANT 2 FORMER UST LOCATIONS
KIMBERLY-CLARK BROWN-BRIDGE FACILITIES
TROY, OHIO

Plant 2 UST No.	Date Installed	Volume (Gallons)	Contents	Status	Reported Release
1	Unknown	15,000	Fuel Oil	Removed 10-27-88	No
2	Unknown	15,000	Fuel Oil	Removed 10-27-88	No

2.6.2 *PCBs*

Plant 1 operates eleven mineral oil filled transformers. PCB dielectric fluids were removed from these transformers for off-site disposal prior to the end of 1983. Subsequent retests of the dielectric fluids confirm transformers remain classified as "non-PCB". In 1987, three PCB capacitors were also removed from the site. Conversations with Mr. Charlie Karnehm and Mr. Wayne Monnin (Brown-Bridge maintenance personnel) indicated that no PCB spills or releases have occurred at the Plant 1 facility. A review of facility records indicated these materials were shipped off-site for proper disposal.

Transformers at Plant 2 do not contain dielectric fluids. According to Mr. Monnin, PCB fluids have never been present at the Plant 2 site. No pole transformers were noted at either Plant 1 or Plant 2.

2.6.3 *Water Supply, Wastewater and Storm Water*

Potable water is supplied to both facilities by the City of Troy. Neither facility stores or processes drinking water.

Plant 1 operates two non-potable wells (designated E-Well and W-Well). These wells provide non-contact cooling water to the site. The exact location of the wells was not known at the time of the site visit. During the previous environmental assessment, waters from the well were tested for halogenated volatile organics, RCRA metals (barium, cadmium, chromium, lead, silver, arsenic, mercury and selenium), PAH (polyaromatic hydrocarbons) and BTEX (benzene, toluene, ethylbenzene, and xylene) parameters. Grab samples collected were "split" and analyzed by two independent laboratories. Analytical results reported by one laboratory did not detect halogenated volatile organics or BTEX in samples collected from either of the two supply wells (this laboratory did not evaluate RCRA metals or PAH compounds). Compounds detected by the second laboratory are summarized in Table 2-3. None of the detected concentrations exceeded Federal drinking water standards or maximum contaminant levels.

TABLE 2-3
PLANT 1 SUPPLY WELL ANALYTICAL RESULTS
KIMBERLY-CLARK BROWN-BRIDGE FACILITIES
TROY, OHIO

Plant 1 Supply Well	Parameter	Result (ug/L)	Detection Level (ug/L)	Result Qualified (Estimated Value)
E-Well	Chloroform	1.0	1.0	No
E-Well	Methylene Chloride	0.57	1.0	Yes
E-Well	Toluene	5.9	1.0	No
E-Well	Barium	200	5.0	No
W-Well	Chloroform	0.71	1.0	Yes
W-Well	Methylene Chloride	0.52	1.0	Yes
W-Well	Toluene	0.42	1.0	Yes
W-Well	Barium	380	5.0	No

Wastewaters generated from Plant 1 include non-contact cooling waters (NCCWs), and process wastewaters which are generated from adhesive clean-up operations, the solvent recovery process, boiler blowdown,

condensate, building floor drains, other miscellaneous process waters and sanitary flows.

At Plant 1, NCCWs are generated at a rate of approximately 50,000 gallons per day and are discharged directly to the Great Miami River under the provisions of an Ohio EPA permit. The facility continuously monitors temperature, pH and flow of these discharges. During the previous environmental assessment split samples were collected from this discharge and were evaluated by two independent laboratories using the same procedures described for the non-potable supply wells (with the exception of PAH compounds which were not evaluated for these samples). A summary of the compounds detected is presented in Table 2-4. None of the detected concentrations exceeded Federal drinking water standards or maximum contaminant levels.

TABLE 2-4
PLANT 1 NCCW DISCHARGE ANALYTICAL RESULTS
KIMBERLY-CLARK BROWN-BRIDGE FACILITIES
TROY, OHIO

Laboratory	Parameter	Result (ug/L)	Detection Level (ug/L)	Result Qualified (Estimated Value)
First Lab	Bromodichloromethane	2.0	Not reported	No
First Lab	Chloroform	2.0	Not reported	No
First Lab	Dibromochloromethane	2.0	Not reported	No
First Lab	Toluene	25.0	Not reported	No
Second Lab	Bromomethane	0.25	1.0	Yes
Second Lab	Chloroform	0.40	1.0	Yes
Second Lab	Dichlorobromomethane	0.22	1.0	Yes
Second Lab	Methylene Chloride	0.49	1.0	Yes
Second Lab	1,1,1-Trichloroethane	1.6	1.0	No
Second Lab	Toluene	1.0	1.0	No
Second Lab	Barium	190	5.0	No

Approximately 32,000 gallons per day of process wastewaters from Plant 1

are discharged to the a municipal wastewater treatment plant and are permitted under the City of Troy's pretreatment program. All monitoring is conducted by the City of Troy and funded by Brown-Bridge. No exceedances of wastewater limits have been recorded.

Process wastewaters at Plant 1 are segregated into two streams; non-solvent containing and solvent containing wastewaters. Non-solvent containing waters are discharged to the City of Troy without pretreatment. Solvent containing wastewaters, which are generated from coating operations located on the east side of the facility, are discharge to a multi-tank aeration system to reduce oxygen demand prior to sewering. This system includes two 1500 gallon above grade tanks and one 6000 gallon tank which is below grade. The results of a recent property survey appear to indicate that the 6000 gallon below grade tank may extend beyond the boundary of the Plant 1 parcel. No information regarding the integrity of the subsurface tank was available at the time of this assessment. While no visible stains were noted in the area, facility personnel reported that infrequent overflows of the aeration system have occurred.

Process wastewaters from Plant 2 are also discharged to the municipal wastewater treatment plant; however, flows are less than 10,000 gallons per day and do not require a permit. Wastewaters are generated from a forklift wash-down station, steam condensate, floor drains and sanitary flows.

Storm water at Plant 1 is collected and discharged through two permitted outfalls. One outfall discharges directly to the Great Miami River, while the other is connected to the NCCW outfall. As described above, a previous assessment has detected the presence of chemical constituents in the combined storm water/NCCW discharge. As previously discussed, rainwater runoff which collects in existing containment structures (bulk

tank storage area, the raw material and waste storage areas, and the bulk unloading station spill collection sump) is visually examined to confirm contaminants are not present prior to discharge to the facility's storm sewer system.

Storm water at Plant 2 is collected and discharged to a municipal storm sewer system or directly infiltrates in undeveloped portions of the site. Rainwater runoff which collects in existing containment structures (the raw material and waste storage area and the bulk unloading station spill collection sump) is visually examined to confirm contaminants are not present prior to being pumped out onto grassy areas north of these structures.

2.6.4 *Asbestos Containing Material*

A comprehensive asbestos survey has been completed for Plant 1. While the report was not located during the site review, blueprint drawings showing the locations where bulk samples were obtained and where insulation was removed and replaced with non Asbestos Containing Materials (ACM) was provided. Known ACM insulation has been identified in the facility by a red and blue tape combination. Discussions with the maintenance superintendent indicated that only insulation was sampled and that floor tiles, ceiling tiles, and other potential ACM was not sampled and analyzed during the survey. Because the asbestos survey report was not available for review, it was uncertain whether confirmed ACM removal cost estimates are included in the survey. It was reported to ERM that Brown-Bridge has requested copies of the report from the ACM contractor which should be provided by 13 April 1994.

An ACM survey has not been conducted at Plant 2. Brown-Bridge personnel indicated that asbestos containing material is not expected to be

present due to the time period associated with the Plant 2 construction (1978 original construction, expansion in 1985).

2.6.5 *Solid and Hazardous Waste*

Hazardous and solid waste are generated by both Plants. No on-site disposal activity was noted during the visual site inspection at either facility. The principal non-hazardous wastes generated at Plant 1 include general facility trash, waste oil, liquid emulsion based adhesive waste and off-specification raw materials. General plant trash is accumulated in dumpsters west of Building 5. Waste oil is stored inside Building 2 with typical accumulations of five to six 55 gallon drums prior to off-site disposal. Liquid waste emulsion based adhesive waste and off-specification raw materials are stored upon concrete in the non-hazardous waste collection pad located west of Building 5. Typically 30 to 40 drums of these materials are accumulated on-site prior to disposal.

Plant 1 is classified as a large quantity generator of hazardous waste. The facility generates spent 1,1,1-trichloroethane, waste flammable liquids consisting of methanol and toluene and waste mineral spirits from parts cleaning operations. Hazardous wastes are managed in four satellite accumulation areas and one "90-day" concrete storage pad. The storage pad is equipped with secondary containment structures and is located adjacent to the bulk tank storage area on the west side of the facility. Typically, four to five 55 gallon drums of material are accumulated in this area prior to off-site disposal. No visual evidence of significant spills or leaks were noted during the site inspection.

In 1988, the facility reported storage (greater than 90 days) of approximately 35 gallons of waste pentachlorophenol (formerly used as a boiler water treatment chemical) to the Ohio EPA. The Agency advised

Brown-Bridge to file a hazardous waste storage permit application and other documentation including a closure plan to remove the waste pentachlorophenol from the site. In 1989, Brown-Bridge identified a facility permitted to manage the waste and shipped the material for disposal. In 1990, Ohio EPA approved the closure plan for the pentachlorophenol storage area which was located in Building 2. Closure was certified by Ohio EPA in 1993 at which time the Agency removed the facility's hazardous waste Treatment, Storage and Disposal Facility (TSDF) status. In 1992, USEPA conducted a Preliminary Assessment/Visual Site Inspection (PA/VSI) of Plant 1 to determine if the site was a high priority for Resource Conservation and Recovery Act (RCRA) corrective action. Four Solid Waste Management Units (SWMUs) and one Area of Concern (AOC) were identified during the PA/VSI. These areas included:

- *SWMU 1, the former pentachlorophenol storage area:* EPA concluded that no releases had been documented from this unit and that the area appeared in sound condition with no evidence of release observed during the VSI.

- *SWMU 2, the current hazardous waste storage area:* the Agency concluded that no releases had been documented from this unit and that hairline cracks and a few discontinuous stains were present during the VSI.

- *SWMU 3, six satellite hazardous waste accumulations areas located throughout the facility:* EPA concluded that no releases had been documented from these units and that the areas were in sound condition with no evidence of release observed during the VSI.

- *SWMU 4, the current waste oil storage area:* EPA concluded that no releases had been documented from this unit and that the area was

in sound condition with no evidence of release observed.

- *AOC 1, USTs removed from the site:* EPA characterized the location of five former USTs at the site as an AOC stating that documented releases had occurred from at least one tank (UST 2 - 3,000 gallon toluene tank).

Historically, a solid waste incinerator and concrete lined fly-ash pit were operated at Plant 1. According to Messrs. Karnehm and Monnin the incinerator and ash pit were located near the northwest corner of Building 5 and the location of the bulk storage tank area, respectively. Messrs. Karnehm and Monnin further noted that the incinerator only accepted waste paper from the manufacturing process and that fly ash collected in the pit was shipped for off-site disposal. The operation was terminated in the early to late 1970's when both the incinerator and the ash pit were demolished and transported off-site for disposal.

The principal non-hazardous wastes generated at Plant 2 include general facility trash, waste oil, waste silicone solids, emulsion based adhesives waste and off-specification raw materials. General plant trash is accumulated in dumpsters in the south parking lot. The remaining wastes are stored on the raw material and waste storage pad described above. Typically 8 to 10 drums of these materials are accumulated on-site prior to shipment for off-site disposal.

Plant 2 is also classified as a large quantity hazardous waste generator. The facility generates spent 1,1,1-trichloroethane and waste mineral spirits from parts cleaning operations. Hazardous wastes are accumulated for less than 90 days on the raw material and waste storage pad.

2.6.6 *Air Emissions*

At Plant 1, facility air emissions consist predominately of solvents (toluene, isopropyl alcohol and methanol) and emissions from four gas-fired boilers. Solvent emissions are related to paper coating operations and are permitted under Ohio EPA's Regional Air Pollution Control Agency (RAPCA). As previously described, coater oven solvent emissions are controlled through the use of a carbon adsorption recovery unit prior to venting. Plant 1 has also registered 19 other emission sources with RAPCA, including boilers, paper coating storage tanks and other operations venting to the directly atmosphere.

At Plant 2, non-solvent based adhesive coating and steam generation operations comprise the majority of air emissions. Six emission sources, including coating and steam generation are registered with RAPCA at this facility. Section 3.1 provides additional information on air emissions from both facilities.

2.6.7 *Off-site Superfund Liability*

Plant 1 is currently involved as a PRP or de minimis contributor at four Superfund sites. Facility personnel were unaware of any additional off-site waste disposal liabilities.

2.6.8 *Subsurface Conditions*

Recently two preliminary subsurface investigations were conducted at the Kimberly-Clark Brown-Bridge facilities (October 12-14 and October 20-26, 1993). These investigations were performed to determine if past land uses or site operations had affected soil and/or ground water quality beneath the Plant 1 and Plant 2 properties. Areas evaluated at Plant 1 included:

- *Bulk Tank, Hazardous Waste, and Raw Material Storage Areas* - these areas are situated west of Building 5 and include the location of the former ash pit.

- *Former UST Locations* - as described above, the locations of three former USTs (UST 2 through UST 4) as well as a former spill collection system (near UST 4) were investigated. Subsurface conditions proximate to the existing UST (near the Brown-Bridge/Hobart property boundary) and former UST 1 (which is located beneath Building 1) were not evaluated.

- *Non-Hazardous Waste Storage Area* - this area is located on the northwest corner of Building 5.

- *West Parking Lot* - where records indicate the historic operation of an automotive valve grinding operation and a dry cleaner.

- *Solvent Recovery System* - which is located on the east end of the plant.

- *Bulk Unloading Area* - which includes a subsurface spill collection tank and is located behind Plant 1 (river side).

- *Wastewater Aeration System* - located southeast of Building 1-A.

- *NCCW Supply Wells and Permitted Discharge Stream to the Great Miami River* - as described in Section 2.6.3 above.

Materials handling areas were evaluated at Plant 2 and included:

- *Former UST Locations and Bulk Unloading Area* - as described

above and located in the northeast corner of the Plant 2 building.

- *Raw Material and Waste Storage Area* - also located in the northeast corner of the Plant 2 building.

- *Transformer Pad* - the transformer pad was located on the north side of the Plant 2 Building.

In summary, previous investigations have identified and confirmed the presence of affected soil and ground water at the Brown-Bridge facilities. The most recent investigation report, prepared for Kimberly-Clark by Applied Engineering and Science, Inc. (AES), summarized the results of both investigations as follows:

> [During the first investigation, v]isual observations and field screening of soil samples indicated the presence of soil and ground water contamination at three areas of the Plant 1 property. These areas are: the Bulk and Hazardous Waste Storage Area (releases of the of toluene and fuel oil), the Nonhazardous Waste Storage Area (releases of the solvent trichloroethene), and the Toluene Recovery System (releases of toluene). Also found on the Plant 1 property were low concentrations in soil and ground water of several other volatile organic constituents. At Plant 2, low concentrations of 1,1,1 trichloroethane and 1,1 dichloroethane were detected in the soils and ground water.
>
> The extent of the toluene and fuel oil releases at Plant 1 were not defined by the initial site investigation. Therefore, AES returned to the Brown-Ridge Plant 1 on October 20-26, 1993 to conduct additional soil and ground water sampling. Results of this sampling indicate that the toluene and fuel oil releases from the Bulk and Hazardous Waste Storage Areas extend in a plume approximately 80 by 100 feet. The trichloroethene in the Nonhazardous Waste Storage Area extends in a plume approximately 40 by 80 feet into the east parking lot. Trichloroethene is no longer handled in this area. In the area of the Toluene Recovery System, the toluene plume extends approximately 40 by 80 feet into the east parking lot. A second small area of soil and ground water toluene contamination was found near the underground wastewater aeration tanks.
>
> Remediation of the soil and ground water contamination in the Bulk, Hazardous

Waste and Nonhazardous Waste Storage Areas can be accomplished by excavation of the contaminated soils, bioremediation of the soils in an on-site biopile, and pumping of ground water to a treatment system which would include separation of free product for removal to fuel blending, air stripping of volatile compounds and discharge of the remaining water to the Troy POTW. This remediation is estimated to require five years to complete at a cost of $482,000. Remediation of the soil and ground water contamination in the area of the Toluene Recovery System can be accomplished by installation of a soil vapor extraction and ground water air sparging system. This system would remediate soils and shallow ground water by in situ air stripping of the volatile toluene. This remediation is estimated to require three years to complete at a cost of $235,000.

ERM has reviewed the results of these recent investigations to determine their adequacy in characterizing potential environmental conditions which exist at the subject sites and to evaluate the proposed remedies. The investigations completed to date at the Plant 1 site represent an evaluation of on-site contamination, site geology and hydrogeology, and recommended remediation technologies. In addition to the recommendations provided by these investigations, Section 2.7 of this report supplies additional recommendations offered by ERM. ERM has also examined potential regulatory considerations relating to subsurface conditions at the Plant 1 site. These considerations are addressed in Section 3.5 below.

In summarizing previous investigations at Plant 2, AES reported that no soil or ground water constituents were detected in concentrations above USEPA Maximum Contaminant Levels (MCLs) in drinking water or corrective action levels (CAL's) proposed under RCRA. While the results of previous investigations note the presence of affected environmental media on-site (detections of polyaromatic hydrocarbons in soil and 1,1,1 trichloroethane and 1,1 dichloroethane in ground water and soils), the concentrations observed are indicative of minor spills or leaks related to normal chemical handling activities and do not appear to be associated with a major release of constituents from the materials handling areas at Plant 2. Consequently, further characterization of subsurface conditions at

the material handling areas of the site does not appear warranted at this time.

2.7 *RECOMMENDATIONS ASSOCIATED WITH THE ENVIRONMENTAL SITE ASSESSMENT*

To fully characterize potential environmental conditions and as necessary develop appropriate remedial measures, ERM recommends consideration of the following at Plant 1:

1) The installation, water level measurement and sampling of the permanent monitoring well network prior to initiating remediation (Applied Engineering & Science, Inc. has stated that this effort is included in their planned scope of work).

2) The measurement of water levels in the non-contact cooling water wells and in the river on several occasions to fully understand ground water flow patterns beneath the Plant 1 site.

3) The collection of hydraulic conductivity data from selected wells to ensure appropriate information is available for remedial design.

4) If necessary, the installation of piezometers to characterize the distribution of non-aqueous phase liquid and aid in the development of an appropriate remedy.

5) Following the completion of these steps, pilot studies to optimize the operation of selected remedial systems.

To address stained surface soils at Plant 2, ERM recommends consideration of the following:

6) Excavation, removal, characterization and off-site disposal of stained soils. Prior to backfilling the excavated area, confirmatory samples should be collected and analyzed to ensure complete removal of affected soil. To prevent additional materials from re-entering the soils in this area Brown-Bridge should consider cleaning stains from the pad with proper disposal of residuals. Further, upgraded containment structures should also be considered to ensure oils and other materials stored on the pad are not released to environmental media.

To address potential ACM issues at both Plant 1 and Plant 2, ERM recommends consideration of the following:

7) Brown-Bridge personnel should obtain a copy (should be provided by ACM contractor by 13 April 1993) of the asbestos survey report for Plant 1 to determine the location and extent of material sampled. If upon review of the survey report it is determined that potential ACM has not been sampled, Brown-Bridge should conduct sampling to determine the likely extent of ACM in the facility or obtain as-built drawings or other information to identify the likelihood and extent of ACM at the Plant 1 site.

8) Brown-Bridge should document the absence of ACM within the Plant 2 facility. This documentation can be completed through the use of as-built drawings, surveys or other information which will confirm the absence of ACM in the facility.

3.0 REGULATORY COMPLIANCE AUDIT

3.1 AIR QUALITY

At Plant 1, Brown-Bridge operates three solvent coaters (Coaters No. 2, 5 and 6) under the provisions of a RAPCA permit. In addition, Plant 1 operates 19 registered emission sources, including boilers, tank vents, and other non-solvent based coating operations. In 1994, the facility completed a stack testing evaluation of volatile organic compound emissions from ovens on Coaters No. 5 and 6 (solvent coating). Emissions from these lines are controlled by carbon adsorption recovery units. The test results indicated that VOC emissions were below those specified in Ohio air regulations (Title 37, Chapter 3745-21-09 (F)). Fugitive estimates, combined with the results of the stack test, indicate the facility's total VOC emissions from paper coating are below permit limitations (319 tons/year).

At Plant 2, six emission sources have been registered with RAPCA. These include three non-solvent based paper coating lines, a steam generator, boiler and a process cleaning tank. No permits have been issued for these sources.

Regulatory Issue

Although Brown-Bridge operations have identified, registered and/or permitted some emission sources, other sources exist which require further examination. These sources include: two welding booths (one at Plant 1 and one at Plant 2); a vented hood from a filter cleaning operation (Plant 2); and bulk VOC tank storage (Plant 1). In addition, USEPA New Source Performance Standards (NSPS - Title 40, Code of Federal Regulations (40 CFR) Part 60 Subpart Kb) may be applicable to emissions from the Plant 1 bulk reclaimed toluene tank. Given that this tank:

- is vented to the atmosphere;
- was first used for VOC storage after the applicability date (23 July 1984); and
- has a volume which approaches the minimum applicability threshold (40 cubic meters or 10,500 gallons);

an evaluation of NSPS applicability is warranted.

Recommendation

The facility should examine and develop an inventory of all sources of air emissions at Plants 1 and 2. The facility should examine each source to determine applicability with relevant Ohio air pollution rules relating to permitting, registration and source exemption (ORC 3745-31 and 3745-35). In addition, the facility should calculate the exact capacity of the bulk reclaimed toluene tank to confirm that it is less than 10,500 gallons. Upon completion of these examinations, the facility should document non-applicability or take actions as necessary to comply with relevant provisions of the standards described above.

3.2 *WASTEWATER AND STORM WATER*

Wastewaters generated at Plant 1 include NCCW and process related effluent. NCCW is discharged directly to the Great Miami River under the terms of a Ohio EPA permit (No. 1IF00009*ED). Process related effluent is discharged to a municipal treatment plant under the terms of a permit issued by the City of Troy (Permit No. 9305). Storm water from the facility is collected and discharged to the Great Miami River. Terms and conditions of this discharge are also described within the Ohio EPA permit.

Wastewaters generated at Plant 2 are discharged to the City of Troy.

Wastewater flows do not exceed regulatory thresholds (25,000 gallons per day) hence, a discharge permit is not required for this facility. Storm water at Plant 2 is collected and discharged to a municipal storm sewer system or directly infiltrates in undeveloped portions of the site.

Regulatory Issue

Discharges to the Great Miami River at Plant 1 are limited to storm water and non-contact cooling waters free from process waste and other contaminants. Previous analyses (as described in Section 2.6.3) have identified the presence of trace chemical constituents (particularly toluene) in the effluent.

Recommendation

Brown-Bridge should further investigate the presence of materials detected in NCCW effluents. If the presence of these materials is confirmed, the facility should modify its NCCW discharge permit applications to reflect the presence of these compounds.

Regulatory Issue

The facility's NCCW discharge permit requires the collection and laboratory evaluation of grab samples (one sample every 2 weeks) to determine compliance with pH effluent limitations. Currently the facility reports pH values obtained from a probe and continuous recorder system.

Recommendation

Plant 1 personnel should establish and implement a system to collect and evaluate grab samples (for pH) in accordance with the requirements of the

NCCW discharge permit.

Regulatory Issue

During a four day period in July of 1993, pH values recorded were below the minimum limit (6.5 S.U.) authorized by the Plant 1 NCCW discharge permit. While these values were noted on monthly discharge monitoring reports, non-compliance notification procedures set forth by the permit (General Conditions, Part III, No. 12.) were not completed.

Recommendation

Plant 1 personnel should establish a system to ensure non-compliance notification procedures listed in the Ohio EPA's discharge permit are implemented in the event of a limit exceedance.

Regulatory Issue

Regulatory provisions relating to Spill Pollution Control and Countermeasures (SPCC) Plan preparation (40 CFR 112.7 (b)) require facilities to include a prediction of the direction, rate of flow, and total quantity of oil which could be discharged where experience indicates a reasonable potential for equipment failures. SPCC Plans for Plant 1 and Plant 2 did not include these elements. In addition, the Plant 1 municipal wastewater discharge permit requires potential spills to the city sewer system also be addressed by the SPCC Plan. Spill contingency procedures for possible discharges to the municipal sewer system were not addressed in the SPCC Plan for Plant 1.

Recommendation

SPCC Plans for both Plant 1 and 2 should be modified to include a prediction of the direction, rate of flow, and total quantity of oil which could be discharged where experience indicates a reasonable potential for equipment failures. Spill contingency procedures for releases to the municipal wastewater treatment sewers should also be included in the SPCC Plan for Plant 1.

Regulatory Issue

Plant 2 discharges storm water *"associated with industrial activity"* to a municipal storm sewer system serving a population of less than 100,000. The facility has not filed an application for a storm water discharge permit. USEPA addresses storm water discharges to municipal storm sewer systems serving populations less than 100,000 at 55 FR 48002 where the Agency states that:

> "all storm water discharges associated with industrial activity that discharge through municipal separate storm sewer systems are required to obtain NPDES permit coverage, including those which discharge through systems serving populations less than 100,000."

Recommendation

Brown-Bridge should file a Notice of Intent to comply with the Ohio General Storm Water Permit or file an individual permit application for storm water discharges to the municipal storm sewer from the Plant 2 site in accordance with 40 CFR Part 122.26.

Regulatory Issue

At Plant 2, a condensate discharge was noted adjacent to the north corner of the manufacturing facility. Such flows could be considered discharges to the waters of the State (Ohio's definition of waters of the State includes underground waters) and may require a permit under the provisions of ORC 3745-33.

Recommendation

At Plant 2, the condensate flow noted along the north corner of the building should be rerouted to ensure this stream is not considered a discharge to the waters of the State.

Regulatory Issue

Storm water discharges from Plant 1 are subject to the requirements of the facility's Ohio EPA discharge permit. These flows are restricted to storm water runoff only. One non-storm water discharge stream (ground water infiltration collected in the basement of Building 5) is known to enter the site's storm water collection system. While not observed during the site visit, possible overflows of a cooling tower (associated with the solvent recovery system) and the solvent wastewater aeration system could also affect storm water quality.

Recommendation

Ground water infiltration flows to the basement of Plant 1, Building 5 should be redirected so as not to enter site's storm water collection system. Furthermore, systems should be established and implemented to ensure storm water quality is not affected by facility operations. These systems

may include secondary containment structures for the cooling tower and the wastewater aeration system.

3.3 *SOLID AND HAZARDOUS WASTE*

Both Plant 1 and Plant 2 generate industrial and hazardous waste. Hazardous wastes are properly manifested to off-site facilities for disposal. Hazardous waste management practices appeared appropriate during the site review with the exception of ignitable wastes storage within 50 feet of the property line at Plant 1. The facility was aware of this condition, but has been unable to resolve the issue due to storage location constraints at the site. Previous regulatory site inspections have noted administrative deficiencies related to hazardous waste management programs at Plant 1. Ohio EPA considers these deficiencies corrected per correspondence dated 30 December 1991.

Regulatory Issue

Accumulation of ignitable hazardous waste within 50 feet of the Plant 1 property line is prohibited under the provisions of ORC 3745-66-76.

Recommendation

Brown-Bridge should continue investigating alternative storage locations outside the 50 foot property line perimeter. If alternative storage locations are unavailable, the facility should consider applying for a variance from ORC 3745-66-76.

3.4 *UNDERGROUND STORAGE TANKS*

Two subterranean spill collections systems were noted during the visual inspection of Plant 1 and Plant 2. Both systems function to collect spills or leaks during the unloading of acrylic polymer adhesive emulsions. Constituents within the emulsions including vinyl acetate and ammonia are considered hazardous substances under the provisions of ORC 1301:7-9-03 (D). According to facility personnel, tanks are not emptied immediately after use.

Regulatory Issue

Under the provisions of ORC 1301:7-9-03, the two spill subterranean spill collections systems could be considered USTs, but exempt from the all provisions of the regulations assuming certain conditions are satisfied. To satisfy the exemption, these tanks can only contain *de minimis* concentrations of regulated substances or be expeditiously emptied after use.

Recommendation

To satisfy the exemption, Brown-Bridge should confirm these tanks only contain *de minimis* concentrations of regulated substances and are expeditiously emptied after use.

3.5 *EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW*

Brown-Bridge submits Toxic Release Inventory (TRI) Form R's as required under 40 CFR Part 372 for the following chemicals: Plant 1 - toluene, methanol, and 1,1,1-trichloroethane and for Plant 2 - 1,1,1-trichloroethane. Brown-Bridge also complies with the Hazardous Chemical Reporting:

Community Right to Know provisions of 40 CFR Part 370 filing Ohio Emergency and Hazardous Chemical Inventory Forms for methanol, toluene, ammonia and sulfuric acid at Plant 1 and sulfuric acid at Plant 2. In accordance with 40 CFR Part 355, Brown-Bridge has determined that no extremely hazardous substance are maintained at Plant 1 or Plant 2 in excess of established threshold planning quantities. No regulatory issues were identified during the review of Emergency Planning and Community Right-to-Know requirements.

3.6 *POTENTIAL REGULATORY CONSIDERATIONS - PLANT 1 SUBSURFACE CONDITIONS*

As described above, recent subsurface investigations have identified the presence of affected soil and ground water beneath the Plant 1 site. To date, several sources of constituents within the soil and ground water have been identified. These include; the Bulk and Hazardous Waste Storage Area, the Nonhazardous Waste Storage Area, and the Toluene Recovery System. In response to this information, Kimberly-Clark has examined potential release reporting requirements under provisions of state and federal law. In addition, the company has estimated quantities of constituents released to the soil and ground water. Based on these examinations and estimates, Kimberly-Clark has concluded that no reporting requirements are believed to apply under federal law and that strong legal arguments suggest that reporting is not currently required at the state level as well.

Recommendation

While available information concerning subsurface conditions at Plant 1 does not appear to have triggered a reportable event, it is recommended that relevant regulatory requirements be revisited following the collection

of further soil and ground water data.

3.7 *OCCUPATION HEALTH AND SAFETY ADMINISTRATION*

3.7.1 *Documents/Written Programs*

The Eagle industrial hygienist reviewed written health and safety programs developed by the Kimberly-Clark Brown-Bridge facilities. These written programs were prepared in response to health and safety regulations found in 29 CFR. The following written programs were reviewed (the information in parenthesis identifies the relevant regulation to which the written program applies):

3.7.1.1 *Hazard Communication (29 CFR 1910.1200)*

The Hazard Communication Standard requires all employers who work with hazardous chemicals prepare a written program, obtain Material Safety Data Sheets (MSDS) for all hazardous chemicals, maintain labels on primary and secondary containers, and inform/train employees regarding hazards in their work areas. In addition to addressing the information described above, the written program is to include a hazard assessment for chemicals manufactured, stored or used and an inventory of such chemicals.

A written program, entitled "Hazard Communication Program, Kimberly-Clark Corporation, Brown-Bridge Division," (undated) has been prepared by the facilities.

MSDS notebooks are maintained at Plants 1 and 2. It was noted that some MSDS date back to 1985 and 1986. [The Hazard Communication Program (HCP) went into effect in May, 1986.] It was also noted that information

on labels of two materials, "1105 Elite" and "Dapro W-77," conflicted with information provided on the respective MSDS.

Regulatory Issue

The written HCP does not address the method by which hazard evaluations are to be conducted at the Brown-Bridge facilities.

Recommendation

Information regarding the method by which hazard assessments will be conducted should be added to the HCP. The information can, for example, be a statement indicating that the Brown-Bridge facilities will rely on the hazard evaluations conducted by chemical suppliers and found in the MSDS provided by these parties.

Regulatory Issue

The Hazard Communication Standard requires that employers obtain and maintain MSDS for hazardous chemicals manufactured, used or stored at their facilities. If MSDS are revised to reflect new information regarding the hazards of the chemical, the preparer of the MSDS is required to provide the user with a revised MSDS within three months of obtaining the information.

Recommendation

The Brown-Bridge facilities should request new MSDS from manufacturers in order to ascertain that these documents are complete with respect to the requirements of the Hazard Communication Standard and to resolve discrepancies currently identified between labeling information and that

provided on MSDS maintained by the facilities at the time of the audit.

3.7.1.2 *Control of Hazardous Energy (Lockout/Tagout) (29 CFR 1910.147)*

The Brown-Bridge facilities have prepared a written program entitled "Hazardous Energy Lockout Procedure (H.E.L.P)" which addresses the control of hazardous energy.

Regulatory Issue

The lockout/tagout standard requires that programs for the control of hazardous energy be reviewed on an annual basis and that such review be certified.

Recommendation

The documentation of the certification of the H.E.L.P. program needs to be kept on file.

3.7.1.3 *Hearing Conservation (29 CFR 1910.95)*

A written hearing conservation program entitled "Noise Abatement and Hearing Conservation Policy," dated 17 January 1977, has been prepared for the facility.

The Hearing Conservation Standard requires that employees with exposures to noise levels above 85 decibels (dB), as an eight-hour time-weighted average (TWA) on the A-weighted scale, be placed in a hearing conservation program. The Brown-Bridge facilities have a written program, dated 17 January 1977, which requires annual noise surveys. Brown-Bridge has placed most of its manufacturing work force in a hearing conservation

program and provides hearing protection for employees. Discussions with the Safety Director indicated that employees are required to wear hearing protection in areas with noise levels greater than 90 dB(A). Preliminary review of noise survey and audiometry records suggest that employees with standard threshold shifts may be working without hearing protection in areas where noise levels are between 85 and 90 dB, as measured on the A-weighted scale.

The solvent mixing room was not identified through noise survey or by signage as a high noise area in Plant 1; however, noise levels appeared to be high (difficulty in hearing a shouted conversation) because of a reported bearing malfunction in one of the pump motors. Hearing protection was not required in the area.

Regulatory Issue

Hearing protection is required for any employee who is exposed to an eight-hour TWA of 85 dB(A) or greater and who has experienced a standard threshold shift.

Recommendation

Identify employees who have experienced standard threshold shifts and confirm that these employees are wearing hearing protection in areas where noise levels equal or exceed 85 dB.

Regulatory Issue

When information indicates that any employee's exposure may equal or exceed an eight-hour TWA of 85 decibels, an employer must develop and implement a monitoring program. Whenever changes in production,

process, equipment or controls increases noise exposures so that additional employees may be exposed above the action level or current hearing protection may be inadequate, monitoring is to be repeated (with the purpose of identifying employees who must be placed in a hearing conservation program).

Recommendation

The facility should determine if the solvent mixing room is a high noise area, and post signs at entrances to the solvent mixing room as a reminder to persons entering the area to don hearing protection.

Recommendation

Review the frequency established for noise surveys, revise the written hearing conservation program to reflect the desired frequency, and implement procedures to ensure that the noise surveys are completed according to the frequency established.

3.7.1.4 *Process Safety Management (29 CFR 1910.119)*

The Process Safety Management (PSM) Standard is intended to prevent unwanted releases of hazardous chemicals into locations which could expose employees and others to serious hazards. The focus of the standard is the identification, evaluation and mitigation or prevention of releases as a result of failure in processes, procedures or equipment. The Brown-Bridge facility, Plant 1, is required to comply with the PSM standard as flammable liquids (namely toluene) are utilized in one process on-site in a quantity of 10,000 pounds or more. As determined by discussions with the facility Environmental Engineer, overall compliance with the PSM standard appeared to be minimal.

Regulatory Issue

Fourteen elements are to be addressed by the facility in order to comply with the PSM standard. These include: employee participation, process safety information, process hazard analyses, standard operating procedures, training, contractors, pre-startup safety review, mechanical integrity, hot work permits, management of change, incident investigations, emergency planning and response, compliance audits, and trade secrets.

Recommendation

The Plant 1 facility needs to complete the requirements of the PSM standard for the toluene tank and associated processes by addressing the fourteen elements of the PSM standard.

3.7.2 Equipment/Facilities

3.7.2.1 Machine Guarding (29 CFR 1910 Subpart O)

The Brown-Bridge facility operates many pieces of equipment which require machine guarding. Because machine guarding can be defeated (removed, disconnected), daily inspection to confirm that machine guarding is in place is essential to an effective program.

Some machinery was not properly guarded. Examples of such equipment in Plant 1 include unguarded rotating shafts on #59 slitter, #21 breaker, # 30 sheeter and #31 sheeter.

Regulatory Issue

Machine guarding must be provided to protect employees from hazards

such as nip points, rotating parts, and points of operation.

Recommendation

The facility needs to establish and implement an ongoing program for the inspection of existing machine guarding, and identification of equipment for which guarding can be improved.

3.7.2.2 *Cranes (29 CFR 1910.179)*

The load rating of each crane is to be plainly marked on each side of the crane and on each hoisting unit (if there is more than one hoist). At Brown-Bridge, many of the cranes have more than one hoisting unit. Most of these hoisting units have the same load bearing rating as do the tracks which support them. Examples of such instances include the cranes/hoists at the mini slitters in Plant 2. In addition, the Gravure roll hoist in Plant 2 was not marked with a load rating.

Regulatory Issue

Because many cranes at the Brown-Bridge facilities have more than one hoisting unit, which is rated at the same load bearing capacity as the overhead track, the possibility exists for overloading the track beyond its rating limit.

Recommendation

The facility needs to ensure that crane and hoist load capacities will not be overloaded.

Regulatory Issue

The rated load of a crane must be marked on each side of the crane and on the hoisting units, if there is more than one hoisting unit on the crane.

Recommendation

The facility needs to determine the rated load capacity of the Gravure roll hoist/crane in Plant 2 and mark the equipment accordingly.

3.7.2.3 *Slings (29 CFR 1910.184)*

Slings are used at the Brown-Bridge facility in conjunction with hoists. During the inspection, several damaged slings were identified. Damaged slings were noted in the maintenance shop of Plant 2 and at rewinder #60.

Regulatory Issue

Slings and all fastenings and attachments are to be inspected each day before use by a qualified person designated by the employer. Damaged or defective slings are to be immediately removed from service.

Recommendation

The facility needs to train and designate qualified persons to perform sling inspections. Qualified personnel should be required to conduct sling inspections before each use (e.g., before each shift) and immediately remove damaged or defective slings from service.

3.7.2.4 *Compressed Gases (29 CFR 1910.101)*

Cylinders of compressed gases were stored unsecured in a metal cage at Plant 2 facility. The cage door was also not secured by a lock or any type of closure mechanism at the time of the audit.

Regulatory Issue

Compressed gas cylinders need to be kept in a safe condition.

Recommendation

Plant 2, needs to secure cylinders of compressed gas used at the facility in order to prevent the cylinders from causing a hazard by tipping over and becoming damaged.

3.7.2.5 *Powered Industrial Trucks (29 CFR 1910.178)*

The Brown-Bridge facilities operate numerous lift trucks throughout the warehouse and production areas of Plants 1 and 2. Daily inspections of lift trucks are documented; however, the documentation process was difficult to follow. For example, daily inspections records for trucks #5 and #7 were reviewed and found to be incomplete. It was noted that #5 truck required repairs; however, documentation of the repair and records indicating the truck was suitable for return to service were not available in the department that "owned" the truck (a phone call to the maintenance department was required to confirm that the truck had been repaired and was suitable for use). Inspection records were also incomplete for Truck #7. Documentation was reviewed in two different departments where the truck was used. It was not obvious from reviewing these records that the truck had been inspected on a daily basis and that indicated necessary

repairs had been performed. Additional searches for incomplete information were not conducted due to time constraints.

Regulatory Issue

Forklifts and other power-operated industrial trucks not in a safe operating condition must be removed from service. Examination of industrial trucks is to be conducted after each shift for those trucks used continuously and at least daily prior to being placed in service for others.

Recommendation

The Brown-Bridge facilities should organize and consolidate recordkeeping practices with respect to inspection and maintenance of powered industrial trucks.

3.7.2.6 *Quick Drench Facilities (29 CFR 1910.151)*

Brown-Bridge operates battery recharging facilities in each Plant where a potential for contact with corrosive chemicals exists. At the time of the facility review, the areas in Plant 1 and Plant 2 had not been equipped with facilities for quick drenching of the body. An eyewash station had been provided, however.

At Plant 2, the chemical "1105 Elite" is labeled as a corrosive material. No safety shower or other quick-drench facility is available in the area where "1105 Elite" is used.

Regulatory Issue

Where the eyes or body of any person may be exposed to injurious

corrosive materials, suitable facilities for quick drenching or flushing of the eyes and body must be provided within the work area for immediate emergency use.

Recommendation

The Brown-Bridge facilities need to provide a quick-drenching system, such as a safety shower, at battery recharging stations.

Recommendation

If it is confirmed, through review of a current MSDS, discussions with the manufacturer, or testing, that "1105 Elite" is corrosive, then a quick-drench facility should be provided at the point of use.

3.7.3 *Health and Safety Work Practices*

3.7.3.1 *Employee Exposure Monitoring (29 CFR Subpart Z - Toxic and Hazardous Substances)*

Historical exposure monitoring records indicated overexposures to chemical hazards, particularly nuisance dust. The monitoring records also indicate continued improvement in airborne concentrations of nuisance dust, but the potential for overexposure still exists, as indicated by the use of respirators at the facility.

Regulatory Issue

Employers are required to limit occupational exposure to toxic and hazardous substances to permissible exposure limits.

Recommendation

The Brown-Bridge facilities should continue to monitor personnel to ensure that employees are not exposed to concentrations of hazardous chemicals above allowable limits. Information from OSHA and exposure guidelines developed by other sources, such as the American Conference of Governmental Industrial Hygienists (ACGIH) and internal occupational exposure limits developed by chemical manufacturers, should be used to ascertain allowable limits.

3.7.3.2 *Ergonomics [29 CFR 1910.5(a)]*

Review of OSHA 200 logs for the years 1989-1994, indicate that some lost time and restricted duty days are accounted for by ergonomic concerns, including back injuries.

Regulatory Issue

OSHA does not have regulations regarding ergonomics that apply to the Brown-Bridge facilities. Enforcement of ergonomic problems would be regulated under the general duty clause which requires that employers provide a safe and healthful workplace.

Recommendation

The Brown-Bridge facilities should continue its proactive efforts to improve ergonomics.

3.7.3.3 *Fire Brigade: Response to Chemical Spills and Fires (29 CFR 1910.120 and 1910.156)*

The Brown-Bridge facilities have established Plant Emergency Organizations (PEO) which respond to medical emergencies, incipient-stage fires, and minor spills. PEO members understand the limits of their involvement in the event of a fire emergency or chemical spill to be outside the realm of fire fighting and emergency response actions described by OSHA for fire brigades and/or hazardous materials response (HAZMAT) teams.

Regulatory Issue

Extensive training and medical surveillance requirements must be met for members of HAZMAT teams that meet the definition of a HAZMAT team according to 29 CFR 1910.120 "Hazardous Waste Operations and Emergency Response". This training is not currently provided to the Brown-Bridge PEO members.

Recommendation

Brown-Bridge personnel need to revise the written duties of the PEO to clearly indicate that members are permitted to fight incipient stage fires only and not structural fires. The PEO is not a HAZMAT team under 29 CFR 1910.120, and the duties of the PEO should be written to ensure the PEO does not undertake spill release or response activities that require HAZMAT training or certification.

3.7.3.4 *Asbestos Containing Material*

Section 2.6.4 describes the current status of ACM within the Brown-Bridge facilities. During the site review known ACM insulation (marked with the red and blue color combination) was inspected. Short sections of insulation, on overhead pipelines near the #53 slitter and the #5 coater had exposed insulation due to damage to the insulation covering. In addition, there was exposed insulation at the pipe hangers on most of the pipe runs, particularly on the pipe insulation between the support poles denoted by prefixes "Y" and "W" in the Plant 1, Building 1-A basement.

Regulatory Issue

The USEPA has defined "friable asbestos material" in the National Emission Standards for Hazardous Air Pollutants (NESHAPS) found in 40 CFR Part 61.141 as "any material containing more than 1% asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy, that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure."

In addition, Category I non-friable asbestos is defined in NESHAPS as "asbestos containing packing, gaskets, resilient floor covering, and asphalt roofing products containing more than 1% asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy, that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure." Category II non-friable ACM is defined in NESHAPS as " any material, excluding Category I non-friable ACM containing more than 1% asbestos as defined using the methods specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy, that, when dry cannot be crumbled, pulverized, or reduced to powder by hand pressure."

The Occupational Safety and Health Administration (OSHA) has established maximum occupational exposure levels for airborne concentrations of asbestos for both general industry (29 CFR 1910.1001) and for construction activities (29 CFR 1926.58).

Recommendation

Brown-Bridge should obtain and maintain a copy of the asbestos survey report to ensure documentation is available regarding the location and asbestos content of insulation sampled at the Plant 1 site. It was reported to ERM that Brown-Bridge has requested copies of the report from the ACM contractor which should be provided by 13 April 1994.

Recommendation

Exposed friable ACM should be encapsulated. Any work involving ACM should be conducted in compliance with relevant EPA, OSHA and State of Ohio regulations.

Recommendation

Prior to renovation or demolition, including removal and replacement of equipment insulation, Brown-Bridge should consult the ACM survey report to determine whether asbestos content of the materials involved has been identified. If a determination as to the asbestos content of the materials has not been made, the facility needs to collect and analyze bulk samples of the material to determine asbestos content. If ACM is confirmed, the facility needs to comply with relevant EPA, OSHA and State of Ohio regulations.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 CONCLUSIONS

Previous investigations have identified the presence of affected soil and ground water at both the Plant 1 and Plant 2 sites. In addition to recommendations offered by previous investigations, ERM has provided additional recommendations as summarized in Section 4.2.1.1 below. At the materials handling areas of Plant 2, previous investigations have identified constituents in the soil and ground water at concentrations indicative of minor spills or leaks related to normal chemical handling activities. These concentrations do not appear to be associated with a major release of constituents from the materials handling areas of Plant 2.

During the site review, operation of the Brown-Bridge facilities appeared compliant with most regulatory requirements, with personnel assigned responsibility for management of environmental, health and safety programs; however, ERM's review team has identified areas for improvement as discussed in previous Sections and summarized in Sections 4.2.2 and 4.2.3 below.

4.2 RECOMMENDATIONS

This section briefly summarizes the recommendations identified in Sections 2 and 3 of the report.

4.2.1 *ASTM Environmental Site Assessment*

4.2.1.1 *Subsurface Conditions - Plant 1*

To fully characterize potential environmental conditions and as necessary

develop appropriate remedial measures, ERM recommends consideration of the following at Plant 1:

- The installation, water level measurement and sampling of the permanent monitoring well network prior to initiating remediation (Applied Engineering & Science, Inc. has stated that this effort is included in their planned scope of work).

- The measurement of water levels in the non-contact cooling water wells and in the river on several occasions to fully understand ground water flow patterns beneath the Plant 1 site.

- The collection of hydraulic conductivity data from selected wells to ensure appropriate information is available for remedial design.

- If necessary, the installation of piezometers to characterize the distribution of non-aqueous phase liquid and aid in the development of an appropriate remedy.

- Following the completion of these steps, pilot studies to optimize the operation of selected remedial systems.

4.2.1.2 *Surface Stains at the Plant 2 Site*

To address stained surface soils at Plant 2, ERM recommends consideration of the following:

- Excavation, removal, characterization and off-site disposal of stained soils adjacent to the raw material and waste storage pad. Prior to backfilling the excavated area, confirmatory samples should be collected and analyzed to ensure complete removal of affected soil.

In addition, cleaning of stains on the pad and improvements to the secondary containment structures should be considered.

4.2.1.3 *Asbestos-Containing Materials*

To address potential ACM issues at both Plant 1 and Plant 2, ERM recommends consideration of the following:

- Brown-Bridge personnel should obtain a copy (should be provided by the ACM contractor by April 13, 1994) of the asbestos survey report for Plant 1 to determine the location and extent of material sampled. If upon review of the survey report it is determined that potential ACM has not been sampled, Brown-Bridge should conduct sampling to determine the likely extent of ACM in the facility or obtain as-built drawings or other information to identify the likelihood and extent of ACM in the facility.

- Brown-Bridge should document the absence of ACM within the Plant 2 facility. This documentation can be completed through the use of as-built drawings, surveys or other information which will confirm the absence of ACM in the facility.

4.2.2 *Environmental Compliance*

- Brown-Bridge should examine and develop an inventory of all sources of air emissions at Plants 1 and 2 to ensure necessary permits and/or registrations are secured. Appropriate personnel should calculate the exact capacity of the bulk reclaimed toluene tank to determine applicability of NSPS.

- Brown-Bridge should further investigate the presence of materials

detected in the Plant 1 NCCW effluent to ensure discharges are in compliance with the facility's permit.

- Plant 1 personnel should establish and implement a system to collect and evaluate grab samples (for pH) in accordance with the requirements of the NCCW discharge permit.

- Plant 1 personnel should establish a system to ensure non-compliance notification procedures listed in the Ohio EPA's discharge permit are implemented in the event of a limit exceedance.

- SPCC Plans for both Plant 1 and 2 should be modified to comply with the requirements of 40 CFR Part 112.7(b). Spill contingency procedures for releases to the municipal wastewater treatment sewers should also be included in the SPCC Plan for Plant 1.

- Brown-Bridge should file a Notice of Intent to comply with the Ohio General Storm Water Permit or file an individual permit application for storm water discharges to the municipal storm sewer from the Plant 2 site in accordance with 40 CFR Part 122.26.

- At Plant 2, the condensate flow noted along the north corner of the building should be rerouted to ensure this stream is not considered a discharge to the waters of the State.

- Ground water infiltration flows to the basement of Plant 1, Building 5 should be redirected so as not to enter site's storm water collection system. Furthermore, systems should be established and implemented to ensure storm water quality is not affected by facility operations.

- Brown-Bridge should continue investigating alternative storage locations at Plant 1 for flammable hazardous wastes outside the 50 foot property line perimeter or apply for a variance from the Ohio hazardous waste accumulation standards (ORC 3745-66-76).

- To satisfy the UST regulatory exemptions, Brown-Bridge should confirm the adhesive bulk loading/unloading spill collection tanks only contain *de minimis* concentrations of regulated substances and are expeditiously emptied after use.

- While available information concerning subsurface conditions at Plant 1 does not appear to have triggered a reportable event, it is recommended that relevant regulatory requirements be revisited following the collection of further soil and ground water data.

4.2.3 *Occupational Health and Safety Compliance*

4.2.3.1 *Documents/Written Programs*

OSHA written programs need to be revised as follows:

- Add the method by which hazard assessments will be conducted to the Hazard Communication Program.

- Request new MSDS from manufacturers in order to ascertain the hazards of chemicals used at the facility and to resolve discrepancies currently identified between labeling information and that provided on MSDS maintained at the facility at the time of the audit.

- Maintain documentation of the certification of the H.E.L.P. program on file.

- Identify employees who have experienced standard threshold shifts and confirm that these employees are wearing hearing protection in areas where noise levels equal or exceed 85 dB(A).

- Determine whether the solvent mixing room is a high noise area. Post signs at entrances to the solvent mixing room as a reminder to persons entering the area to don hearing protection.

- Establish the appropriate frequencies for noise surveys in the written hearing conservation program and develop procedures to ensure that the established frequency is followed.

- Complete the requirements of the PSM standard for the toluene tank and associated process at Plant 1 by addressing the fourteen elements of the PSM standard.

4.2.3.2 *Equipment/Facilities*

Issues associated with the Equipment/Facilities need to be addressed as follows:

- Establish an ongoing program to identify equipment for which guarding can be improved and conduct frequent inspections to ensure that required guarding is in place.

- Ensure that crane and hoist load capacities will not be overloaded.

- Determine the rated load capacity of the Gravure roll hoist/crane in Plant 2 and mark accordingly.

- Train and designate qualified persons to perform sling inspections.

Conduct inspection before each use (e.g., before each shift) and immediately remove damaged or defective slings from service.

- Secure cylinders of compressed gas used at Plant 2 in order to prevent hazard caused by tipping or cylinder damage.

- Organize and consolidate recordkeeping practices with respect to inspection and maintenance of powered industrial trucks.

- Provide a quick-drenching facility, such as a safety shower, at battery recharging stations.

- Provide a quick-drench facility in the area of use, if it is confirmed through review of a current MSDS, discussions with the manufacturer, or testing, that the "1105 Elite" is corrosive.

4.2.3.3 *Health and Safety Work Practices*

Health and safety work practices issues need to be addressed as follows:

- Continue to monitor personnel to ensure that employees are not exposed to concentrations of hazardous chemicals above allowable limits. Utilize information from OSHA and exposure guidelines developed by other sources, such as the ACGIH and internal occupational exposure limits developed by chemical manufacturers, to ascertain allowable limits.

- Continue proactive efforts to improve ergonomics.

- Clarify the written duties of the PEO. Written duties should explicitly state that PEO members are permitted to fight only

incipient stage fires and not structural fires and that members do not perform duties for which HAZMAT training or certification is required.

4.2.3.4 *Asbestos Containing Material*

The following recommendations are offered regarding ACM:

- Brown-Bridge should obtain and maintain a copy of the asbestos survey report to ensure documentation is available regarding the location and asbestos content of insulation sampled at the Plant 1 site. It was reported to ERM that Brown-Bridge has requested copies of the report from the ACM contractor which should be provided by 13 April 1994.

- Exposed friable ACM should be encapsulated. Any work involving ACM should be conducted in compliance with relevant EPA, OSHA and State of Ohio regulations.

- Prior to renovation or demolition, including removal and replacement of equipment insulation, Brown-Bridge should consult the ACM survey report to determine whether asbestos content of the materials involved has been identified. If a determination as to the asbestos content of the materials has not been made, the facility needs to collect and analyze bulk samples of the material to determine asbestos content. If ACM is confirmed, the facility needs to comply with relevant EPA, OSHA and State of Ohio regulations.

5.0 *LIMITATIONS*

The contents of this report contains information concerning the Kimberly-Clark Brown-Bridge facilities in Troy, Ohio. The information was obtained during an environmental, health and safety audit of each facility. The audit was conducted by personnel from ERM, and Eagle Environmental Health, Inc., during the time period of March 24 and 25, 1994. Information obtained verbally from third parties (e.g., facility personnel) was not verified for accuracy. Not all equipment, plans, facilities, reports, job tasks, conditions or programs could be evaluated. No actual measurements on, or samples of, potential chemical, physical or biological hazards were taken. No field testing was conducted on fire warning or fire fighting equipment. No physical testing was conducted to verify mechanical integrity. Observations of the sites were obtained during a two-day visit including records review. This visit allowed us to assess overall general compliance posture, but does not necessarily provide enough information to determine compliance with all regulatory or code requirements. Professional judgements expressed herein are based on the facts available at the time of the visit, within the limits of the scope of work, budget and schedule. It is not intended to be exhaustive in scope, nor does it imply a risk-free site.

ERM and Eagle make no assurances that, if implemented, the recommendations contained in this report will prevent future employee injuries or illnesses, chemical releases, equipment failures, loss of property, interruption of production or regulatory noncompliance.

This work was undertaken in accordance with our General Terms and Conditions. In connection with the tasks performed under this contract, we exercised reasonable efforts to accomplish these tasks employing professional standards applicable in the industry today. Due to time

constraints, we cannot guarantee that these reviews necessarily yielded complete information. Lack of knowledge of prior uses may have affected our ability to assess risks or hazards at the site.

To the extent that these services require subjective judgement on the part of the auditors, there can be no assurance that the results obtained are supportive of any given course of action. The services may have included the application of judgement to scientific principles; to that extent certain results of this work may be based on subjective interpretation. **WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The recommendations and regulatory interpretations presented in this report represent our technical assessment of the sites. It is Eagle's and ERM's specific intent that the conclusions and recommendations presented here be used as guidance and not necessarily as a firm course of action unless explicitly stated as such. It should be noted that Eagle and ERM Inc. are not permitted to practice law under the laws of the State of Ohio and interpretations given here are provided by technical professionals rather than by an attorney-at-law.

AMENDMENT NO. 2 TO ASSETS PURCHASE AGREEMENT

By and Between

KIMBERLY-CLARK CORPORATION

and

BROWN-BRIDGE INDUSTRIES, INC.

(Formerly Brown-Bridge Acquisition Corp.)

AMENDMENT NO 2. TO ASSETS PURCHASE AGREEMENT

This is AMENDMENT NO. 2 TO ASSETS PURCHASE AGREEMENT ("Amendment No. 2"), to the Assets Purchase Agreement dated as of June 15, 1994, (the "Purchase Agreement"), by and between Kimberly-Clark Corporation ("Seller") and Brown-Bridge Industries, Inc. ("Buyer"). (The Purchase Agreement, Amendment No. 1 thereto and this Amendment No. 2 are hereafter collectively referred to as the "Agreement".) Capitalized terms used but not defined herein shall have the respective meanings assigned to them in the Agreement.

W I T N E S S E T H:

WHEREAS, pursuant to the Agreement Seller has agreed to sell, and Buyer has agreed to buy, substantially all of the assets and properties used by the business conducted by Seller's Brown-Bridge business (the "Business");

WHEREAS, Seller and Buyer desire to amend the Agreement in accordance with this Amendment No. 2;

NOW, THEREFORE, the parties hereto, each intending to be contractually bound, hereby agree as follows:

1. Amendments. The parties hereby agree that the Agreement is hereby amended as follows:

a. Page 1, line 3 of the Purchase Agreement shall be amended by deleting "Brown-Bridge Acquisition Corp. ("Buyer")" and substituting in its place "Brown-Bridge Industries, Inc. ("Buyer") . . . ."

b. Section 3.1, "Purchase Price" of the Purchase Agreement at page 8, is hereby amended by deleting the text beginning at line 13 and ending on line 21 on page 8 and in its place substituting the following text:

"minus the sum of:

i. the Estimated Closing Adjustment for Inventory Obsolescence (as defined in this Section 3.1(a)) calculated in accordance with the Side Letter (as defined in Section 3.2); and

ii. five hundred thousand dollars ($500,000);

the net amount determined in accordance with this subparagraph 3.1(a)(I) is hereafter collectively called the "Purchase Price";

II. minus an amount equal to $500,000 (the "Hold-Back") which shall be delivered at the Closing by wire transfer of immediately available funds to a mutually acceptable "Escrow Agent" pursuant to an escrow agreement in form and substance mutually acceptable to Buyer and Seller."

c. Section 3.2 "Calculation of Several Adjustments for Inventory Obsolescence" at page 10 of the Purchase Agreement, line 9 shall be amended by deleting "June 15, 1994" and in its place substituting "September 12, 1994".

d. Section 6 "Representations and Warranties of Buyer" is amended to read as follows:

"6.8 Change of Buyer's Name. The name of Brown-Bridge Acquisition Corp. has been changed to Brown-Bridge Industries, Inc. and Brown-Bridge Industries, Inc. is the same corporate entity as Brown-Bridge Acquisition Corp. except for the change of name.

e. Section 7.19 "Plant 1 Remediation" is hereby amended by deleting $1,500,000 at the end of the first sentence and in its place substituting $2,000,000.

f. Section 7 "Covenants and Agreements" is amended to add the new covenant of Seller:

"Section 7.21 Asbestos Remediation. Seller shall remove asbestos insulation and repair cover material on asbestos insulation on 2100 feet of steam piping including providing non-asbestos insulation at each pipe hanger, as described in the memo of J.E. Carter to K.C. Caldabaugh, dated August 23, 1994, which memo is incorporated herein by reference."

g. Section 12.2 "Definitions, Plant 1 Remediation" shall be amended to read as follows:

"Plant 1 Remediation" shall mean (i) remediation of the substances on or emanating from the Plant 1 Real Property as identified, described and recommended in the Applied Engineering and Science, Inc. report dated November, 1993 ("AES Report") using the cleanup goals attached hereto as Exhibit A and off site soil treatment instead of an on-site biopile (as described in the letter of Wayne H. Deitrich to K.C. Caldabaugh, dated August 29, 1994); (ii) remediation of lead in the soil at boring site 1, sample EEI-B1A, identified on "Soil Boring and Sampling Well Locations" drawing dated August 5, 1994 and included in "the Report and Opinion of Environmental Enterprises, Inc. dated August 5, 1994 respecting Phase II Report on the Subsurface Contamination on the Real Property known as Kimberly-Clark Brown-Bridge, Plant 1, City of Troy, Miami County, Ohio"; and (iii) the remediation of any Contaminants on or emanating from the Plant 1 Real Property."

h. Section 12.3 Indemnification by Seller for Environmental Matters shall be amended by deleting $1,500,000 from the fifth and last line of the text of subparagraph (c) on page 53 and in its place substituting $2,000,000.

2. Effective Date/Entire Agreement. This Amendment No. 2, shall become effective as of the date on which the last party to execute this document does so and, together with the Purchase Agreement and Amendment No. 1, shall constitute the entire agreement between Buyer and Seller.

IN WITNESS WHEREOF, the undersigned have duly executed this Amendment No. 2 on the respective dates set forth below.

KIMBERLY-CLARK CORPORATION

By: Wayne H. Deitrich

President - Paper and
Specialty Products Sector

Date: Sept. 12, 1994

BROWN-BRIDGE INDUSTRIES, INC.

By: [illegible]

Title: President

Date: Sept. 13, 1994

OHIO E.P.A.
MAR 13 2001
ENTERED DIRECTOR'S JOURNAL

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:	:	
	:	
Kimberly-Clark Corporation	:	**Director's Final**
1400 Holcomb Bridge Road	:	**Findings and Orders**
Roswell, Georgia 30076-2199	:	

I. JURISDICTION

1. These Director's Final Findings and Orders ("Orders") are issued pursuant to the authority vested in the Director of the Ohio EPA under Sections 3734.13, 3734.20, 6111.03, and 3745.01 of the Ohio Revised Code.

II. PARTIES BOUND

2. These Orders shall apply to and be binding upon Kimberly-Clark Corporation ("Kimberly-Clark"), its agents, successors, and assigns.

3. No change in ownership or corporate status of Kimberly-Clark including, but not limited to, any transfer of assets or real or personal property shall in any way alter Kimberly-Clark's obligations under these Orders.

4. Kimberly-Clark shall provide a copy of these Orders to all contractors, subcontractors, laboratories and consultants retained to perform any portion of the Work performed pursuant to these Orders. Kimberly-Clark shall ensure that all contractors, subcontractors, laboratories and consultants retained to perform Work pursuant to these Orders comply with the provisions of these Orders.

III. DEFINITIONS

5. Unless otherwise expressly provided herein, terms used in these Orders or in any appendices shall have the same meaning as used in Chapters 3734 and 6111 of the Ohio Revised Code. Whenever the terms listed below are used in these Orders or in any appendices, attached hereto and incorporated herein, the following definitions shall apply:

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency
By [illegible] Date 3/13/01

a. "Day" shall mean a calendar day unless expressly stated to be a business day. "Business day" shall mean a day other than a Saturday, Sunday, or State Holiday. In computing any period of time under these Orders, where the last day would fall on a Saturday, Sunday, or State Holiday, the period shall run until the close of the next business day.

b. "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan, codified at 40 C.F.R. Part 300 (1990), as amended.

c. "Ohio EPA" shall mean the Ohio Environmental Protection Agency and its designated representatives.

d. "Paragraph" shall mean a portion of these Orders identified by an Arabic numeral or an upper or lower case letter.

e. "Parties" shall mean Kimberly-Clark and the Ohio EPA.

f. "Risk Assessment Guidance for Superfund" ("**RAGS**") shall mean RAGS: Volume 1 - Human Health Evaluation Manual, Part B, Development of Risk-based Preliminary Remediation Goals, OSWER Directive 9285.7-01B, December, 1991, Interim attached hereto and incorporated herein as Attachment B of these Orders.

g. "Section" shall mean a portion of these Orders identified by a roman numeral.

h. "Site" shall mean the property located at 518 East Water Street, Troy, Miami County, Ohio, commonly referred to as "Brown-Bridge Plant 1," where the treatment, storage, and/or disposal of hazardous waste, and/or the discharge into waters of the state of industrial waste or other waste has occurred, including any other area where such hazardous wastes, industrial wastes, and/or other wastes have migrated or threaten to migrate.

i. "Waste Material" shall mean (1) any "hazardous waste" under Section 3734.01(J) of the Ohio Revised Code; (2) any "solid waste" under Section 3734.01(E) of the Ohio Revised Code; (3) any "industrial waste" under Section 6111.01(C) of the Ohio Revised Code; and (4) any "other waste" under Section 6111.01(D) of the Ohio Revised Code.

j. "Work" shall mean all activities Kimberly-Clark is required to perform under these Orders.

IV. FINDINGS OF FACT, DETERMINATIONS, AND CONCLUSIONS OF LAW

6. All findings of fact, determinations, and conclusions of law necessary for the issuance of these Orders pursuant to Sections 3734.13, 3734.20, 3745.01 and 6111.03 of the Ohio Revised Code have been made and are outlined below. Ohio EPA has determined the following:

a. Kimberly-Clark acquired the property located at 518 East Water Street in Troy, Miami County, Ohio (the "Site") as a result of a merger with Brown-Bridge Mills, Inc. on December 31, 1977. The Site consists of approximately 5 acres of land adjacent to the flood plain of the Great Miami River. Prior to September, 1994, the Site was used for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.

b. Brown-Bridge Industries acquired the Site from Kimberly-Clark on September 16, 1994. In 1998, Brown-Bridge Industries changed its name to Spinnaker Coating, Inc. ("Spinnaker"). Spinnaker continues to utilize this facility for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.

c. Toluene, as product, was stored in bulk tanks at the bulk storage area at the west end of the Site. The Site formerly contained a toluene recovery system at the west end which included a 3000 gallon flow through process tank. The flow through process tank was removed in 1988.

d. There are known to have been at least four instances of releases at the Site, including the following:

i. According to Kimberly-Clark, during due diligence interviews associated with the sale of the Site to Brown-Bridge, it was discovered that in 1986 or 1987, approximately 15 to 25 gallons of toluene overflowed from a virgin toluene tank at the bulk chemical storage tank location on the Site's west end.

ii. According to Kimberly-Clark, in July, 1988, above-ground piping to a toluene storage tank was found to be leaking during a regularly scheduled tank-tightness test. The quantity discharged during this release has not been determined.

iii. According to an initial pollution incident report prepared by Ohio EPA, an

estimated 4000 pounds of toluene leaked into the atmosphere over several days prior to its discovery on April 12, 1989. The leak apparently was due to a malfunctioning steam valve at the toluene recovery system.

iv. According to an initial pollution incident report prepared by Ohio EPA, an estimated 500 gallons of toluene leaked from the toluene recovery system to the ground underneath the system on January 26, 1994.

e. Analysis of ground-water samples from the Site conducted by Kimberly-Clark in October, 1993 and July, 1994 showed the presence of the following compounds at levels presented below:

Chemical	Concentration (μg/l)
Toluene	320,000
Benzene	62
1,1,1-Trichloroethane	270
Tetrachloroethene	28
Trichloroethene	400
Vinyl Chloride	170
Cis-1,2-dichloroethene	230

f. Contaminated ground water at the Site is located approximately 900 feet upgradient from a City of Troy production well. According to the City's well head protection program, the Site is located within the one-year capture zone of the City's well field.

g. Kimberly-Clark's consultant, Applied Engineering & Science, Inc. (AES), in a report dated August, 1994, determined that ground-water contamination is migrating downgradient in a northeasterly direction off the Site onto adjacent property.

h. Two areas of soil and ground water contamination, on the east and west portions of the property, were identified by AES.

i. In April 1995, approximately 1525 cubic yards of contaminated soils were excavated and removed from the bulk storage and nonhazardous waste storage areas of the Site. Soil samples collected from these areas contained trichloroethene at concentrations up to 29,000 μg/kg, 1,1,1-trichloroethane at concentrations up to 1400 μg/kg, and tetrachloroethene at concentrations up to 790 μg/kg.

j. The material excavated from the bulk storage area was placed in roll-off containers. One container was manifested as hazardous waste due to its trichloroethene content.

k. In the summer of 1995, a ground water treatment system was installed on the west end of the property and an air sparging/vapor extraction system was installed on the east end. Both systems began operation on September 6, 1995.

l. In February 1997, Kimberly-Clark and Brown-Bridge determined that, according to ground water monitoring, their cleanup goals had been reached for the east end. The air sparging stopped in March 1997, while vapor extraction continued until January 1998.

m. The West End pump-and-treat system consists of four pumping wells and an air stripper to treat the water. The treated water was discharged to the Great Miami River under a NPDES discharge permit.

n. Ohio EPA invited Kimberly-Clark to negotiate an administrative order for the performance of a Remedial Investigation and Feasibility Study ("RI/FS") in 1997. At that time, Kimberly-Clark declined to enter into the administrative order stating that "continuation of the voluntary cleanup appears to be the most cost effective way to insure completion of the Site cleanup." Ohio EPA decided to change the scope of work from an RI/FS to operation and maintenance of the West End pump and treat system, with a provision for periodic evaluation of the effectiveness of the system. Kimberly-Clark declined to enter into an order that included the evaluation of effectiveness provision.

o. In a letter dated February 14, 2001, Kimberly-Clark stated that it had "completed the soil and ground water remediation project at Spinnaker Coating Facility ..." and that it planned to shut down the system on March 1, 2001. In response to this letter, Ohio EPA sent correspondence to Kimberly-Clark on February 27, 2001 asking that the system not be shut down because of concerns that the City of Troy's public water supply wells could be jeopardized. Ohio EPA suggested that a meeting take place before any action was taken and asked for possible dates to meet. On March 1, 2001, Kimberly-Clark proceeded to shut down the pump and treat system without waiting to meet with Ohio EPA to hear Ohio EPA's concerns.

p. Kimberly-Clark collected ground-water samples on a quarterly basis from the pumping wells and monitoring wells at the Site. The analytical results for vinyl chloride from pumping wells 3 and 4 and vinyl chloride and trichloroethene from pumping well 3 and monitoring well KMW-9 for the years 1999 and 2000 follow. The results show that the concentrations of vinyl chloride and trichloroethene exceed Federal and state drinking water maximum contaminant levels (MCLs). Pumping wells 3 and 4 and monitoring well KMW-9 lie between the bulk storage area and Troy's east well field.

Vinyl Chloride

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	6	7	13	n	2.0	6.7	9.2	8.0
PW-4	n	3	1	1.1	n	n	n	3.7

Trichloroethene

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	3	9	3	1.1	2.1	3.4	12	9.5
KMW-9	1	12	n	7.8	2.6	n	16	7.4

Notes:
All values are in $\mu g/l$.
n - not detected
Boldface denotes values greater than federal and state drinking water MCLs.
The MCL for vinyl chloride is 2.0 $\mu g/l$.
The MCL for trichloroethene is 5.0$\mu g/l$.

q. On May 23, 24 and 25, 2000, Ohio EPA collected ground-water samples from borings RS02, RS03, RS04, and RS06 along the northeast side of the Spinnaker building between the facility and Troy's east well field. Trichloroethene was detected in boring RS02 at 72 $\mu g/l$, in boring RS03 at 70 $\mu g/l$, in boring RS04 at 5 $\mu g/l$, and in boring RS06 at 9.6 $\mu g/l$. Vinyl chloride was detected in boring RS04 at 3.5 $\mu g/l$ and in boring RS06 at 2.8 $\mu g/l$.

r. Trichloroethene and tetrachloroethene in soil and ground water will degrade to form cis-1,2-dichloroethene. Analysis performed during the excavation and removal of soils from the Site did not include cis-1,2-dichloroethene, which has been detected in Site wells. Generally, wells downgradient from the bulk storage and nonhazardous waste storage areas have shown higher concentrations of cis-1,2-dichloroethene than upgradient

wells.

s. The City of Troy analyzes its well water for volatile organic compounds periodically (generally, once per quarter). Cis-1,2-dichloroethene has been detected in Troy's east well field since 1988. Trichloroethene was detected in the east well field in 1990.

t. Ohio EPA conducted a pump test of the aquifer beneath the Site in November, 2000. The pump test demonstrated that shallow ground water beneath the Site is hydraulically connected to Troy's east well field, that contaminants in ground water at the Site will migrate to the east well field, and that the Great Miami River does not form a hydraulic barrier preventing the migration of contaminants from the site to the east well field.

u. Without the operation of the ground-water pump and treat system, increased concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride will migrate to Troy's east well field.

v. Kimberly-Clark is a "person" as defined under Section 3734.01(G) of the Ohio Revised Code.

w. Because of their quantity, concentration, or physical or chemical characteristics, the Director has determined that toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene and other contaminants found at the Site are "hazardous wastes" as defined under Section 3734.01(J) of the Ohio Revised Code.

x. The Site is a hazardous waste facility, solid waste facility, or other location where hazardous waste was treated, stored, or disposed.

y. Conditions at the Site constitute a substantial threat to public health or safety or are causing or contributing or threatening to cause or contribute to air or water pollution or soil contamination.

z. Kimberly-Clark is a "person" as defined under Section 6111.01(I) of the Ohio Revised Code.

aa. The toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene, and other contaminants found at the Site are "industrial wastes" or "other wastes" as defined under Section 6111.01 of the Ohio

forth in Section XI of these Orders.

c. Upon Ohio EPA's approval of the work plan, Kimberly-Clark shall implement the Work detailed therein in accordance with the schedule contained in the approved work plan.

11. Kimberly-Clark shall collect and analyze ground-water samples from all operating pumping wells on a quarterly basis.

12. Kimberly-Clark shall collect and analyze ground-water samples from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-12, GZA-1, RS04, and RS06.

13. Kimberly-Clark shall continue to collect water level measurements from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-1, KMW-2, KMW-3, KMW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-7, EEIB-8, EEIB-9, EEIB-11, EEIB-12, GZA-1, GZA-2, RS04, and RS06.

14. Ground water samples shall be analyzed by EPA Method SW846-8260, with low detection limits (25 ml purge).

15. Ohio EPA may modify any portion of the ground-water monitoring program. Ohio EPA shall notify Kimberly-Clark in writing if any such modifications are determined to be warranted.

16. **IAGWC** standards shall be determined according to the following procedure:

a. The Site contaminants of concern (**"COC"**) are trichloroethene and vinyl chloride.

b. For each COC, identify the corresponding maximum contaminant level (**"MCL"**) and calculate the residential water carcinogenic effects remediation goal (10^{-5}) and the residential water non-carcinogenic effects remediation goal (HI=1) using equations 1' and 2' on pages 21 and 22 of the Risk Assessment Guidance for Superfund, Part B, found in Attachment B of these Orders. When using equation 1', substitute a target excess individual lifetime cancer risk value of 10^{-5} into the equation.

c. For each COC, select the lowest concentration from among the MCL,

the carcinogenic risk-based remediation goal, and the non-carcinogenic risk-based remediation goal.

d. The value obtained in item "c" above becomes the IAGWC standard unless the value is less than 1.0 part per billion in which case 1.0 part per billion becomes the IAGWC standard.

17. Kimberly-Clark may petition the Ohio EPA to cease operation of the West End ground-water pump and treatment system should ground-water sampling and analysis indicate that the concentrations of each COC are less than the IAGWC standards for four consecutive quarters in the following wells: PW-1, PW-2, PW-3, PW-4, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-12, RS04, and RS06. Kimberly-Clark shall resample the ground-water approximately one week following receipt of the fourth consecutive quarter's sampling results to confirm whether the concentrations of each COC are less than the IAGWC standards. Following receipt of written concurrence from the Ohio EPA that the concentrations of each COC are less than the IAGWC standards, Kimberly-Clark may cease operation of the West End ground-water pump and treatment system.

18. Following the Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue to maintain the treatment system in such a manner as to allow for the resumed operation of the treatment system, if resumed operation of the system is required by Ohio EPA due to any exceedance of the IAGWC standards.

19. Following Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue ground-water analytical sampling on a quarterly basis for Site wells listed in Section VI., Paragraphs 12 and 13 of these Orders. If Kimberly-Clark's sampling results indicate that IAGWC standards have been exceeded during any sampling event, Kimberly-Clark shall resample the ground water approximately one week following receipt of the initial sampling results to confirm whether IAGWC standards have been exceeded. If the resampling results confirm that the IAGWC standards have been exceeded, Kimberly-Clark shall resume operation of the West End ground-water pump and treatment system, including the resumption of quarterly water level measurements, and continue quarterly ground-water analytical sampling. Kimberly-Clark shall notify Ohio EPA within twenty-four (24) hours of the resumption of operation of the treatment system if the sampling and resampling, as described above, show that the IAGWC standards have been exceeded.

20. These Orders shall not be eligible for termination pursuant to Section XVI, Termination, until eight (8) consecutive quarters of ground-water sampling and analysis

have demonstrated continued compliance with the IAGWC standards.

VII. SAMPLING AND DATA AVAILABILITY

21. Kimberly-Clark shall notify Ohio EPA not less than fifteen (15) days in advance of all sample collection activity. Kimberly-Clark shall allow split and/or duplicate samples to be taken by Ohio EPA. Ohio EPA shall also have the right to take any additional samples it deems necessary.

22. Within seven (7) days of a request by Ohio EPA, Kimberly-Clark shall submit to Ohio EPA copies of the results of all sampling and/or tests or other data, including raw data and original laboratory reports, generated by or on behalf of Kimberly-Clark with respect to the Site and/or the implementation of these Orders. Kimberly-Clark may submit to Ohio EPA any interpretive reports and written explanations concerning the raw data and original laboratory reports. Such interpretive reports and written explanations shall not be submitted in lieu of original laboratory reports and raw data. Should Kimberly-Clark subsequently discover an error in any report or raw data, Kimberly-Clark shall promptly notify Ohio EPA of such discovery and provide the correct information within seven (7) days.

VIII. ACCESS

23. Ohio EPA shall have access at all times to the Site and any other property to which access is required for the implementation of these Orders, to the extent access to the property is controlled by Kimberly-Clark. Access under these Orders shall be for the purposes of conducting any activity related to these Orders including, but not limited to the following:

a. monitoring the Work;

b. conducting sampling;

c. inspecting and copying records, operating logs, contracts, and/or other documents related to the implementation of these Orders;

d. conducting investigations and tests related to the implementation of these Orders; and

e. verifying any data and/or other information submitted to Ohio EPA.

24. To the extent that the Site or any other property to which access is required for the implementation of these Orders is owned or controlled by persons other than Kimberly-Clark, Kimberly-Clark shall use its best efforts to secure from such persons access for Kimberly-Clark and Ohio EPA as necessary to effectuate these Orders. Copies of all access agreements obtained by Kimberly-Clark shall be provided promptly to Ohio EPA. If any access required to effectuate these Orders is not obtained within thirty (30) days of the effective date of these Orders, or within thirty (30) days of the date Ohio EPA notifies Kimberly-Clark in writing that additional access beyond that previously secured is necessary, Kimberly-Clark shall promptly notify the Ohio EPA in writing of the steps Kimberly-Clark has taken to attempt to obtain access.

25. Notwithstanding any provision of these Orders, the State of Ohio retains all of its access rights and authorities, including enforcement authorities related thereto, under any applicable statute or regulations.

IX. DESIGNATED SITE COORDINATORS

26. Within five (5) days of the effective date of these Orders, Kimberly-Clark shall notify Ohio EPA, in writing, of the name, address and telephone number of its designated Site Coordinator and Alternate Site Coordinator. If a designated Site Coordinator or Alternate Site Coordinator is changed, the identity of the successor shall be given to the other Party at least five (5) days before the changes occur, unless impracticable; but in no event later than the actual day the change is made.

27. To the maximum extent practicable, except as specifically provided in these Orders, communications between Kimberly-Clark and Ohio EPA concerning the implementation of these Orders shall be made between the Site Coordinators. Kimberly-Clark's Site Coordinator shall be available for communication with Ohio EPA regarding the implementation of these Orders for the duration of these Orders. Each Site Coordinator shall be responsible for assuring that all communications from the other Party are appropriately disseminated and processed. Kimberly-Clark's Site Coordinator or alternate shall be present on the Site or on call during all hours of Work at the Site.

28. Without limitation of any authority conferred on Ohio EPA by statute or regulation, Ohio EPA Site Coordinator's authority includes, but is not limited to the following:

a. taking samples and directing the type, quantity and location of samples to be taken by Kimberly-Clark pursuant to an approved work plan;

b. observing, taking photographs, or otherwise recording information related to the implementation of these Orders, including the use of any mechanical or photographic device;

c. directing that the Work stop whenever the Site Coordinator for Ohio EPA determines that the activities at the Site may create or exacerbate a threat to public health or safety, or threaten to cause or contribute to air or water pollution or soil contamination;

d. conducting investigations and tests related to the implementation of these Orders;

e. inspecting and copying records, operating logs, contracts and/or other documents related to the implementation of these Orders; and

f. assessing Kimberly-Clark's compliance with these Orders.

X. PROGRESS REPORTS AND NOTICE

29. Unless otherwise directed by Ohio EPA, Kimberly-Clark shall provide quarterly progress reports to the Ohio EPA concerning the work carried out by Kimberly-Clark during the previous quarter. The quarters shall be divided into the following reporting periods: the First Quarter shall be months January through March; the Second Quarter shall be months April through June; the Third Quarter shall be months July through September; and the Fourth Quarter shall be months October through December. The quarterly progress reports shall be submitted by the tenth (10) day of the first month following the reporting period. The quarterly progress reports shall include, at a minimum, the following information:

a. a description of the status of the Work and progress to date;

b. summaries of all changes made in the interim measures during the reporting period;

c. summaries of all contacts with representatives of the City of Troy, local community, public interest groups, county and state agencies, and government during the reporting period concerning the Work being done as a result of these Orders;

d. summaries of all relevant findings including, but not limited to, water level measurements, flow maps, etc., from Site wells listed in Section VI., Paragraph 13 of these

Orders;

e. summaries of all relevant findings including, but not limited to, analytical sampling results, etc., from Site wells listed in Section VI., Paragraphs 11 and 12 of these Orders;

f. an accounting of how much contaminated ground water was pumped during the reporting period;

g. a description of the difficulties encountered during the reporting period;

h. a description of the actions taken to rectify any difficulties encountered;

i. a description of activities planned for the next quarter; and

j. an identification of changes in key project personnel.

30. Progress reports and all other documents required to be submitted pursuant to these Orders shall be sent by certified mail return receipt requested, or equivalent, to the following address, or to such other address as directed by Ohio EPA:

Ohio Environmental Protection Agency
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049
ATTN: DERR Records Room

Ohio EPA
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402
ATTN: Brown Bridge Site Coordinator, DERR

XI. REVIEW OF SUBMITTALS

31. Ohio EPA will review any work plan, report, or other item required to be submitted pursuant to these Orders. Upon review, Ohio EPA may in its sole discretion: (a) approve the submission in whole or in part; (b) approve the submission upon specified conditions; (c) modify the submission; (d) disapprove the submission in whole or in part, notifying Kimberly-Clark of deficiencies; or (e) any combination of the above.

32. In the event of Ohio EPA's approval, approval upon condition, or modification of any submission, Kimberly-Clark shall proceed to take any action required by the submission as approved, conditionally approved, or modified by Ohio EPA.

33. In the event that Ohio EPA initially disapproves a submission, in whole or in part, and notifies Kimberly-Clark of the deficiencies, Kimberly-Clark shall, within fourteen (14) days, or such longer period of time as specified by Ohio EPA in writing, correct the deficiencies and resubmit to Ohio EPA for approval a revised submission. The revised submission shall incorporate all of the changes, additions, and/or deletions specified by Ohio EPA in its notice of deficiency. Notwithstanding the notice of deficiency, Kimberly-Clark shall proceed to take any action required by a non-deficient portion of the submission.

34. In the event that Ohio EPA disapproves a revised submission, in whole or in part, Ohio EPA may require Kimberly-Clark to correct the deficiencies and incorporate all changes, additions, and/or deletions within fourteen (14) days, or such period of time as specified by Ohio EPA in writing. Or, in the alternative, Ohio EPA retains the right to terminate these Orders, perform any additional remediation, conduct further investigation, and/or enforce the terms of these Orders.

35. All work plans, reports, or other items required to be submitted to Ohio EPA under these Orders shall, upon approval by Ohio EPA, be deemed to be incorporated in and made an enforceable part of these Orders. In the event that Ohio EPA approves a portion of a work plan, report, or other item, the approved portion shall be deemed to be incorporated in and made an enforceable part of these Orders.

XII. RESERVATION OF RIGHTS

36. Ohio EPA reserves the right to seek legal and/or equitable relief to enforce the terms and conditions of these Orders, including penalties against Kimberly-Clark for noncompliance with these Orders.

37. Ohio EPA reserves the right to terminate these Orders and/or perform all or any portion of the Work or any other measures, including but not limited to conducting further investigation and/or remediation, in the event that the requirements of these Orders are not wholly complied with within the time frames required by these Orders.

38. Ohio EPA reserves the right to take any action, including but not limited to any enforcement action, action to recover costs, or action to recover damages to natural

resources, pursuant to any available legal authority as a result of past, present, or future violations of state or federal laws or regulations or the common law, and/or as a result of events or conditions arising from, or related to, the Site. Upon termination of these Orders pursuant to Section XVI, Termination, Kimberly-Clark shall have resolved its liability to Ohio EPA only for the Work performed pursuant to these Orders.

XIII. ACCESS TO INFORMATION

39. Kimberly-Clark shall provide to Ohio EPA, upon request, copies of all documents and information within its possession or control or that of its contractors or agents relating to events or conditions at the Site including, but not limited to manifests, reports, correspondence, or other documents or information related to the Work.

40. Kimberly-Clark may assert a claim that documents or other information submitted to the Ohio EPA pursuant to these Orders is confidential under the provisions of Rule 3745-50-30(A) of the Ohio Administrative code or Section 6111.05(A) of the Ohio Revised Code. If no such claim of confidentiality accompanies the documents or other information when it is submitted to Ohio EPA, it may be made available to the public without notice to Kimberly-Clark.

41. Kimberly-Clark may assert that certain documents or other information are privileged under the attorney-client or any other privilege recognized by state law. If Kimberly-Clark makes such an assertion, it shall provide Ohio EPA with the following: (1) the title of the document or information; (2) the date of the document or information; (3) the name and title of the author of the document or information; (4) the name and title of each addressee and recipient; (5) a general description of the contents of the document or information; and (6) the privilege being asserted by Kimberly-Clark.

42. No claim of confidentiality shall be made with respect to any data, including but not limited to, all sampling, analytical monitoring, or laboratory or interpretive reports.

43. Kimberly-Clark shall preserve for the duration of these Orders and for a minimum of ten (10) years after its termination, all documents and other information within its possession or control, or within the possession or control of its contractors or agents, which in any way relate to the Work, notwithstanding any document retention policy to the contrary. Kimberly-Clark may preserve such documents by microfiche, or other electronic or photographic device. At the conclusion of this document retention period, Kimberly-Clark shall notify Ohio EPA at least sixty (60) days prior to the destruction of these documents or other information; and upon request, shall deliver such documents and other

information to Ohio EPA.

XIV. OTHER CLAIMS

44. Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action, or demand in law or equity against any person, firm, partnership, or corporation, not subject to these Orders for any liability arising from, or related to, events or conditions at the Site.

XV. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

45. The effective date of these Orders shall be the date on which these Orders are entered in the Journal of the Director of Ohio EPA.

46. These Orders may be modified by Ohio EPA. Modifications shall be in writing and shall be effective on the date entered in the Journal of the Director of Ohio EPA.

XVI. TERMINATION

47. These Orders shall terminate upon Ohio EPA's approval in writing of Kimberly-Clark's written certification to Ohio EPA that all Work required to be performed under these Orders has been completed. The termination of these Orders shall not affect the terms and conditions of Section XII, Reservation of Rights, Section XIII, Access to Information, and Section XIV, Other Claims.

IT IS SO ORDERED:

Christopher Jones, Director
Ohio Environmental Protection Agency

3-12-01
Date

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BEFORE THE
ENVIRONMENTAL REVIEW APPEALS COMMISSION
STATE OF OHIO

KIMBERLY-CLARK CORPORATION,	:	
Appellant,	:	CASE NO. ERAC 994912
vs.	:	
Christopher Korleski, DIRECTOR, OHIO EPA,	:	
Appellee.	:	

JOINT STATUS REPORT

Pursuant to the Order of the Environmental Review Appeals Commission ("The Commission"), the parties hereby submit this Joint Status Report.

On March 18, 2009, the Ohio EPA Director issued a final action terminating the vast majority of the order which is the subject of the instant ERAC case. Appellant is reviewing the termination action and its options which review should be completed in the near future. The parties request the opportunity to file a Joint Status Report with the Commission on or before June 12, 2009.

Respectfully submitted,

Timothy J. Kern (0034629)
Assistant Attorney General
Ohio Attorney General
Environmental Enforcement Section
30 East Broad Street, 25th Floor
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614-466-2766
Attorney for Appellee

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52 East Gay Street
P.O. Box 1008
Columbus, Ohio 43215
614-464-8319
Attorney for Appellant
Kimberly-Clark Corporation

(HHHHH)

BEFORE THE ENVIRONMENTAL REVIEW APPEALS COMMISSION

STATE OF OHIO

KIMBERLY-CLARK CORPORATION	:	Case No. ERAC 994912
Appellant	:	
v.	:	**ORDER FOR JOINT STATUS REPORT**
CHRISTOPHER JONES, DIRECTOR OF ENVIRONMENTAL PROTECTION	:	
Appellee	:	Issued on: March 31, 2009

On March 27, 2009, the Commission received a JOINT STATUS REPORT which indicated that the parties are working toward a resolution and requested additional time. Accordingly, the Commission hereby ORDERS that another Joint Status Report be filed on or before June 12, 2009, as requested by the parties.

THE ENVIRONMENTAL REVIEW
APPEALS COMMISSION

Entered in the Case File of the Commission this 31st day of Mar., 2009.

Lisa L. Eschleman, Chair

Toni E. Mulrane, Vice-Chair

Melissa M. Shilling, Member

COPIES SENT TO:

Scott M. Doran, Esq.
Timothy J. Kern, Esq.

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BEFORE THE
ENVIRONMENTAL REVIEW APPEALS COMMISSION
STATE OF OHIO

KIMBERLY-CLARK CORPORATION,	:	
Appellant,	:	CASE NO. ERAC 994912
vs.	:	
Christopher Korleski, DIRECTOR, OHIO EPA,	:	
Appellee.	:	

MOTION TO DISMISS

On March 16, 2001, Kimberly-Clark Corporation filed a Notice of Appeal with the Commission regarding the Director's Final Findings and Orders ("Orders") that are the subject of this appeal. On March 18, 2009, the Ohio EPA Director issued a final action terminating the vast majority of the order which is the subject of the instant ERAC case. Appellant has reviewed the termination action and finds that continuation of this appeal with respect to the remaining items is no longer necessary. As such, pursuant to Ohio Adm. Code 3746-5-28, Appellant moves this Commission for dismissal of this appeal, with prejudice. The Director does not oppose this Motion.

Respectfully submitted,

Theodore A. Boggs (0032905)
Vorys, Sater, Seymour and Pease LLP
52 East Gay Street
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Kimberly-Clark Corporation

(JJJJ)

BEFORE THE ENVIRONMENTAL REVIEW APPEALS COMMISSION

STATE OF OHIO

KIMBERLY-CLARK CORPORATION	:	Case No. ERAC 994912
Appellant,	:	
v.	:	**ORDER FOR DISMISSAL**
CHRIS KORLESKI, DIRECTOR OF ENVIRONMENTAL PROTECTION	:	
Appellee.	:	Issued: June 3, 2009

On June 1, 2009, the Commission received a MOTION TO DISMISS from Counsel for Appellant in the above captioned matter. The Commission, upon review of the filing, finds it well taken and hereby rules to dismiss this matter in accordance with Ohio Admistrative Code 3746-5-28. A copy of the Journal Entry dismissing the instant action is attached.

The Commission, in accordance with Ohio Administrative Code Section 3746-13-01, informs the parties that:

> Any party adversely affected by an order of the commission may appeal to the court of appeals of Franklin County, or, if the appeal arises from an alleged violation of a law or regulation, to the court of appeals of the district in which the violation was alleged to have occurred. The party so appealing shall file with the commission a notice of appeal designating the order from which an appeal is being taken. A copy of such notice shall also be filed by the appellant with the court, and a copy shall be sent by certified mail to the director or other statutory agency. Such notices shall be filed and mailed within thirty days after the date upon which appellant received notice from the commission of the issuance of the order. No

appeal bond shall be required to make an appeal effective.

THE ENVIRONMENTAL REVIEW APPEALS COMMISSION

Lisa L. Eschleman, Chair

Toni E. Mulrane, Vice-Chair

Melissa M. Shilling, Member

Entered in the Case File of the Commission this 3rd day of June, 2009

COPIES SENT TO:

KIMBERLY-CLARK CORP. (CERTIFIED MAIL)
CHRIS KORLESKI, DIRECTOR (CERTIFIED MAIL)
Scott Doran, Esq.
Timothy Kern, Esq.

BEFORE THE ENVIRONMENTAL REVIEW APPEALS COMMISSION

STATE OF OHIO

KIMBERLY-CLARK CORPORATION	:	Case No. ERAC 994912
Appellant,	:	
	:	**JOURNAL ENTRY**
CHRIS KORLESKI, DIRECTOR OF ENVIRONMENTAL PROTECTION	:	
Appellee	:	Issued: June 3, 2009

On June 6, 2009, the Commission received a MOTION TO DISMISS from counsel for Appellant. The Commission, upon review of the Motion, finds it well taken and hereby rules to dismiss this matter in accordance with OAC 3746-5-28.

SEE CASE FILE AND RECORD OF ACTIONS

Mary J. Oxley, Executive Secretary (la)

Entered in the Journal of the Commission this 3rd day of Jun., 2009

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 1

Date	TOC ELEV: 825.53 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Chloro ethene	Chloro ethane	Tri Vinyl Chloride	Chloro Benzene	Toluene
08/23/95	812.87	6.5	0.87	n	nr	13	n	n	n	n	n	n
11/15/95	812.74	6.5	0.65	n	nr	18	n	n	n	n	n	n
02/16/96	812.41	6.5	1.17	n	nr	34	n	n	n	n	n	n
05/29/96	814.49	5.5	0.56	n	nr	21	n	n	n	n	n	n
09/18/96	810.36	6.5	0.46	n	nr	17	n	n	n	n	n	n
11/22/96	807.61	5.5	1.11	n	nr	15	n	n	n	n	n	n
02/07/97	nr	nr	nr	n	nr	24	n	n	n	n	n	n
06/04/97	814.93	6.88	0.635	n	nr	4	n	n	n	n	n	n
12/16/97	808.87	6.69	0.971	n	n	17	n	n	n	n	n	n
09/05/02	811.38	7.2	0.573	n	n	26	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*n*	*42.8*	*n*	*n*	*n*	*n*	*n*	*n*

KMW 2

Date	TOC ELEV: 826.19 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	811.94	7.0	1.07	1	nr	n	n	n	n	n	n	n
11/14/95	812.75	6.5	0.94	n	nr	n	n	n	n	n	n	n
02/16/95	811.65	6.5	0.98	n	nr	n	n	n	n	n	n	n
05/29/96	814.33	5.5	0.68	n	nr	n	n	n	n	n	n	7,100
09/18/96	810.34	7.0	0.89	1	nr	n	n	2	n	n	n	n
11/22/96	807.49	6.5	0.94	n	nr	n	n	n	n	n	n	n
02/07/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/04/97	815.95	6.75	0.647	n	nr	n	n	n	n	n	n	n
09/25/97	810.99	7.68	1.29	n	nr	n	n	n	n	n	n	n
12/16/97	808.68	6.88	0.868	n	n	n	n	n	n	n	n	n
05/31/00	*812.54*	*nr*	*nr*	*n*	*8.2*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/05/02	811.2	6.81	0.95	n	13	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*0.67*	*15.4*	*2.68*	*n*	*1.01*	*n*	*n*	*n*	*n*

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B = Analyte detected in laboratory method blank
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 3
TOC ELEV: 826.46

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	811.83	7.0	1.21	n	nr	n	n	n	n	n	n	n
11/14/95	812.72	6.5	0.80	n	nr	n	n	n	n	n	n	n
02/16/96	811.44	6.5	0.98	n	nr	n	n	n	n	n	n	n
05/29/96	814.24	5.5	0.82	n	nr	n	n	n	n	n	n	n
09/18/96	810.46	6.5	0.80	n	nr	n	n	n	n	n	n	n
11/22/96	807.46	6.0	1.12	n	nr	n	n	n	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/04/97	815.92	6.74	0.557	n	nr	n	n	n	n	n	n	n
09/25/97	811	7.54	0.929	n	nr	n	n	n	n	n	n	n
12/16/97	808.63	6.9	0.839	n	n	n	n	n	n	n	n	n
05/31/00	*812.56*	*nr*	*nr*	*n*	*4.5*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/05/02	811.21	7.06	0.579	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*1.13*	*2.4*	*n*	*n*	*1.79*	*n*	*n*	*n*	*n*

KMW 4
TOC ELEV: 826.47

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	811.98	6.5	0.85	n	nr	n	n	n	n	n	n	n
11/14/95	812.81	7.0	0.77	n	nr	n	n	n	n	n	n	n
02/16/96	811.55	6.5	0.95	n	nr	n	n	n	n	n	n	n
05/29/96	814.35	5.5	0.79	n	nr	n	n	n	n	n	n	n
09/18/96	810.52	6.5	0.94	n	nr	n	n	n	n	n	n	n
11/22/96	807.53	6.0	0.92	n	nr	n	n	1	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/04/97	815.94	6.72	0.633	n	nr	n	n	n	n	n	n	n
09/25/97	811.01	7.4	1.031	n	nr	n	n	n	n	n	n	n
12/16/97	808.67	6.8	0.911	n	n	n	n	n	n	n	n	n
05/31/00	*812.57*	*nr*	*nr*	*n*	*3.5*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/05/02	811.27	7.05	0.577	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*1.43*	*2.29*	*n*	*n*	*0.5*	*n*	*n*	*n*	*n*

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

EEIB 7

Date	TOC ELEV: 827.63 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	809.94	nr	nr	0.90	n	n	n	1.6	n	n	n	16,000
08/23/95	812.29	7.0	0.72	n	nr	n	n	2	n	n	n	n
11/14/95	813.10	6.5	0.78	n	nr	n	n	3	n	n	n	n
02/16/96	811.87	6.5	0.84	n	nr	n	n	2	n	n	n	n
05/29/96	814.63	5.7	0.67	n	nr	n	n	n	n	n	n	n
09/17/96	811.23	6.5	1.63	n	nr	n	n	n	n	n	n	n
11/22/96	808.28	6.0	0.77	n	nr	n	n	2	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
05/30/00	*812.93*	*nr*	*nr*	*n*	*n*	*n*	*n*	*1.2*	*n*	*n*	*n*	*n*
09/05/02	811.39	6.95	0.911	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*0.71*	*2.77*	*n*	*n*	*2.89*	*n*	*n*	*n*	*n*

EEIB 8

Date	TOC ELEV: 827.7 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	810.08	nr	nr	2.5	2.3	n	n	5.3	n	n	11	10,000
08/23/95	812.57	6.5	0.72	n	nr	n	n	n	n	n	n	59,000
11/14/95	813.35	6.5	0.73	n	nr	n	n	n	n	n	n	1,200
02/16/96	812.55	6.5	0.74	n	nr	n	n	n	n	n	n	32,000
05/29/96	814.85	5.5	0.65	n	nr	n	n	n	n	n	n	n
09/17/96	811.01	6.5	0.81	n	nr	n	n	1	n	n	n	n
11/22/96	808.60	6.5	0.67	n	nr	n	170	n	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
05/30/00	*813.1*	*nr*	*nr*	*n*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*180*
09/05/02	811.48	7.18	0.566	n	nr	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*0.61*	*2.4*	*n*	*n*	*2.49*	*n*	*n*	*n*	*n*

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

EEIB 9
TOC ELEV: 825.78

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2- Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	810.42	nr	nr	21	4.1	0.3	6.6	1.3	10	n	11	160,000
08/23/95	812.70	6.5	2.31	n	nr	n	n	n	n	n	n	n
09/20/95	nr	nr	nr	nr	nr	nr	nr	nr	nr	nr	n	2,300
11/14/95	813.03	6.5	1.55	n	nr	n	n	n	n	n	1	1,200
02/16/96	812.16	6.5	1.31	n	nr	n	n	n	n	n	n	7,400
05/29/96	814.40	5.5	0.88	n	nr	n	n	n	n	n	n	15,000
09/18/96	810.63	7.0	1.00	2	nr	5	n	n	n	n	26	64,000
11/22/96	nr	6.5	1.00	n	nr	n	n	n	n	n	n	10,000
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/04/97	815.88	6.83	0.97	n	nr	n	n	n	n	n	n	n
09/25/97	811.03	7.84	1.103	n	nr	19	n	n	n	n	n	n
12/17/97	808.99	7.14	2.17	n	n	n	n	n	n	n	n	n
05/31/00	*812.78*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/05/02	811.36	6.61	1.09	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*0.84*	*n*	*n*	*n*	*n*	*n*	*n*	*n*

GZA 2
TOC ELEV: 826.71

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2- Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro- ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
10/14/93	nr	nr	nr	n	n	1	n	n	n	n	n	0.32
07/20/94	809.41	nr	nr	n	n	2.9	n	n	n	n	1.9	n
08/23/95	812.42	7.0	1.04	n	nr	13	n	n	n	n	n	n
11/15/95	813.21	7.0	1.01	n	nr	11	n	n	n	n	n	n
02/16/96	811.70	6.5	1.13	n	nr	33	n	n	n	n	n	n
05/29/96	813.07	5.5	0.76	n	nr	17	n	n	n	n	n	n
09/18/96	810.19	6.5	0.90	n	nr	n	n	n	n	n	n	n
11/22/96	807.55	6.5	0.93	n	nr	7	n	n	n	n	n	n
03/04/98	809.81	nr	nr	n	n	17	n	n	n	n	n	n
05/31/00	*812.51*	*nr*	*nr*	*n*	*n*	*8.6*	*n*	*n*	*n*	*n*	*n*	*n*
09/05/02	811.16	7.23	1	n	n	20	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*n*	*29.2*	*n*	*n*	*n*	*n*	*n*	*n*
09/15/10	812.19	7.14	1.26	n	n	19	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 5
TOC ELEV: 825.94

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/22/95	815.83	6.0	0.58	n	nr	n	n	n	n	n	n	n
11/15/95	815.09	6.8	1.44	n	nr	n	n	n	n	n	n	n
02/15/96	815.20	6.5	0.71	n	nr	n	n	n	n	n	n	n
05/28/96	816.78	6.0	0.70	n	nr	n	n	n	n	n	n	n
09/17/96	813.32	6.5	0.91	n	nr	17	5	4	n	n	n	n
11/21/96	810.43	6.5	0.92	n	nr	n	1	1	n	n	n	n
02/06/97	nr	nr	nr	3	nr	7	7	4	n	n	n	n
06/03/97	816.87	6.49	1.05	1	nr	n	n	n	n	n	n	3
12/17/97	810.83	7.12	1.042	n	6	n	n	n	n	n	n	n
12/08/98	813.44	7.14	1.089	n	nr	12	6	6	n	n	n	n
12/16/99	813.56	7.14	1,089	2.4	3.2	13	4.5J	4.1	n	n	n	n
12/13/00	814.74	7.19	0.857	1.8	2.5	8.1	3.4	2.9	n	n	n	n
05/30/00	*814.44*	*nr*	*nr*	*n*	*2.6*	*2.5*	*1.8*	*2*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	814.64	6.95	1.520	n	n	n	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	814.03	6.78	1.400	n	n	10	n	n	n	n	n	n
10/31/01	814.96	6.6	1.710	n	n	n	n	n	n	n	n	n
02/12/02	815.26	7.01	0.890	n	n	n	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*1.1*	*2.9*	*1*	*1.2*	*n*	*n*	*n*	*n*
05/21/02	815.6	6.72	1.670	n	n	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*1.4*	*1.8*	*5.4*	*1.6*	*1.8*	*n*	*n*	*n*	*n*
09/04/02	813.29	7.1	0.606	n	n	7.3	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*0.65*	*0.84*	*10.2*	*1.14*	*1.84*	*n*	*n*	*n*	*n*
12/05/02	812.84	6.43	1.290	n	n	11	n	1.2	n	n	n	n
12/05/02	*na*	*na*	*na*	*0.59*	*n*	*35.6*	*3.45*	*3.62*	*n*	*n*	*n*	*n*
03/11/03	815.86	5.09	1.300	0.86	0.97	11	1.4	1.5	n	n	n	n
03/11/03	*na*	*na*	*na*	*0.901*	*0.887*	*13.6*	*1.2*	*1.75*	*n*	*n*	*n*	*n*
06/11/03	814.29	3.87	1.780	n	n	16	1.4	1.6	n	n	n	n
06/11/03	*na*	*na*	*na*	*0.631*	*0.338*	*19.6*	*n*	*2.31*	*n*	*n*	*n*	*n*
09/15/03	815.44	6.6	1.750	0.94	1.3	9	1.3	1.8	n	n	n	n
09/15/03	*na*	*na*	*na*	*1.23*	*1.38*	*12.1*	*1.73*	*1.96*	*n*	*n*	*n*	*0.384T*
12/04/03	815.99	7.12	0.840	0.47	0.82	3.2	0.70	0.78	n	n	n	n
12/04/03	*na*	*na*	*na*	*0.547*	*0.915*	*3.84*	*0.848*	*0.835*	*n*	*n*	*n*	*n*
03/17/04	813.09	7.04	0.784	0.26	0.27	11	0.95	1.4	n	n	n	n
03/17/04	*na*	*na*	*na*	*0.321*	*0.276*	*12*	*1.54*	*1.42*	*n*	*n*	*n*	*n*
06/09/04	814.30	6.76	1.430	n	n	14	1.1	1.6	n	n	n	n
06/09/04	*na*	*na*	*na*	*0.359*	*n*	*18.1*	*1.34*	*2.10*	*n*	*n*	*n*	*n*
09/13/04	813.24	7.35	0.954	n	n	20	n	1.9	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*n*	*30.4*	*1.28*	*3.03*	*n*	*n*	*n*	*n*
12/09/04	813.73	7.27	1.43	0.94	1.2	26	1.3	2.5	n	n	n	n
12/09/04	*na*	*na*	*na*	*1.13*	*1.26*	*30.1*	*1.61*	*2.68*	*n*	*n*	*n*	*n*
03/24/05	814.84	7.68	0.702	0.18	0.33	2.3	0.38	0.37	n	n	n	n
05/20/05	na	na	na	n	n	3.7	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*0.438J*	*0.501J*	*8.95*	*1.31*	*0.881J*	*n*	*n*	*n*	*n*
09/01/05	813.79	6.6	1.000	n	n	6	n	n	n	n	n	n
12/14/05	814.48	6.41	1.140	n	n	10.2	n	1.10	n	n	n	n
03/28/06	815.14	7.04	0.940	0.21J	0.19J	3.7	0.58	0.43	n	n	n	n
03/28/06	*na*	*na*	*na*	*0.153J*	*n*	*5.01*	*0.767J*	*0.533J*	*n*	*n*	*n*	*n*
06/21/06	814.97	6.86	0.808	0.15J	0.22J	4.8	0.54	0.47	n	n	n	0.25
09/12/06	814.16	7.38	0.605	n	0.25J	3.7	0.38	0.28	n	n	n	0.23J
09/12/06	*na*	*na*	*na*	*n*	*n*	*4.05*	*1.02*	*0.316*	*n*	*n*	*n*	*n*
12/14/06	815.83	7.05	0.846	0.51J	0.66J	5.1	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*0.590*	*0.746*	*7.55*	*0.772*	*0.519*	*n*	*n*	*n*	*n*
03/28/07	817.70	7.04	0.670	n	0.92J	2.8	n	0.60J	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.498J*	*0.964J*	*2.95*	*0.657J*	*0.716J*	*n*	*n*	*n*	*n*
06/20/07	814.24	7.06	0.599	n	n	6.0	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*6.57*	*0.399J*	*0.273J*	*n*	*n*	*n*	*n*
09/10/07	813.83	7.78	0.920	n	1.0	12	n	n	n	n	n	n
12/12/07	815.58	8.67	0.737	n	0.53J	2.8	n	n	n	n	n	n
03/20/08	819.67	7.88	0.489	n	0.58J	1.4	n	n	n	n	n	n
06/18/08	815.61	7.30	1.20	n	0.58J	3.2	n	n	n	n	n	n
09/10/08	813.48	7.12	0.560	n	n	5.0	n	n	n	n	n	n
12/11/08	812.76	7.32	0.587	n	n	1.4	n	n	n	n	n	n
03/24/09	814.57	8.28	0.719	n	n	2.3	n	n	n	n	n	n
06/18/09	814.70	7.12	0.920	n	n	2.4	n	n	n	n	n	n
09/09/09	814.37	7.28	0.685	n	n	1.3	n	n	n	n	n	n
12/15/09	814.01	6.99	0.996	n	n	3.0	0.63J	n	n	n	n	n
03/24/10	815.92	7.13	1.47	n	n	2.4	n	n	n	n	n	n
06/15/10	817.36	7.23	0.636	n	n	n	n	n	n	n	n	n
09/14/10	813.64	7.03	0.770	n	n	2.7	n	n	n	n	n	n
12/14/10	814.01	7.07	0.752	n	n	3.0	n	n	n	n	n	n
03/28/11	816.13	6.87	1.27	n	n	1.5	n	n	n	n	n	n
06/20/11	815.78	6.82	1.16	n	n	0.82J	n	n	n	n	n	n
09/08/11	813.06	7.10	0.719	n	n	3.6	n	n	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 6
TOC ELEV: 825.42

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/21/95	815.42	7.0	0.74	n	nr	n	3	4	n	n	n	n
11/15/95	814.43	6.5	0.73	n	nr	n	3	3	n	n	n	n
02/16/96	814.48	6.5	0.72	n	nr	n	5	3	n	n	n	n
05/29/96	816.96	6.0	0.72	1	nr	n	5	7	n	n	n	n
09/17/96	812.28	6.5	0.69	n	nr	23	n	3	n	n	n	n
11/21/96	810.19	5.5	0.87	n	nr	66	1	7	n	n	n	n
02/06/97	nr	nr	nr	n	nr	150	2	8	n	n	n	n
06/03/97	819.44	6.84	0.721	n	nr	58	n	4	n	n	n	n
09/25/97	811.52	8.13	0.942	13	nr	n	37	30	n	n	n	n
12/17/97	810.4	7.66	0.663	n	n	n	n	n	n	n	n	n
03/04/98	812.3	nr	nr	n	nr	n	12	12	n	n	n	n
06/03/98	812.22	8.05	0.989	n	nr	n	6	8	n	n	n	n
09/02/98	811.89	7.85	1.025	n	nr	n	5	6	n	n	n	n
12/08/98	812.64	7.66	0.699	n	nr	n	2EJ	n	n	n	n	n
03/15/99	814.48	7.05	0.681	n	nr	n	3EJ	n	n	n	n	n
06/16/99	813.06	6.96	0.61	n	nr	n	1J	n	n	n	n	n
09/02/99	812.59	7.46	0.707	n	nr	n	n	n	n	n	n	n
12/16/99	812.92	7.66	0.699	n	n	n	n	n	n	n	n	n
03/01/00	813.6	7.64	0.66	n	n	n	n	n	n	n	n	n
06/06/00	813.4	7.38	0.889	n	n	n	n	n	n	n	n	n
09/07/00	813.14	6.99	0.659	n	n	n	n	n	n	n	n	n
12/11/00	813.19	7.35	0.735	n	n	n	n	n	n	n	n	n
05/30/00	*814.02*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/23/01	814.36	7.4	0.689	n	n	n	n	n	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	813.66	7.27	0.87	n	n	n	14	10	n	n	n	n
10/31/01	814.44	7.32	0.802	n	n	n	n	n	n	n	n	n
02/12/02	814.72	7.24	0.884	n	n	n	n	n	n	n	n	n
05/21/02	814.51	7.25	0.782	n	n	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*0.52J*	*0.62J*	*n*	*0.32J*	*n*	*n*	*n*	*n*	*n*
09/04/02	812.66	7.13	0.898	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*0.54*	*0.58*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	812.31	7.07	0.555	0.75	n	n	n	n	n	n	n	n
12/05/02	*na*	*na*	*na*	*1.87*	*0.77*	*n*	*1.68*	*1.01*	*n*	*n*	*n*	*n*
03/11/03	816.06	7.03	1.1	2.2	2.6	n	3.6	2.2	n	0.31	n	n
03/11/03	*na*	*na*	*na*	*2.86*	*2.6*	*n*	*4.24*	*2.86*	*n*	*n*	*n*	*n*
06/11/03	813.44	4.09	0.859	n	1.1	n	1.7	0.77	n	n	n	n
06/11/03	*na*	*na*	*na*	*2.49*	*1.35*	*n*	*0.986*	*1.16*	*n*	*n*	*n*	*n*
09/15/03	814.46	7.19	0.922	0.57	0.34	n	2.7	1.6	n	n	n	n
09/15/03	*na*	*na*	*na*	*0.503*	*n*	*n*	*2.17*	*1.2*	*n*	*n*	*n*	*0.299T*
12/04/03	815.35	7.69	0.706	2.4	3.0	n	1.5	1.1	n	n	n	n
12/04/03	*na*	*na*	*na*	*2.11*	*2.75*	*n*	*1.2*	*0.889*	*n*	*n*	*n*	*n*
03/17/04	813.32	7.42	0.812	0.69	0.74	n	0.5	n	n	n	n	n
03/17/04	*na*	*na*	*na*	*0.763*	*0.796*	*n*	*0.792*	*0.574*	*n*	*n*	*n*	*n*
06/09/04	813.31	8.10	0.618	n	n	n	n	n	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/13/04	812.62	7.38	0.663	n	n	n	n	n	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/09/04	813.34	8.07	0.672	1.0	1.5	n	1.0	1.3	n	n	n	n
12/09/04	*na*	*na*	*na*	*1.12*	*1.28*	*n*	*1.15*	*1.30*	*n*	*n*	*n*	*n*
03/24/05	814.11	6.79	0.626	n	n	n	n	n	n	n	n	n
05/20/05	814.35	na	na	n	n	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*0.363J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
01/02/00	813.5	7.36	0.654	n	n	n	n	n	n	n	n	n
12/14/05	813.52	6.83	0.641	n	n	n	n	n	n	n	n	n
03/28/06	814.25	7.42	0.568	n	n	n	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	814.17	7.15	0.694	n	n	n	n	n	n	n	n	0.25
09/12/06	813.90	7.49	0.580	n	n	n	n	n	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/14/06	814.98	7.20	0.654	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.15	7.35	0.480	n	0.51J	n	n	0.92J	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.441J*	*0.581J*	*n*	*1.00*	*0.996J*	*n*	*n*	*n*	*n*
06/20/07	813.43	7.40	0.602	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.31	7.35	0.990	n	n	n	n	n	n	n	n	n
12/12/07	815.82	8.84	0.920	n	n	n	n	1.6	n	n	n	n
03/20/08	821.03	6.52	0.868	1.1	0.76J	n	4.3	4.4	n	n	n	n
06/18/08	814.76	7.61	0.899	n	n	n	n	n	n	n	n	n
09/10/08	812.77	7.05	0.537	n	n	n	n	n	n	n	n	n
12/11/08	812.23	7.39	0.630	n	n	n	n	n	n	n	n	n
03/24/09	813.82	8.59	0.585	n	n	n	n	n	n	n	n	n
06/18/09	813.62	7.46	0.619	n	n	n	n	n	n	n	n	n
09/09/09	813.88	7.15	0.599	n	n	n	n	n	n	n	n	n
12/15/09	813.71	7.45	0.656	n	n	n	n	n	n	n	n	n
03/24/10	815.66	7.32	0.585	n	n	n	n	n	n	n	n	n
06/15/10	818.22	7.26	0.776	1.3	0.84J	n	n	2.9	n	n	n	n
09/14/10	812.74	7.40	0.576	n	n	n	n	n	n	n	n	n
12/14/10	813.61	7.32	0.660	n	n	n	n	n	n	n	n	n
03/28/11	814.90	7.44	3.51	n	n	n	n	1.1	n	n	n	n
06/20/11	814.72	7.07	0.681	n	n	n	n	n	n	n	n	n
09/08/11	812.78	7.35	0.706	n	n	n	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 7
TOC ELEV: 826.25

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/21/95	815.14	6.5	0.71	n	nr	n	n	n	n	n	n	n
11/15/95	815.05	7.0	0.01	n	nr	n	n	n	n	n	n	n
02/16/96	814.27	7.0	0.71	n	nr	n	n	n	n	n	n	n
05/29/96	816.95	5.5	0.73	n	nr	n	n	n	n	n	n	n
09/17/96	813.89	6.5	0.70	n	nr	n	5	1	n	n	n	n
11/21/96	811.15	5.0	0.71	n	nr	n	n	n	n	n	n	n
02/06/97	nr	nr	nr	3	nr	n	24	22	n	n	n	n
06/03/97	819.26	7.39	0.352	n	nr	n	29	17	n	n	n	n
09/25/97	811.91	8.03	1.202	n	nr	160	2	14	n	n	n	n
12/17/97	811.26	7.21	0.974	n	n	140	n	12	n	n	n	n
03/04/98	812.99	nr	nr	n	nr	130	3	13	n	n	n	n
06/03/98	813.25	8.1	1.194	n	nr	92	n	15	n	n	n	n
09/02/98	812.50	7.95	1.1	n	nr	110	n	15	n	n	n	n
12/08/98	813.27	7.47	0.713	n	nr	110	2EJ	11	n	n	n	n
03/15/99	814.93	7.36	0.673	n	nr	75	1EJ	6	n	n	n	n
06/16/99	813.52	6.82	0.648	n	nr	74	n	5	n	n	n	n
09/02/99	813.09	7.3	0.676	n	nr	60	n	5	n	n	n	7
12/16/99	813.37	7.47	0.713	n	n	72	1.4J	6.5	n	n	n	n
03/01/00	814.24	7.15	0.719	n	n	45	n	4.4	n	n	n	n
06/06/00	813.97	7.61	0.973	n	n	27	n	2	n	n	n	n
09/07/00	813.58	7.21	0.671	n	n	20	n	n	n	n	n	n
12/13/00	815.01	7.32	0.905	n	n	25	n	2.4	n	n	n	n
05/30/00	*814.60*	*nr*	*nr*	*n*	*n*	*19*	*n*	*1.7*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*15.5*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	814.52	7.09	1.02	n	n	31	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*22.5*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	813.74	7.36	0.913	n	n	23	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*18.1*	*n*	*n*	*n*	*n*	*n*	*n*
11/01/01	814.65	6.82	0.961	n	n	60.2	n	7.5	n	n	n	n
02/12/02	815.14	7.14	0.915	n	n	16.4	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*n*	*12.3*	*n*	*1.6*	*n*	*n*	*n*	*n*
05/21/02	814.97	7.19	0.793	n	n	11	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*n*	*n*	*13*	*n*	*1.3*	*n*	*n*	*n*	*n*
09/04/02	813.09	7.17	0.897	n	n	9.2	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*2.36*	*n*	*n*	*0.7*	*n*	*0.79*	*n*	*n*
12/05/02	812.91	6.81	1.03	n	n	44	n	2.5	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*n*	*99.5*	*0.87*	*6.98*	*n*	*n*	*n*	*n*
03/11/03	816.30	5.1	1.7	n	n	51	n	3.6	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*n*	*73.4*	*n*	*4.29*	*n*	*n*	*n*	*n*
06/11/03	814.09	7.02	0.921	n	0.28	28	0.28	2.5	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*0.33*	*39.7*	*n*	*3.77*	*n*	*n*	*n*	*n*
09/15/03	814.77	6.91	0.751	n	n	11	n	1	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*n*	*14.1*	*n*	*0.963*	*n*	*n*	*n*	*0.314T*
12/04/03	815.60	7.23	0.713	n	0.36	9.6	n	1.5	n	n	n	n
12/04/03	*na*	*na*	*na*	*n*	*0.387*	*13.0*	*n*	*1.68*	*n*	*n*	*n*	*n*
03/17/04	813.86	7.29	0.906	n	0.3	13.0	n	1.4	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.349*	*14.6*	*0.459*	*1.87*	*n*	*n*	*n*	*n*
06/09/04	813.85	7.24	0.726	n	n	7.6	n	0.69	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*n*	*10.7*	*n*	*0.913*	*n*	*n*	*n*	*n*
09/13/04	813.09	7.67	0.782	n	0.35J	13.0	n	2.2	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*0.342*	*18.5*	*0.258*	*3.13*	*n*	*n*	*n*	*n*
12/09/04	813.83	7.10	1.10	n	n	48	0.80	5.0	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*n*	*60.8*	*0.931*	*5.20*	*n*	*n*	*n*	*n*
03/24/05	814.46	7.91	0.547	n	0.15	8.4	n	0.61	n	n	n	n
05/20/05	814.55	na	na	n	n	5.8	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*n*	*8.22*	*n*	*0.585J*	*n*	*n*	*n*	*n*
08/31/05	813.82	7.15	0.626	n	n	6.4	n	n	n	n	n	n
12/14/05	814.04	6.65	0.617	n	n	4.9	n	n	n	n	n	n
03/28/06	814.50	7.43	0.554	n	n	5.2	n	0.40	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*6.98*	*n*	*0.548J*	*n*	*n*	*n*	*n*
06/21/06	814.34	7.17	0.521	n	n	4.5	n	0.38	n	n	n	n
09/12/06	813.87	7.52	0.575	n	n	4.9	n	0.41	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*n*	*5.58*	*n*	*0.425*	*n*	*n*	*n*	*n*
12/14/06	815.30	7.24	0.641	n	n	3.9	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*5.36*	*n*	*0.384*	*n*	*n*	*n*	*n*
03/28/07	817.21	7.18	0.535	n	n	6.3	n	0.96J	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*0.291J*	*7.78*	*n*	*0.825J*	*n*	*n*	*n*	*n*
06/20/07	813.74	7.36	0.589	n	n	3.6	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*3.82*	*n*	*0.269J*	*n*	*n*	*n*	*n*
09/10/07	813.61	8.25	0.850	n	n	4.6	n	n	n	n	n	n
12/12/07	816.44	8.42	0.809	n	n	4.5	n	n	n	n	n	n
03/20/08	821.15	7.68	0.726	n	0.54J	7.6	n	1.4	n	n	n	n
06/18/08	815.00	7.77	0.843	n	n	3.1	n	n	n	n	n	n
09/10/08	813.09	7.61	0.597	n	n	3.3	n	n	n	n	n	n
12/11/08	812.67	5.74	0.826	n	n	4.2	n	n	n	n	n	n
03/24/09	813.78	8.34	0.513	n	n	3.7	n	n	n	n	n	n
06/18/09	813.84	7.46	0.617	n	n	2.5	n	n	n	n	n	n
09/09/09	813.73	7.15	0.605	n	n	3.2	n	n	n	n	n	n
12/15/09	813.93	6.89	0.616	n	n	2.9	n	n	n	n	n	n
03/24/10	815.76	7.27	0.586	n	n	2.8	n	n	n	n	n	n
06/15/10	818.98	7.31	1.05	n	n	4.2	n	n	n	n	n	n
09/14/10	813.14	7.39	0.566	n	n	n	n	n	n	n	n	n
12/14/10	813.87	7.33	0.628	n	n	3.3	n	n	n	n	n	n
03/28/11	815.07	7.44	3.28	n	n	3.1	n	n	n	n	n	n
06/20/11	815.06	7.01	0.702	n	n	2.1	n	n	n	n	n	n
09/08/11	812.96	6.95	0.699	n	n	2.8	n	n	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 8
TOC ELEV: 825.32

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	814.21	6.50	0.74	6	nr	n	n	n	14	8	2	n
11/15/95	814.22	6.50	0.81	8	nr	n	n	1	10	3	1	n
02/15/96	813.90	6.50	0.78	2	nr	n	n	n	n	n	n	n
05/29/96	816.15	5.50	0.73	4	nr	n	n	n	n	7	n	n
09/17/96	nr	6.50	0.69	3	nr	n	4	18	n	2	n	n
11/21/96	809.49	5.50	0.79	3	nr	n	4	n	n	n	n	n
02/06/97	nr	nr	nr	3	nr	n	n	2	n	2	n	n
06/03/97	818.26	7.06	0.596	n	nr	n	n	2	n	n	n	n
09/25/97	811.00	8.57	1.034	2	nr	n	n	n	n	4	n	n
12/17/97	809.98	7.25	1.177	n	n	n	n	n	n	n	n	n
03/04/98	811.84	nr	nr	2	nr	n	n	1	n	n	n	n
06/03/98	812.37	8.46	1.050	n	nr	n	n	n	n	n	n	n
09/02/98	811.54	8.25	1.000	n	nr	n	n	2	n	n	n	n
12/08/98	812.23	7.45	0.709	n	nr	n	n	2	n	n	n	n
03/15/99	814.30	6.93	0.700	n	nr	n	n	n	n	n	n	n
06/16/99	812.56	6.93	0.712	n	nr	n	n	1	n	n	n	n
09/02/99	811.90	7.28	0.737	2E	nr	n	n	2	n	1E	n	n
12/16/99	811.88	7.45	0.709	n	4.6	n	n	n	n	n	n	n
03/01/00	813.42	7.42	0.638	n	3.8	n	n	n	n	n	n	n
06/06/00	813.32	7.58	0.933	n	3.6	n	n	n	n	n	n	n
09/07/00	812.75	6.29	0.581	n	19	n	n	n	n	n	n	n
12/13/00	814.24	7.20	0.755	n	5.5	n	n	n	n	n	n	n
05/30/00	*813.76*	*nr*	*nr*	*n*	*3.3*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*30.3*	*n*	*n*	*n*	*n*	*13*	*n*	*n*
04/23/01	814.15	7.13	0.734	n	n	n	n	n	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*7.3*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	812.84	7.39	0.774	n	6	n	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
10/31/01	812.98	7.13	0.807	n	n	n	n	n	n	n	n	n
10/31/01	*na*	*na*	*na*	*1.4*	*7.6*	*n*	*n*	*0.7*	*n*	*0.5*	*n*	*n*
02/12/02	814.56	7.15	0.875	n	n	n	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*1*	*3.8*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
05/21/02	814.36	7.23	0.811	n	7.5	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*0.84J*	*5.5*	*n*	*0.57J*	*2.3*	*n*	*n*	*n*	*n*
09/05/02	812.29	7.01	0.957	n	37	n	n	11	n	n	n	n
09/05/02	*na*	*na*	*na*	*2.77*	*50.2*	*3.44*	*2.15*	*15.2*	*n*	*2.68*	*n*	*n*
12/05/02	812.12	6.96	0.990	0.84	6.5	0.61	n	2.4	n	0.52	n	0.53T
12/05/02	*na*	*na*	*na*	*2.03*	*13.3*	*1.64*	*1.37*	*6.33*	*n*	*1.13*	*n*	*n*
03/11/03	815.91	5.16	0.955	1.8	9.8	0.64	0.77	4.2	n	1.2	n	n
03/11/03	*na*	*na*	*na*	*2.03*	*12.2*	*0.733*	*0.987*	*5.68*	*n*	*1.7*	*n*	*n*
06/11/03	813.06	7.06	0.663	n	14	1.1	0.99	6	n	0.66	n	n
06/11/03	*na*	*na*	*na*	*1.38*	*17*	*n*	*n*	*8.29*	*n*	*0.951*	*n*	*n*
09/15/03	814.25	6.80	0.755	1	23	1.4	0.66	4.7	n	1.6	n	n
09/15/03	*na*	*na*	*na*	*1.14*	*26.4*	*1.41*	*0.711*	*4.34*	*n*	*3.12*	*n*	*n*
12/04/03	815.39	7.54	0.698	1.0	13	1.0	0.63	4.5	n	2.2	n	n
12/04/03	*na*	*na*	*na*	*1.34*	*17.2*	*1.15*	*0.774*	*4.82*	*n*	*3.85*	*n*	*n*
03/17/04	813.03	8.05	0.694	0.88	22	1.7	0.8	5.5	n	2.7	n	n
03/17/04	*na*	*na*	*na*	*1.07*	*24.2*	*2.14*	*1.16*	*6.59*	*n*	*3.34*	*n*	*n*
06/09/04	813.00	7.14	0.727	0.73	21	1.1	0.59	3.3	n	1.4	n	n
06/09/04	*na*	*na*	*na*	*0.927*	*24.5*	*1.62*	*0.743*	*4.23*	*n*	*2.12*	*n*	*n*
09/13/04	812.17	7.86	0.688	2.0	26	2.4	n	9.8	n	0.98J	n	n
09/13/04	*na*	*na*	*na*	*2.5*	*32.1*	*3.03*	*1.85*	*13.0*	*n*	*1.22*	*n*	*n*
12/09/04	812.96	7.40	0.801	1.9	33	3.2	2.1	16.0	n	6.3	n	n
12/09/04	*na*	*na*	*na*	*2.27*	*37.1*	*4.12*	*2.83*	*18.5*	*n*	*9.73*	*n*	*n*
03/24/05	813.93	7.78	0.604	0.34	3.5	0.24	n	0.72	n	n	n	n
05/18/05	814.08	na	na	n	3.2	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*0.926J*	*25.00*	*1.53*	*1.25*	*4.09*	*n*	*8.27*	*n*	*n*
09/01/05	813.01	6.86	0.791	n	22.6	1.2	n	3.7	n	6.7	n	n
12/15/05	813.11	6.59	0.661	n	1.8	n	n	n	n	n	n	n
03/28/06	814.00	7.27	0.777	0.43	4.9	0.88	0.60	5.0	n	n	n	n
03/28/06	*na*	*na*	*na*	*0.472J*	*7.07*	*0.882J*	*0.783J*	*6.24*	*n*	*n*	*n*	*n*
06/21/06	813.99	6.80	0.751	0.41	5.6	0.55	0.33	2.6	n	n	n	0.26
09/12/06	812.96	7.15	0.530	0.60	6.1	0.39	0.32	1.6	n	n	n	0.16J
09/12/06	*na*	*na*	*na*	*0.719*	*6.13*	*0.424*	*1.04*	*1.91*	*n*	*0.397*	*n*	*n*
12/14/06	814.71	7.02	0.674	1.1	17	0.63J	n	4.2	n	n	n	n
12/14/06	*na*	*na*	*na*	*1.11*	*20.9*	*0.759*	*0.705*	*4.50*	*n*	*2.45*	*n*	*n*
03/28/07	816.98	7.41	0.680	0.70J	11	0.56J	n	3.4	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.958J*	*16.0*	*0.855J*	*0.729J*	*4.68*	*n*	*1.36*	*n*	*n*
06/20/07	812.94	7.13	0.635	0.59J	3.9	1.4	n	11	n	n	n	n
06/20/07	*na*	*na*	*na*	*0.588J*	*4.30*	*1.34*	*1.06*	*10.5*	*n*	*n*	*n*	*n*
09/10/07	812.98	7.25	1.35	n	3.6	n	n	1.5	n	n	n	n
12/12/07	815.21	9.08	0.640	1.1	30	1.1	n	6.1	n	9.4	n	n
03/20/08	820.10	6.18	0.737	0.71J	5.6	1.0	0.73J	6.9	n	0.72J	n	n
06/18/08	814.77	7.54	0.990	0.50J	5.9	0.52J	n	3.0	n	n	n	n
09/10/08	812.50	7.32	0.558	n	3.0	n	n	2.5	n	n	n	n
12/11/08	811.87	5.30	0.883	n	2.4	0.57J	n	4.5	n	n	n	n
03/24/09	813.49	8.26	0.645	n	6.8	0.58J	n	2.0J	n	n	n	n
06/18/09	813.13	8.62	0.652	n	8.4	n	n	0.76J	n	0.60J	n	n
09/09/09	813.32	7.37	0.648	n	n	n	n	n	n	n	n	n
12/15/09	813.32	7.34	0.671	n	1.2	n	n	n	n	n	n	n
03/24/10	815.43	7.42	1.77	n	1.9	n	n	0.81J	n	n	n	n
06/15/10	817.46	7.39	0.660	n	3.3	n	n	n	n	n	n	n
09/14/10	812.58	7.36	0.578	n	n	n	n	n	n	n	n	n
12/14/10	813.33	7.46	0.821	n	3.1	n	n	n	n	n	n	n
03/28/11	814.63	7.34	0.415	n	3.5	n	n	1.9	n	n	n	n
06/20/11	814.62	7.26	0.730	n	3.3	n	n	0.62J	n	n	n	n
09/08/11	812.62	6.91	0.718	n	7.3	n	n	3.7	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
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B,T = Analyte detected in laboratory method blank (B) or in trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 9
TOC ELEV: 825.41

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	814.41	6.5	0.74	1	nr	n	1	10	n	n	n	n
11/15/95	814.55	6.5	0.73	3	nr	n	5	18	n	n	n	n
02/15/96	813.79	6.5	0.73	n	nr	n	3	20	n	n	n	n
05/29/96	816.42	5.5	0.66	n	nr	n	n	7	n	n	n	n
09/17/96	813.11	6.5	0.75	5	nr	n	n	1	n	6	n	n
11/21/96	809.76	6.5	0.85	2	nr	n	n	n	n	4	1	n
02/06/97	nr	nr	nr	8	nr	n	8	11	n	2	n	n
06/03/97	818.55	6.83	0.484	n	nr	n	2	10	n	n	n	n
09/25/97	810.87	8.25	0.882	11	nr	n	9	16	n	18	n	n
12/17/97	809.81	7.13	0.884	n	14	n	n	n	n	n	n	n
03/04/98	811.89	nr	nr	n	nr	n	3	26	n	n	n	n
06/03/98	812.35	8.06	0.994	5	nr	n	1	12	n	n	n	n
09/02/98	811.49	7.99	1.027	2	nr	n	1	11	n	n	n	n
12/08/98	812.57	7.54	0.690	n	nr	n	n	n	n	n	n	n
03/15/99	814.75	7.04	0.668	n	nr	n	n	1	n	n	n	n
06/16/99	813.41	7.02	0.672	n	nr	n	1J	12	n	n	n	n
09/02/99	812.40	7.37	0.687	n	nr	n	n	n	n	n	n	n
12/16/99	811.91	7.54	0.690	n	3.2	n	1.6J	7.8	n	n	n	n
03/01/00	813.79	7.52	0.653	n	1.6	n	n	2.6	n	n	n	n
06/06/00	813.53	7.91	0.926	n	n	n	n	n	n	n	n	n
09/07/00	813.01	7.48	0.587	n	5.2	n	n	16	n	n	n	n
12/13/00	814.31	7.19	0.767	n	4.1	n	1.4	7.4	n	1.1R8	n	n
05/31/00	*812.61*	*nr*	*nr*	*n*	*n*	*9.5*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/23/01	814.42	7.20	0.677	n	n	n	n	9	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*6.6*	*n*	*n*	*n*	*n*
08/01/01	813.02	7.44	0.779	n	n	n	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
10/31/01	814.49	7.14	0.822	n	n	n	n	12.2	n	n	n	n
10/31/01	*na*	*na*	*na*	*1*	*9.7*	*n*	*n*	*3.8*	*n*	*0.6*	*n*	*n*
02/12/02	814.74	7.19	0.885	n	n	n	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*1.1*	*n*	*n*	*1.4*	*n*	*n*	*n*	*n*
05/21/02	814.81	7.17	0.767	n	n	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*n*	*n*	*n*	*0.33J*	*3.8*	*n*	*n*	*n*	*n*
09/04/02	812.60	7.36	0.492	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*2.37*	*n*	*n*	*0.71*	*n*	*0.78*	*n*	*n*
12/05/02	812.05	7.05	0.561	n	2.2	n	n	n	n	0.78	n	n
12/05/02	*na*	*na*	*na*	*n*	*4.31*	*n*	*n*	*1.01*	*n*	*1.95*	*n*	*n*
03/11/03	815.96	5.15	0.933	1.4	23	n	n	4.1	n	1.9	n	n
03/11/03	*na*	*na*	*na*	*1.73*	*31.9*	*n*	*n*	*5.6*	*n*	*2.42*	*n*	*n*
06/11/03	813.41	7.23	0.592	n	0.97	n	n	1.6	n	n	n	n
06/11/03	*na*	*na*	*na*	*0.204*	*1.55*	*n*	*n*	*3.43*	*n*	*n*	*n*	*n*
09/15/03	814.59	7.11	0.874	n	0.5	n	0.29	4.4	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*0.374*	*n*	*0.304*	*4.65*	*n*	*n*	*n*	*0.261T*
12/04/03	815.76	7.39	0.665	n	1.5	n	0.27	5.3	n	0.37	n	n
12/04/03	*na*	*na*	*na*	*n*	*2.13*	*n*	*n*	*5.07*	*n*	*n*	*n*	*n*
03/17/04	813.32	8.10	0.671	n	0.38	n	n	1	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.486*	*n*	*0.453*	*1.73*	*n*	*n*	*n*	*n*
06/09/04	813.42	7.20	0.691	n	1.6	n	n	2.9	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*2.02*	*n*	*n*	*3.76*	*n*	*n*	*n*	*n*
09/13/04	812.32	8.02	0.640	n	1.1	n	n	0.50J	n	0.65J	n	n
09/13/04	*na*	*na*	*na*	*n*	*1.2*	*n*	*n*	*0.628*	*n*	*0.862*	*n*	*n*
12/09/04	812.98	7.37	0.762	1.8	40	n	0.32	3.9	n	2.4	n	n
12/09/04	*na*	*na*	*na*	*2.18*	*45.5*	*n*	*0.369*	*4.05*	*n*	*3.84*	*n*	*n*
03/24/05	814.23	7.85	0.583	n	0.65	n	n	0.98	n	n	n	n
05/18/05	813.68	na	na	n	n	n	n	1.3	n	n	n	n
08/31/05	*na*	*na*	*na*	*0.435J*	*9.38*	*n*	*0.31J*	*4.1*	*n*	*2.01*	*n*	*n*
08/31/05	813.43	7.29	0.614	n	9.6	n	n	4	n	2.2	n	n
12/15/05	813.51	6.68	0.656	n	n	n	n	n	n	n	n	n
03/28/06	814.70	7.36	0.752	n	0.24J	n	n	0.45	n	n	n	0.18J
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.725J*	*n*	*n*	*n*	*n*
06/21/06	814.65	7.11	0.706	n	0.18J	n	n	0.43	n	n	n	0.17J
09/12/06	813.46	7.19	0.570	n	0.65	n	0.34	4.5	n	n	n	0.26
09/12/06	*na*	*na*	*na*	*n*	*0.615*	*n*	*1.05*	*5.62*	*n*	*n*	*n*	*n*
12/14/06	814.90	7.22	0.483	n	0.57J	n	n	2.1	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*0.361*	*n*	*n*	*2.74*	*n*	*n*	*n*	*n*
03/28/07	817.43	7.21	0.531	n	n	n	n	6.0	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*n*	*n*	*0.647J*	*5.92*	*n*	*n*	*n*	*n*
06/20/07	813.59	7.17	0.601	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.370J*	*n*	*n*	*n*	*n*
09/10/07	813.33	8.16	0.822	n	n	n	n	2.3	n	n	n	n
12/12/07	815.23	8.08	0.616	n	4.7	n	n	6.3	n	1.9J	n	n
03/20/08	820.32	6.35	0.532	n	n	n	n	5.9	n	n	n	n
06/18/08	815.32	7.59	1.05	n	n	n	n	3.6	n	n	n	n
09/10/08	812.79	7.38	0.646	n	n	n	n	0.73J	n	n	n	n
12/11/08	812.06	7.34	0.650	n	n	n	n	n	n	n	n	n
03/24/09	813.86	8.49	0.617	n	1.4	n	n	1.6J	n	n	n	n
06/18/09	813.76	8.60	0.571	n	n	n	n	2.8	n	n	n	n
09/09/09	813.81	6.97	0.604	n	n	n	n	2.5	n	n	n	n
12/15/09	813.43	6.79	0.594	n	n	n	n	1.8	n	n	n	n
03/24/10	815.49	7.32	0.559	n	0.57J	n	n	5.5	n	n	n	n
06/15/10	817.49	7.00	0.465	n	n	n	n	n	n	n	n	n
09/14/10	812.64	7.38	0.564	n	n	n	n	n	n	n	n	n
12/14/10	813.43	7.36	0.702	n	n	n	n	2.5	n	n	n	n
03/28/11	814.71	7.13	0.739	n	n	n	n	4.2	n	n	n	n
06/20/11	814.76	7.23	0.687	n	n	n	n	5.1	n	n	n	n
09/08/11	812.91	6.74	0.521	n	n	n	n	11	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 10

TOC ELEV: 826.97

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/19/05	815.85	na	na	n	52.2	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*66.7*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/31/05	814.34	7.12	0.671	n	59.2	n	n	n	n	n	n	n
12/14/05	815.35	7.22	0.596	n	62.0	n	n	n	n	n	n	n
03/28/06	815.83	7.37	0.567	n	52	n	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*73.4*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	815.75	6.95	0.700	n	56	n	n	n	n	n	n	n
09/13/06	814.97	7.24	0.540	n	65	n	n	n	n	n	n	n
09/13/06	*na*	*na*	*na*	*n*	*88.7*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/15/06	816.11	6.21	0.622	n	72	n	n	n	n	n	n	n
03/29/07	818.47	7.09	0.446	n	63	0.65J	n	n	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*69.1*	*0.461J*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/07	814.92	6.82	0.611	n	71	n	n	n	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*84.0*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/11/07	814.02	7.31	0.990	n	83	n	n	n	n	n	n	n
12/13/07	816.46	8.27	0.590	n	79	n	n	n	n	n	n	n
03/21/08	820.12	7.73	0.505	n	50	2.1	n	1.1	n	n	n	n
06/19/08	816.00	7.75	0.835	n	73	n	n	n	n	n	n	n
09/11/08	813.67	7.44	0.494	n	80	n	n	n	n	n	n	n
12/12/08	812.76	7.07	0.592	n	77	n	n	n	n	n	n	n
03/25/09	815.07	8.27	0.856	n	74	n	n	n	n	n	n	n
06/19/09	815.06	8.63	0.266	n	63	n	n	n	n	n	n	n
09/10/09	814.53	7.00	0.607	n	74	n	n	n	n	n	n	n
12/15/09	814.34	6.94	0.609	n	68	n	n	n	n	n	n	n
03/25/10	816.57	7.34	0.529	n	73	n	n	n	n	n	n	n
06/16/10	817.93	7.17	0.653	n	50	n	n	n	n	n	n	n
09/15/10	813.71	7.27	0.524	n	67	n	n	n	n	n	n	n
12/15/10	814.34	7.22	0.622	n	67	n	n	n	n	n	n	n
03/29/11	816.56	7.34	0.674	n	74	n	n	1.2	n	n	n	n
06/21/11	815.99	7.00	0.667	n	45	n	n	n	n	n	n	n
09/09/11	813.28	6.94	0.695	n	54	n	n	n	n	n	n	n

KMW-11

TOC ELEV: 827.82

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/19/05	815.74	na	na	n	5.5	3.9	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*2.84*	*22.6*	*n*	*1.58*	*n*	*n*	*n*	*n*
08/31/05	814.27	6.99	0.821	n	2.7	19	n	1.5	n	n	n	n
12/14/05	815.04	6.79	0.714	n	4.4	12.8	n	1.2	n	n	n	n
03/28/06	815.77	7.42	0.756	n	9.4	2.7	n	0.17J	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*13.1*	*3.74*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	815.66	6.92	0.555	n	15	3.7	n	0.21J	n	n	n	0.23J
09/13/06	814.84	7.17	0.487	n	21	6.0	n	0.23J	n	n	n	n
09/13/06	*na*	*na*	*na*	*n*	*22.5*	*6.03*	*n*	*n*	*n*	*n*	*n*	*n*
12/15/06	816.11	6.93	0.430	n	9.9	7.6	n	n	n	n	n	n
03/29/07	819.28	7.32	0.614	n	38	0.61J	n	n	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*45.9*	*0.815J*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/07	814.72	7.33	0.593	n	43	n	n	n	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*50.1*	*0.535J*	*n*	*n*	*n*	*n*	*n*	*n*
09/11/07	814.08	7.89	0.981	n	4.9	8.9	n	n	n	n	n	n
12/13/07	816.14	8.14	0.588	n	48	0.91J	n	n	n	n	n	n
03/21/08	819.40	5.70	0.601	n	47	n	n	n	n	n	n	n
06/19/08	816.01	7.78	0.946	n	14	5.9	n	0.61J	n	n	n	n
09/11/08	813.63	6.45	0.741	n	11	7.9	n	0.86J	n	n	n	n
12/12/08	812.79	5.57	0.940	n	15	5.5	n	0.72J	n	n	n	n
03/25/09	814.97	7.43	0.782	n	25	0.62J	n	n	n	n	n	n
06/19/09	814.92	7.30	0.653	n	31	0.99J	n	n	n	n	n	n
09/10/09	814.45	7.29	0.644	n	39	0.72J	n	n	n	n	n	n
12/16/09	814.28	7.11	0.793	n	25	1.1	n	n	n	n	n	n
03/25/10	816.42	7.42	0.562	n	26	n	n	n	n	n	n	n
06/16/10	817.29	7.14	0.634	n	26	n	n	n	n	n	n	n
09/15/10	813.69	7.18	0.589	n	30	1.2	n	n	n	n	n	n
12/15/10	814.31	7.19	0.798	n	27	2.1	n	n	n	n	n	n
03/29/11	816.42	7.04	0.652	n	39	n	n	n	n	n	n	n
06/21/11	815.87	7.12	0.686	n	19	0.59J	n	n	n	n	n	n
09/09/11	813.27	6.98	0.834	n	9.7	4.3	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 12

Date	TOC ELEV: 825.49 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
5/19/05	815.46	na	na	n	n	n	n	n	n	n	n	n
8/31/05	813.98	7.29	0.709	n	n	n	n	n	n	n	n	n
12/16/05	814.79	6.57	0.636	n	n	n	n	n	n	n	n	n
03/29/06	815.55	6.92	0.719	n	0.26	n	n	n	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*0.263J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	815.22	7.19	0.546	n	0.26	n	n	n	n	n	n	0.73
09/13/06	814.54	7.33	0.556	n	0.59	0.18J	n	n	n	n	n	n
09/13/06	*na*	*na*	*na*	*n*	*0.377*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/15/06	815.75	7.15	0.459	n	n	0.98J	n	n	n	n	n	n
12/15/06	*na*	*na*	*na*	*n*	*0.372*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/29/07	817.10	7.47	0.631	n	n	n	n	n	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*0.494J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/07	814.57	7.47	0.581	n	0.75J	n	n	n	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*0.846J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/11/07	813.98	7.86	0.871	n	0.72J	n	n	n	n	n	n	n
12/13/07	815.62	7.81	0.517	n	0.91J	n	n	n	n	n	n	n
03/21/08	818.37	6.01	0.655	n	1.3	n	n	n	n	n	n	n
06/19/08	815.77	7.82	0.892	n	1.3	n	n	n	n	n	n	n
09/11/08	813.45	7.41	0.535	n	1.5	n	n	n	n	n	n	n
12/12/08	812.71	5.77	0.809	n	1.4	n	n	n	n	n	n	n
03/25/09	814.58	8.24	0.815	n	1.3	n	n	n	n	n	n	n
06/19/09	814.79	8.72	0.287	n	1.5	n	n	n	n	n	n	n
09/10/09	814.34	7.11	0.644	n	n	n	n	n	n	n	n	n
12/16/09	814.14	6.77	0.628	n	1.3	n	n	n	n	n	n	n
03/25/10	816.06	7.46	0.573	n	1.7	n	n	n	n	n	n	n
06/16/10	816.89	7.29	0.619	n	1.5	n	n	n	n	n	n	n
09/15/10	813.59	7.33	0.580	n	1.8	n	n	n	n	n	n	n
12/15/10	814.13	7.41	0.654	n	1.6	n	n	n	n	n	n	n
03/29/11	816.10	7.38	0.337	n	2.6	n	n	n	n	n	n	n
06/21/11	815.67	7.02	0.692	n	n	n	n	n	n	n	n	n
09/09/11	813.09	7.01	0.699	n	2.2	n	n	n	n	n	n	n

KMW 13

Date	TOC ELEV: 825.25 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/19/05	815.52	na	na	n	n	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*n*	*2.96*	*0.814J*	*0.516J*	*n*	*n*	*n*	*n*
08/31/05	814.06	7.27	0.703	n	n	2.7	n	n	n	n	n	n
12/14/05	814.83	7.17	0.592	n	n	1.1	n	n	n	n	n	n
03/28/06	815.51	7.49	0.716	n	n	0.15J	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	815.36	7.02	0.692	n	n	n	n	n	n	n	n	n
09/13/06	814.57	7.23	0.467	n	0.19J	0.15J	n	n	n	n	n	0.17J
09/13/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/14/06	815.83	7.24	0.646	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.90	7.55	0.597	n	n	n	n	n	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/20/07	814.52	7.36	0.590	n	0.53J	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.94	7.39	0.617	n	n	n	n	n	n	n	n	n
12/12/07	815.46	7.93	0.530	n	n	n	n	n	n	n	n	n
03/20/08	818.90	6.81	0.631	n	n	n	n	n	n	n	n	n
06/18/08	815.94	7.98	0.991	n	n	n	n	n	n	n	n	n
09/10/08	813.40	7.55	0.674	n	n	1.7	n	0.51J	n	n	n	n
12/11/08	812.78	5.77	0.760	n	n	1.1	n	n	n	n	n	n
03/24/09	814.65	8.76	0.516	n	n	n	n	n	n	n	n	n
06/18/09	814.82	9.13	0.624	n	n	n	n	n	n	n	n	n
09/09/09	814.32	7.16	0.648	n	n	n	n	n	n	n	n	n
12/15/09	814.07	6.91	0.613	n	n	n	n	n	n	n	n	n
03/24/10	816.04	7.34	0.527	n	n	n	n	n	n	n	n	n
06/15/10	817.09	7.49	0.616	n	n	n	n	n	n	n	n	n
09/14/10	813.68	7.36	0.525	n	n	n	n	n	n	n	n	n
12/14/10	814.04	7.42	0.730	n	n	n	n	n	n	n	n	n
03/28/11	816.06	7.50	3.03	n	n	n	n	n	n	n	n	n
06/20/11	815.70	7.37	0.708	n	n	n	n	n	n	n	n	n
09/08/11	813.06	6.97	0.724	n	n	n	n	n	n	n	n	n

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GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 14

Date	TOC ELEV: 827.11 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
5/19/05	815.39	na	na	n	n	10.7	n	2.8	n	n	n	n
8/31/05	813.8	6.96	0.788	n	n	21.3	2.3	3.2	n	n	n	n
12/14/05	816.80	6.81	0.706	n	n	22.9	n	2.1	n	n	n	n
03/29/06	815.48	6.79	0.729	n	0.82	12	0.42	1.4	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*0.958J*	*17.6*	*0.593J*	*2.01*	*n*	*n*	*n*	*n*
06/21/06	815.30	7.04	0.544	n	0.42	1.9	0.16J	0.52	n	n	n	0.18J
09/13/06	814.49	7.00	0.554	n	0.82	14	0.51	1.2	n	n	n	0.18J
09/13/06	*na*	*na*	*na*	*0.161*	*0.779*	*14.8*	*1.19*	*1.18*	*n*	*n*	*n*	*n*
12/15/06	815.88	6.38	0.663	n	1.2	12	n	0.75J	n	n	n	n
12/15/06	*na*	*na*	*na*	*n*	*1.13*	*15.7*	*0.681*	*0.961*	*n*	*n*	*n*	*n*
03/29/07	817.59	7.06	0.454	n	3.1	1.3	n	0.70J	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*3.77*	*1.17*	*n*	*0.587J*	*n*	*n*	*n*	*n*
06/21/07	814.50	7.20	0.582	n	3.5	1.5	n	0.81J	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*3.98*	*1.72*	*n*	*0.558J*	*n*	*n*	*n*	*n*
09/11/07	813.95	7.74	0.990	n	2.6	14	2.2	1.8	n	n	n	n
12/13/07	815.51	6.63	0.495	n	2.6	2.3	n	1.1	n	n	n	n
03/21/08	818.49	5.86	0.598	n	5.7	0.92J	n	0.51J	n	n	n	n
06/19/08	815.83	7.58	0.927	n	0.59J	12	n	1.0	n	n	n	n
09/11/08	813.46	6.76	0.625	n	1.4	4.6	n	1.1	n	n	n	n
12/12/08	812.83	5.78	0.766	n	n	0.78J	n	n	n	n	n	n
03/25/09	814.80	7.44	0.798	n	4.8	5.8	n	2.1	n	n	n	n
06/19/09	814.81	7.33	0.674	n	4.5	5.6	n	0.77J	n	n	n	n
09/10/09	814.29	7.01	0.762	n	4.9	6.5	n	1.0	n	n	n	n
12/16/09	814.10	6.42	1.13	n	2.1	9.6	1.8	2.4	n	n	n	n
03/25/10	816.08	7.25	0.810	n	6.4	2.2	n	0.82J	n	n	n	n
06/15/10	816.48	7.28	0.595	n	1.1	n	n	n	n	n	n	n
09/14/10	813.60	7.34	0.557	n	6.6	1.9	n	0.77J	n	n	n	n
12/15/10	814.06	6.97	0.907	n	2.5	11	n	3.3	n	n	n	n
03/29/11	816.06	7.01	0.628	n	8.3	n	n	n	n	n	n	n
06/21/11	815.70	7.07	0.711	n	6.2	3.0	n	n	n	n	n	n
09/09/11	813.13	6.94	0.675	n	1.8	1.5	n	n	n	n	n	n

KMW 15

Date	TOC ELEV: 827.59 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
5/19/05	814.61	na	na	n	n	40.6	n	5.4	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*0.418J*	*61.5*	*n*	*11.7*	*n*	*n*	*n*	*n*
08/31/05	813.79	6.80	0.79	n	n	51.9	n	11.1	n	n	n	n
12/14/05	814.14	6.75	0.691	n	1.2	31.6	n	7.5	n	n	n	n
03/29/06	814.53	6.72	0.824	n	0.36J	32	n	3.5	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*0.399J*	*39.2*	*n*	*5.05*	*n*	*n*	*n*	*n*
06/22/06	814.38	7.02	0.564	n	0.30	15	n	1.7	n	n	n	n
09/13/06	813.87	7.12	0.534	n	0.32	32	n	3.1	n	n	n	n
09/13/06	*na*	*na*	*na*	*n*	*n*	*45.2*	*n*	*3.48*	*n*	*n*	*n*	*n*
12/15/06	815.16	6.80	0.526	n	1.7	28	n	3.1	n	n	n	n
12/15/06	*na*	*na*	*na*	*n*	*0.309*	*41.5*	*n*	*3.90*	*n*	*n*	*n*	*n*
03/29/07	817.67	7.17	0.757	n	0.64J	27	n	5.1	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*0.655J*	*26.2*	*n*	*4.83*	*n*	*n*	*n*	*n*
06/21/07	813.97	6.84	0.658	n	0.75J	10	n	1.1	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*0.516J*	*29.0*	*n*	*2.40*	*n*	*n*	*n*	*n*
09/11/07	813.69	7.31	0.861	n	n	28	n	3.7	n	n	n	n
12/13/07	816.41	7.24	0.680	n	n	34	n	8.2	n	n	n	n
03/21/08	821.26	7.73	0.428	n	n	24	n	4.3	n	n	n	n
06/19/08	815.28	7.06	0.931	n	n	24	n	2.7	n	n	n	n
09/11/08	813.04	7.19	0.537	n	n	30	n	3.5	n	n	n	n
12/12/08	812.73	6.91	0.758	n	0.58J	32	n	9.2	n	n	n	n
03/25/09	813.81	8.52	1.36	n	n	26	n	5.6	n	n	n	n
06/19/09	813.88	8.68	0.311	n	n	22	n	2.5	n	n	n	n
09/10/09	813.64	6.88	0.666	n	n	27	n	3.1	n	n	n	n
12/15/09	813.92	7.14	0.811	n	n	21	n	4.6	n	n	n	n
03/25/10	815.73	7.06	0.727	n	n	20	n	6.5	n	n	n	n
06/16/10	818.59	6.94	0.740	n	n	24	n	3.6	n	n	n	n
09/15/10	813.05	7.14	0.612	n	n	21	n	2.8	n	n	n	n
12/15/10	813.74	6.88	0.862	n	0.82J	21	n	7.5	n	n	n	n
03/29/11	814.92	7.29	0.394	n	n	7.5	n	1.6	n	n	n	n
06/21/11	815.09	6.84	0.717	n	n	18	n	3.4	n	n	n	n
09/09/11	812.84	6.84	0.708	n	n	20	n	4.5	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
na= not available
n = Not detected at method detection li
nr = Not reported or not tested
na= Not available

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

KMW 16

Date	TOC ELEV: 825.10 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/19/05	815.02	na	na	n	n	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.944J*	*n*	*n*	*n*	*n*
09/01/05	813.90	6.79	0.759	n	n	n	n	3.4	n	n	n	n
03/28/06	814.95	7.37	0.568	n	n	n	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	814.87	7.12	0.534	n	n	n	n	n	n	n	n	0.19J
09/12/06	814.69	7.37	0.552	1.8	6.9	0.60	4.5	30	n	n	n	0.24J
09/12/06	*na*	*na*	*na*	*2.52*	*7.67*	*0.694*	*6.30*	*40.9*	*n*	*n*	*n*	*n*
12/14/06	815.53	7.34	0.471	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.545*	*n*	*n*	*n*	*n*
03/28/07	817.80	7.14	0.984	0.54J	1.8	n	n	3.4	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.311J*	*1.64*	*n*	*0.315J*	*3.72*	*n*	*n*	*n*	*n*
06/20/07	814.24	7.12	0.638	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.60	7.37	0.648	n	n	n	n	n	n	n	n	n
12/12/07	815.55	7.93	0.749	1.2	3.4	n	1.6	6.0	n	n	n	n
03/20/08	820.11	7.97	0.549	0.91J	2.4	n	1.6	7.6	n	n	n	n
06/18/08	815.44	7.72	0.871	n	n	n	n	n	n	n	n	n
09/10/08	813.16	7.41	0.517	n	0.73J	n	n	0.89J	n	n	n	n
12//11/08	812.66	5.65	0.780	n	n	n	n	n	n	n	n	n
03/24/09	814.51	8.69	0.525	n	n	n	n	n	n	n	n	n
06/18/09	814.04	7.42	0.646	n	n	n	n	n	n	n	n	n
09/09/09	814.07	7.41	0.633	n	n	n	n	n	n	n	n	n
12/16/09	813.70	6.77	0.618	n	0.74J	n	n	n	n	n	n	n
03/24/10	815.97	7.35	0.550	n	0.76J	n	n	0.75J	n	n	n	n
06/15/10	817.45	7.46	0.704	0.74J	2.6	n	n	n	n	n	n	n
09/14/10	813.18	7.51	0.531	n	n	n	n	n	n	n	n	n
12/14/10	813.85	7.30	0.623	n	n	n	n	n	n	n	n	n
03/28/11	815.65	7.44	0.968	n	2.3	n	n	3.0	n	n	n	n
06/20/11	815.25	7.08	0.675	n	n	n	n	n	n	n	n	n
09/08/11	813.07	7.33	0.695	n	2.6	n	n	2.1	n	n	n	n

KMW 17

Date	TOC ELEV: 825.11 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/19/05	815.73	na	na	n	n	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*0.271J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/31/05	814.11	7.50	0.622	n	n	n	n	n	n	n	n	n
12/14/05	814.93	7.23	0.586	n	n	n	n	n	n	n	n	n
03/28/06	815.68	7.41	0.564	n	n	0.20J	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	815.58	7.18	0.528	n	0.21J	n	n	n	n	n	n	0.68
09/12/06	814.63	7.41	0.489	n	0.30	n	n	n	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/14/06	815.74	7.23	0.641	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.79	7.38	0.444	n	n	n	n	n	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*0.280J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/20/07	814.71	7.21	0.624	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*0.324J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.93	7.41	1.19	n	n	n	n	n	n	n	n	n
12/12/07	815.49	8.30	0.631	n	n	n	n	n	n	n	n	n
03/20/08	819.75	8.09	0.453	n	n	n	n	n	n	n	n	n
06/18/08	815.96	7.90	0.920	n	n	n	n	n	n	n	n	n
09/10/08	813.21	7.52	0.648	n	1.5	n	n	n	n	n	n	n
12/11/08	812.68	7.43	0.594	n	0.53J	n	n	n	n	n	n	n
03/24/09	814.80	8.79	0.515	n	n	n	n	n	n	n	n	n
06/18/09	814.61	8.80	0.620	n	n	n	n	n	n	n	n	n
09/09/09	814.20	7.47	0.614	n	n	n	n	n	n	n	n	n
12/16/09	813.90	7.27	0.665	n	n	n	n	n	n	n	n	n
03/24/10	815.95	7.38	0.531	n	n	n	n	n	n	n	n	n
06/15/10	817.30	7.54	0.618	n	n	n	n	n	n	n	n	n
09/14/10	813.58	7.58	0.524	n	n	n	n	n	n	n	n	n
12/14/10	813.96	7.57	0.713	n	n	n	n	n	n	n	n	n
03/28/11	815.84	7.52	3.08	n	n	n	n	n	n	n	n	n
06/20/11	815.76	7.38	0.709	n	n	n	n	n	n	n	n	n
09/08/11	813.04	7.03	0.707	n	n	n	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

EEIB 4
TOC ELEV: 828.62

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	813.82	nr	nr	n	n	n	n	n	n	n	n	n
08/22/95	816.27	6.0	0.94	n	nr	45	n	3	n	n	n	n
11/15/95	815.18	n	n	n	nr	n	n	nr	n	n	n	n
02/15/96	815.54	6.5	0.74	n	nr	18	n	n	n	n	n	n
05/28/96	821.02	5.5	0.70	n	nr	7	n	n	n	n	n	n
09/17/96	813.47	6.5	0.70	n	nr	100	n	5	n	n	n	n
11/21/96	810.68	5.5	0.75	n	nr	14	n	3	n	n	n	n
12/17/97	810.74	7.03	0.912	n	20	20	n	n	n	n	n	n
12/08/98	813.72	7.55	0.776	n	nr	48	n	2	n	n	n	n
12/13/00	814.46	7.12	0.696	n	35	74	n	3.4	n	n	n	n
05/30/00	*815.15*	*nr*	*nr*	*n*	*32*	*23*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*68.4*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	814.96	7.27	1.03	n	n	89	n	n	n	n	n	n
08/01/01	814.38	7.13	0.99	n	n	139	n	6	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*117*	*n*	*n*	*n*	*n*	*n*	*n*
10/31/01	815.81	6.95	1.24	n	n	171	n	7.73	n	n	n	n
02/12/02	815.50	7.01	0.987	n	18.5	71	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*18.4*	*56.6*	*n*	*3.1*	*n*	*n*	*n*	*n*
05/21/02	816.24	7.02	1	n	n	80	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*n*	*0.66J*	*93*	*n*	*4.4*	*n*	*n*	*n*	*n*
09/04/02	813.69	6.85	0.968	n	29	38	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*50.8*	*77.3*	*n*	*2.54*	*n*	*n*	*n*	*n*
12/05/02	813.44	6.89	0.92	n	n	39	n	2.2	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*0.8*	*111*	*n*	*5.89*	*n*	*n*	*n*	*n*
03/11/03	815.83	5.15	0.99	n	9.6	51	n	1.9	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*7.29*	*78.3*	*n*	*2.48*	*n*	*n*	*n*	*n*
06/11/03	814.81	7.07	0.992	n	n	85	n	2.8	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*n*	*106*	*n*	*3.82*	*n*	*n*	*n*	*n*
06/12/03	na	na	na	n	n	81	n	2.8	n	n	n	n
06/12/03	*814.79*	*7.35*	*1.17*	*n*	*n*	*102*	*n*	*3.7*	*n*	*n*	*n*	*n*
09/15/03	816.12	6.96	0.965	n	n	60	n	2.7	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*n*	*91.8*	*n*	*3.08*	*n*	*n*	*n*	*0.293T*
12/04/03	816.50	7.01	0.840	n	7.5	50	n	2.4	n	n	n	n
12/04/03	*na*	*na*	*na*	*n*	*9.52*	*61.3*	*n*	*2.62*	*n*	*n*	*n*	*n*
03/17/04	814.52	7.19	0.593	n	0.46	64	n	3	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.446*	*79.3*	*n*	*3.45*	*n*	*n*	*n*	*n*
06/09/04	814.76	7.69	0.99	n	n	60	n	3.5	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*n*	*82.4*	*n*	*3.58*	*n*	*n*	*n*	*n*
09/13/04	813.70	7.60	0.747	n	0.84J	72	n	3.4	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*0.983*	*99.5*	*n*	*4.84*	*n*	*n*	*n*	*n*
12/09/04	813.96	7.60	0.918	n	3.2	67	n	3.1	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*3.50*	*83.6*	*n*	*3.48*	*n*	*n*	*n*	*n*
03/24/05	815.25	7.70	0.713	n	5.8	44	n	1.9	n	n	n	n
5/20/05	815.51	na	na	n	n	40.3	n	2.2	n	n	n	n
09/01/05	*na*	*na*	*na*	*n*	*12.7*	*70.9*	*n*	*2.82*	*n*	*n*	*n*	*n*
09/01/05	817.22	6.82	0.863	n	10.8	52.1	n	2.4	n	n	n	n
12/16/05	815.01	6.16	0.78	n	n	47.9	n	2.4	n	n	n	n
03/29/06	815.66	6.86	0.634	n	2.5	37	n	1.2	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*3.64*	*53.3*	*n*	*1.72*	*n*	*n*	*n*	*n*
06/21/06	815.45	7.28	0.412	n	2.9	28	n	0.64	n	n	n	n
09/12/06	814.43	7.38	0.492	n	7.0	27	n	0.69	n	n	n	0.26
09/12/06	*na*	*na*	*na*	*n*	*6.47*	*33.8*	*n*	*0.655*	*n*	*n*	*n*	*n*
12/14/06	816.30	7.40	0.378	n	3.2	16	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*3.81*	*23.7*	*n*	*0.403*	*n*	*n*	*n*	*n*
03/28/07	818.34	7.47	0.464	n	1.0	14	n	n	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*1.05*	*14.6*	*n*	*0.460J*	*n*	*n*	*n*	*n*
06/20/07	814.56	7.42	0.490	n	5.9	14	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*7.28*	*19.0*	*n*	*0.416J*	*n*	*n*	*n*	*n*
09/10/07	814.13	7.04	0.980	n	3.7	27	n	0.86J	n	n	n	n
12/12/07	816.70	8.27	0.762	n	11	14	n	0.54J	n	n	n	n
03/20/08	818.52	7.96	0.549	n	5.8	15	n	0.77J	n	n	n	n
06/18/08	816.17	7.69	0.910	n	n	19	n	1.1	n	n	n	n
09/10/08	813.56	6.97	0.618	n	2.4	51	n	1.7	n	n	n	n
12/11/08	813.02	7.13	0.863	n	16	42	n	1.4	n	n	n	n
03/24/09	815.11	8.76	0.619	n	3.8	20	n	0.85J	n	n	n	n
06/18/09	815.07	7.28	0.773	n	1.5	20	n	0.93J	n	n	n	n
09/09/09	814.47	6.77	0.840	n	n	21	n	0.89J	n	n	n	n
12/15/09	814.25	6.57	1.15	n	3.2	20	n	0.79J	n	n	n	n
03/24/10	816.43	7.31	0.812	n	0.58J	14	n	0.71J	n	n	n	n
06/15/10	816.22	7.16	1.05	n	4.1	15	n	n	n	n	n	n
09/14/10	813.72	7.08	0.671	n	3.1	36	n	n	n	n	n	n
12/14/10	814.12	7.01	0.868	n	4.6	18	n	n	n	n	n	n
03/28/11	816.40	7.27	1.48	n	2.4	14	n	n	n	n	n	n
06/20/11	815.87	7.27	0.778	n	0.97J	12	n	1.1	n	n	n	n
09/08/11	813.23	6.80	0.791	n	2.3	50	n	1.6	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

EEIB 12
TOC ELEV: 826.48

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	813.46	nr	nr	0.9	n	n	n	n	n	n	n	29
08/21/95	815.30	6.5	0.73	n	nr	n	n	n	n	n	n	n
11/15/95	814.89	6.5	0.77	1	nr	n	n	n	n	n	n	1,800
02/15/96	814.20	6.5	0.75	n	nr	n	n	n	n	n	n	130
05/29/96	816.84	5.5	0.68	n	nr	n	n	n	n	n	n	n
09/17/96	813.02	7.0	0.70	n	nr	n	n	n	n	n	n	n
11/22/96	810.54	6.0	0.92	n	nr	n	n	n	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	7	n	n	n	n
06/03/97	820.37	6.8	0.536	n	nr	n	n	11	n	n	n	n
09/25/97	811.44	7.92	1.199	1	nr	n	n	5	n	1	n	n
12/17/97	810.54	7.29	0.872	n	16	n	n	n	n	n	n	n
03/04/98	812.4	nr	nr	n	nr	n	n	n	n	n	n	n
06/03/98	812.8	8.05	1.175	n	nr	n	n	2	n	n	n	n
09/02/98	812.05	7.99	1.1	n	nr	n	n	n	n	n	n	n
12/08/98	812.76	7.4	0.796	n	nr	n	n	n	n	n	n	n
03/15/99	814.08	6.68	0.697	n	nr	n	n	n	n	n	n	n
06/16/99	812.92	6.84	0.584	n	nr	n	n	n	n	n	n	n
09/02/99	811.68	7.31	0.681	n	nr	n	n	n	n	n	n	n
12/16/99	812.96	7.4	0.696	n	1.5	n	n	n	n	n	n	n
03/01/00	813.48	7.35	0.693	n	2.4	n	n	1.3	n	n	n	n
06/06/00	813.44	7.77	0.948	n	n	n	n	n	n	n	n	n
09/07/00	812.94	7.25	0.623	n	n	n	n	n	n	n	n	n
12/13/00	814.7	7.08	0.967	1.1	5.3	n	n	2.6	n	n	n	n
05/30/00	*813.98*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/23/01	814.6	6.9	0.85	n	n	n	n	n	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	813.62	6.84	1	n	n	n	n	n	n	n	n	n
10/31/01	812.84	6.86	0.919	n	8.36	n	n	n	n	n	n	n
02/12/02	814.61	6.99	0.93	n	n	n	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*2.6*	*n*	*n*	*1.1*	*n*	*n*	*n*	*n*
05/21/02	814.38	7.12	0.824	n	n	n	n	n	n	n	n	n
09/04/02	812.59	7.41	0.529	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*1.06*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	812.43	6.96	1	n	1.5	n	n	n	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*2.26*	*n*	*n*	*n*	*n*	*0.66*	*n*	*n*
03/11/03	816.1	5.12	1.02	0.53	5.2	n	n	1.3	n	0.93	n	n
03/11/03	*na*	*na*	*na*	*0.627*	*4.92*	*n*	*n*	*1.53*	*n*	*n*	*n*	*n*
06/11/03	813.48	6.8	1.51	n	3.9	n	n	0.8	n	0.61	n	n
06/11/03	*na*	*na*	*na*	*0.945*	*4.43*	*n*	*n*	*0.892*	*n*	*0.773*	*n*	*n*
09/15/03	814.04	6.59	0.907	0.48	2.9	n	n	1.7	n	0.27	n	n
09/15/03	*na*	*na*	*na*	*0.491*	*2.65*	*n*	*n*	*1.67*	*n*	*0.511*	*n*	*n*
12/04/03	815.02	7.12	0.787	0.49	3.5	n	n	2.4	n	0.29	n	n
12/04/03	*na*	*na*	*na*	*0.611*	*4.49*	*n*	*n*	*2.58*	*n*	*n*	*n*	*n*
03/17/04	813.30	7.78	0.809	0.67	4.7	n	n	n	n	0.85	n	n
03/17/04	*na*	*na*	*na*	*0.791*	*5.03*	*n*	*n*	*0.491*	*n*	*1.03*	*n*	*n*
06/09/04	813.13	7.06	0.868	0.38	1.7	n	n	n	n	0.27	n	n
06/09/04	*na*	*na*	*na*	*0.561*	*2.28*	*n*	*n*	*n*	*n*	*0.512*	*n*	*n*
09/13/04	812.53	7.77	0.784	n	1.9	n	n	0.38J	n	0.33J	n	n
09/13/04	*na*	*na*	*na*	*0.357*	*2.32*	*n*	*n*	*0.515*	*n*	*0.508*	*n*	*n*
12/09/04	813.49	7.05	1.01	0.64	3.6	n	n	1.6	n	0.73	n	n
12/09/04	*na*	*na*	*na*	*0.719*	*3.46*	*n*	*n*	*1.59*	*n*	*1.05*	*n*	*n*
03/24/05	813.83	7.70	0.663	n	1.3	n	n	0.65	n	n	n	n
05/18/05	813.8	na	na	n	1.4	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*0.197J*	*1.21*	*0.257J*	*n*	*5.45*	*n*	*n*	*n*	*n*
08/31/05	813.36	7	0.749	n	1.2	n	n	5.3	n	n	n	n
12/14/05	813.17	6.73	0.721	n	4.6	n	n	n	n	n	n	n
03/28/06	813.70	7.34	0.790	0.16J	1.4	n	n	0.33	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*2.16*	*n*	*n*	*0.393J*	*n*	*n*	*n*	*n*
06/21/06	813.72	6.97	0.555	n	1.1	n	n	0.83	n	n	n	0.32
09/12/06	813.43	6.84	0.462	n	0.51	0.27	0.15J	5.9	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*0.474*	*n*	*0.806*	*6.99*	*n*	*n*	*n*	*n*
12/14/06	814.59	7.21	0.527	n	1.1	n	n	0.84J	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*1.32*	*n*	*n*	*1.24*	*n*	*n*	*n*	*n*
03/28/07	815.63	7.31	0.691	n	1.6	n	n	3.6	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.201J*	*1.80*	*n*	*n*	*3.65*	*n*	*n*	*n*	*n*
06/20/07	813.24	7.11	0.656	n	0.68J	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*0.734J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.09	8.11	0.868	n	0.63J	n	n	2.5	n	n	n	n
12/12/07	816.30	7.57	0.742	n	0.67J	n	n	2.3	n	n	n	n
03/20/08	821.15	7.61	0.689	n	1.8	n	n	2.5	n	n	n	n
06/18/08	814.52	7.61	0.931	n	0.58J	n	n	0.75J	n	n	n	n
09/10/08	812.79	7.38	0.851	n	n	n	n	1.3	n	n	n	n
12/11/08	812.25	5.64	0.999	n	n	n	n	n	n	n	n	n
03/24/09	813.41	8.49	0.562	n	0.91J	n	n	n	n	n	n	n
06/18/09	813.52	8.60	0.758	n	n	n	n	n	n	n	n	n
09/09/09	813.40	7.37	0.632	n	n	n	n	n	n	n	n	n
12/15/09	813.53	6.78	0.742	n	n	n	n	n	n	n	n	n
03/24/10	815.43	7.27	1.53	n	n	n	n	1.3	n	n	n	n
06/15/10	818.92	7.22	0.929	n	n	n	n	1.7	n	n	n	n
09/14/10	812.83	7.38	0.527	n	n	n	n	n	n	n	n	n
12/14/10	813.54	7.42	0.821	n	n	n	n	n	n	n	n	n
03/28/11	814.38	7.17	0.791	n	n	n	n	n	n	n	n	n
06/20/11	814.43	7.32	0.720	n	n	n	n	n	n	n	n	n
09/08/11	812.69	6.89	0.674	n	n	n	n	1.6	n	n	n	n

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italics - sampled by OEPA
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B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

GZA 1
TOC ELEV: 828.33

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
10/14/93	nr	nr	nr	n	nr	3.1	0.41J	1.4	n	n	n	n
07/20/94	813.90	nr	nr	n	nr	28	0.6	5	n	n	n	n
08/22/95	816.03	7.0	1.02	n	nr	21	n	2	n	n	n	n
11/05/95	814.83	6.5	0.86	n	nr	20	1	2	n	n	n	n
02/15/96	815.33	6.5	0.79	n	nr	7	n	n	n	n	n	n
05/28/96	816.49	5.5	0.85	n	nr	43	n	2	n	n	n	n
09/14/96	813.48	6.5	0.90	n	nr	92	2	3	n	n	n	n
11/21/96	811.42	5.0	1.08	n	nr	41	1	2	n	n	n	n
12/17/97	811.59	7.0	1.083	n	n	36	n	n	n	n	n	n
12/08/98	813.58	7.2	1.105	n	nr	49	5	1	n	n	n	n
12/16/99	813.49	7.2	1.105	n	n	23	6.9	1.1	n	n	n	n
12/13/00	814.21	7.1	1.081	n	n	40	1.9	2.2	n	n	n	n
05/30/00	*814.98*	*nr*	*nr*	*n*	*n*	*14*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*34.3*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	815.03	7.05	1.28	n	n	53	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*39.5*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	814.28	7.2	1.35	n	n	61	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*56.3*	*n*	*n*	*n*	*n*	*n*	*n*
10/31/01	815.64	6.7	1.63	n	n	150	n	7.23	n	n	n	n
10/31/01	*na*	*na*	*na*	*n*	*1*	*40.1*	*2.6*	*3.2*	*n*	*n*	*n*	*0.6*
02/12/02	815.28	6.91	1.01	n	n	54.9	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*n*	*41.3*	*n*	*2.1*	*n*	*n*	*n*	*n*
05/21/02	816.08	7.13	0.94	n	n	61	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*n*	*0.32J*	*71*	*n*	*3.3*	*n*	*n*	*n*	*n*
09/04/02	813.53	7.10	0.687	n	n	64	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*n*	*87.5*	*1.09*	*3.32*	*n*	*n*	*n*	*n*
12/05/02	813.33	6.70	0.85	n	n	24	1.5	1.2	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*n*	*73.1*	*3.16*	*2.69*	*n*	*n*	*n*	*n*
03/11/03	815.68	6.78	1.44	n	n	42	2.8	2.4	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*n*	*62.1*	*3.15*	*3.11*	*n*	*n*	*n*	*n*
06/11/03	814.62	6.41	1.03	n	n	55	n	1.7	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*n*	*70.7*	*n*	*2.48*	*n*	*n*	*n*	*n*
06/12/03	na	na	na	n	n	55	n	1.8	n	n	n	n
06/12/03	*814.62*	*6.96*	*0.95*	*n*	*n*	*68.9*	*n*	*2.39*	*n*	*n*	*n*	*n*
09/15/03	815.93	6.70	0.892	n	n	56	n	2	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*n*	*75.7*	*n*	*1.81*	*n*	*n*	*n*	*0.357T*
12/04/03	816.35	7.31	0.890	n	n	46	0.70	2.0	n	n	n	n
12/04/03	*na*	*na*	*na*	*n*	*0.39*	*61.0*	*0.976*	*2.20*	*n*	*n*	*n*	*n*
03/17/04	814.30	7.91	0.716	n	0.67	49.0	n	1.7	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.751*	*52.4*	*n*	*2.19*	*n*	*n*	*n*	*n*
06/09/04	814.68	7.10	0.770	n	n	43.0	n	1.7	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*0.544*	*55.2*	*n*	*1.96*	*n*	*n*	*n*	*n*
09/13/04	813.60	6.99	0.874	n	n	40	n	1.8	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*n*	*54.6*	*0.323*	*2.48*	*n*	*n*	*n*	*n*
12/09/04	813.89	7.18	1.50	n	n	39	2.2	1.8	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*n*	*50.5*	*2.66*	*1.76*	*n*	*n*	*n*	*n*
03/24/05	815.04	6.74	0.756	n	0.53	30.0	0.21	1.1	n	n	n	n
05/20/05	815.37	na	na	n	n	28.8	n	1.40	n	n	n	n
09/01/05	*na*	*na*	*na*	*n*	*n*	*50.6*	*1.65*	*1.96*	*n*	*n*	*n*	*n*
09/01/05	813.81	6.61	0.97	n	n	40.8	1.2	1.80	n	n	n	n
12/14/05	814.84	6.97	0.711	n	n	18.4	n	n	n	n	n	n
03/29/06	815.47	6.94	0.630	n	n	27	n	0.90	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*0.327J*	*37.3*	*n*	*1.23*	*n*	*n*	*n*	*n*
06/21/06	815.28	7.03	0.631	n	n	28	n	0.79	n	n	n	n
09/12/06	814.28	7.24	0.459	n	0.32	25	0.24J	0.63	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*n*	*28.4*	*0.839*	*0.791*	*n*	*n*	*n*	*n*
12/14/06	815.95	7.12	0.678	n	n	16	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*21.1*	*n*	*0.527*	*n*	*n*	*n*	*n*
03/28/07	817.88	7.15	0.464	n	n	14	n	n	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*0.368J*	*14.4*	*n*	*0.481J*	*n*	*n*	*n*	*n*
06/20/07	814.51	7.02	0.598	n	0.56J	12	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*0.577J*	*12.0*	*n*	*0.351J*	*n*	*n*	*n*	*n*
09/10/07	814.06	8.16	0.882	n	0.71J	18	n	0.76J	n	n	n	n
12/12/07	816.11	7.41	0.817	n	0.64J	27	4.4	5.5	n	n	n	n
03/20/08	818.29	6.65	0.704	n	0.52J	13	n	0.60J	n	n	n	n
06/18/08	816.01	7.76	0.772	n	1.1	12	n	0.70J	n	n	n	n
09/10/08	813.53	7.40	0.711	n	n	16	n	0.92J	n	n	n	n
12/11/08	813.13	5.57	2.17	n	n	19	n	1.6	n	n	n	n
03/24/09	815.08	8.30	0.748	n	n	17	n	1.4	n	n	n	n
06/18/09	814.82	8.90	0.669	n	0.54J	12	n	0.67J	n	n	n	n
09/09/09	814.45	7.17	0.694	n	n	13	n	0.63J	n	n	n	n
12/15/09	814.16	7.15	0.999	n	n	15	n	1.1	n	n	n	n
03/24/10	816.17	7.03	1.48	n	n	16	n	2.0	n	n	n	n
06/15/10	816.00	7.07	0.784	n	n	12	n	n	n	n	n	n
09/14/10	813.63	7.14	0.664	n	n	13	n	n	n	n	n	n
12/14/10	814.10	7.21	1.11	n	n	14	n	1.0	n	n	n	n
03/28/11	816.16	7.09	1.15	n	n	13	n	n	n	n	n	n
06/20/11	815.71	6.93	0.690	n	n	6.6	n	0.52J	n	n	n	n
09/08/11	813.25	7.06	0.906	n	n	14	n	n	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

PW 1
TOC ELEV: 822.23

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	nr	7.0	0.76	n	nr	n	n	n	n	n	n	8
11/15/95	809.53	6.5	0.77	n	nr	n	n	n	n	n	n	5
02/16/96	nr	6.0	0.71	n	nr	n	n	n	n	n	n	n
05/30/96	nr	6.5	0.69	n	nr	n	n	n	n	n	n	160
09/17/96	nr	6.5	0.48	n	nr	n	2	11	n	n	n	n
11/22/96	810.03	6.0	0.70	n	nr	n	n	5	n	n	n	n
02/06/97	nr	nr	nr	2	nr	n	n	4	n	n	n	n
06/03/97	817.74	7	0.567	n	nr	n	1	12	n	n	n	n
09/25/97	810.89	8.03	1.093	n	nr	n	n	8	n	n	n	n
12/17/97	809.76	7.53	0.936	n	n	n	n	n	n	n	n	n
03/04/98	811.86	nr	nr	n	nr	n	n	5	n	n	n	n
06/03/98	811.37	7.95	1.095	n	n	n	n	3	n	n	n	n
09/02/98	811.69	8.1	1.12	n	n	n	n	130	n	n	n	n
12/08/98	813.07	7.43	0.715	n	nr	n	n	n	n	n	n	n
03/15/99	810.62	7.4	0.661	n	nr	n	n	n	n	n	n	n
06/16/99	810.48	6.93	0.723	n	nr	n	n	n	n	n	n	n
09/02/99	812.79	7.79	0.698	n	nr	n	n	n	n	n	n	n
12/16/99	812.98	7.43	0.715	n	n	n	n	n	n	n	n	n
03/01/00	814.07	7.46	0.689	n	n	n	n	n	n	n	n	n
06/06/00	813.69	7.69	0.974	n	n	n	n	n	n	n	n	n
09/07/00	813.67	7.39	0.703	n	n	n	n	n	n	n	n	n
12/13/00	814.22	7.18	0.804	n	n	n	n	n	n	n	n	n
04/24/01	814.33	7.28	0.685	n	n	n	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	813.43	7.25	0.72	n	n	n	n	n	n	n	n	n
10/31/01	814.78	7.11	0.792	n	n	n	n	n	n	n	n	n
02/12/02	815.12	7.24	0.872	n	n	n	n	n	n	n	n	n
05/21/02	814.91	7.29	0.779	n	n	n	n	n	n	n	n	n
09/05/02	813.13	7.42	0.547	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	813.07	7.09	0.548	n	n	n	n	n	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/11/03	816.12	7.03	1.37	n	n	n	n	1.1	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*1.35*	*n*	*n*	*n*	*n*
06/11/03	813.67	4.1	0.765	n	n	n	n	0.49	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*0.288*	*n*	*n*	*0.682*	*n*	*n*	*n*	*n*
09/15/03	815.11	7.22	0.877	n	n	n	n	0.52	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.486*	*n*	*n*	*n*	*0.386T*
12/04/03	816.21	7.35	0.665	n	n	n	n	0.38	n	n	n	n
12/04/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.427*	*n*	*n*	*n*	*n*
03/17/04	813.55	8.18	0.666	n	n	n	n	n	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.385*	*n*	*n*	*n*	*n*
06/09/04	813.55	8.00	0.636	n	0.38	n	n	n	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*0.464*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/13/04	812.61	7.26	0.728	n	0.34J	n	n	n	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*0.369*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/09/04	812.94	8.04	0.604	n	0.37	n	n	0.26	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*0.326*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/24/05	814.32	6.91	0.702	n	0.27	n	n	0.52	n	n	n	n
05/20/05	815.11	na	na	n	n	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*1.57*	*n*	*n*	*n*	*n*
09/01/05	813.96	7.2	0.625	n	n	n	n	1.3	n	n	n	n
12/14/05	814.35	6.89	0.624	n	n	n	n	n	n	n	n	n
03/28/06	815.13	7.51	0.712	n	0.21J	n	n	0.18J	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	815.04	7.24	0.686	n	0.18J	n	n	n	n	n	n	0.17J
09/12/06	813.99	6.87	0.292	n	n	0.28	0.22J	5.6	n	n	n	0.23J
09/12/06	*na*	*na*	*na*	*n*	*n*	*0.293*	*0.812*	*6.62*	*n*	*n*	*n*	*n*
12/14/06	815.53	7.42	0.466	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.56	7.52	0.601	n	n	n	n	0.60J	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*0.769J*	*n*	*n*	*n*	*n*
06/20/07	814.19	7.19	0.626	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.25	7.27	0.652	n	n	n	n	1.1	n	n	n	n
12/12/07	815.71	7.74	1.31	n	n	n	n	0.98J	n	n	n	n
03/20/08	820.33	6.47	1.64	n	n	n	n	1.6	n	n	n	n
06/18/08	815.12	7.86	0.861	n	n	n	n	n	n	n	n	n
09/10/08	813.03	7.34	0.629	n	n	n	n	n	n	n	n	n
12/11/08	812.43	7.27	1.00	n	n	n	n	n	n	n	n	n
03/24/09	813.41	8.57	0.595	n	n	n	n	n	n	n	n	n
06/18/09	813.90	8.84	0.598	n	n	n	n	n	n	n	n	n
09/09/09	813.68	7.28	0.493	n	n	n	n	0.56J	n	n	n	n
12/15/09	813.57	7.40	0.498	n	n	n	n	n	n	n	n	n
03/24/10	815.61	7.34	1.73	n	n	n	n	0.80J	n	n	n	n
06/15/10	818.17	7.02	0.593	n	n	n	n	1.6	n	n	n	n
09/14/10	813.16	7.34	0.492	n	n	n	n	n	n	n	n	n
12/14/10	813.72	7.46	0.767	n	n	n	n	n	n	n	n	n
03/28/11	814.92	7.19	0.680	n	n	n	n	1.3	n	n	n	n
06/20/11	814.88	7.34	0.711	n	n	n	n	0.54J	n	n	n	n
09/08/11	812.88	7.16	0.415	n	n	n	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

PW 2

Date	TOC ELEV: 822.21 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/21/95	nr	6.5	0.75	n	nr	n	n	1	n	n	n	n
8/93/95	nr	6.5	0.75	n	nr	n	n	n	n	n	n	n
11/15/95	808.71	6.5	0.74	n	nr	n	n	n	n	n	n	n
02/16/96	nr	6.0	0.71	n	nr	n	n	n	n	n	n	n
05/30/96	nr	6.5	0.69	n	nr	n	n	n	n	n	n	n
09/18/96	nr	7.0	0.68	n	nr	n	n	n	n	n	n	n
11/21/96	nr	6.5	0.71	n	nr	n	n	n	n	n	n	n
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	330
06/03/97	nr	6.89	0.631	n	nr	n	n	11	n	n	n	760
09/25/97	nr	nr	nr	n	nr	n	n	n	n	n	n	n
12/17/97	nr	7.55	0.684	n	n	n	n	n	n	n	n	n
03/04/98	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/03/98	nr	7.86	1.103	n	nr	n	n	n	n	n	n	n
09/02/98	nr	8.1	1.058	n	nr	n	n	n	n	n	n	n
12/08/98	nr	7.61	0.704	n	nr	n	n	n	n	n	n	n
03/15/99	nr	7.31	0.69	n	nr	n	n	n	n	n	n	n
06/16/99	nr	7.31	0.69	n	nr	n	n	n	n	n	n	n
09/02/99	nr	7.4	0.715	n	nr	n	n	n	n	n	n	n
12/16/99	nr	7.61	0.714	n	n	n	n	n	n	n	n	n
03/01/00	nr	7.19	0.696	n	n	n	n	n	n	n	n	n
06/06/00	nr	7.2	1.044	n	n	n	n	n	n	n	n	n
09/07/00	nr	7.03	0.64	n	n	n	n	n	n	n	n	n
12/13/00	nr	7.63	0.753	n	n	n	n	n	n	n	n	n
05/31/00	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	nr	7.55	0.668	n	n	n	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	nr	7.47	0.68	n	n	n	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
11/01/01	nr	7.13	0.802	n	n	n	n	n	n	n	n	n
02/12/02	nr	7.28	0.827	n	n	n	n	n	n	n	n	n
05/21/02	nr	7.38	0.784	n	n	n	n	n	n	n	n	n
09/05/02	nr	7.26	0.857	n	n	n	n	n	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	nr	7.19	0.57	n	n	n	n	n	n	n	n	0.83T
12/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/11/03	nr	5.36	0.821	n	0.59	n	n	n	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*0.694*	*n*	*n*	*0.315*	*n*	*n*	*n*	*n*
06/11/03	nr	4.3	0.824	n	0.41	n	n	n	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*0.49*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/15/03	nr	7.26	0.904	n	0.64	n	n	0.67	n	n	n	n
09/15/03	*na*	*na*	*na*	*0.2*	*0.674*	*n*	*n*	*0.657*	*n*	*n*	*n*	*0.38T*
12/04/03	nr	7.42	0.721	0.25	0.82	n	n	0.64	n	n	n	n
12/04/03	*na*	*na*	*na*	*0.293*	*1.01*	*n*	*n*	*0.598*	*n*	*n*	*n*	*n*
03/17/04	nr	7.4	0.810	n	0.48	n	n	n	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.529*	*n*	*n*	*0.413*	*n*	*n*	*n*	*n*
06/09/04	nr	7.49	0.692	n	0.31	n	n	n	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*0.377*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/13/04	nr	8.54	0.630	n	0.49J	n	n	n	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*0.515*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/09/04	nr	8.40	0.634	n	0.33	n	n	n	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*0.368*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/24/05	nr	8.05	0.565	n	0.29	n	n	n	n	n	n	n
09/01/05	na	na	na	n	n	n	n	n	n	n	n	n
12/16/05	nr	nr	nr	n	n	n	n	n	n	n	n	n
03/29/06	nr	7.02	0.705	n	0.42	n	n	n	n	n	n	n
03/29/06	*na*	*na*	*na*	*n*	*0.425J*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	nr	7.26	0.535	n	0.19J	n	n	n	n	n	n	0.56
09/13/06	nr	7.32	0.468	n	0.27	n	n	n	n	n	n	0.27
09/13/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/15/06	nr	7.16	0.448	n	n	n	n	n	n	n	n	n
12/15/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/29/07	nr	7.20	0.432	n	n	n	n	n	n	n	n	n
03/29/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/07	nr	7.60	0.568	n	n	n	n	n	n	n	n	n
06/21/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/11/07	nr	8.49	0.869	n	n	n	n	n	n	n	n	n
12/13/07	nr	7.74	0.534	n	n	n	n	n	n	n	n	n
03/21/08	nr	6.13	0.634	n	n	n	n	n	n	n	n	n
06/19/08	nr	7.96	0.854	n	n	n	n	n	n	n	n	n
09/11/08	nr	7.47	0.516	n	n	n	n	n	n	n	n	n
12/12/08	nr	5.75	0.796	n	n	n	n	n	n	n	n	n
03/25/09	nr	8.21	0.790	n	n	n	n	n	n	n	n	n
06/19/09	nr	8.71	0.265	n	n	n	n	n	n	n	n	n
09/10/09	nr	6.97	0.601	n	n	n	n	n	n	n	n	n
12/16/09	nr	6.83	0.606	n	n	n	n	n	n	n	n	n
03/25/10	nr	7.55	0.542	n	n	n	n	n	n	n	n	n
06/16/10	nr	7.25	0.607	n	n	n	n	1.5	n	n	n	n
09/15/10	nr	7.43	0.558	n	n	n	n	n	n	n	n	n
12/15/10	nr	7.52	0.655	n	n	n	n	n	n	n	n	n
03/29/11	nr	7.46	0.352	n	n	n	n	n	n	n	n	n
06/21/11	nr	7.15	0.697	n	n	n	n	n	n	n	n	n
09/09/11	nr	7.16	0.707	n	n	n	n	n	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or in trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

PW 3

Date	TOC ELEV: 821.65 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	nr	6.5	0.77	24	nr	n	42	5	n	4	n	n
11/15/95	806.75	6.5	0.71	29	nr	n	53	7	n	n	2	n
02/16/96	nr	6.0	0.91	16	nr	n	27	2	n	6	n	n
05/30/96	nr	6.0	0.91	n	nr	n	n	7	n	4	n	n
09/18/96	nr	6.5	0.78	23	nr	n	39	7	n	3	n	n
11/21/96	nr	6.5	0.78	5	nr	n	8	2	n	2	n	n
02/06/97	nr	nr	nr	2	nr	n	4	3	n	n	n	n
06/04/97	nr	6.92	1.07	1	nr	n	5	4	n	n	n	n
09/25/97	nr	nr	nr	7	nr	n	14	1	n	6	n	n
12/17/97	nr	7.19	0.833	n	14	n	n	n	n	n	n	n
03/04/98	nr	nr	nr	n	nr	n	2	n	n	n	n	n
06/03/98	nr	7.46	1.199	4	nr	n	4	2	n	n	n	n
09/02/98	nr	7.85	1.1	5	nr	n	3	n	n	1	n	n
12/08/98	nr	7.36	0.791	11	nr	n	8	1	n	7	n	n
03/15/99	nr	7.25	0.715	13	nr	n	10	3	n	6	n	n
06/16/99	nr	7.25	0.715	16	nr	n	n	9	n	7	n	n
09/02/99	nr	7.15	0.745	15	nr	n	15	3	n	13	n	n
12/16/99	nr	7.36	0.791	5.2	35	n	4.9J	1.1	n	n	n	n
03/01/00	nr	6.88	0.896	5	36	n	4.8J	2.1	n	2.0R8	n	n
06/06/00	nr	7.05	1.086	8.3	53	n	7.4	3.4	n	6.7	n	n
09/07/00	nr	7.12	0.65	9.9	45	n	11	12	n	9.2	n	n
12/13/00	nr	7.53	0.82	14	52	n	9.9	9.5	n	8.0R8	n	n
05/31/00	*nr*	*nr*	*nr*	*6.9*	*60*	*n*	*7.1*	*3.2*	*n*	*5.6*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*7.8*	*32.2*	*n*	*n*	*7.5*	*n*	*n*	*n*	*n*
04/24/01	nr	7.28	0.794	6	31	n	n	n	n	8	n	n
04/24/01	*na*	*na*	*na*	*5.2*	*28.3*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	nr	7.66	0.919	n	45	n	7	11	n	6	n	n
08/01/01	*na*	*na*	*na*	*6.3*	*39.1*	*n*	*5.3*	*8.6*	*n*	*n*	*n*	*n*
11/01/01	nr	7.29	0.841	n	50.7	n	8.82	10.4	n	n	n	n
02/12/02	nr	7.15	0.924	n	45.5	n	n	7.94	n	7.54	n	n
02/12/02	*na*	*na*	*ns*	*4.4*	*36.3*	*n*	*2.6*	*5.2*	*n*	*7.6*	*n*	*n*
05/21/02	nr	7.36	0.834	n	23	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*3.5*	*29*	*n*	*2.3*	*5.1*	*n*	*6.8*	*n*	*n*
09/05/02	nr	7.12	0.89	n	31	n	n	5.9	n	8.5	n	n
09/05/02	*na*	*na*	*na*	*5.96*	*41*	*n*	*2.72*	*8.2*	*n*	*9.13*	*n*	*n*
12/05/02	nr	7.15	0.578	2.2	10	n	1.6	3.3	n	1.4	n	n
12/05/02	*na*	*na*	*na*	*5.22*	*21.8*	*n*	*3.79*	*7.78*	*n*	*3.06*	*n*	*n*
06/11/03	nr	4.33	1.01	n	26	n	2	4.5	n	6	n	n
06/11/03	*na*	*na*	*na*	*4.46*	*32.6*	*n*	*1.68*	*7*	*n*	*10*	*n*	*n*
09/15/03	nr	7.16	0.908	2.5	23	n	1.1	3.3	n	4.9	n	n
09/15/03	*na*	*na*	*na*	*3.04*	*25.3*	*n*	*1.36*	*3.54*	*n*	*8.04*	*n*	*0.338T*
12/04/03	nr	7.49	0.687	1.1	6.8	n	0.3	1.4	n	1.2	n	n
12/04/03	*na*	*na*	*na*	*1.39*	*9.01*	*n*	*0.343*	*1.47*	*n*	*1.99*	*n*	*n*
03/17/04	nr	7.38	0.908	2.5	21	0.29	1.8	7.6	n	3.9	n	n
03/17/04	*na*	*na*	*na*	*3.39*	*24.5*	*0.624*	*2.22*	*9.29*	*n*	*5.58*	*n*	*n*
06/09/04	nr	7.37	0.706	3.0	33	n	1.8	7.7	n	6.5	n	n
06/09/04	*na*	*na*	*na*	*4.43*	*43.8*	*0.371*	*2.68*	*11.5*	*n*	*12.0*	*n*	*n*
09/13/04	nr	8.26	0.647	4.3	34	0.68J	n	15	n	5.2	n	n
09/13/04	*na*	*na*	*na*	*5.74*	*41.9*	*0.945*	*5.41*	*22.6*	*n*	*6.67*	*n*	*n*
12/09/04	nr	8.28	0.706	3.2	15	0.52	3.1	8.4	n	1.5	n	n
12/09/04	*na*	*na*	*na*	*3.91*	*15.4*	*0.642*	*3.74*	*9.34*	*n*	*3.20*	*n*	*n*
03/24/05	nr	7.96	0.589	1.3	11	n	0.65	2.1	n	1.9	n	n
03/29/06	nr	6.98	0.734	1.0	17	n	0.47J	1.5	n	1.7	n	n
03/29/06	*na*	*na*	*na*	*1.50*	*23.6*	*n*	*0.582J*	*1.96*	*n*	*2.94*	*n*	*n*
06/22/06	nr	7.22	0.547	1.2	24	n	0.35	1.4	n	2.40	n	0.40
09/13/06	nr	7.19	0.474	1.4	29	0.15J	0.75	3.2	n	n	n	n
09/13/06	*na*	*na*	*na*	*1.76*	*36.9*	*n*	*1.38*	*3.50*	*n*	*2.54*	*n*	*n*
12/15/06	nr	7.13	0.455	0.84J	12	n	n	n	n	n	n	n
12/15/06	*na*	*na*	*na*	*0.914*	*16.3*	*n*	*n*	*0.385*	*n*	*1.82*	*n*	*n*
03/29/07	nr	7.18	0.523	0.94J	10	n	n	1.2	n	1.5J	n	n
03/29/07	*na*	*na*	*na*	*0.899J*	*11.7*	*n*	*0.324J*	*1.05*	*n*	*1.96*	*n*	*n*
06/21/07	nr	7.40	0.558	1.2	16	n	n	5.0	n	0.54J	n	n
06/21/07	*na*	*na*	*na*	*1.24*	*18.4*	*n*	*0.963J*	*4.82*	*n*	*0.606J*	*n*	*n*
09/11/07	nr	8.44	0.802	1.7	26	n	n	5.4	n	2.0J	n	n
12/13/07	nr	7.79	0.653	1.7	13	n	1.7	7.4	n	0.65J	n	n
03/21/08	nr	6.05	0.777	1.1	9.8	n	n	3.2	n	n	n	n
06/19/08	nr	7.85	0.887	1.1	17	n	n	2.6	n	2.3	n	n
09/11/08	nr	7.40	0.508	1.6	20	n	n	4.3	n	2.0J	n	n
12/12/08	nr	5.75	0.880	0.97J	9.1	n	n	1.4	n	0.77J	n	n
09/10/09	nr	7.14	0.638	n	9.8	n	n	0.73J	n	n	n	n
06/16/10	nr	7.30	0.694	n	4.4	n	n	2.0	n	n	n	n
09/15/10	nr	7.38	0.580	0.62J	8.5	n	n	0.83J	n	n	n	n
12/15/10	nr	7.44	0.730	0.82J	7.2	n	n	2.0	n	n	n	n
03/29/11	nr	7.35	0.514	n	7.1	n	n	2.8	n	n	n	n
06/21/11	nr	7.14	0.703	n	5.0	n	0.66J	3.1	n	n	n	n
09/09/11	nr	7.09	0.721	n	5.4	n	n	2.4	n	n	n	n

All data in ppb unless noted
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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

PW 4

Date	TOC ELEV: 821.56 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
08/23/95	nr	6.5	0.76	2	nr	n	n	n	n	n	n	n
11/15/95	807.06	6.5	0.78	6	nr	n	6	3	n	n	n	n
02/16/96	nr	6.0	0.79	4	nr	n	3	1	n	4	n	n
05/30/96	nr	6.5	0.75	2	nr	n	1	n	n	3	n	n
09/18/96	nr	6.5	0.74	9	nr	n	8	7	5	6	n	n
11/21/96	nr	6.5	0.78	3	nr	n	2	n	n	4	n	n
02/06/97	nr	nr	nr	2	nr	n	n	2	n	n	n	n
06/03/97	nr	7.04	0.578	n	nr	n	n	2	n	n	n	n
09/25/97	nr	nr	nr	1	nr	n	1	n	n	1	n	n
12/17/97	nr	7.15	0.843	n	10	n	n	n	n	n	n	n
03/04/98	nr	nr	nr	n	nr	n	n	n	n	n	n	n
06/03/98	nr	7.89	1.086	n	nr	n	n	1	n	n	n	n
09/02/98	nr	7.75	1.05	n	nr	n	n	n	n	n	n	n
12/08/98	nr	7.39	0.687	n	nr	n	n	n	n	n	n	n
03/15/99	nr	7.39	0.687	n	nr	n	1EJ	n	n	n	n	n
06/16/99	nr	7.39	0.687	2J	nr	n	1J	1	n	3J	n	n
09/02/99	nr	7.25	0.705	1E	nr	n	n	n	n	1E	n	n
12/16/99	nr	7.39	0.687	n	12	n	n	1.2	n	1.1	n	n
03/01/00	nr	7.3	0.718	n	7.5	n	n	1.1	n	n	n	n
06/06/00	nr	7.2	0.96	n	11	n	n	1.5	n	n	n	n
09/07/00	nr	7.05	0.63	n	15	n	n	n	n	n	n	n
12/13/00	nr	7.56	0.76	1.4	18	n	n	2.6	n	3.7R8	n	n
05/31/00	*nr*	*nr*	*nr*	*n*	*9.8*	*n*	*n*	*1.3*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/24/01	nr	7.25	0.712	n	17	n	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*16.7*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	nr	7.54	0.921	n	33	n	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*26.4*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
11/01/01	nr	7.38	0.832	n	18.3	n	n	n	n	n	n	n
02/12/02	nr	7.23	0.853	n	13.1	n	n	n	n	n	n	n
02/12/02	*na*	*na*	*na*	*n*	*11.1*	*n*	*n*	*2.2*	*n*	*2*	*n*	*n*
05/21/02	nr	7.31	0.81	n	12	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*0.64J*	*14*	*n*	*0.28J*	*1.7*	*n*	*2.9*	*n*	*n*
09/05/02	nr	7.12	0.901	n	26	n	n	n	n	6.5	n	n
09/05/02	*na*	*na*	*na*	*1.78*	*36*	*n*	*n*	*3.85*	*n*	*6.84*	*n*	*n*
12/05/02	nr	7.09	0.602	0.61	15	n	n	1.6	n	2.7	n	0.52T
12/05/02	*na*	*na*	*na*	*1.45*	*29.5*	*0.76*	*0.64*	*5.66*	*n*	*7.51*	*n*	*n*
03/11/03	nr	5.38	0.881	1	18	0.44	n	2.7	n	3.3	n	n
03/11/03	*na*	*na*	*na*	*1.25*	*23.8*	*0.504*	*n*	*3.79*	*n*	*5.03*	*n*	*n*
06/11/03	nr	4.4	0.87	n	19	0.53	0.55	4.6	n	3.4	n	n
06/11/03	*na*	*na*	*na*	*1.28*	*24.8*	*n*	*n*	*6.72*	*n*	*6.06*	*0.137*	*n*
09/15/03	nr	7.22	0.862	n	2.4	n	n	0.83	n	n	n	n
09/15/03	*na*	*na*	*na*	*0.149*	*2.5*	*n*	*n*	*0.825*	*n*	*0.382*	*n*	*0.311T*
12/04/03	nr	7.47	0.701	0.39	7.7	n	n	2.1	n	1.2	n	n
12/04/03	*na*	*na*	*na*	*0.478*	*8.99*	*n*	*n*	*2.55*	*n*	*2.94*	*n*	*n*
03/17/04	nr	7.38	0.899	0.78	16	0.46	0.37	4	n	4.8	n	n
03/17/04	*na*	*na*	*na*	*0.872*	*17.4*	*0.711*	*0.705*	*4.87*	*n*	*5.59*	*n*	*n*
06/09/04	nr	7.30	0.73	0.36	7.6	n	n	1.9	n	2.0	n	n
06/09/04	*na*	*na*	*na*	*0.443*	*9.17*	*n*	*n*	*2.74*	*n*	*3.01*	*n*	*n*
09/13/04	nr	8.26	0.663	1.7	32	0.62J	n	5.8	n	11	n	n
09/13/04	*na*	*na*	*na*	*2.11*	*39.2*	*0.707*	*0.750*	*8.47*	*n*	*14.6*	*n*	*n*
12/09/04	nr	8.23	0.704	1.9	28	0.52	0.40J	4.7	n	4.5	n	n
12/09/04	*na*	*na*	*na*	*2.33*	*29.8*	*0.520*	*0.434*	*5.34*	*n*	*10.8*	*n*	*n*
03/24/05	nr	8.02	0.590	n	1.4	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*2.03*	*38.1*	*0.658J*	*1.090*	*5.66*	*n*	*14.8*	*n*	*n*
09/01/05	na	na	na	1.9	34	n	n	5.1	n	11.1	n	n
12/16/05	nr	nr	nr	n	10.5	n	n	2.6	n	n	n	n
03/29/06	nr	6.95	0.745	0.43	7.4	0.41	0.29	3.5	n	0.41	n	n
03/29/06	*na*	*na*	*na*	*0.527J*	*9.58*	*0.451J*	*0.316J*	*4.23*	*n*	*0.647J*	*n*	*n*
06/22/06	nr	7.21	0.554	0.17J	2.3	n	n	1.6	n	n	n	0.87
09/13/06	nr	7.31	0.488	0.47	8.5	0.38	0.29	3.9	n	n	n	n
09/13/06	*na*	*na*	*na*	*0.560*	*7.51*	*0.386*	*0.920*	*3.67*	*n*	*2.35*	*n*	*n*
12/15/06	nr	7.14	0.450	n	2.0	n	n	n	n	n	n	n
12/15/06	*na*	*na*	*na*	*n*	*2.07*	*n*	*n*	*0.659*	*n*	*n*	*n*	*n*
03/29/07	nr	7.13	0.483	n	2.0	n	n	1.6	n	n	n	n
03/29/07	*na*	*na*	*na*	*0.152J*	*2.50*	*n*	*n*	*1.46*	*n*	*0.630J*	*n*	*n*
06/21/07	nr	7.45	0.599	0.61J	9.1	0.54J	n	4.2	n	1.7	n	n
06/21/07	*na*	*na*	*na*	*0.704J*	*11.3*	*0.527J*	*0.416J*	*4.48*	*n*	*2.29*	*n*	*n*
09/11/07	nr	8.47	0.880	0.63J	12	0.91J	n	7.7	n	3.3	n	n
12/13/07	nr	7.79	0.516	1.4	33	0.79J	n	5.2	n	5.9	n	n
03/21/08	nr	6.03	0.690	0.60J	14	n	n	4.6	n	1.7J	n	n
06/19/08	nr	7.90	0.891	n	n	n	n	n	n	n	n	n
09/11/08	nr	7.44	0.530	0.50J	7.4	0.93J	n	6.5	n	1.4	n	n
12/12/08	nr	5.74	0.841	0.50J	9.0	0.97J	n	7.5	n	1.7J	n	n
03/25/09	nr	8.30	0.859	n	n	n	n	n	n	n	n	n
06/19/09	nr	8.55	0.286	n	n	n	n	n	n	n	n	n
09/10/09	nr	7.14	0.640	n	n	n	n	n	n	n	n	n
12/15/09	nr	7.38	0.646	n	1.3	n	n	n	n	n	n	n
03/25/10	nr	7.44	0.863	n	2.9	n	n	0.99J	n	n	n	n
06/16/10	nr	7.28	0.650	n	3.9	n	n	2.2	n	n	n	n
09/15/10	nr	7.36	0.560	n	1.3	n	n	1.7	n	n	n	n
12/15/10	nr	7.45	0.675	n	4.5	n	n	2.8	n	n	n	n
03/29/11	nr	7.40	0.352	n	1.7	n	n	1.1	n	n	n	n
06/21/11	nr	7.13	0.694	n	n	n	n	2.1	n	n	n	n
09/09/11	nr	7.12	0.710	n	4.1	n	n	7.8	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
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B,T = Analyte detected in laboratory method blank (B) or in trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

EEIB 2

Date	TOC ELEV: 825.75 W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/20/94	813.50	nr	nr	8.1	3.5	9.7	11	17	n	n	n	149,000
08/21/95	815.65	7.0	0.72	n	nr	n	n	n	n	n	n	1,300
11/15/95	814.78	6.5	0.75	n	nr	n	n	n	n	n	n	39,000
02/15/96	814.65	6.5	0.74	n	nr	n	n	n	n	n	n	1,500
02/16/96	nr	6.5	0.89	n	nr	n	n	n	n	n	n	86,000
05/29/96	816.70	5.5	0.87	n	nr	n	n	n	n	n	n	110,000
09/18/96	nr	6.5	0.69	n	nr	n	n	n	n	n	n	12,000
11/22/96	810.95	6.0	0.98	n	nr	n	n	n	n	n	n	65
02/06/97	nr	nr	nr	n	nr	n	n	n	n	n	n	2,700
06/04/97	nr	6.9	0.97	n	nr	n	n	n	n	n	n	7,400
09/25/97	nr	nr	nr	n	nr	n	n	n	n	n	n	14,000
12/17/97	nr	7.23	0.788	n	n	n	n	n	7	n	n	n
03/04/98	nr	nr	nr	n	nr	n	n	n	n	n	n	2,400
06/03/98	nr	7.78	1.098	n	nr	n	n	n	n	n	n	9,900
09/02/98	nr	8.00	1.085	n	nr	n	n	n	n	n	n	110
12/08/98	nr	7.05	0.914	n	nr	n	n	n	n	n	n	3,600
03/15/99	nr	7.18	0.768	2EJ	nr	n	3EJ	2	n	n	2	6,000
06/16/99	nr	7.18	0.768	n	nr	n	n	n	n	n	n	810
09/02/99	nr	7.11	0.78	n	nr	n	n	n	n	n	n	8
12/16/99	nr	7.05	0.714	n	2.8	n	n	n	n	n	n	1,200
03/01/00	nr	7.11	0.88	n	2.1	n	n	n	n	n	n	520
06/06/00	nr	6.85	1.157	n	1.1	n	n	n	n	n	n	n
09/07/00	nr	7.03	0.7	n	n	n	n	n	n	n	n	n
12/13/00	nr	7.07	0.979	n	1.9	n	n	n	n	n	n	n
05/31/00	*nr*	*nr*	*nr*	*n*	*1.6*	*n*	*n*	*n*	*n*	*n*	*n*	*8*
04/24/01	nr	7.29	0.777	n	n	n	n	n	n	n	n	n
04/24/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
08/01/01	nr	7.40	0.93	n	n	n	n	n	n	n	n	n
08/01/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
11/01/01	nr	6.70	0.93	n	n	n	n	n	n	n	n	n
02/12/02	nr	7.17	0.942	n	n	n	n	n	n	n	n	n
05/21/02	nr	7.35	0.853	n	n	n	n	n	n	n	n	n
09/04/02	nr	7.16	0.899	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*0.5*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	nr	6.96	0.678	n	n	n	n	n	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*0.73*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/11/03	nr	5.30	1.15	n	2.5	n	n	n	n	0.55	n	n
03/11/03	*na*	*na*	*na*	*0.381*	*2.58*	*n*	*n*	*0.332*	*n*	*n*	*n*	*n*
06/11/03	nr	4.47	1.07	n	1.2	n	n	n	n	0.56	n	n
06/11/03	*na*	*na*	*na*	*0.497*	*1.56*	*n*	*n*	*n*	*n*	*0.939*	*n*	*n*
09/15/03	nr	7.25	0.99	1.2	2.8	n	n	1.3	n	1.1	n	n
09/15/03	*na*	*na*	*na*	*1.37*	*2.82*	*n*	*0.278*	*1.34*	*n*	*1.45*	*n*	*0.339T*
12/04/03	nr	7.33	0.818	0.77	2.7	n	n	0.41	n	0.98	n	n
12/04/03	*na*	*na*	*na*	*0.932*	*3.35*	*n*	*n*	*0.368*	*n*	*2.43*	*n*	*n*
03/17/04	nr	7.30	0.924	0.38	0.94	n	n	n	n	0.45	n	n
03/17/04	*na*	*na*	*na*	*0.411*	*0.959*	*0.341*	*n*	*0.393*	*n*	*0.464*	*n*	*n*
06/09/04	nr	7.54	0.820	n	0.6	n	n	10	n	n	n	n
06/09/04	*na*	*na*	*na*	*0.216*	*0.738*	*n*	*n*	*13.9*	*n*	*n*	*n*	*n*
09/13/04	nr	8.48	0.726	n	0.62J	n	n	0.45J	n	0.28J	n	n
09/13/04	*na*	*na*	*na*	*0.221*	*0.781*	*n*	*n*	*0.583*	*n*	*n*	*n*	*n*
12/09/04	nr	8.20	0.774	n	0.63	n	n	0.79	n	0.27	n	n
12/09/04	*na*	*na*	*na*	*n*	*0.722*	*n*	*n*	*0.847*	*n*	*0.506*	*n*	*n*
03/24/05	nr	8.10	0.700	0.61	1.1	n	n	0.25	n	0.46	n	n
03/29/06	nr	6.96	0.780	0.27	1.0	n	n	n	n	0.23J	n	0.17J
03/29/06	*na*	*na*	*na*	*0.383J*	*1.30*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	nr	7.28	0.610	0.27	1.1	n	n	n	n	0.28	n	0.78
09/13/06	nr	7.01	0.516	0.30	1.4	n	n	0.21J	n	n	n	n
09/13/06	*na*	*na*	*na*	*0.346*	*1.19*	*n*	*n*	*n*	*n*	*0.458*	*n*	*n*
12/15/06	nr	7.00	0.498	n	1.3	n	n	n	n	n	n	n
12/15/06	*na*	*na*	*na*	*0.343*	*1.19*	*n*	*n*	*n*	*n*	*0.704*	*n*	*n*
03/29/07	nr	7.11	0.580	0.56J	2.1	n	n	1.9	n	0.50J	n	n
03/29/07	*na*	*na*	*na*	*0.544J*	*2.38*	*n*	*0.417J*	*1.50*	*n*	*0.643J*	*n*	*n*
06/21/07	nr	7.48	0.573	n	0.78J	n	n	n	n	n	n	n
06/21/07	*na*	*na*	*na*	*0.159J*	*0.869J*	*n*	*n*	*n*	*n*	*0.501J*	*n*	*n*
09/11/07	nr	8.34	0.950	n	0.76J	n	n	n	n	n	n	n
12/13/07	nr	7.55	0.671	n	0.65J	n	n	n	n	n	n	n
03/21/08	nr	6.12	0.891	n	0.89J	n	n	1.3	n	n	n	n
06/19/08	nr	7.87	0.942	n	0.68J	n	n	n	n	n	n	n
09/11/08	nr	7.44	0.563	n	n	n	n	n	n	n	n	n
12/12/08	nr	5.84	0.896	n	n	n	n	n	n	n	n	n
03/25/09	nr	8.74	0.949	n	n	n	n	n	n	n	n	n
06/19/09	nr	8.64	0.282	n	n	n	n	n	n	n	n	n
09/10/09	nr	7.26	0.614	n	n	n	n	5.5	n	n	n	n
12/16/09	nr	6.88	0.605	n	n	n	n	n	n	n	n	n
03/25/10	nr	7.51	0.576	n	n	n	n	n	n	n	n	n
06/16/10	nr	7.27	0.793	n	n	n	n	n	n	n	n	n
09/15/10	nr	7.47	0.561	n	n	n	n	n	n	n	n	n
12/15/10	nr	7.48	0.653	n	n	n	n	n	n	n	n	n
03/29/11	nr	7.50	0.350	n	n	n	n	n	n	n	n	n
06/21/11	nr	7.18	0.727	n	n	n	n	n	n	n	n	n
09/09/11	nr	7.18	0.713	n	n	n	n	n	n	n	n	n

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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

RS04
TOC ELEV: 825.39

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/31/00	*nr*	*nr*	*nr*	*n*	*17*	*n*	*n*	*5*	*n*	*3.5*	*2.4*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*11.9*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/23/01	814.03	7.27	0.709	n	8	n	n	n	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*5.1*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	813.13	7.28	0.87	n	8	n	n	n	n	n	n	n
10/31/01	814.39	7.11	0.848	n	14.3	n	n	n	n	n	n	n
10/31/01	*na*	*na*	*na*	*1.2*	*8.1*	*n*	*n*	*0.6*	*n*	*n*	*n*	*n*
02/12/02	814.58	7.19	0.897	n	n	n	n	n	n	n	n	n
05/21/02	814.35	7.21	0.825	n	5.7	n	n	n	n	n	n	n
05/21/02	*na*	*na*	*na*	*0.47J*	*3.8*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/04/02	812.31	7.34	0.509	n	16	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*0.95*	*22.9*	*n*	*n*	*0.53*	*n*	*1.11*	*n*	*n*
12/05/02	811.90	7	0.955	n	6.4	n	n	n	n	n	n	n
03/11/03	815.77	5.19	0.905	0.77	7.8	n	n	0.93	n	0.43	n	n
03/11/03	*na*	*na*	*na*	*0.992*	*10.9*	*n*	*n*	*1.4*	*n*	*0.583*	*n*	*n*
06/11/03	812.95	5.88	0.797	n	9.7	n	n	0.44	n	0.33	n	n
06/11/03	*na*	*na*	*na*	*0.637*	*10.6*	*n*	*n*	*0.506*	*n*	*0.42*	*0.139*	*n*
09/15/03	814.29	7.19	0.89	0.63	13	n	n	0.7	n	0.48	n	n
09/15/03	*na*	*na*	*na*	*0.74*	*15.3*	*n*	*n*	*0.646*	*n*	*0.935*	*0.164*	*0.29T*
12/04/03	815.54	7.31	0.706	0.72	13	n	n	0.36	n	0.50	n	n
12/04/03	*na*	*na*	*na*	*0.859*	*15.9*	*n*	*n*	*0.262*	*n*	*0.717*	*0.222*	*n*
03/17/04	812.83	7.12	0.822	0.41	7	n	n	n	n	n	n	n
03/17/04	*na*	*na*	*na*	*0.491*	*7.86*	*n*	*n*	*0.486*	*n*	*n*	*n*	*n*
06/09/04	812.79	7.86	0.665	0.52	11	n	n	0.29	n	0.39	n	n
06/09/04	*na*	*na*	*na*	*0.631*	*14.1*	*n*	*n*	*0.429*	*n*	*0.634*	*n*	*n*
09/13/04	811.96	7.27	0.714	0.45J	7.5	n	n	n	n	n	n	n
09/13/04	*na*	*na*	*na*	*0.604*	*11.1*	*n*	*n*	*n*	*n*	*0.295*	*n*	*n*
12/09/04	812.72	7.80	0.724	0.94	11	n	n	1.8	n	0.42	n	n
12/09/04	*na*	*na*	*na*	*1.05*	*11.5*	*n*	*n*	*1.89*	*n*	*0.668*	*n*	*n*
03/24/05	813.88	6.67	0.657	0.44	8.0	n	n	0.26	n	0.22	0.15	n
05/18/05	814.04	na	na	n	6.3	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*0.884J*	*22.2*	*n*	*n*	*n*	*n*	*n*	*0.193J*	*n*
09/01/05	812.68	7.19	0.723	n	20.4	n	n	n	n	n	n	n
12/15/05	813.28	6.59	0.651	n	6.5	n	n	n	n	n	n	n
03/28/06	814.11	7.12	0.603	0.23J	3.0	n	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*0.241J*	*4.03*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	813.87	6.98	0.564	0.25	3.5	n	n	n	n	n	n	0.16J
09/12/06	812.69	6.70	0.607	0.22J	3.3	n	n	n	n	n	n	n
12/14/06	814.60	7.08	0.504	n	6.9	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*0.453*	*8.16*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.18	7.32	0.663	0.53J	5.7	n	n	0.60J	n	n	n	n
03/28/07	*na*	*na*	*na*	*0.490J*	*6.09*	*n*	*n*	*0.681J*	*n*	*n*	*n*	*n*
06/20/07	812.87	6.82	0.702	n	2.4	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*0.233J*	*2.65*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	812.95	8.05	0.901	n	4.4	n	n	n	n	n	n	n
12/12/07	814.70	8.85	0.676	n	6.1	n	n	n	n	n	n	n
03/20/08	819.95	7.76	0.491	0.58J	6.4	n	n	1.1	n	n	n	n
06/18/08	814.92	7.19	0.747	n	3.5	n	n	n	n	n	n	n
09/10/08	812.43	7.35	0.573	n	1.4	n	n	n	n	n	n	n
12/11/08	811.77	7.13	0.688	n	1.3	n	n	n	n	n	n	n
03/24/09	813.47	8.04	0.637	n	4.6	n	n	n	n	n	n	n
06/18/09	812.98	8.62	0.673	n	2.6	n	n	n	n	n	n	n
09/09/09	812.69	7.03	0.663	n	n	n	n	n	n	n	n	n
12/15/09	813.18	6.89	0.639	n	0.63J	n	n	n	n	n	n	n
03/24/10	815.35	7.20	0.588	n	3.4	n	n	2.7	n	n	n	n
06/15/10	816.68	7.10	0.670	n	1.8	n	n	n	n	n	n	n
09/14/10	812.60	7.27	0.554	n	n	n	n	n	n	n	n	n
12/14/10	813.19	7.32	0.774	n	1.6	n	n	n	n	n	n	n
03/28/11	814.86	7.06	0.730	n	8.3	n	n	5.7	n	n	n	n
06/20/11	814.57	6.95	0.707	n	2.6	n	n	1.3	n	n	n	n
09/08/11	812.35	7.26	0.709	n	4.4	n	n	1.0	n	n	n	n

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n = Not detected at method detection li
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B,T = Analyte detected in laboratory method blank (B) or in trip blank (T)
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E = Estimated concentration - exceeds instrument calibration range
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KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

RS06
TOC ELEV: 825.60

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
05/26/00	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/13/01	*nr*	*nr*	*nr*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
04/23/01	814.25	7.24	0.685	n	n	n	n	n	n	n	n	n
04/23/01	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
07/31/01	813.01	7.37	0.79	n	n	n	n	n	n	n	n	n
10/31/01	813.12	7.48	0.791	n	n	n	n	n	n	n	n	n
02/12/02	814.70	7.18	0.907	n	n	n	n	n	n	n	n	n
05/21/02	814.60	7.15	0.831	n	n	n	n	n	n	n	n	n
09/04/02	812.36	7.17	0.942	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/05/02	811.92	7.01	0.586	n	n	n	n	n	n	n	n	0.59T
12/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/11/03	815.67	7.18	0.899	n	n	n	n	n	n	n	n	n
03/11/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/11/03	812.94	7.06	0.652	n	n	n	n	n	n	n	n	n
06/11/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/15/03	814.48	7.29	0.761	n	n	n	n	n	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/04/03	815.78	7.51	0.720	n	n	n	n	n	n	n	n	n
12/04/03	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/17/04	812.90	8.03	0.695	n	n	n	n	n	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/09/04	812.90	6.90	0.740	n	n	n	n	n	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/13/04	811.90	7.85	0.702	n	n	n	n	n	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
12/09/04	812.55	6.71	0.778	n	n	n	n	n	n	n	n	n
12/09/04	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/24/05	814.21	7.75	0.596	n	n	n	n	n	n	n	n	n
05/18/05	814.34	na	na	n	n	n	n	n	n	n	n	n
09/01/05	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/01/05	812.80	7.24	0.784	n	n	n	n	n	n	n	n	n
12/15/05	813.62	6.36	0.698	n	n	n	n	n	n	n	n	1.7
03/28/06	814.51	7.17	0.787	n	n	n	n	n	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/21/06	814.25	6.40	0.753	n	n	n	n	n	n	n	n	0.18J
09/12/06	812.85	6.98	0.564	n	n	n	n	n	n	n	n	0.20J
12/14/06	814.94	6.82	0.751	n	n	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
03/28/07	817.43	7.40	0.716	n	n	n	n	n	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/20/07	813.11	7.22	0.742	n	n	n	n	n	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/10/07	813.13	6.88	0.924	n	n	n	n	n	n	n	n	n
12/12/07	814.61	7.67	0.705	n	n	n	n	n	n	n	n	n
03/20/08	819.28	5.81	0.801	n	n	n	n	n	n	n	n	n
06/18/08	815.16	7.51	0.910	n	n	n	n	n	n	n	n	n
09/10/08	812.57	6.58	0.771	n	n	n	n	n	n	n	n	n
12/11/08	811.78	5.35	0.960	n	n	n	n	n	n	n	n	n
03/24/09	813.80	8.57	0.644	n	n	n	n	n	n	n	n	n
06/18/09	813.18	7.23	0.756	n	n	n	n	n	n	n	n	n
09/09/09	813.56	7.25	0.732	n	n	n	n	n	n	n	n	n
12/15/09	813.15	7.22	0.792	n	n	n	n	n	n	n	n	n
03/24/10	815.48	7.43	1.79	n	n	n	n	n	n	n	n	n
06/15/10	816.54	7.07	0.752	n	n	n	n	n	n	n	n	n
09/14/10	812.75	7.11	0.709	n	n	n	n	n	n	n	n	n
12/14/10	813.05	7.01	0.760	n	n	n	n	n	n	n	n	n
03/28/11	815.02	7.25	0.427	n	n	n	n	n	n	n	n	n
06/20/11	814.80	7.07	0.856	n	n	n	n	n	n	n	n	n
09/08/11	812.29	6.74	0.842	n	n	n	n	n	n	n	n	n

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or in trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

OEPA-1
(Franklin & Crawford - SW Corner)
TOC ELEV: 832.46

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/09/02	nr	nr	nr	n	n	370	n	n	n	n	n	n
07/09/02	*814.61*	*na*	*na*	*n*	*n*	*380*	*n*	*2J*	*n*	*n*	*n*	*n*
09/04/02	813.65	7.06	1.1	n	n	450	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*n*	*691*	*n*	*3.17*	*n*	*n*	*n*	*n*
06/12/03	na	na	na	n	n	320	n	2.1	n	n	n	n
06/12/03	*815.17*	*7.05*	*1.13*	*n*	*n*	*357*	*n*	*2.64*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	380	n	n	n	n	n	n
09/16/03	*816.54*	*7.35*	*1.1*	*n*	*n*	*492*	*n*	*4.03*	*n*	*n*	*n*	*0.312T*
06/08/04	*815.39*	*7.55*	*1.25*	*n*	*n*	*289*	*n*	*2.81*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*n*	*318*	*n*	*2.86J*	*n*	*n*	*n*	*n*

OEPA-2
(Main & Crawford)
TOC ELEV: 830.89

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/09/02	nr	nr	nr	n	n	n	n	n	n	n	n	n
07/09/02	*814.60*	*na*	*na*	*n*	*n*	*5J*	*n*	*5J*	*n*	*n*	*n*	*n*
09/05/02	813.69	6.73	1.16	n	n	n	n	9.6	n	n	n	n
09/05/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*12.2*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	0.29	n	1.3	n	n	n	n
09/16/03	*816.57*	*6.85*	*1.04*	*n*	*n*	*0.363*	*n*	*1.6*	*n*	*n*	*n*	*0.296T*
06/08/04	*815.36*	*7.29*	*1.26*	*n*	*n*	*0.430*	*n*	*0.482*	*n*	*n*	*n*	*n*

OEPA-3
(Spinnaker)
TOC ELEV: 825.13

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/09/02	nr	nr	nr	n	n	n	n	11	n	n	n	n
07/09/02	*812.62*	*na*	*na*	*n*	*3J*	*2J*	*n*	*13*	*n*	*n*	*n*	*n*
09/04/02	812.50	7.18	0.898	n	n	n	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*0.74*	*0.61*	*n*	*1.27*	*n*	*n*	*n*	*n*
12/05/02	812.14	7.23	0.86	n	0.75	n	n	1.2	n	n	n	n
12/05/02	*na*	*na*	*na*	*n*	*1.42*	*n*	*n*	*3.11*	*n*	*n*	*n*	*n*
03/11/03	815.90	7.16	1.24	0.62	11	n	n	5.7	n	16	n	n
03/11/03	*na*	*na*	*na*	*0.809*	*17.5*	*0.262*	*0.571*	*7.9*	*n*	*18.7*	*n*	*n*
06/11/03	813.21	6.53	0.778	n	1.6	n	0.53	8.9	n	n	n	n
06/11/03	*na*	*na*	*na*	*0.202*	*1.67*	*n*	*n*	*12.4*	*n*	*n*	*n*	*n*
09/15/03	814.49	7.20	0.903	n	1.4	n	n	2.9	n	n	n	n
09/15/03	*na*	*na*	*na*	*n*	*1.04*	*n*	*n*	*4.07*	*n*	*n*	*n*	*n*
12/04/03	815.65	7.44	0.711	n	1.7	n	n	1.3	n	0.92	n	n
12/04/03	*na*	*na*	*na*	*n*	*2.30*	*n*	*n*	*1.16*	*n*	*1.57*	*n*	*n*
03/17/04	813.13	7.34	0.822	n	0.75	n	n	3	n	n	n	n
03/17/04	*na*	*na*	*na*	*n*	*0.763*	*0.351*	*0.494*	*2.96*	*n*	*n*	*n*	*n*
06/09/04	813.09	8.05	0.635	n	0.88	n	0.36	5.4	n	n	n	n
06/09/04	*na*	*na*	*na*	*n*	*0.782*	*n*	*n*	*2.61*	*n*	*n*	*n*	*n*
09/13/04	812.29	7.43	0.674	n	0.60J	n	n	2.2	n	n	n	n
09/13/04	*na*	*na*	*na*	*n*	*0.636*	*n*	*n*	*2.07*	*n*	*n*	*n*	*n*
12/09/04	812.99	8.01	0.674	0.63	11	0.47	1.3	30	n	8.7	n	n
12/09/04	*na*	*na*	*na*	*0.811*	*12.3*	*0.526*	*1.86*	*36.2*	*n*	*15.6*	*n*	*n*
03/24/05	814.20	6.81	0.622	n	1.1	n	n	0.78	n	n	n	n
05/18/05	814.25	na	na	n	n	n	n	n	n	n	n	n
08/31/05	*na*	*na*	*na*	*n*	*1.52*	*0.372J*	*1.44*	*17.7*	*n*	*n*	*n*	*n*
08/31/05	813.23	7.30	0.723	n	1.40	n	n	13.7	n	n	n	n
12/15/05	813.35	6.67	0.633	n	n	n	n	n	n	n	n	n
03/28/06	814.16	7.35	0.568	n	0.30	n	n	0.28	n	n	n	n
03/28/06	*na*	*na*	*na*	*n*	*0.326J*	*n*	*n*	*0.345J*	*n*	*n*	*n*	*n*
06/21/06	814.12	7.12	0.534	n	0.23J	n	n	n	n	n	n	0.21J
09/12/06	813.29	7.18	0.492	n	0.54	0.22J	0.58	9.1	n	n	n	n
09/12/06	*na*	*na*	*na*	*n*	*0.504*	*0.282*	*1.44*	*13.4*	*n*	*n*	*n*	*n*
12/14/06	814.92	7.26	0.480	n	1.0	n	n	n	n	n	n	n
12/14/06	*na*	*na*	*na*	*n*	*0.310*	*n*	*n*	*0.357*	*n*	*n*	*n*	*n*
03/28/07	817.22	7.14	0.470	n	1.2	n	n	1.0	n	n	n	n
03/28/07	*na*	*na*	*na*	*n*	*1.20*	*n*	*n*	*0.885J*	*n*	*0.381J*	*n*	*n*
06/20/07	813.07	7.04	0.658	n	0.56J	n	n	5.2	n	n	n	n
06/20/07	*na*	*na*	*na*	*n*	*0.557J*	*n*	*n*	*3.49*	*n*	*n*	*n*	*n*
09/10/07	813.23	8.32	0.863	n	0.70J	n	n	18	n	n	n	n
12/12/07	815.15	7.94	0.562	n	0.83J	n	n	4.1	n	n	n	n
03/20/08	819.79	8.05	0.464	n	2.2	n	n	n	n	0.52J	n	n
06/18/08	814.99	7.75	0.894	n	n	n	n	3.1	n	n	n	n
09/10/08	812.57	7.17	0.641	n	n	n	n	7.2	n	n	n	n
12/11/08	811.94	7.24	0.631	n	n	n	n	15	n	n	n	n
03/24/09	813.64	8.23	0.549	n	0.54J	n	n	1.0J	n	n	n	n
06/18/09	813.40	7.42	0.647	n	n	n	n	1.8	n	n	n	n
09/09/09	813.62	7.08	0.623	n	n	n	n	2.4	n	n	n	n
12/15/09	813.43	6.90	0.616	n	n	n	n	3.5	n	n	n	n
03/24/10	815.58	7.40	0.585	n	0.99J	n	n	1.4	n	n	n	n
06/15/10	817.24	7.24	0.668	n	1.3	n	n	n	n	n	n	n
09/14/10	812.76	7.50	0.532	n	n	n	n	n	n	n	n	n
12/14/10	813.58	7.23	0.642	n	n	n	n	10	n	n	n	n
03/28/11	814.98	7.21	1.06	n	2.9	n	n	5.7	n	n	n	n
06/20/11	814.83	7.13	0.689	n	n	n	n	1.4	n	n	n	n
09/08/11	812.78	7.23	0.575	n	1.1	n	n	98	n	n	n	n

All data in ppb unless noted
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n = Not detected at method detection limit
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

OEPA-4
(Franklin & Mulberry)
TOC ELEV: 833.22

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
07/09/02	nr	nr	nr	n	n	7.9	n	n	n	n	n	n
07/09/02	*815.08*	*na*	*na*	*n*	*n*	*11*	*n*	*n*	*n*	*n*	*n*	*n*
09/04/02	814.16	7.31	0.741	n	n	8.8	n	n	n	n	n	n
09/04/02	*na*	*na*	*na*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	8.6	n	n	n	n	n	n
09/16/03	*816.93*	*7.38*	*1.02*	*n*	*n*	*12.2*	*n*	*n*	*n*	*n*	*n*	*n*
06/08/04	*815.81*	*7.31*	*1.41*	*n*	*n*	*9.99*	*n*	*n*	*n*	*n*	*n*	*n*

OEPA-5
(Franklin & Crawford - SE Corner)
TOC ELEV: 830.29

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	n	310	n	n	n	n	n	n
06/12/03	*815.07*	*6.91*	*1.12*	*n*	*n*	*359*	*n*	*2.38*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	340	n	n	n	n	n	n
09/16/03	*816.45*	*??*	*??*	*n*	*n*	*448*	*n*	*3.41*	*n*	*n*	*n*	*0.321T*
06/08/04	*815.29*	*7.44*	*1.28*	*n*	*n*	*612*	*n*	*4.10*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*n*	*500*	*n*	*2.59J*	*n*	*n*	*n*	*n*

OEPA-6
(Franklin & Crawford - NW Corner)
TOC ELEV: 831.62

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	n	300	n	3.4	n	n	n	n
06/12/03	*815.18*	*6.79*	*1.09*	*n*	*n*	*365*	*n*	*4.28*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	520	n	n	n	n	n	n
09/16/03	*816.55*	*7.22*	*0.896*	*n*	*n*	*663*	*n*	*4.01*	*n*	*n*	*n*	*0.425T*
06/08/04	*815.40*	*7.43*	*1.13*	*n*	*n*	*653*	*n*	*3.67*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*n*	*459*	*n*	*2.47J*	*n*	*n*	*n*	*n*

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

OEPA-7
(Clay & Franklin)
TOC ELEV: 833.52

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	n	620	n	5	n	n	n	n
06/12/03	*815.38*	*6.92*	*1.37*	*n*	*n*	*661*	*n*	*4.91*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	610	n	n	n	n	n	n
09/16/03	*816.71*	*7.30*	*0.824*	*n*	*n*	*746*	*n*	*7.49*	*n*	*n*	*n*	*0.307T*
06/08/04	*815.59*	*7.42*	*1.31*	*n*	*n*	*808*	*n*	*6.99*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*n*	*801*	*n*	*n*	*n*	*n*	*n*	*n*

OEPA-8
(Water Street - Spinnaker)
TOC ELEV: 828.58

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	0.56	49	n	1.4	n	n	n	n
06/12/03	*814.46*	*4.06*	*0.85*	*n*	*0.762*	*60.5*	*n*	*1.91*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	50	n	1.9	n	n	n	n
09/16/03	*815.81*	*7.13*	*0.599*	*n*	*0.389*	*72.9*	*n*	*1.72*	*n*	*n*	*n*	*0.403T*
06/09/04	na	na	na	n	n	39	n	1.3	n	n	n	n
06/09/04	*814.50*	*7.50*	*0.713*	*n*	*0.564*	*44.0*	*n*	*1.63*	*n*	*n*	*n*	*n*
06/22/06	815.67	6.81	0.789	n	9.5	3.3	n	n	n	n	n	0.25

OEPA-9
(Water Street - Hobart Cabinet East)
TOC ELEV: 830.41

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	n	63	n	6.2	n	n	n	n
06/12/03	*815.15*	*6.75*	*0.98*	*n*	*n*	*84.3*	*n*	*9.06*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	63	n	12	n	n	n	n
09/16/03	*816.42*	*7.22*	*0.527*	*n*	*n*	*91.5*	*n*	*12.3*	*n*	*n*	*n*	*0.489T*
06/09/04	na	na	na	n	n	51	n	6.8	n	n	n	n
06/09/04	*815.17*	*7.33*	*0.928*	*n*	*n*	*65.8*	*n*	*8.48*	*n*	*n*	*n*	*n*
06/22/06	815.82	6.89	0.812	n	n	10	n	1.4	n	n	n	0.32

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit

KIMBERLY-CLARK CORPORATION
BROWN BRIDGE FACILITY
TROY, OHIO
GROUNDWATER SAMPLING ANALYSIS RESULTS

OEPA-10
(Water Street - Catholic School)
TOC ELEV: 829.71

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/12/03	na	na	na	n	n	52	n	1.8	n	n	n	n
06/12/03	*814.93*	*6.75*	*0.97*	*n*	*n*	*66.4*	*n*	*2.58*	*n*	*n*	*n*	*n*
09/16/03	na	na	na	n	n	45	n	3.1	n	n	n	n
09/16/03	*816.25*	*6.88*	*0.959*	*n*	*n*	*63.7*	*n*	*2.87*	*n*	*n*	*n*	*0.469T*
06/09/04	na	na	na	n	n	37	n	2.6	n	n	n	n
06/09/04	*815.00*	*7.29*	*0.790*	*n*	*n*	*49.1*	*n*	*3.47*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*7.87*	*34.0*	*n*	*1.97*	*n*	*n*	*n*	*n*
06/22/06	815.68	7.18	0.523	n	1.8	9.4	n	0.36	n	n	n	0.24J

OEPA-11
(Walnut Street - Troy Police Department)
TOC ELEV: 832.46

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/08/04	*815.18*	*7.21*	*1.58*	*n*	*n*	*193*	*n*	*7.55*	*n*	*n*	*n*	*n*
01/03/06	*na*	*na*	*na*	*n*	*n*	*493*	*n*	*15.0*	*n*	*n*	*n*	*n*

OEPA-12
(Water Street - Hobart Cabinet)
TOC ELEV: 830.89

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/09/04	na	na	na	n	n	17	n	5.2	n	n	n	n
06/09/04	*814.72*	*7.41*	*0.674*	*n*	*n*	*25.1*	*n*	*7.45*	*n*	*n*	*n*	*n*
06/22/06	815.19	7.04	0.536	n	n	5.0	n	2.6	n	n	n	0.72

OEPA-13
(Water Street - Hobart Cabinet West)
TOC ELEV: 830.29

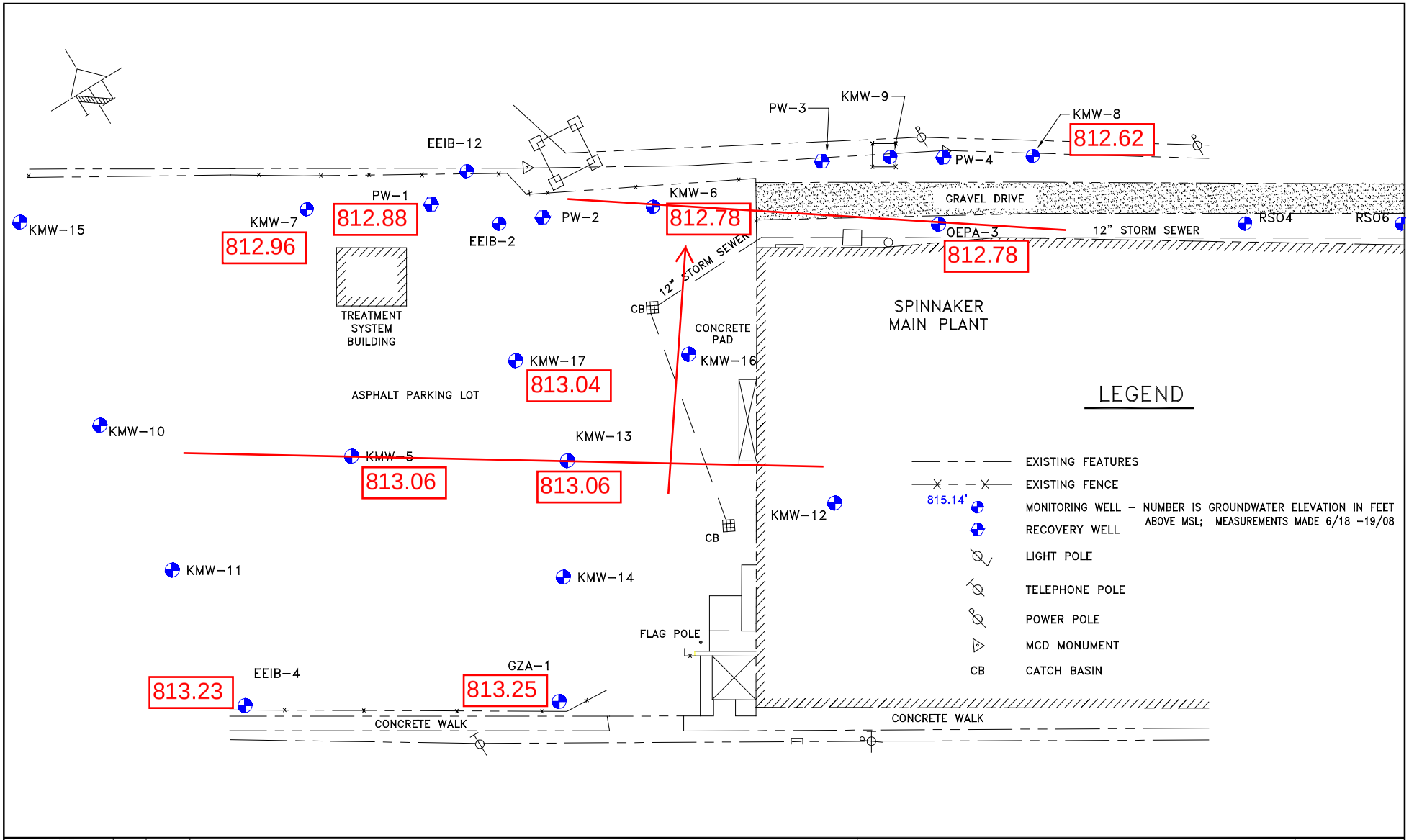
Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/09/04	na	na	na	n	n	n	n	n	n	n	n	0.35
06/09/04	*812.08*	*7.47*	*0.669*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*	*n*
06/22/06	812.58	6.98	0.668	n	n	n	n	n	n	n	n	0.35

OEPA-14
(Franklin & Crawford - City of Troy Deep MW)
TOC ELEV: ???.??

Date	W.L.	pH,units	Sp.Cond. mmhos	1,1-Di-chloro ethane	Cis-1,2-Dichloro ethene	Tetra chloro ethene	1,1,1-Tri chloro ethane	Tri chloro ethene	Chloro ethane	Vinyl Chloride	Benzene	Toluene
06/08/04		*7.48*	*0.781*	*n*	*n*	*0.713*	*n*	*n*	*n*	*n*	*n*	*n*

All data in ppb unless noted
italics - sampled by OEPA
n = Not detected at method detection li
nr = Not reported or not tested

B,T = Analyte detected in laboratory method blank (B) or trip blank (T)
D = Duplicate sample analysis
E = Estimated concentration - exceeds instrument calibration range
J = Estimated concentration below quantitation limit



SCALE 1" = 30'	NO.	DATE	REVISION DESCRIPTION	Mill Creek Environmental Services — Dawsonville Georgia	SPINNAKER WEST END KIMBERLY-CLARK CORPORATION TROY, OHIO	DATE JUNE 2008
DWN. BY AJM						DWG. NO. R32
CHK'D. BY NJ						SHEET NO. 3 OF 4
APPR. BY SSM						

Groundwater Elevations on September 8, 2011

August 18, 2008

Via Fax: 312 904-6450

Mr. Douglas C. Colletti
Sr. Vice President, Senior Client Mgr.
Business Finance Division, Business Capital
Bank of America
135 South LaSalle Street
Chicago, IL 60603-4105

Re: Notice to LaSalle Business Credit, LLC of Spinnaker Coating, LLC's Receipt of Special Notice Letter Involving the East Troy Contaminated Aquifer Site

Dear Doug:

This written communication shall serve as notice to LaSalle Business Credit, LLC ("LaSalle"), pursuant to section 12(b)(vi) of the Amended and Restated Loan and Security Agreement, dated September 18, 2007, by and between LaSalle and Spinnaker Coating, LLC (the "Company"), that the Company received a Special Notice Letter ("Letter") from U.S. EPA on August 14, 2008, in conjunction with U.S. EPA's and the Ohio EPA's investigation of residual environmental contaminants within the City of Troy. This written notice supplements my telephone conversation with you on Friday, August 15, 2008, during which I apprised you verbally of the Company's receipt of the Letter.

The Special Notice Letter is directed to the Kimberly-Clark Corporation ("K-C"), Hobart Cabinet Company, the SKK, Inc. Liquidation Trust (hereinafter referred to as the "Liquidation Trust," which is the entity created to complete the bankruptcy liquidation of Spinnaker Coating, Inc., which is discussed below), and the Company (collectively, the potentially responsible parties ("PRPs")). The Letter requests the PRPs: (1) to reimburse the U.S. EPA for past response costs that U.S. EPA incurred while investigating the presence of contaminants within a 12 block area of the City of Troy, and (2) to conduct a remedial investigation and a feasibility study to identify the extent of contaminants within that area and to study remedial alternatives to eliminate or minimize their impact. The Company's Plant 1 property located at 518 E. Water St., Troy, OH (the "Property") is

included within the 12 block area that has been designated as the "Site" for purposes of the remedial investigation and feasibility study.

With specific regard to the Property, contaminants were first discovered in 1993, in conjunction with a site investigation conducted by K-C as it prepared to sell its Troy adhesive coating operations, which it had acquired in 1971. As part of the sale in 1994 of its adhesive coating operations to Brown Bridge Industries, Inc. (which changed its name in 1997 to Spinnaker Coating, Inc. (hereinafter "Old Spinnaker")), K-C agreed to remediate the soil and groundwater contamination post-closing after making full disclosure to Ohio EPA of the contamination, prior to the sale. K-C commenced remedial activities in 1995 by removing contaminated soil and treating groundwater. In 2001, the Ohio EPA issued an administrative order ("Order") requiring K-C to continue to treat groundwater until acceptable remedial goals were achieved. Old Spinnaker was not named as a party to the Order.

Old Spinnaker filed for bankruptcy on November 13, 2001. The Company purchased certain of the assets (including the Property), and assumed certain of the liabilities, of Old Spinnaker on March 28, 2002, in an arms-length transaction in an auction process conducted pursuant to the bankruptcy code under the supervision of the bankruptcy court.

Investigative activities conducted by K-C on the Property (commencing when Old Spinnaker owned the Property, but continuing after the Property was subsequently acquired by the Company, as described above) alerted Ohio EPA to the migration of similar contaminants onto the Property from unidentified upgradient sources. As a result, Ohio EPA requested U.S. EPA's financial, technical, and legal assistance to identify the source(s) of the upgradient contaminants and to implement a remedy to address them. In September 2006, U.S. EPA issued Requests for Information to K-C, Hobart Cabinet Company, Old Spinnaker, the Company, and approximately thirty other entities. Following its review of the submissions, U.S. EPA issued a General Notice Letter in May 2007 to K-C and Hobart Cabinet Company identifying them as PRPs and requesting their funding of U.S. EPA's investigative and removal activities. The Company was <u>not</u> identified as a PRP or issued a General Notice Letter at that time.

With the issuance of this recent Special Notice Letter, the Company, for the first time, has been identified as a PRP and potentially could have some legal obligation to U.S. EPA to contribute and/or participate in the investigation of the 12 block area and the study of remedial alternatives. The legal obligation stems from its "current ownership" of the property and not any disposal activity or release during its ownership. Consequently, construing the notice provision set forth in 12(b)(vi) of our loan agreement as broadly as possible, Spinnaker hereby informs you of its receipt of the Letter, which (together with attachments) is being forwarded to you under separate cover today. We are also providing you with a proposed amended Schedule 11(t) for your consideration and eventual incorporation into our loan agreement.

The Company has informed its environmental counsel of its receipt of the Letter. Counsel will initiate communications with U.S. EPA this week and we will work together to minimize Spinnaker's exposure and maintain its standing with regulators. Based on the underlying facts, I believe that we should be able to avoid any significant liability in this matter.

Please do not hesitate to contact me if I can be of any further information or assistance. Otherwise, I will keep you informed as developments occur.

Sincerely,

Louis A. Guzzetti, Jr.
Chairman & CEO

Cc: Grant W. Wilkinson, Esq., Environmental Counsel

[Proposed Amendments in Bold Type]

Schedule 11(t)
Environmental Exceptions

[Orders – the matter previously disclosed has been resolved and can be eliminated]

[Potential Enforcement Action – the matter previously disclosed has been resolved and can be eliminated]

Investigations

As a condition of Kimberly-Clark Corporation's ("KCC") sale of the assets and operations in 1994, KCC agreed to remediate soil and groundwater contamination at Plant 1. During KCC's implementation of the remedial activities, the Ohio EPA issued an Order to KCC in 2001 requiring KCC to achieve specified groundwater contaminant standards prior to ceasing its remedial activities. Spinnaker **Coating, LLC ("Spinnaker")** is not a party to the Order and bears no responsibility for the remediation. On July 26, 2007, the Ohio Environmental Protection Agency in conjunction with KCC conducted a groundwater sampling event in an isolated location at Spinnaker's Plant 1. The data was collected by the parties to evaluate the propriety of KCC's request to cease pump and treat activities at the site and to deem remedial activities complete.

As previously reported in Spinnaker's September 12, 2006, notice to LaSalle, U.S. EPA has initiated an investigation in conjunction with the Ohio EPA to identify the source(s) of perchloroethylene contamination that have impacted groundwater in limited areas within the City of Troy. Previous investigations by Ohio EPA and KCC documented perchloroethylene contamination in low level concentrations in monitoring wells along the upgradient borders of Spinnaker's site, indicating that perchloroethylene has migrated onto the Spinnaker site from off-site sources. Spinnaker has never used perchloroethylene in its operation and there is no information that documents or suggests that previous property owners (namely KCC and the former Spinnaker Coating, Inc., which purchased the Plant 1 property from KCC in 1994) used perchloroethylene. Spinnaker, along with thirty other entities, responded to U.S. EPA's September 6, 2006, Request for Information in conjunction with its investigation. Following **U.S. EPA's review** of their responses, U.S. EPA **identified** certain responders **as potentially responsible parties ("PRPs") and requested their participation in the funding of U.S. EPA's environmental** initiative **via a General Notice Letter dated May 17, 2007**. Spinnaker received no such request.

On August 14, 2008, Spinnaker received a Special Notice Letter ("Letter") from U.S. EPA identifying KCC, Hobart Cabinet Company, the SKK, Inc. Liquidation Trust (the entity created to complete the bankruptcy liquidation of Spinnaker Coating, Inc.), and Spinnaker as potentially responsible parties for performing and funding certain investigative activities pursuant to the Comprehensive Environmental Response Compensation and Liability Act. Specifically, the letter requests that the PRPs: (1) reimburse the U.S. EPA for past response costs that U.S. EPA incurred while investigating the presence of contaminants within a 12 block area of the City of Troy, and (2) conduct a remedial investigation and a feasibility study to identify the extent of contaminants within that area and to study remedial alternatives to eliminate or minimize the contaminants' impact (the Spinnaker property is included within the 12 block area that has been designated as the "Site" for purposes of the remedial investigation and feasibility study). Spinnaker has informed its environmental counsel of its receipt of the Letter. Counsel has initiated communications with U.S. EPA and we will work amicably with agency personnel in an effort to minimize Spinnaker's exposure and maintain its standing with regulators.

GRANT W. WILKINSON & ASSOCIATES, LLC
29861 OREGON ROAD
UNIT 47
PERRYSBURG, OH 43551
(419) 261-5494
F: (419) 720-3646
wilkinson@bex.net

Submitted in Conjunction with Request for
Confidential Treatment Pursuant to 40
C.F.R. 2.203(b) by Spinnaker Coating, LLC
By Way of an Accompanying Letter Dated
August 21, 2008 from Louis A. Guzzetti,
Chairman/CEO of Spinnaker Coating, LLC

August 21, 2008

Stuart P. Hersh, Esq.
Associate Regional Counsel
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard (SR-6J)
Chicago, IL 60604-3590

Re: Response to Special Notice Letter (East Troy Aquifer Site)
Request for Financial Hardship Package
Request to Classify Spinnaker Coating, LLC as DeMinimis Party

Dear Stuart:

The undersigned represents Spinnaker Coating, LLC. My client and I are in receipt of Wendy Carney's Special Notice Letter dated August 6, 2008 regarding the East Troy Contaminated Aquifer Site. My client received the package on Thursday, August 14, 2006.

The purposes underlying this correspondence are two. First, it is intended to restate some critically pertinent facts that may alter U.S. EPA's decision to include Spinnaker Coating, LLC in the proposed Administrative Order on Consent or, at the very least, accord it a different status for purposes of settlement. Second, this correspondence respectfully requests that U.S. EPA forward to the undersigned a description of U.S. EPA's financial review process (as referenced on page 5 of Ms. Carney's letter) and any applications or forms that must be submitted to demonstrate financial hardship/inability to pay.

History and Activities of Facility Owners/Operators

Between 1971 and 1994, the facility located at 518 E. Water Street, Troy, Ohio housed the Brown-Bridge division of the Kimberly Clark Corporation. The Kimberly Clark Corporation owned and operated the facility. Inside, it manufactured solvent-based, pressure sensitive, adhesive coated paper stock. By its own assessments and reports, inadvertent spills/releases to the environment occurred during its ownership and operation of the facility.

In 1994, the Brown-Bridge Division of Kimberly-Clark was sold to Brown-Bridge Industries, Inc. Over a period of several years, Brown-Bridge Industries, Inc. (which changed its name in 1997 to Spinnaker Coating, Inc. and will hereinafter be referred to as "Old Spinnaker") began to eliminate the manufacture of solvent-based, pressure sensitive, adhesive coated paper stock, replacing it with water based, adhesive coated paper stock. On November 13, 2001, Old Spinnaker, together with its parent and affiliated companies, filed for bankruptcy and began the process of liquidation; that process is now only nearing completion. It should be noted that, from the time that it commenced operations in 1994, through the time that it ceased operations on March 27, 2002, Old Spinnaker did not experience or report any inadvertent spills/releases of any product or waste stream to the environment.

On March 28, 2002, Spinnaker Coating, LLC, a new company formed by independent financial investors, purchased certain of the assets of Old Spinnaker (including the 518 E. Water Street facility), in a bona fide, court-supervised auction process authorized by the U.S. bankruptcy code. At the time of the purchase, Old Spinnaker's operations at the 518 E. Water Street facility had been converted entirely to a water-based, adhesive coating operation. In fact, Spinnaker Coating, LLC has never had to operate any air control technology, discharge any non-conventional pollutants to Troy's POTW, generate any hazardous waste, submit a hazardous chemical inventory to the SERC, LEPD, or local fire department, or file an annual hazardous chemical inventory pursuant to Section 313 of SARA. Although Spinnaker Coating, LLC is unable to opt out of the title V program ("once in, always in"), its air contaminant sources -- when considering their potential to emit -- technically are no longer major sources. Most importantly, since the time of the asset purchase in 2002, Spinnaker Coating, LLC has not experienced an inadvertent spill/release of any kind.

Determination of Liability

Spinnaker Coating, LLC notes and appreciates U.S. EPA's assurance in Ms. Carney's August 6, 2008 correspondence that "[i]nclusion on, or exclusion from, the list does not constitute a final determination by U.S. EPA concerning the liability of any party for the release or thereat of release of hazardous substances at the Site." (Carney Letter, p.4). With that in mind, it wishes to question its inclusion in the Special Notice Letter.

First, U.S. EPA did not issue to, or include, Spinnaker Coating, LLC in the agency's May 17, 2007 General Notice Letter. The Special Notice Letter indicates that Spinnaker Coating, LLC had received previously a General Notice Letter. It did not.

Second, in at least two instances, U.S. EPA confuses Spinnaker Coating, LLC with "Spinnaker Coating, Inc." (which is being referred to in this letter as "Old Spinnaker"). In U.S. EPA's Statement of Work and Site Summary, U.S. EPA states that Spinnaker, Inc. (presumably intending to refer to "Spinnaker Coating, Inc.") owned the property in which solvent contaminated soils existed. That is correct. However, "Spinnaker Coating, Inc." is not Spinnaker Coating, LLC. Spinnaker Coating, LLC and "Spinnaker Coating, Inc." are two distinct entities that do not, and never had, a legal relationship or common ownership.

Third, Spinnaker Coating, LLC does not fall within the class of parties whom U.S. EPA identifies as responsible. Paragraph 28 states that "[e]ach Respondent is either a person who generated the hazardous substances found at the Site, *or a person who at the time of disposal of any hazardous substance at the Site owned or operated a facility*, . . . or a person who arranged for disposal or transport for disposal of hazardous substances at the Site." (Paragraph 28, p. 8, *emphasis added*). Spinnaker Coating, LLC does not fall within that class because no hazardous substance was ever disposed of at the site by any party during its period of ownership.

But for its status as a "current owner", Spinnaker Coating, LLC would have no responsibility to U.S. EPA in conjunction with its facility or this Site. Spinnaker Coating, LLC has never used any of the contaminants of concern in its operation (i.e., tetrachloro-ethene or trichloroethene). It has never generated a hazardous substance. It did not arrange for the transportation or disposal of a hazardous substance to or from or at the site. It did not own or operate the facility when the spill/release of the hazardous substance occurred. It has had no involvement -- direct or indirect – with any hazardous substance(s). Inclusion of an entity within an Administrative Order – despite its legal status – is not mandatory. (e.g., when the Director of Ohio EPA issued its Final Findings and Orders to Kimberly Clark in March 2001, it elected not to include Old Spinnaker within the Final Findings and Orders.) Ultimately, Spinnaker Coating, LLC understands that the decision to include it rests within the sound discretion of the U.S. EPA. Spinnaker Coating, LLC simply asks that U.S. EPA give additional consideration to the above facts. Based upon those facts, Spinnaker Coating, LLC should be excluded from the proposed Administrative Order on Consent.

De Minimis Status

In the event that U.S. EPA maintains that it is in the parties' collective best interests to include Spinnaker Coating, LLC in an Administrative Order on Consent, Spinnaker Coating, LLC requests, in light of the above identified facts, that it be accorded the status of a De Minimis party, pursuant to the applicable provisions of CERCLA Section 122 (g), or any other applicable statutory section, regulation, or policy. Quite simply, Spinnaker Coating, LLC's contribution to the site is zero hazardous

substances. In addition to the absence of any environmental impacts by the company, its financial condition likely merits Spinnaker Coating, LLC's classification as a De Minimis party.

Financial Hardship

In October 2006, Spinnaker Coating, LLC provided financial statements as part of its initial response to U.S. EPA's September 2006 Request for Information pursuant to Section 104 of CERCLA. Those financial statements revealed that the company had struggled to achieve profitability since it commenced operations in March 2002. The company did have its first good year in 2006, but its performance began to weaken again in mid-2007, commensurate with the economy's decline, and this year it has been operating at a net loss. In fact, Spinnaker Coating, LLC is currently in the process of seeking its lender's waiver of its breach of a financial covenant for the quarter ended June 30, 2008. Absent that consent, the company would not have sufficient liquidity to continue to run its business. The degree of the company's involvement and responsibility in this matter would obviously be a critical factor in any lender's willingness to continue to finance its activities.

Spinnaker Coating, LLC clearly does not have the ability to pay past or future response costs or fund a Remedial Investigation and Feasibility Study (RI/FS) and still maintain basic business operations. That is not to say that it could not contribute in other ways (e.g., unfettered access to its property, reasonable maintenance of a control on its property, etc.).

In light of the above, the undersigned, on behalf of Spinnaker Coating, LLC, respectfully requests that U.S. EPA forward – as soon as possible – a description of U.S. EPA's financial review process (as referenced on page 5 of Ms. Carney's letter) and any applications or forms that must be submitted to invoke a financial hardship/inability to pay claim so that Spinnaker may provide that information to U.S. EPA immediately.

I would also like to emphasize the fact that, despite its inability to this date to achieve a consistent level of profitability since it commenced operations in March 2002, Spinnaker Coating, LLC (which currently employs 235 people) has made, and continues to make, a significant contribution to its local and state economies.

Conclusion

Spinnaker Coating, LLC appreciates and senses U.S. EPA's urgency regarding the East Troy Contaminated Aquifer Site. In that regard, it has every intention of working in good faith with U.S. EPA, as it has with Ohio EPA, to provide open and easy access to the its property to enable U.S. EPA and its representatives to pursue their investigative and remedial activities.

It is also prepared to provide all relevant information and documentation to U.S. EPA that agency personnel deem necessary to evaluate Spinnaker Coating, LLC's current

financial condition, as well as the impact that a decision regarding its status in this matter could have on its ability to continue as a going concern. In that regard, Spinnaker also believes that an open exchange of the facts and circumstances that accurately correlate an entity's acts with the impact of those acts upon the environment, are critical to the agency's determination of what Spinnaker Coating, LLC's status in this matter should be.

Please review this correspondence and share it with those of your colleagues as necessary. I will call you later this afternoon. This correspondence is simply intended to apprise U.S. EPA of Spinnaker Coating, LLC's initial concerns and thoughts involving its classification and to request U.S. EPA's provision of the financial hardship package.

As an aside, I ask that U.S. EPA update its records and incorporate the above address and contact information (fax and telephone numbers) for the purpose of future communication.

Very truly yours,

[s] Grant W. Wilkinson

Grant W. Wilkinson

Enclosure: (Accompanying Letter Requesting
Confidential Treatment of this Communication)

Cc: Louis A. Guzzetti, Chairman/CEO, Spinnaker

Kimberly-Clark

Howard L. Sharfstein
Senior Counsel

Ms. Shari Kolak
U.S. EPA Region 5
77 West Jackson Blvd.
Chicago, IL 60604-3507

April 21, 2011

Re: Comments on Phase I Field Sampling Plan
East Troy Contaminated Aquifer Site
Troy, Miami County, Ohio

Dear Ms. Kolak,

Please find enclosed Kimberly-Clark Corporation's ("Kimberly-Clark"), comments on the above-referenced Phase I Field Sampling Plan, prepared by SulTRAC, dated August 2010 ("Field Sampling Plan"). These comments address the following issues:

1. The Field Sampling Plan fails to acknowledge the significance of extensive existing data that has identified an upgradient source of the TCE and cDCE on the Spinnaker property. As a result, the Field Sampling Plan inappropriately focuses on a separate, hypothetical "Spinnaker plume," and fails to appropriately investigate additional upgradient sources.

2. The Field Sampling Plan fails to adequately investigate additional potential sources of groundwater contamination on the east side of the Great Miami River.

3. The Field Sampling Plan mischaracterizes documents and presentations prepared by, or on behalf of Kimberly-Clark; this material does not support the existence of a separate "Spinnaker plume."

4. We have included additional, general comments regarding the Field Sampling Plan.

Kimberly-Clark appreciates this opportunity to submit the attached comments. We would appreciate having the opportunity to meet with you in Troy or at your office in Chicago to discuss these comments and our suggestions on how to improve the sampling plan.

Please feel free to contact Cindy Jernigan, Kimberly-Clark Remediation Program Manager, at 770-587-7014 if you have any questions concerning this submittal or need any additional information. You may also contact our consultant, Steve McFadden at 770-363-1692.

Sincerely,

Howard L. Sharfstein
Senior Counsel

cc: Cindy Jernigan
Steve McFadden
Linda Benfield, Esq.

Kimberly-Clark Corporation 1400 Holcomb Bridge Road Roswell, Georgia 30076-2199

KIMBERLY-CLARK CORPORATION COMMENTS
ON THE PHASE 1 FIELD SAMPLING PLAN
EAST TROY CONTAMINATED AQUIFER SITE
TROY, MIAMI COUNTY, OHIO

I. THE FIELD SAMPLING PLAN FAILS TO ACKNOWLEDGE THE UPGRADIENT SOURCES OF GROUNDWATER CONTAMINATION ON THE SPINNAKER PROPERTY.

Kimberly-Clark has completed extensive investigations, remediation, and evaluations of the Spinnaker property and has provided EPA with this information in the form of technical reports and presentations. One of the primary conclusions of this body of work is that current groundwater conditions on the Spinnaker property are the result of the migration of PCE onto the property from an upgradient source and PCE degradation that results in the observed concentrations of chlorinated VOCs on, and downgradient from, the Spinnaker property. There is nothing in the Field Sampling Plan, and no work proposed in Phase I of the RI, that supports, contradicts, evaluates or acknowledges this well-documented and most probable interpretation of current conditions on the Spinnaker property. It is our opinion that the RI cannot be complete if it does not address this source.

The "Spinnaker plume" is described in the Field Sampling Plan as "known"; however, there is no scientific support included in the Field Sampling Plan for this conclusion. Instead, there are a series of unsupported statements and implications. As currently written, the Field Sampling Plan is based on a theory that a diving plume of PCE moves vertically under the Spinnaker property, reappearing on the downgradient side of the property (or other side of the Great Miami River) to explain why PCE disappears on the Spinnaker property and is replaced by TCE and cDCE, both known PCE breakdown products.

The absence of a separate "Spinnaker plume' is supported by the following:

- The Field Sampling Plan states that the detected presence of TCE in soil on the Spinnaker property is a basis for the "Spinnaker plume" (Section 2.1, p. 10 and Section 2.2, p. 19). However, the presence of TCE in soil is not conclusive evidence of an impact to groundwater quality.

- The Field Sampling Plan implies that a former rail spur along the northern property boundaries of the Hobart and Spinnaker properties may be the source of the "Spinnaker plume" (Section 2.2, p. 17). It further implies that TCE detected in soil behind the Hobart Cabinet facility near this former rail spur indicates that this area is part of the "Spinnaker plume". However, this ignores other, more probable sources of TCE at this location, including: a) the degradation of PCE, and; b) the fact that industrial-grade PCE (i.e. the product used by Hobart Cabinet, the various former dry cleaners and other potential sources in Troy) is not pure, but contains other chlorinated VOCs including TCE.

- The Field Sampling Plan also implies that the former Waltz dry cleaning location on the west side of the Spinnaker property is associated with PCE detections in groundwater (Section 1, p. 3, and Table 7, p. 38). However, the vast majority of PCE in shallow

groundwater on the west side of the Spinnaker property, both in terms of number of detections and concentration, is upgradient of this former Waltz dry cleaner location. Detections of PCE downgradient of the former Waltz dry cleaner location are completely consistent with an upgradient (i.e. west or southwest of the Spinnaker property) source. Note that this dry cleaner was in operation at this location for only four or five years before moving to another location in Troy. Extensive soil and groundwater data from the Spinnaker property provide no indication that this former Waltz dry cleaner is a source of PCE.

- The Field Sampling Plan states that the source of TCE in areas upgradient of the Spinnaker property (the "Residential plume" and "Water Street plume") is the degradation of the PCE plumes in this area. As demonstrated by field measurements in these upgradient areas, including the most recent measurements by SulTRAC, geochemical conditions are less favorable for the biodegradation of PCE to TCE. However, in downgradient areas of the Spinnaker property, where years of field measurements confirm geochemical conditions are highly favorable for the biodegradation of PCE to TCE and other daughter products, there is no acknowledgement that this is a potential source of the TCE and other chlorinated VOCs. The Field Sampling Plan, and the scope of the RI, includes nothing to evaluate, support or refute this very probable source of TCE and other chlorinated VOCs on the Spinnaker property.

- For the past several years, and especially since early 2006 when Hobart Cabinet stopped using PCE, concentrations of PCE in shallow groundwater entering the Spinnaker property from upgradient have been decreasing. Concentrations of TCE, cDCE and vinyl chloride in what the Field Sampling Plan describes as the known "Spinnaker plume" have decreased in perfect correlation with these decreasing PCE concentrations. In fact, TCE concentrations in shallow groundwater on the Spinnaker property have decreased to the point where they are practically identical to TCE concentrations in the "Water Street plume" that the Field Sampling Plan attributes to the degradation of PCE. This correlation would not be expected if there were a "Spinnaker plume," separate from the "Water Street plume".

- Cis-1,2-dichloroethene in shallow groundwater on the Spinnaker property is described in the Field Sampling Plan as part of the "Spinnaker plume". However, the highest concentrations of this compound, by very substantial amounts, are along the upgradient Spinnaker property boundary.

- As a general conclusion for <u>all</u> constituents detected in shallow groundwater on the Spinnaker property, the mass of PCE (and other chlorinated VOCs) entering the property from upgradient source(s) is more than sufficient to cause the observed concentrations.

- Analyses of samples from deeper wells on the Spinnaker property demonstrate that contamination is present only in shallow groundwater of the upper aquifer. These include samples from Spinnaker's two production wells and OEPA monitoring well RS06, which has been sampled 40 times since its installation in 2000. No contaminants of concern have been identified in any of these three wells

If EPA has scientific data and interpretation to support the presence of the "Spinnaker plume" as separate and distinct from the upgradient PCE plume along Water Street, Kimberly-Clark requests that the agency provide it.

Potential sources of PCE have been identified in the area of Troy upgradient (west and southwest) of the Spinnaker property, including several former dry cleaning operations and releases to the sanitary sewer system. The Field Sampling Plan acknowledges these potential sources but does not propose a sufficient investigation to evaluate/locate them. For example, the former canal and mill race are mentioned in the Field Sampling Plan as potential sources of contamination, but dismissed as a target of the Phase I RI because the location of these features does not appear to fit the currently known extent of the PCE plume (Section 2.1, p. 9). However, the extent of PCE contamination in shallow groundwater in Troy is not yet well defined and the current plume maps (Figures 4, 6 and 7) are known to be inaccurate. The canal and race ceased operation in the early 1900s, before chlorinated solvents came into use in the United States. However, longtime residents of Troy have described sections of the former canal and race as still being open trenches well into the 1950s and 1960s. As was not uncommon in that time period before environmental regulation, these areas became convenient disposal sites. It is not known whether there was any effort to clean these areas before the final sections of the canal and race were filled.

II. THE FIELD SAMPLING PLAN SHOULD INCLUDE A SUFFICIENT INVESTIGATION OF OTHER POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION ON THE EAST SIDE OF THE GREAT MIAMI RIVER.

The proposed investigation on the east side of the Great Miami River is inadequate to achieve the objective stated in the Field Sampling Plan (i.e. well 10, Table 8, p 47, *"Evaluate possible presence of source areas east of Great Miami River and vertical gradients."*).

Cis-1,2-dichloroethene (cDCE) has been detected in very low concentrations in samples collected from two wells in the City of Troy's East Wellfield (wells 14 and 18). The Field Sampling Plan proposes a single well cluster, comprised of one shallow (water table) monitoring well and one deep (depth of Troy's production wells) monitoring well, to evaluate the presences of VOC sources on the east side of the Great Miami River. In our experience, a single well cluster is not adequate to evaluate the presence of VOC sources on the east side of the Great Miami River. (By way of comparison, the west side of the river already has more than 50 monitoring wells and the source(s) are still unknown). The very way in which this evaluation is presented in the Field Sampling Plan seems to reflect a bias that EPA has already decided that the source of cDCE detections is on the west side of the river (i.e. Section 4.5.3, p. 51, *"Additional groundwater data are needed to confirm that the contamination detected in the East Wellfield is originating west of the Great Miami River".*). The problem with this evaluation (and bias) from a technical standpoint is that it is a one-sided test. If target VOCs are found in the location of this well cluster, the Field Sampling Plan calls for possible further evaluation of VOC sources on the east side of the river in Phase II of the RI. No course of action is described if no VOCs are detected in samples from the proposed new well cluster; presumably, the conclusion will be that the source is on the west side of the river without considering the possibility that a single monitoring location simply missed detecting VOCs originating on the east side of river.

Without respect to the limitations of a single monitoring location described above, the location proposed, north of well 14, is not the most likely location to detect VOCs based on currently available data. Cis-1,2-dichloroethene has rarely been detected in samples from well 14 and has not been detected since May 2005. Detections of cDCE are far more common in samples from well 18. Furthermore, north is probably not directly upgradient, which is more likely to be northwest.

III. THE MATERIALS PREVIOUSLY PREPARED BY KIMBERLY-CLARK DO NOT SUPPORT THE EXISTENCE OF A SEPARATE SPINNAKER PLUME.

Documents and presentations prepared by Kimberly-Clark are incorrectly referenced in the Field Sampling Plan as supporting the presence of a "Spinnaker plume". Kimberly-Clark's consistent position, based upon years of data, is that there is no separate "Spinnaker plume." Specific examples of misuse of the Kimberly-Clark data include:

A. Section 1.0, p. 2, "Soil and groundwater data collected at the Spinnaker Coatings (Spinnaker) site on Water Street, which was formerly operated by a division of Kimberly Clark Inc., (KC) indicate that the Spinnaker site is one source of groundwater contamination in the plume area (Ohio EPA 2002; Kimberly Clark Inc. [KC] 2009)." The Kimberly-Clark 2009 technical presentation to EPA provided supporting documentation that the source of groundwater contamination on the Spinnaker property is the migration and degradation of PCE from an upgradient source.

B. Section 2.2, p. 16, "This observation is consistent with the results of groundwater modeling completed by the City of Troy indicating that (1) the river is not a hydraulic barrier to groundwater flow and (2) the shallow and deep aquifer units are in hydraulic communication. (Mill Creek 2002; Ohio EPA 2002; KC 2007, 2009; EPA 2008)." The Mill Creek 2002 and K-C 2007 references include data that specifically support different interpretations and in addition point out technical flaws in the interpretations presented above.

C. Section 2.2, p. 18, "Investigations completed by Ohio EPA and Kimberly--Clark indicate that the on-site contamination plume at Spinnaker changes in composition from primarily PCE and lower concentrations of degradation products TCE, cis-1,2-DCE, and vinyl chloride directly upgradient from the property, to primarily TCE and cis-1,2-DCE with lower concentrations of PCE and vinyl chloride at downgradient locations on the Spinnaker site. These observations suggest that the Water Street PCE plume and Spinnaker plume possibly originated from different sources and are co-mingling on the Spinnaker site (Mill Creek 2002, KC 2007, 2009)." All three of the references cited actually include very well supported interpretations that the remaining groundwater contamination on the Spinnaker property results from the migration and degradation of PCE from an upgradient source.

D. Section 2.2, p. 19, "These observations, combined with groundwater monitoring data for the site, indicate that on-site releases of chlorinated VOCs to soil and groundwater occurred at the Spinnaker property. (Mill Creek 2002, KC 2007, 2009; EPA 2008)." This is a misleading use of the Mill Creek and Kimberly-Clark references cited. These references discuss conditions prior to remediation of the Spinnaker property as well as post-

remediation conditions that in groundwater result from the migration and degradation of PCE from an upgradient source.

IV. KIMBERLY-CLARK OFFERS ADDITIONAL, COMMENTS ON THE FIELD SAMPLING PLAN.

A. Vertical Aquifer Sampling (VAS)

Vertical aquifer sampling is proposed in the Field Sampling Plan for several locations. Although all currently available data indicate that VOC contamination is limited in vertical extent to shallow groundwater, VAS is proposed at the ETCA site in light of the use of deeper zones for drinking water production.

The VAS is proposed to extend through the upper aquifer to the confining unit separating the upper and lower aquifers, acknowledging that there may be areas where the confining unit is absent. However, K-C is concerned by the description of the confining layer in the Field Sampling Plan as "till". Till is a very broad/vague term (and for that reason glacial geologists prefer not to use it). As the term is most commonly used, till is very poorly-sorted coarse material (silt, sand, gravel and coarser) in a dense, fine-grained (clay) matrix. Till indeed generally has a very low hydraulic conductivity and is a very effective confining unit. However, test drilling in Troy indicates that there are areas where a very effective confining unit may be present that is a much more subtle material than this typical description of till. Specifically, the moderately well-sorted sand of the upper aquifer grades into finer material with increasing depth. The addition of relatively small quantities of fine-grained materials in the aquifer matrix can greatly reduce vertical hydraulic conductivity, resulting in an effective confining unit. Detecting this material using visual description of the lithologic samples derived from the VAS drilling will depend on the skill/experience level of the person describing these lithologic samples and may be subjective. A more quantitative, technically verifiable method of evaluating the presence of a confining layer would be the collection of samples for laboratory testing of hydraulic conductivity and/or borehole geophysical logging.

B. Investigation Related to the Spinnaker Property

The RI scope of work on the Spinnaker property includes VAS in two locations and the installation of two deep monitoring wells, one each on the east and west sides of the Spinnaker building. This part of the RI is intended to evaluate the diving plume that is proposed as the explanation for the reason PCE entering the Spinnaker property from upgradient sources is replaced by TCE and other PCE degradation products in downgradient areas of the property. However, as previously discussed, geochemical conditions on the Spinnaker property more accurately support the biodegradation of PCE into daughter VOCs (an evaluation based on USEPA guidance).

A disproportionate amount of limited resources is devoted to evaluating a single migration pathway of low probability at the expense of more highly probable alternatives. Two of the five deep monitoring wells proposed for the west side of the Great Miami River (40

percent) are committed to the Spinnaker property, which at just over four acres is approximately two to three percent of the currently-defined ETCA site.

In addition, a very large area of known PCE contamination in shallow groundwater in much closer proximity to Troy's East Wellfield is not being evaluated at all in Phase I of the RI. Note that contrary to Figures 4, 6 and 7 in the Field Sampling Plan that show the PCE plume along Water Street terminating at the west end of the Spinnaker property (and which originate from a flawed 2004 OEPA map), this PCE plume has been known to extend to at least the end of Water Street and the eastern Spinnaker property boundary since the installation of the first monitoring wells on the Spinnaker property in late 1993. The recent installation and sampling of MCD monitoring wells on the Great Miami River levee confirm that the PCE plume extends at least another 800 feet beyond Spinnaker (it is worth noting that this places the PCE plume directly across the Great Miami River from the City of Troy's production well 18). The RI scope of work includes nothing to investigate the horizontal or vertical extent of PCE in this large area.

C. Specific comments on two of the proposed new monitoring wells:

1. Proposed shallow monitoring well location 9 (Table 8) is on Water Street between the west and east ends of the Spinnaker property. The stated purpose of this well is to confirm the boundaries of the "Water Street plume". However, the "Water Street plume" is already known to extend far beyond the proposed location of this well. If the purpose of this well is to evaluate whether the "Residential" and "Water Street" plumes are merged in this area, a more effective location for this well might be farther to the west or southwest.

2. The Field Sampling Plan states that VAS will be conducted "...in proximity to suspected source areas or areas of highest chlorinated VOC concentrations detected in groundwater during past investigations, but where no data regarding vertical contaminant distribution over the full saturated thickness of the upper aquifer have been collected" (Section 4.5.2, p. 50). However, proposed VAS and deep monitoring well location 7 (Table 8) is located in an area of the Spinnaker property where there are several existing shallow monitoring wells that have been clean (no detections of target chlorinated VOCs in samples) for many years.

D. Additional Comments:

1. Table of Contents, List of Figures. The list of figures in the table of contents is not consistent with the figures actually included in the Field Sampling Plan.

2. Section 2.2, Table 2, p. 13 (footnotes), "Location requires additional research to confirm. This cleaner has been described in various background documents as either being located near 'Main and Union' or 432 East Main." There is no discrepancy in these locations; 432 East Main is the corner of Main and Union. This former Waltz dry cleaner operated at this location from c. 1956 (when it moved here from the location in what is now the west parking lot of the Spinnaker property) until c. 2001. As late as 2001, there was still a Waltz sign on the building (MCES has a photograph).

3. Section 2.2, p. 14. "This dry cleaner reportedly burned down, and the site is currently occupied by a relatively recent addition to the neighboring Methodist Church." This is a Presbyterian church.

4. Section 2.2, p. 17. "An area of soil contaminated with chlorinated solvents, primarily TCE, was later detected near a loading dock in the western portion of the facility." This was discovered concurrently with fuel oil and toluene releases during investigations in 1993 and 1994.

5. Table 3, p. 18. The purpose of this table is not clear. Because the table lists detections of constituents in groundwater samples from different time periods *as well as* from different locations on the property, any comparison of results, either over time or by location, is meaningless.

6. Section 2.2, p. 19, "KC continued to operate the on-site groundwater pump and treat system until May 2009." The system was operated until July 2009.

7. Section 2.2, p. 20, "As indicated on Table 4, data from the most recent sampling event (March 2010) indicated that the highest concentrations of PCE were detected in wells KMW-15 (20 ug/L), located near the levee at the extreme northwest corner of the property, in addition to wells EEIB-4 and GZA-1 (14 ug/L and 16 ug/L, respectively) located near Water Street." Assume that this refers to Table 3, not Table 4 (Table 3 lists groundwater results; Table 4 soil results).

8. Section 4.0, p. 31, *"VAS of the upper aquifer at seven locations west of the Great Miami River using direct-push techniques... "*. According to details of the VAS later in Section 4, this work will be completed using rotosonic drilling (note that direct-push methods are impractical at the depths planned).

9. Section 4.0, p. 32, "Installation of two monitoring wells in a single cluster east of the Great Miami River using Rotosonic techniques, north/northeast of the East Wellfield...". The location shown on Figure 8 appears to be northwest of the East Wellfield.

10. Section 4.5.2, p. 44, "However, data evaluation has been conducted with only limited consideration of vertical contaminant concentration gradients, and the extent of contamination has thus been based on two-dimensional representations of the plumes." This is not an accurate representation with respect to the Spinnaker property, where two deep production wells and a monitoring well screened below the water table in the upper aquifer have been sampled numerous times.

11. Section 4.5.2, p. 45, "Also, the flow model prepared for the City of Troy's wellhead protection plan and piezometric data collected by SulTRAC in August 2009 suggest a possibility that the deep zone west of the Great Miami River is within the pumping influence of the northern part of the East Wellfield and deep locations may be needed between the residential area PCE plume and the East Wellfield." SulTRAC should specify the piezometric evidence referenced above. Also, the City of Troy's wellhead protection plan and flow model is very generalized, as acknowledged by Malcom-Piernie (the contractor that completed the model) and

is specifically contradicted by field potentiometric data on the west side of the Great Miami River (multiple measuring events of groundwater elevations in upper-aquifer monitoring wells on the Spinnaker property that show groundwater flow following the Great Miami River rather than moving toward the east well field).

12. Section 8.0, p. 80, *"The SulTRAC QAPP and Data Management Plans (SulTRAC 2010a and 2009d)..."*. The Data Management Plan is SulTRAC 2010c in the reference list.

13. Section 9.0, p.89, "All IDW will be removed from specific work sites and managed at a central, secure location, on property owned and controlled by the City of Troy (SulTRAC 2010b, 2009e)." There is no reference SulTRAC 2009e in the reference list.

14. Figures 6 and 7. The OEPA monitoring wells in the "Water Street" plume (i.e. OEPA-3, OEPA-8, OEPA-9, OEPA-10 and OEPA-13) are not correctly located on these maps.

ENVIRONMENTAL RESOURCES MANAGEMENT

FINAL REPORT

Paul, Weiss, Rifkind, Wharton & Garrison

Phase I Environmental Site Assessment and Limited Compliance Review

Spinnaker Coating

Troy, Ohio

8 April 2002

HR501.00.01

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EXECUTIVE SUMMARY

Environmental Resources Management, Inc. (ERM) completed a Phase I Environmental Assessment and Limited Compliance Review of the Spinnaker Coating facilities located at 518 E. Water Street (Plant No 1) and 130 Mary Bill Drive (Plant No. 2). Both facilities are located in Troy, Ohio.

The facilities produce pressure, moisture and heat sensitive adhesive papers for postage stamps, labels and other applications. Operations include coating of rolled paper stock with water, acrylic, rubber or solvent-based (no longer used) adhesives, as well as "hot-melt" glues. Slitting was conducted on site until recently. Because of customer demands and a desire to improve response time, slitting operations are now, for the most part, out-sourced. Solvent-based adhesive-coated paper is still marketed by Spinnaker, but produced by IVEX Coating, Inc.

Plant No. 1 has applied for a Title V air operating permit, even though emissions are now well below Title V thresholds, due to the mothballing of the solvent-based coating lines. Principal raw materials at both facilities consist of rolled paper stock and raw materials used in the formulations of the water-based glues and adhesives.

Plant No. 1 consists of approximately 275,000-square feet of building space on an approximately 5-acre property. Plant No. 1 also includes a small outparcel located between two adjacent residences to the west. Approximately 75 percent of the building houses manufacturing operations, with the remainder used for warehousing and offices. Spinnaker has operated at Plant No. 1 since 1994.

Plant No. 2 consists of approximately 100,000-square feet of building space on an approximately 5-acre property, and also includes an adjacent 5-acre lot located immediately north of the facility. Approximately 50 percent of the building houses manufacturing operations, with the remainder used for warehousing and offices. Spinnaker also has operated at Plant No. 2 since 1994

ERM identified potential material findings (i.e., potentially > $10,000) that are summarized below and are discussed in greater detail in the body of the report.

PLANT NO. 1 (518 E. WATER STREET)

Ongoing Remediation/ Ohio EPA Enforcement

In October 1993, subsurface investigations conducted in preparation for a potential property transaction were conducted in two phases at the subject property. Soil borings were drilled, and groundwater monitoring wells were installed to facilitate collection of soil and groundwater samples. The investigations identified contamination of soil and groundwater on the west end of the subject property, related to suspected releases from the former non-hazardous waste storage area (trichloroethene), former underground reclaimed toluene line (toluene), and former 10,000-gallon and/or 30,000-gallon fuel oil aboveground storage tanks (ASTs) (fuel-related impacts). As such, the contaminants that were detected at levels of concern included volatile organic compounds (VOCs) (primarily toluene, TCE and its related breakdown products) and polynuclear aromatic hydrocarbons (PAHs). Free product was identified in soil and groundwater, suspected to be related to a release of fuel oil.

On the east end of the subject property, soil and groundwater impacts related to releases of toluene from the former 3,000-gallon toluene underground storage tank and the "aeration tanks". The primary contaminant of concern was toluene.

In 1994, Kimberly-Clark reported the contamination to the Ohio EPA, and discussed the options for remediating the subject property. The Ohio EPA, based on limited staff availability, recommended that the work proceed voluntarily.

Kimberly-Clark estimated the remedial costs for both areas to be approximately $1,300,000. In the asset purchase agreement between Kimberly-Clark and Spinnaker, Kimberly-Clark retained liability up to $2,000,000 to complete the remediation, with several exceptions that capped the total liability not-to-exceed $3,000,000. The purchase agreement was executed in June 1994 and the transaction was closed in September 1994.

Kimberly-Clark conducted remedial activities at the subject property in the Spring of 1995. The work included the removal of the aboveground storage tanks and hazardous and non-hazardous waste storage areas, excavation of contaminated soil, and the installation of two remediation systems.

The remediation system on the west end of the subject property consisted of a groundwater pump and treat system consisting of four groundwater recovery wells, oil/water separation and air stripping. Initially, treated effluent was discharged to the public sewer system. In 1997, an NPDES permit was obtained to discharge the treated effluent to the Great Miami River. The system began operation in August 1995, and has been in operation since that time, except for a period of 1 March 2001 into late March 2001. The average groundwater recovery rate for the system is 10 to 15 gallons per minute. Minimal free product was recovered, and the oil/water separation was by-passed beginning in June 1997. Significant progress has been made in reducing dissolved groundwater contaminant levels in this area of the subject property.

The remediation system on the east end was installed in 1995, consisting of soil vapor extraction (SVE) and air sparging. Five SVE wells and four sparging wells were installed. The system began operation in August 1995, and operated until February 1997. The remediation system in this portion of the subject property focused on remediating two primary sources of toluene impacts in soil and groundwater. The SVE/air sparging system was effective in reducing the levels of toluene to below the proposed cleanup levels. As such, Kimberly-Clark contends that the remediation was completed in this portion of the subject property.

Other VOCs, specifically tetrachloroethene (PCE), TCE and associated breakdown products, were present in the groundwater at concentrations of the US EPA Maximum Contaminant Levels for Drinking Water (MCLs); however, Kimberly-Clark contended that these contaminants were related to an off-site source of contamination. Therefore, the proposed cleanup levels for tetrachloroethene was proposed as "background", meaning the concentrations that were detected in upgradient monitoring wells located in the southwest and southeast portions of the subject property.

Enforcement by the Ohio EPA began in 1997, with the issuance of a proposed Director's Final Findings & Orders (DFF&O) to conduct an RI/FS at the subject property. Although the Ohio EPA eventually proposed only an Order containing only operation and maintenance (O&M) with continued monitoring, negotiation of the DFF&O stalled and the Order was never finalized.

In February 2001, Kimberly-Clark submitted a *Site Closure Report,* indicating that the remediation had been completed for both the west end and east end of the subject property. The Ohio EPA responded by issuing a DFF&O that ordered that the groundwater pump and treat system be re-started and that the effectiveness of the remediation system be evaluated,

and improved where necessary. In addition, the Ohio EPA established Interim Action Groundwater Compliance (IAGWC) standards, to be the MCL or calculated carcinogenic risk of 10^{-5} or non-cancer risk, whichever was lower, at a concentration not to be less than 1 microgram per Liter.

Kimberly-Clark re-started the groundwater pump and treat system, and prepared a Final Remediation Work Plan that involved the use of *in situ* oxidation to supplement the current remediation system. Representatives of the Ohio EPA, Kimberly-Clark and Spinnaker met at the subject property in June 2001 to discuss the proposed plan. The parties were not able to agree on an acceptable approach. As of the date of this report, no further remedial action, save the continued operation of the pump and treat system, has been conducted. Kimberly-Clark has appealed the matter to the Environmental Review Appeals Commission (ERAC).

There are continuing liabilities for this matter. The asset purchase agreement capped the liability for Kimberly-Clark at $2,000,000, with some exceptions that could bring the total to $3,000,000. Kimberly-Clark has notified Spinnaker that it is approaching or has approached the $2,000,000 cap. As such, Kimberly-Clark has attempted to place any future liability costs on Spinnaker.

Kimberly-Clark has attempted to make Spinnaker a party to the DFF&O and ongoing enforcement at the subject property. As of the date of this report, the ERAC has rejected this contention, and Spinnaker is not named in any of the enforcement proceedings.

Groundwater, and possibly soil (no current data available), impacts remain at the subject property in excess of the MCLs or IAGWC standards developed by the Ohio EPA. Depending on the legal outcome of these matters, Spinnaker or its successors could incur liability for the continued and/or supplemented remediation of the subject property. However, based on the review completed, there appears to be a remote likelihood that Spinnaker or its successors would incur such liability.

RCRA Corrective Action

In the March 2001 DFF&O, the Ohio EPA defined the VOCs, based on the quantity released, to be hazardous waste. As such, the Ohio EPA defined the subject property as a hazardous waste facility where hazardous waste has been treated, stored or disposed. Depending on the outcome of the enforcement and ERAC appeal, RCRA corrective action could be triggered as a mechanism to mandate cleanup of the subject property. However, based on the review completed, such action appears to be unlikely.

Contamination of City of Troy Well Field

Records indicate that VOCs have been detected in selected supply wells for the City of Troy on a periodic basis, specifically Well 18. The supply wells in question are located north of the Great Miami River, with Wells 14 and 18 being located about 900 feet and 1,200 feet east/northeast of the subject property, respectively.

The date of the first detection was not identified in the records reviewed. The contaminant of concern was primarily related to halogenated VOCs, specifically cis 1,2-dichloroethene (cis 1,2-DCE) in Well 18. The cis 1,2-DCE has been detected at relatively low concentrations (average of 0.7 micrograms per Liter [μg/L]), which is two orders of magnitude below the Maximum Contaminant Level for Drinking Water (MCL) of 70 μg/L.

In 1997 and 1999, the Ohio EPA conducted subsurface investigations in the vicinity of the well field, including the subject property. The work included collecting shallow and deeper groundwater samples to determine the potential source(s) of contamination identified in the well field. In regard to the subject property, the Ohio EPA sample results indicated the presence of VOCs on the subject property that were generally consistent with those identified by Kimberly-Clark. In general, contamination was not detected in the groundwater samples collected from deeper portions of the aquifer. The Ohio EPA has asserted that the subject property is a source of the contaminants, specifically the cis 1,2-DCE, detected in Well 18.

Kimberly-Clark and Spinnaker have constructed several technical arguments that attempt to refute this claim. In an effort to support their position, an aquifer-pumping test was conducted in July 1999. The pumping test indicated that the monitoring wells on the subject property did show influence from pumping of the City wells; however, the influence on pumping of the on-site supply wells was much greater (five times). Sampling and analysis results have not detected VOCs in the on-site supply wells.

There may be potential liability in regard to the contamination of the City of Troy supply wells. The Ohio EPA has not been convinced by evidence or technical argument that releases from the subject property are not the source of the VOCs detected in the City wells. Depending on the outcome of the continuing investigation, if the contaminant levels increase, Kimberly-Clark could incur liability for mitigating the VOC impacts to the City wells. However, there is only a remote likelihood that Spinnaker (or its successors) would incur such liability (based on lack of use of

substances of concern, lack of current exposure pathways, and uncertainty regarding connections between the shallow and deeper acquifers).

Off-Site Sources of Contamination

There are several potential sources of off-site contamination that have been identified in regard to the subject property. Each of these sites is located within one-eighth mile, and hydraulically upgradient of the subject property.

- Miami Valley Gas and Fuel Co. (FKA Troy Gas Works) This facility was located immediately west of the far northwest corner of the west parking lot for the subject property. This facility was a manufactured gas plant (MGP) facility that included a large gas holder. The site was in evidence on Sanborns from 1887 to 1905. MGP sites are well-known sources of legacy contamination, primarily related to coal tar and PAHs. Dense non-aqueous phase (DNAPL) liquids are often discovered in regard to releases from these facilities.

- Hobart Cabinet – This facility was established around 1907 on property that included the former MGP facility. The facility is known to use chlorinated solvents, and halogenated VOCs, among other contaminants, were identified in soil and groundwater samples collected on the Hobart property.

- Waltzs Cleaners – This facility was a dry cleaning operation. The dates of operation were not able to be identified, but the facility is now closed. This facility is located less than one-eighth mile south (upgradient) of the subject property. Dry cleaning operations used PCE as the predominant solvent of choice. This contaminant, and its breakdown products, have been identified in upgradient wells located on the subject property.

No conclusive evidence has been gathered to confirm that the groundwater contaminants identified on the subject property are the result of former operations or releases at these off-site facilities. The possible off-site contribution to the contamination present at the subject property is a major point for Kimberly-Clark's argument that it should not be responsible for remediating the remaining contamination at the subject property. Proving this point will require additional investigation to confirm the possible contribution of the off-site sources to the contamination present on the subject property.

Closure of Aboveground Storage Tank System

In 1995, an aboveground storage tanks system was installed on the east end of the subject property, consisting of three, 10,000-gallon tanks to store virgin toluene, reclaimed toluene and methanol. The chemicals were stored in support of the former solvent-based coating operations, which were shut down in 1999. The tanks are still in place and operational. It is not known if the tanks still contain product.

It is assumed that the solvent coating operations will not be re-initiated at the subject property, and the solvent-based coating lines have been removed. As such, there is no ongoing need for the ASTs. The ASTs should be appropriately mothballed if that has not yet been done.

Closure of Toluene Recovery System

The toluene recovery system was installed to reclaim toluene from the solvent-coating operations. As described above, solvent-coating operations are no longer conducted at the subject property. The toluene recovery system should be cleaned out and removed.

Asbestos-Containing Materials

In July 1994, a comprehensive asbestos survey was completed at the subject property. The survey included locations and types of asbestos-containing materials (ACMs), and provided estimated costs for abatement. Initial abatement costs to remove all ACMs was estimated at approximately $400,000. In October 1994, new asbestos regulations changed the definition of ACM to less than 1%, versus the old standard of less than 0.1%. Subsequently, samples of brown coat ceiling plaster were collected from several areas within the facility. All results were less than 1%. As such, the total abatement cost would have been reduced to approximately $190,000. Both the 1994 consultant report and resultant internal memorandum from Kimberly –Clark indicate that the facility was "in compliance with OSHA requirements" in regard to asbestos.

As part of the terms of the purchase agreement, Kimberly-Clark conducted selective abatement, encapsulation and/or repair for several areas within the facility buildings. However, significant quantities of ACM remain in place. Any repair, removal or other activities that would disturb the ACMs will result in additional costs for abatement.

PLANT NO. 2 (130 MARY BILL DRIVE)

Closure of 10,000-Gallon Spill Tank

In 1978, a 10,000-gallon underground storage tank was installed on the northeast side of the manufacturing building. The purpose of the tank was to contain spills overfills related to raw material loading and transfer operations. The transfer area has been move to the west, making this tank obsolete. This tank should be removed and properly closed.

Site Remediation

Kimberly-Clark conducted a site investigation at the subject property in 1993. The investigation included drilling five soil borings and collecting soil and groundwater samples, primarily in the drum storage and raw material offloading areas. VOCs and PAHs were detected in several soil and groundwater samples. Limited information regarding any resulting cleanup was provided. It is known that some volume of soil was removed; however, no groundwater remediation was conducted. The concentrations of VOCs (1,1,1-trichloroethan and 1,1-dichloroethane) were below the MCLs in the samples that were analyzed.

During the inspection of the subject property, staining of the concrete pad and adjacent unpaved areas was noted in the former and current raw material offloading areas. The raw materials currently used are water-based adhesives, and therefore, significant contamination is unlikely. However, without sampling and analysis information, the absence of potential significant impacts to soil and/or groundwater cannot be confirmed.

1.0 *INTRODUCTION AND BACKGROUND*

1.1 *PURPOSE AND AUDITORS*

Environmental Resources Management, Inc. (ERM) performed a Phase I Environmental Assessment and Limited Compliance Review of the Spinnaker Coating facilities located at 518 East Water Street (Plant No. 1) and 31 Mary Bill Drive (Plant No. 2) in Troy, Miami County, Ohio (hereinafter, the "subject property"). The environmental assessment was performed for Paul, Weiss, Rifkind, Wharton & Garrison in anticipation of a financial transaction involving the facility.

The site visit was performed on 31 January 2002 and 1 February 2002 by Daniel W. Longbrake and Leigh Anne Sievert (1 February 2002 only). Grant W. Wilkinson, Esq. (Farrar, Naayers and Wilkinson), facilitated the file review. ERM was accompanied on the site visit by Mr. Ronald W. Klenk, Corporate EHS Manager, Spinnaker Coating.

1.2 *SCOPE OF WORK*

This environmental assessment was conducted in conformance with ERM's proposal NEDS-020093, dated 17 January 2002, and in general conformance with the requirements of ASTM Standard E1527-00; *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*. In addition, ERM completed a limited environmental compliance review. This effort was not meant to be a comprehensive compliance evaluation. Rather, the purpose was to evaluate areas of environmental concern that could result in significant penalty or require significant capital expenditure (above the materiality threshold of $10,000 set for this project).

The assessment was conducted to evaluate the potential for environmental impacts on the subject property as a result of past or current activities on the property or surrounding properties. ERM's Phase I Environmental Assessment included:

- an on-site inspection of the subject property to evaluate current conditions and identify areas of potential concern;
- a review of property history through interviews and city directories ownership records, and historical mapping;

- observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact the subject property;
- contracting of Environmental Data Resources, Inc. (EDR) to identify sites of concern as required in the regulatory records review section of the ASTM standards for a Phase I Environmental Site Assessment. The information presented in the EDR report was supplemented by file reviews or phone interviews, as appropriate;
- review of previous site assessments conducted at the facilities including site investigation and remediation reports and asbestos surveys, including sampling of suspect or presumed asbestos-containing materials (ACMs). ERM's assessment included visible observations of readily accessible building areas, though no sampling was conducted; and
- a limited regulatory compliance review to evaluate the compliance of the operations at the property with federal, state, and local regulatory requirements, and identify material instances of non-compliance.

Photographs of the site and surrounding areas were taken to document current conditions and are included in Appendix A. Property environmental records or permits, reasonably obtainable at the time of the site visit, were reviewed and copies are included in this report, as appropriate.

1.3 *LIMITATIONS*

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based on the facts currently available within the limits of the existing data, scope of work, budget, and schedule. We make no warranties, expressed or implied, including, without limitation, warranties as to merchantability or fitness for a particular purpose. In addition, the information provided in this report is not to be construed as legal advice.

ERM is not engaged in environmental auditing and reporting for the purpose of advertising, sales promotion, or endorsement of any client's interests, including raising investment capital, recommending investment decisions, or other publicity purposes. The client acknowledges that this report has been prepared for the exclusive use of the client and agrees that ERM reports or correspondence will not be used or reproduced in full or in part for such purposes, and may not be used or relied upon in any prospectus, offering circular, or similar document. Client also agrees that

none of its advertising, sales promotion, or other publicity matter containing information obtained from this audit and report will mention or imply the name of ERM.

1.4 *LIMITING ON-SITE CONDITIONS*

No limiting conditions were encountered during the site visit. The weather during the site visit was windy and cloudy. The temperature was approximately 25°F. There were occasional snow flurries during the day, but no snow cover was present.

2.0 *SITE SETTING*

2.1 *LOCATION*

Plant No. 1 is located at 518 East Water Street, immediately south of the Great Miami River, and between one-quarter and one-half mile east of State Route 55 in Troy, Miami County, Ohio. Plant No. 2 is located at 31 Mary Bill Drive, Troy, Miami County, Ohio, approximately 1/2-mile west of Interstate 75.

The general location of the properties and the physiographic features of the surrounding area are shown on Figure 1, developed from the United States Geological Survey (USGS) 7.5 minute quadrangle Troy, Ohio dated 1982 (photorevised).

2.2 *NEIGHBORING PROPERTIES*

Plant No. 1

The subject property is located in the City of Troy, in a mixed industrial and residential area. The abutting properties include:

- *North:* earthen flood control levee, Great Miami River and City of Troy Water Treatment facility and well field (North of the river);
- *East:* Residential properties;
- *South:* Van Cleve Elementary School (former high school) and St. Patrick's School and Church; and,
- *West:* Residential properties and Hobart Cabinet.

Sensitive environmental receptors were identified adjacent to or near the subject property. Two schools (listed above) are located immediately to the south, across E. Water Street. Residential dwellings are located immediately east and west of the subject property. The Great Miami River and City of Troy water supply well field are located to the north. Each of these features or properties represents a sensitive receptor that

could present a concern with regard to potential exposures to impacts related to environmental conditions at the subject site.

The Hobart Cabinet Co. (Hobart) facility, established circa 1907, is located adjacent to the northwest portion of the subject site (West parking lot). Metal cabinets are manufactured at this facility, with SIC codes of 1522, 2541, 2542 and 2599. There is a history of solvent usage at the Hobart facility, and previous environmental sampling and analysis indicate that soil and/or groundwater impacts that are related to volatile organic compounds (VOCs) are present. The Hobart facility is still in operation.

No visual evidence of environmental concerns was observed on other immediately-surrounding properties.

Plant No. 2

Current land use in the vicinity of the subject property is mixed commercial and light industrial. Prior to 1972, the land in the vicinity of the subject property was undeveloped. The 1982 historical topographic map indicates that construction of a road and several buildings occurred between 1972 and 1982.

North: The Troy Daily News

East: American Electric Power (AEP) maintenance facility

South: Roconex , which makes pre-press equipment for graphic art industries, lighting equipment and instruments. Activities include sheet metal fabricating.

West: Undeveloped land

No visual evidence of environmental concerns was observed on other immediately-surrounding properties.

2.3 *TOPOGRAPHY AND HYDROLOGY*

Plant No. 1 is located at an elevation of approximately 820 feet above mean sea level (msl). The property slopes gently to the north-northeast towards the Great Miami River, which borders the property to the north-northeast. Although Federal Emergency Management Agency (FEMA) Floodplain data was not reported in the EDR report, an earthen flood

control levee is located immediately north of the subject property located at 518 E. Water Street.

Plant No. 2 is located an elevation of approximately 920 feet above msl and moderately slopes to the east. An intermittent stream is located just north of the property and drains to the east towards the Great Miami River, which is located approximately 1.5 miles east of the property. FEMA Floodplain data was not reported in the EDR report.

2.4 *GEOLOGY AND HYDROGEOLOGY*

Physiography and Geology

Plant No. 1 is located adjacent to the Great Miami River. Surface soils at the site are classified as well drained loamy soils of the Eldean Series. The upper 30 inches of soil are described as fine-grained soils consisting lean clays and silts. The soil from 30 to 60 inches below ground surface (bgs) is described as gravel and silty gravels. The soils have moderate infiltration rates and the depth to groundwater is reportedly greater than 6 feet bgs.

The facility is located in a buried valley consisting of alluvial deposits of outwash, with interbedded sand and gravel deposits. The buried valley deposits are approximately 290 feet deep and 3.5 miles wide.

Soils at the Plant No. 2 location are classified as silty loams of the Crosby Series. Soils within the upper 60 inches are described as fine-grained soils consisting of silt loams, silty clay loams, clay loam, and loam. The soils are reportedly poorly drained with slow infiltration rates. Depth to groundwater is reportedly 1 to 3 feet bgs. This facility is located outside of the buried valley deposits, and consists of clayey and silty ground moraine till deposits.

The upper bedrock deposits in Miami County (both Plants) consist of the Dayton dolomite, underlain by the Brassfield limestone. Both are members of the Silurian System.

Hydrogeology

Groundwater at Plant No. 1 is encountered at approximately 20 feet below grade, in the sand and gravel deposits. A clay confining layer is reported in most of the soil borings that have been drilled at the subject property. Groundwater flow is primarily to the north/northeast, with some recharge influence from the Great Miami River. The deeper sand and

gravel deposits produce prolific quantities of water. An on-site production well, and the City of Troy water supply wells located immediately north of the Great Miami River are completed in the deeper sand and gravel deposits. The City wells are completed to depths between 100 and 180 feet below grade.

Groundwater is encountered at Plant No. 2 at depths of less than 20 feet below grade. Information regarding groundwater flow direction and production capacity were not available. Based on topography and surface water features, shallow groundwater flow is estimated to be west, toward the unnamed intermittent stream. Regional groundwater flow is probably to the east, toward the Great Miami River.

3.0 SITE AND OPERATIONS INFORMATION

3.1 GENERAL SITE DESCRIPTION

Plant No. 1 (518 E. Water Street)

The facility is located on an approximately 5-acre property owned by Spinnaker Coating. Operations are conducted in one contiguous structure that has been expanded six times, but now encompasses approximately 275,000 square feet (sf). Manufacturing activities include pressure, moisture and heat sensitive adhesive papers for postage stamps, labels and other applications that is achieved by coating of rolled paper stock with water, acrylic, rubber or solvent-based (no longer used as of 1998-99) adhesives, as well as "hot-melt" glues. A description of the site processes and material use is provided in Section 3.3. A general site plan is provided as Figure 2; layout drawings for the plant, by floor are provided in Appendix B. Site visit photographs are presented in Appendix A.

The main building at the facility houses most manufacturing operations as well as administrative offices. The building was constructed in multiple phases, with the original portion of the structure dating to the late 1800's, as summarized below.

- *Pre-1900*: - 11,680 sf (Building No. 3) original construction as whiskey distillery
- *1912* – 14,200 sf (Building No. 2) addition and re-build after train derailment
- *1946* – 25,000 sf (Building No. 1)
- *1951* – 5,000 sf (Building No. 4)
- *1957* – 45,000 sf (Building No. 1A)
- *1968* – 17,300 sf (Building No. 5)

Offices are located in several areas: the ground floor of Building No. 1A; the ground, second and fourth floors of Building No. 2; the second and third floors of Building No. 3; and, the third floor of Building No. 5 (main

offices). The buildings have between one and four floors, with basements in Building Nos. 1A, 2, and 5 (boiler room and fire pump). Loading docks are located on the south side of the building, in the area of Building Nos. 1 and 3

The ground floor and basements areas are constructed of concrete block and poured-concrete floors. Other floors are constructed of wood plank floors. The interior walls are constructed of concrete block, and/or conventional wood stud and wall board. Structural steel support beams and columns and/or concrete columns are present in all buildings. Carpeting, vinyl flooring and/or floor tile are present in office, laboratory, and lavatory areas. The roofs at Plant No. 1 are combination of built up and rubber roofs. Building 1A is built up, Building 1 is rubber, Building 2 is built up, Building 3 is rubber, Building 4 is rubber, and Building 5 is rubber. The exterior of the buildings is primarily constructed of brick and mortar.

Manufacturing operations are conducted in the areas described below.

Coating Lines

- Coater No. 1 (former "lick and stick" postage; removed 2001); located in Building No. 2, ground floor
- Coater No. 2 (water-based emulsion adhesives coating); located in Building No. 2, ground floor
- Coater No. 4 (water-based emulsion adhesives coating); located in Building No. 2, ground floor
- Coater No. 5 (former solvent-based coating, now used for "barrier coat" (clay-based coating); located in Building No. 1A, second floor.
- Coater No. 6 (former solvent-based coating) – removed 1998-99; located in Building No. 1A, second floor
- Coater No. 15 (former wax paper coating line; removed 1996-97); located in Building No. 3, ground floor
- Coater No. 16 (heat seal coating; removed 2000) located in Building No. 3, ground floor

Mixing Areas

- Building No. 1A, second floor – four former solvent mixing tanks, now two of the tanks are used for mixing related to the "barrier coat" line
- Building No. 2, ground floor – three mixing tanks
- Building No. 2, second floor – three coating tanks
- Building No. 3, second floor – four mixing tanks

Sheeters, Slitters, Trimmers (used to cut paper to size)

- No. 33 Sheeter – Building No. 1A, ground floor
- No. 38 Trimmer –Building No. 1A, ground floor
- No. 51, 52, 53, 57, 58 and 59 Slitters – Building No. 1
- No. 21 and 22 "Breakers" – Building No. 2, third floor
- No. 30 and 31 Sheeters – Building No. 2, third floor
- No. 36 Sheeter – Building No. 2, third floor

Maintenance and Repair activities are conducted on the second floor of Building Nos. 4 and 5, including forklift repair. Some form of roll or product storage occurs in nearly every building and floor.

One outbuilding, located in the west parking lot, houses a groundwater treatment system, and a second outbuilding houses hazardous waste storage. The outbuildings are constructed of corrugated aluminum with concrete floors/bases.

Three, 10,000-gallon capacity aboveground storage tanks (ASTs) are located on the northeast side of the subject property, used to store1,1,1-trichloroethane, isopropyl alcohol and fuel oil. The tanks are double-walled and located inside a concrete secondary containment dike with a concrete base. These tanks formerly supplied the solvent-coating lines. The tanks are still in place and operational, but are no longer used. The former solvent recovery system is located along the east side of Building No. 1A, inside a secondary containment dike with concrete walls and base. Chemical unloading occurs on the north side of Building No. 2, with a concrete pad and associated grate drain system that ties into the wastewater system. Bulk adhesive unloading occurs on the west side of Building No. 5.

Most operational areas of the facility grounds are paved with concrete or asphalt. However, open, unpaved gravel, grass or bare soils are located along the north side of the buildings. A chain-link fences surrounds the south, west and east sides of the subject property. An earthen flood control levee covered with grassy vegetation is located along the north side of the subject property. No areas of obvious staining were noted on the exterior grounds. Some obsolete equipment is stored in the far northwest portion of the west parking lot, on asphalt pavement.

The subject property includes one parcel of undeveloped land that is situated between two residential structures to the west of the west parking lot (approximately 45 feet by 55 feet). The northern edge of this lot is adjacent to the northwest portion of the west parking lot. The lot is vegetated with grass and several trees. No indications of disposal, staining or stressed vegetation were observed. No standing water was observed on the exterior grounds.

Plant No. 2 (130 Mary Bill Road)

The facility is located on an approximately 5-acre property owned by Spinnaker Coating. Operations are conducted in one building that was constructed in two phases. The original building was constructed in 1977, and the building was doubled in size in 1985. The total square footage under roof is 100,000 sf. Much of the coating that was formerly conducted at Plant No. 1 has been moved to this facility. Manufacturing activities include two silicone coating lines (Coater Nos. 19 and 20), which produce liner and backing that feeds the other coaters at both Plant No. 1 and Plant No. 2, and a coating line that was moved from Plant No. 1 (hot-melt glue coater No. 17). Coater No. 18 was also moved from Plant No. 1, but is no longer used.

Five slitters are present in the southeast portion of the building, but are rarely used. Most slitting has been out-sourced. Raw material storage is located inside on racks, along the west side of the building. Glue transfer and mixing is located in the north-central portion of the building. Five large mixing tanks are located in the northwest portion of the building. Rolled paper stock occupies the central portion of the building, running the length of the building from west to east. Maintenance, small-scale laboratory activities, storage and some offices are located in the mezzanine levels on the north and south sides of the building. Administrative offices are located near the entrance on the east side of the building.

The building is constructed of concrete block and poured-concrete floors. Corrugated aluminum siding sheaths the building exterior. The interior walls are constructed of concrete block, and/or conventional wood stud and wall board. Structural steel support beams and columns are present in the building. Carpeting, vinyl flooring and/or floor tile are present in office, laboratory, and lavatory areas. The roof at Plant 2 is a flat built up roof.

No outbuildings were identified at Plant No. 2. Most operational areas of the facility grounds are paved with concrete or asphalt. Loading docks are located on the southwest corner of the building. Open, unpaved gravel, grass or bare soils are located along the north and west side of the building. A hazardous waste and drum storage area is located outside, on the north side of the building. The area is fenced, with a concrete berm and concrete floor with a blind sump. Bulk adhesive loading is conducted along the north side of the building, and was formerly located further to the east along the building. Significant staining was identified in both areas. The loading areas are paved with concrete, but staining was observed on unpaved land surface adjacent to both areas.

The subject property includes one parcel of undeveloped land adjacent to the facility. Encompassing approximately 5 acres, the lot is vegetated with grass. No indications of disposal, staining or stressed vegetation were observed. No standing water was observed on the exterior grounds.

A description of the site processes and material use is provided in Section 3.3. A site plan is provided as Figure 3. Site visit photographs are presented in Appendix A.

3.2 *UTILITIES*

The facilities are provided with utilities as describe below.

Plant No. 1 (518 E. Water Street)

- Water is provided from on-site supply wells (process water only) and the City of Troy;
  - The exact location and construction of the on-site well is not known. Studies that were conducted in an effort to determine its location indicate that it is located approximately 10 to 20 feet north of Building No. 4. The groundwater pumping room and associated

equipment are located on the ground floor of Building No. 4, and underground piping leads from the well to this location.

- Sewer service from the City of Troy;
- Electricity from Vectren (discounter) with Dayton Power & Light (DP&L) transmission line usage;
- Natural gas by International Gas Services (discounter), again via DP&L transmission lines.
- Four, natural-gas fired steam boilers for process and building heat are present on the subject property:
  - Basement of Building No. 1A
  - Basement of Building No. 2 (2))
  - Second floor of Building No. 2 – used to steam paper (to take out curl)
  - Basement of Building No. 5

The office areas in Building 5 are equipped with a centralized heating, ventilation and air conditioning (HVAC) systems. Roof-mounted natural gas and electric heating and cooling systems are present. Climate control and air conditioning units for office areas in Building No. 2 are located on the fourth floor of the building.

Plant No. 2 (130 Mary Bill Drive)

- Water from the City of Troy;
- Sewer from the City of Troy;
- Electricity from Vectren (discounter) with Dayton Power & Light (DP&L) transmission line usage;
- Natural gas by International Gas Services (discounter), again via DP&L transmission lines;
- One natural-gas fired steam generator and stand-by boiler provide steam for process and building heat;

The office areas are equipped with a centralized heating, ventilation and air conditioning (HVAC) systems. Roof-mounted natural gas and electric heating and cooling systems are present.

3.3 *PROCESSES AND MATERIAL USE*

Current Operations

The Spinnaker facilities produce pressure, moisture and heat sensitive adhesive papers for postage stamps, labels and other applications. Operations include coating of rolled paper stock with water, acrylic, rubber or solvent-based (no longer used) adhesives, as well as "hot-melt" glues. The facility operates under SIC code of 2671. Operations are conducted on a 24-hour per day, five day per week basis. The facility employs a total of 50 hourly personnel at Plant No. 1 and 85 hourly personnel at Plant No. 2. Various engineering, administrative, executive and support staff brings the total employment in Troy to approximately 170 employees.

On-site operations include coating of rolled stock paper, and limited flexographic printing. Adhesives and glues used in the coating process are stored and mixed in aboveground tanks located in various parts of both facilities. Although now limited, operations also include slitting, cutting and packaging of the coated paper products. Raw materials and finished goods are shipped or received by truck.

Water-based, pressure-sensitive emulsion adhesives came into use in the 1970's. Development was initiated at Plant No. 1, but now occurs primarily at Plant No. 2.

Discontinued Operations

Plant No. 1

From the late 1800's until 1922, the facility was a whiskey distillery, and occupied what is now Building No. 3. The distillery was a secondary facility related to the original, main distillery operation located approximately one-quarter mile west of the subject property.

Solvent-based coating lines (Coater Nos. 5 and 6) were operated at the subject site from the 1960's to October 1999. These coaters have been removed. Solvent-based coating is now conducted by IVEX Coatings, under an alliance agreement, and marketed by Spinnaker Coating. The

chemical ASTs and solvent recovery system that were associated with the solvent-based coating line are still present at the subject property, but are no longer used. As previously described, these tanks are still in place and operational. The solvent-based coatings involved the use of Pandex solvent, toluene, methanol, isopropyl alcohol and polymers.

Coater Nos. 1, 2, 15 and 16 are no longer used. These coaters were related to wax paper coating and hot seal coating. The hot seal coating operations consisted of plastic that was melted to paper stock that crystallized upon cooling. Hot air was blown on the stock to adhere to bottles (primarily for the pharmaceutical industry).

Three slitters were removed from the site in the late 1990's. In addition, the majority of slitting operations are now out-sourced, but some slitting is conducted at the facility on a periodic basis.

A former staype (tape with reinforcing string) operation was formerly located on the ground floor of Building No. 4. No equipment associated with this former operation was still in place. On a 1957 facility drawing, a "pit" was located in the basement near this operation. The former use and status is unknown. No evidence of the "pit" was identified during the inspection of the subject property.

Plant No. 2

Coater No. 18 is no longer used. This coater was used for silicone-based coating.

3.4 *CHEMICAL USE AND STORAGE*

Chemical use at the facilities relates primarily to raw materials used in the formulation of water-based glues and adhesives. Plant No. 1 also produces a clay and rubber-based coating, called "barrier coat". Limited chemical usage occurs in the maintenance areas at both facilities. Chemicals are stored in bulk tanks, totes and containers.

Container Storage

Plant No.1

Chemical use at the facility relates primarily to maintenance operations and production support as outlined below:

- Inks are stored in 5-gallon containers next to the flexographic printing line;
- 5-gallon flammable cans containing solvent, primarily naphtha, that is used to clean equipment is stored on carts in building 1A;
- Boiler water treatment chemicals are stored in 55-gallon drums in the boiler room of building 1A and 2;
- Water-based emulsion adhesives are stored in 300-gallon totes next to the adhesive coating lines in building 2;
- 55-gallon drums of isopropyl alcohol and naphtha stored in flammable cabinets, and ammonia in plastic containers stored in a dedicated freezer, are located on the first floor of building 2;
- The oil storage area is located on the mezzanine of building 2;
- Laboratory reagents are stored on the fourth floor of building 2 in the laboratory and in the adjacent storage room;
- Maintenance chemicals are stored in the maintenance shop located in building 4; and
- Hydraulic oil for elevator maintenance is stored in a cage on the second floor of building 5.

Chemicals are stored inside the building on areas with concrete floors, and, in the case of isopropyl alcohol and naphtha, within flammable storage cabinets.

ERM did not observe evidence of spills or releases in the chemical use and storage areas.

Plant No. 2

Chemical use at the facility relates primarily to maintenance operations and production support as outlined below:

- The oil storage area is located in the east side of the boiler room;
- Boiler water treatment chemicals are stored in the boiler room;
- Raw material drum storage is on the racks on the west side of the building; and

- Maintenance chemicals are stored in the maintenance department.

Chemicals are stored inside the building on areas with concrete floors.

ERM did not observe evidence of spills or releases in the chemical use and storage areas.

3.4.2 *Underground Storage Tanks*

Plant No. 1

Several underground storage tanks (USTs) were previously utilized at the subject property for storage of various chemicals and waste. The listing of former USTs is provided below. Former tank locations are shown on Figure 4.

Table 1. ***Underground Storage Tanks at Plant No. 1***

Tank Identification	Contents	Location	Status
3,000-gallon bare steel	Toluene recovered from solvent recovery system	East side of Building 1A	Installed circa 1973 Removed 7/11/88
3,000-gallon bare steel	No. 2 fuel oil	Loading dock	Installed circa 1970 Removed 6/30/86*
15,000-gallon bare steel	No.2 fuel oil	Under floor – Building No. 1	Installed circa 1951, Abandoned in place (filled with concrete slurry) 10/14/88
500-gallon bare steel (some reports list as 400-gallons)	Gasoline (leaded)	East of former hazardous waste storage area	Installed circa 1958 Removed 12/15/88

*Most of the information in the files indicates this as the removal date, although there was some conflicting information indicating 1988 as the date of removal.

A *Notification for Underground Storage Tanks* form was submitted to the Ohio Department of Commerce, Division of State Fire Marshal on August 28, 1987 for the tanks that are listed above. No notification was made in regard to the 3,000-gallon fuel oil-spill pad tank that was identified in the files maintained at the subject property. No information provided indicating the former construction of this tank. Thus, it cannot be confirmed if this tank should have been registered.

On October 12 to 15, 1987, tank tightness testing was conducted for the 500-gallon gasoline UST and the 3,000-gallon toluene UST. The 3,000-gallon fuel oil UST had been previously removed. The results of the tightness testing indicated that the toluene tank failed the test at a leak rate of –0.7209 gallons per hour (gal/hr), which was well above the recommended standard of +/- 0.05 gal/hr.

In April 1988, the City of Troy Fire Department authorized the closure of the 3,000-gallon toluene UST and the 500-gallon gasoline UST (this tank is referenced as either a 400-gallon or 500-gallon tank, depending on the source of information) by removal, and the in-place abandonment of the 15,000-gallon fuel oil UST (filled with concrete slurry). Hines Builders conducted the abandonment/removal of the tanks. No information regarding the absence or presence of impacts to soil and/or groundwater was identified by ERM in regard to the 5,000-gallon fuel oil tank. No information was available regarding sampling conducted at the time of closure; however, subsequent sampling and investigation in the area of the gasoline UST was conducted in 1993-94 (see Section 4.3).

In regard to the 3,000-gallon toluene tank, impacts were identified during tank closure activities. Correspondence in the files provided to ERM indicate that Kimberly-Clark, via a 29 July 1988 internal memorandum, worked to retain a firm to conduct additional sampling and analysis to further define the nature and extent of impacts to soil and/or groundwater. Although no information was identified in the files, it is assumed that the additional investigation was conducted. In evidence is a 14 September 1988 letter from Kimberly-Clark to the Ohio EPA, Division of Solid and Hazardous Waste Management in which the release and resulting investigation was discussed. In the letter, Kimberly-Clark reported that contaminated soil was found down to a depth of approximately 10 feet below grade, where a clay layer was identified. It was reported that the impacts did not penetrate the clay layer. Further, the letter indicated that Kimberly-Clark was in the process of retaining a contractor to remove and dispose of the stockpiled soils. Apparently, more than one year passed before the work was conducted, as evidenced by a 20 October 1989 request for proposal from Kimberly-Clark to a local contractor (Ecolotec) to conduct additional investigation. Information regarding eventual remedial efforts are presented in Section 4.2.

Table 2. Other "Tanks" of Potential Concern at Plant No. 1

Tank Identification	Contents	Location	Status
20,000-gallon bare steel	No. 2 fuel oil	Hobart/Spinnaker	Hobart is owner/operator Still present, current status of operation not known
3,500-gallon "spill tank"	Contained spills from raw material off-loading	North side – Building No. 2	Installation date unknown Removed 1986
2 x 2,000-gallon aeration "tanks"	Toluene and alcohol	Northeast corner – Bldg. 1A	Installation date unknown Removed 1990's

A 20,000-gallon fuel oil UST straddles the former Hobart/Spinnaker property line (now completely on Hobart property). The tank is still present. In 1994, Kimberly-Clark conducted an investigation around the tank, and near the abandoned railroad spur to identify potential impacts to soil. A total of 8 soil borings were drilled. Polynuclear aromatic hydrocarbons (PAHs) and low levels of benzene, toluene, ethylbenzene and xylenes were identified in one or more of the borings. Although PAHs could be related to a release of fuel oil, in this case it appears unlikely because no measurable levels of total petroleum hydrocarbons and very low levels of naphthalene were detected in the samples. Also believed to be unrelated to the fuel oil tank, halogenated VOCs were identified in several borings, including trichloroethene, tetrachloroethene and associated breakdown products.

Several documents reference a 3,000- to 3,500-gallon "spill" tank that was present on the north side of Building 2 to contain spills or leaks that occurred during railcar, and more recently, truck off-loading of chemicals. It was reported in the files in 14 September 1993 document that this "tank" was removed 30 June 1986. Mr. Ron Klenk, Corporate EHS Manager for Spinnaker, indicated that it was/is a sump. No additional information was identified in regard to this "tank".

Two "aeration tanks" (actually a vault) were formerly located on the northeast corner of Building No. 1A. Mr. Ron Klenk reported that these were essentially gravel-filled pits where solvent-contaminated wastewaters were transferred. Air would be bubble up through the water to volatilize the VOCs that were present in the water. This area was removed during subsequent remedial activities conducted at the subject property, as discussed in Section 4.2.

Plant No. 2

Three USTs were formerly present at the subject property, as listed below. The spill tank is still in place, but is not being used.

Table 3. *Underground Storage Tanks at Plant No. 2*

Tank Identification	Contents	Location	Status
2 x 20,000-gallon bare steel	No. 2 fuel oil	Northeast side of building, outside near former chemical offloading area	Installed 1976 Removed 27 October 1988
10,000-gallon bare steel "spill tank"	Waste fluids from spills related to chemical offloading	Northeast side of building, outside near former chemical offloading area	Installed 1976 Still in place

In October 1988, the two, 20,000-gallon fuel oil USTs were removed by Hines Builders. During excavation of the "west" tank, evidence of a release was identified. It was reported in a 4 November 1988 Kimberly-Clark internal memorandum that the release occurred as the result of an overflow in preparation for a November 1987 tank tightness test. The stained soil was removed, and confirmatory samples were collected. In addition, a sheen of oil was reported on the water present in the excavation. At the direction of the Troy Fire Department representative, absorbent pads were used to clean up the sheen.

One, 10,000-gallon bare steel UST is present at Plant No. 2 to contain spills of "non-hazardous" chemicals in the offloading area. The tank collected fluids via a 3-inch diameter fill port that is flush with the concrete pad. Significant staining was identified on the pad and surrounding soil. The offloading area has been moved further to the west, and this area is no longer used for offloading. The tank is still in place.

Aboveground Tanks

Plant No. 1

An aboveground storage tank (AST) farm was formerly located west of Building No. 5 (see Figure 4). The area consisted of a 10,000-gallon virgin methanol tank, a 10,000-gallon virgin toluene tank, a 30,000-gallon fuel oil tank, and a 10,000-gallon fuel oil tank (later converted to a recovered toluene tank). Underground piping to the converted recovered toluene

tank ran from the solvent recovery area along the north side of the buildings to the tank. Aboveground conveyance piping related to the other tanks ran along pipe racks that were affixed to the north side of the buildings.

Table 4. *Outdoor AST Summary for Plant No. 1*

Tank Identification	Contents	Location	Status
30,000-gallon steel upright tank	No. 2 fuel oil	West tank farm	Removed Spring 1995
10,000-gallon steel tank	No. 2 fuel oil; converted to reclaimed toluene	West tank farm	Removed Spring 1995
10,000-gallon steel tank	Virgin toluene	West tank farm	Removed Spring 1995
10,000-gallon steel tank	Virgin methanol	West tank farm	Removed Spring 1995
10,000-gallon double-walled steel	Virgin toluene	East tank farm	Installed 1995No longer used
10,000-gallon double-walled steel	Virgin methanol	East tank farm	Installed 1995No longer used
10,000-gallon double-walled steel	Reclaimed toluene	East tank farm	Installed 1995No longer used

In 1993, a site investigation was conducted by GZA Geoenvironmental, Inc. (GZA) and Applied Environmental Services, Inc. (AES), including investigation of the soil/groundwater in the area of the ASTs. Results of the investigation are provided in Section 4.2. Based on the results of the investigation, a remediation plan was developed that included removal of the ASTs. In 1995, the tanks were removed as part of the remedial efforts at the subject property.

In 1995, a new AST tank farm was constructed on the east side of the subject property. Three, 10,000-gallon ASTs were installed. The tanks stored virgin toluene and methanol and reclaimed toluene. The tanks are double-walled enclosed steel tanks situated in a concrete containment dike. All piping is above grade. These tanks were taken out of service in 1999 when the solvent-based coating operations were discontinued. The tanks and associated piping are still in place.

Table 5. *Indoor AST Summary for Plant No. 1*

Tank Identification	Contents	Location	Status
Tanks 5A and 5B	Former solvent-based coating mixing tanks, now used for mixing for barrier coat (clay-based)	Building 1A – second floor	Still in use for barrier coating line
Tanks 6A and 6B	Former solvent-based coating mixing tanks	Building 1A – second floor	No longer in use, still present
Mixing tanks (3)	Glues/adhesive	Building 2 – ground floor	
Coating tanks (3)	Glue mixing	Building 2 – second floor	Tanks no longer used
Mixing tanks (4)	Glues (hot seal)	Building 3 – second floor	No longer used, two tanks remain
Melting tanks (2)	Wax	Building 3 – second floor	No longer used
Bulk storage tank (6,000-gallon)	Adhesive	Building 5 – ground floor	Currently in use

Plant No. 2

There are no ASTs located outside at Plant No. 2. Several storage tanks are located inside the building, as summarized below in Table 6. Water-based raw materials are transferred from tanker trucks through in-plant piping to the storage tanks. The transfer area for the glue storage and mixing tanks is located on a concrete pad with a trenched containment pit designed to collect any releases of materials.

Table 6. *Indoor AST Summary for Plant No. 2*

Tank Identification	Contents	Location	Status
10,000-gallon glue mixing tanks (3)	Glue	Northwest corner of building	Currently in use
5,000-gallon glue waste tank (1)	Glue waste	Northwest corner of building	Currently in use
Chill tank	Water	North side of building, near center	Currently in use
11,000-gallon glue mix tank (1)	Glue	Northwest corner of building	Currently in use
5,000-gallon water-based raw material tanks (3)	Water-based raw materials	Northwest corner of building	Currently in use

SARA/ EPCRA

Plant No. 1

According to facility personnel, the facility evaluates the hazardous constituents of all materials used on site on an annual basis to determine the SARA release reporting (Form R) and Emergency Planning and Community Right to Know Act (EPCRA) hazardous chemical inventory (Tier I and II) reporting requirements for the facility.

EPCRA Tier II inventory reporting has been completed for ammonia and sulfuric acid, both in bottles and in fork truck batteries, for 1998 through 2000. Methanol and toluene were also reported for calendar years 1987 through 1999 and 1,1,1-trichloroethane was reported for calendar years 1988 through 1992.

The facility's Standard Industrial Classification (SIC) code of 2671, is a designation that subjects the facility to Form R release reporting requirements under EPCRA. Because the facility processed or otherwise used EPCRA Section 313 chemicals in excess of the applicable thresholds, Form R reporting was required prior to the removal of the solvent-based coating operations.

The facility last filed a Form R report for calendar year 1999 when it reported processing toluene and methanol in excess of the 25,000 pound processing thresholds. No releases were reported. The facility reported air emissions, on-site recycling and energy use off-site.

Form R reporting is no longer required at the facility, as solvent-based coating operations are no longer conducted.

Plant No. 2

According to facility personnel, the facility evaluates the hazardous constituents of all materials used on site on an annual basis to determine the SARA release reporting (Form R) and Emergency Planning and Community Right to Know Act (EPCRA) hazardous chemical inventory (Tier I and II) reporting requirements for the facility.

EPCRA Tier II inventory reporting for the facility has been limited to sulfuric acid contained in fork truck batteries and vinyl acetate, a component of several raw materials, between 1998 and 2000.

The facility's Standard Industrial Classification (SIC) code of 2671, is a designation that subjects the facility to Form R release reporting requirements under the EPCRA. The facility does not process or otherwise use EPCRA Section 313 chemicals in excess of the applicable thresholds, therefore Form R reporting is not required. Form R reports were filed for 1,1,1-trichloroethane from 1987 through 1992

Spill Prevention Control and Countermeasure (SPCC) Plans

Plant No. 1

The volume of petroleum stored on site is over the applicable thresholds of 1,320 gallons in aggregate. Based on the volume of petroleum stored on site, the facility is subject to SPCC Plan requirements (40 CFR 112). Although a plan was not available for review during the site assessment, according to Ronald Klenk, the requirements of the SPPC Plan have been incorporated into the Hazardous Waste Contingency Plan.

Plant No. 2

The volume of petroleum stored on site is below the applicable thresholds of 1,320 gallons in aggregate and there are no petroleum storage tanks. Based on the volume of petroleum stored on site, the facility is not subject to the SPCC Plan requirements.

Other Plans

Although not made available for review, it is reported that each facility maintains a Hazardous Waste Contingency Plan.

3.5 *HAZARDOUS AND NON-HAZARDOUS WASTE MANAGEMENT*

Hazardous Waste

Plant No. 1

Permitting and Enforcement History

In 1980, Kimberly-Clark submitted the *Notification of Hazardous Waste Activity* form to the US EPA. A hazardous waste storage pad was constructed west of the buildings (see Figure 2). In addition, a RCRA Part A application was submitted.

In 1982, the Ohio EPA conducted a hazardous waste inspection. Several deficiencies were reported related to waste manifesting and training. Per an inspection report by Ohio EPA in 1984-85, the deficiencies were corrected.

In 1986, Kimberly-Clark requested the withdrawal of the Part A Permit Application. Based on the information provided, the US EPA determined that a permit was not required for the subject property.

In 1988, Kimberly-Clark reported to the US EPA the storage of sodium pentachlorophenol (from a boiler additive). The 90-day storage limit had been exceeded because no outlet for disposal could be identified. The waste was generated in 1987. A RCRA closure plan was prepared, and the waste sodium pentachlorophenol storage area was closed in 1989. On 26 July 1989, the waste was transported to Technical Environmental Services, Inc. in LaPorte, TX for disposal.

In 1991, the Ohio EPA conducted a hazardous waste inspection. Several administrative violations were identified, but were not determined to have material impact.

In 1992, the US EPA, Region 5 (using PRC Environmental as a contractor) conducted a Preliminary Assessment/Visual Site Inspection (PA/VSI) at the subject property to determine the need for RCRA corrective action, and list the property in terms of priority for action. The inspection was conducted as a result of the Part A permit application for the sodium pentachlorophenol waste, and resulting closure efforts. During the inspection, several solid waste management units (SWMUs) and areas of concern (AOCs) were identified:

- SWMU 1 – former pentachlorophenol waste storage area

- SWMU 2 – hazardous waste storage pad (outside)
- SWMU 3 – satellite accumulation areas (6)
- SWMU 4 – waste oil storage area
- AOC – removed/closed USTs
  - 400-gallon gasoline UST (removed)
  - 3,000-gallon fuel oil UST (removed)
  - 3,000-gallon toluene UST (removed)
  - 15,000-gallon fuel oil UST (closed in place – under building)

The inspection yielded a low priority ranking for the subject property. A review of the current RCRA corrective action databases listed Spinnaker Coating as a low priority site.

Waste Generation, Management, Recordkeeping and Reporting

The facility has been a large quantity generator of hazardous waste (USEPA ID No. OHD088648282). Removing the solvent-based coating lines has reduced the amount of hazardous generated to below the threshold of a large quantity generator. Approximately 220 pounds of hazardous waste were generated in 2000, 22,500 pounds in 1999 and 63,000 pounds in 1998. The primary hazardous wastes still generated at the facility are waste combustible liquids, waste flammable liquids, waste petroleum naphtha and flammable liquids with rags and filters with waste codes D001, D008, D018, D039, D040, F003, F005.

Waste is sent to one of the following disposal facilities for fuel blending:

- Safety Kleen, OHD980587364, located in Hebron, Ohio
- Rineco, ARD981057870, located in Benton, Arizona
- Safety Kleen, KYD053348108, located in Smithfield, Kentucky

Hazardous waste is staged inside flammable cabinets inside the fenced hazardous waste storage area located on the western side of the property. The cabinets are installed on concrete pads, and provide secondary containment.

The facility appears to be operating in compliance with the administrative requirements for large quantity generators of hazardous waste. These

requirements include completion of manifests and land disposal restriction forms, recordkeeping, employee training, labeling, emergency planning, inspections and annual reporting.

Plant No. 2

The facility is a large quantity generator of hazardous waste (USEPA ID No. OHD980569263). Approximately 3,800 pounds of hazardous waste were generated in 2000, 5,300 pounds in 1999 and 10,700 pounds in 1998. The primary hazardous wastes generated at the facility are waste combustible liquids, waste flammable liquids, waste petroleum naphtha and flammable liquids with rags and filters with waste codes D001, D018, D039, D040 and F024.

Waste is sent to one of the following disposal facilities for fuel blending:

- Safety Kleen, OHD980587364, located in Hebron, Ohio
- Rineco, ARD981057870, located in Benton, Arizona
- Safety Kleen, KYD053348108, located in Smithfield, Kentucky

Hazardous waste is staged inside the fenced hazardous waste storage area located on the northern side of the property. The pad is constructed of concrete and includes a concrete berm around the containment area, with a dead-head sump located near the center of the area.

The facility appears to be operating in compliance with the administrative requirements for large quantity generators of hazardous. These requirements include completion of manifests and land disposal restriction forms, recordkeeping, employee training, labeling, emergency planning, inspections and annual reporting.

Non-Hazardous Waste

Plant No. 1

Non hazardous solid waste is generated at the subject property. Recyclable paper, aluminum, glass, plastic and cardboard materials are stored in small bins or containers inside the buildings. Solid waste and wood are stored outside of the building in three 20-cubic yard roll-off containers. The solid waste and recyclable materials are removed regularly by Industrial Waste Management and shipped to the Miami County Transfer Station.

Waste paper is shredded and baled. The paper is sent to an off-site facility for pelletizing. The pelletized paper is used as a fuel source. Because slitting is now done only periodically at this facility, the shredder is used infrequently.

Minimal volumes of waste oil and grease are generated, primarily from maintenance activities.

An incinerator was formerly located on the subject property (at least until 1957 as shown in facility drawings), in the northeast corner of what is now Building No. 5. Two concrete-lined ash pits were associated with the incinerator. It was reported that the incinerator only accepted paper trash, and that the ash was sent off-site for disposal. No additional information was available regarding the dates of operation, the removal of the incinerator and ash pits, or the final disposition of the ash.

Plant No. 2

Non-hazardous waste management practices at Plant No. 2 are similar to those for Plant No. 1. Waste paper is either baled or placed in a compactor that is loaded inside on the south side of the building, with the compactor being located outside.

Minimal volumes of waste oil and grease are generated, primarily from maintenance activities.

Off-Site Waste Disposal Evaluation

Kimberly-Clark, as the successor to Brown Bridge Paper Company, has pending Superfund liability for waste that was shipped to the Chemical Waste Management facility located in Springfield, Ohio prior to 1981. The 1994 purchase agreement specifically indemnifies Spinnaker with regard to any off-site liabilities prior to the closing date (September 1994), including potential Superfund liabilities.

3.6 *WATER, WASTEWATER AND STORMWATER*

Water

The facility is connected to the City of Troy public water system. The public water supply is used for all potable and sanitary uses on-site. However, two on-site production wells are used in combination with the public water supply to provide process water supply. As described in

Section 3.2, the exact details regarding the construction and location of the well are not known. The facility uses about 20,000 gallons per day (gpd) of water from the City of Troy (12,000 gpd process/8,000 gpd sanitary). Spinnaker augments the process water usage with an average of 10,000 gpd from the on-site production wells.

Water samples have been collected from the on-site supply well (combined flow at wellhead) on several occasions. No VOCs have been detected in the water samples during any sampling events.

Sixteen groundwater monitoring wells (GZA-1 and 2; EEIB –2, 4, 8, 9, and 12; and, KMW- 1 through 9)are present at the subject property, along with four groundwater recovery wells (PW-1 through PW-4), four air sparging wells (AS1 through AS4) and five vapor extraction wells (SVE1 through SVE5). The wells were installed during various stages of environmental investigations that have been conducted. In addition, four groundwater pumping wells were installed at the subject property in conjunction with the groundwater pump and treat system installed in 1995. These wells continue to operate. Until June 1997, treated groundwater was discharged to the City of Troy POTW. Kimberly-Clark applied for and obtained an NPDES permit to discharge the treated groundwater to the Great Miami River, and began discharging to the river in June 1997.

Wastewater

Plant No. 1

The facility has an out-of-service (last year) cooling tower that was used with a previous cooling water system.

Non-contact cooling water is discharged to the Great Miami River via one outfall, a 12-inch diameter storm water line (NPDES Permit No. OH0010626). The storm water pumping and transfer station is located in the basement of Building No. 2, on the north side of the building. The discharge line extends underground, north to the Great Miami River. The outfall was located beneath the water level of the river on the date of the site inspection.

ERM reviewed quarterly wastewater monitoring data for 1998 through 2001. The data revealed that the facility exceeded the zinc standard in June and September in 1998. According to facility personnel, the zinc was a component of some of the adhesives. No other violations were noted.

Other process wastewater is generated in regard to the coating operations. This water is either re-circulated within the system, or contained with adhesive waste in waste totes for off-site disposal.

Treated effluent from the groundwater remediation system is discharged to the Great Miami River (NPDES Permit No. 1IFOO009*ED). Monitoring general water quality parameters are VOCs and PAHs. Available records indicate that the effluent concentrations have been in compliance with the applicable standards. It was reported that PAHs were detected, but not at concentrations above the discharge limits. The actual discharge monitoring reports are maintained by Kimberly-Clark, and were not available for review.

Annual Pretreatment Program Inspections conducted by the City of Troy, Utilities Supervision for sanitary discharges were reviewed for 1998 through 2000. The facility was in compliance with all requirements.

Plant No. 2

Wastewater discharges from the facility are limited to sanitary, boiler blow-down and non-contact cooling water and are released to the sanitary sewer. Based on our current understanding of site conditions and discharges, no permit is required for these discharges.

Stormwater

Plant No. 1

Precipitation that falls on the subject property is collected in a number of storm drains in paved and unpaved areas that tie into the Great Miami River to the north of the subject property. In 1994, Spinnaker submitted a Notice of Intent (NOI) to apply for coverage under the Ohio General Permit (Permit No. OHR000002) That permit expired in 1999. In 1999, Spinnaker submitted an NOI for coverage under the new Ohio General Permit (Permit No. OHR000003). That NOI was never processed by Ohio EPA. In January 2002, Spinnaker re-applied for coverage under the new Ohio General Permit. Currently, stormwater from the plant is discharged to the Miami River pursuant to the facility's NPDES permit for discharge of non-contact cooling water.

The facility prepared a storm water pollution prevention plan (SWP3) in 1994. This plan has not been updated since 1994. Evidence of annual compliance certification were not identified in the files.

Plant No. 2

Precipitation that falls on the subject property is collected in a number of storm drains in paved and unpaved areas that tie into the storm sewer system that drains from the southeastern corner of the property, to a nearby retention pond and eventually to the Great Miami River.

Although no record of a permit was identified for Plant No. 2, it is reported that a similar permitting history (1994 – 1999) was the case for this property. On 11 September 2000, the Ohio EPA submitted a request for renewal of the permit. On 16 January 2002, Mr. Grant Wilkinson (legal counsel for Spinnaker) discussed the permit status with Mr. John Morrison (Ohio EPA, Division of Surface Water). On 17 January 2002, a NOI was submitted by Spinnaker for coverage under the new Ohio EPA General Permit (Permit No. OHR000003).

The facility prepared a SWP3 in 1994. This plan has not been updated since 1994. Evidence of annual compliance certification were not identified in the files.

3.7 *AIR EMISSIONS*

Plant No. 1

The facility, Ohio EPA Premise number 0855140083, is subject to Title V federal operating permit requirements. The Title V permit was issued draft October 29, 1999 and is expected to be issued final in April 2002. The permit lists the following insignificant emissions units:

- B001, Leffel boiler #4
- B002, Bryan model L-56 boiler
- B003, Leffel boiler #2
- B004, Leffel boiler #3
- K008, #16 coater
- L001, Safety Kleen degreaser
- P004, Majac grinder
- T001, Reclaimed toluene tank
- T002, Methanol tank
- T003, New toluene tank
- T006, Holding tank 5A
- T007, Holding tank 5B
- T008, Holding tank 6A
- T009, Holding tank 6B

- Z001, Slitting space heater
- Z002, Solvent space heater
- Z007, Heat seal mix
- Z011, #26 duster (no longer used – associated with heat seal)

The following emissions units have specific terms and conditions.

- K002, Paper coater no. 5, limited to compliant coating use, less than or equal to 2.9 pounds of volatile organic compounds (VOC) per gallon of coating, excluding water and exempt solvents

- K003, Paper coater no. 1, limited to compliant coating use, less than or equal to 2.9 pounds of volatile organic compounds (VOC) per gallon of coating, excluding water and exempt solvents

- K004, Paper coater no. 2 with flexographic printing, limited to 40% VOC by volume of the coating and ink, excluding water and exempt solvents or 25% VOC by volume of the volatile matter in the coating and ink. Limited to 400 kilograms of hazardous air pollutants per month.

- K006, Paper coater no. 4, limited to compliant coating use, less than or equal to 2.9 pounds of volatile organic compounds (VOC) per gallon of coating, excluding water and exempt solvents

- K010, Flexographic printing press no. 61, limited to 40% VOC by volume of the coating and ink, excluding water and exempt solvents or 25% VOC by volume of the volatile matter in the coating and ink. Limited to 400 kilograms of hazardous air pollutants per month. State only requirements that were part of the issued Permit to Install 08-3949 reflect the potential to emit, 1.55 pounds per hour and 6.79 tons per year, and limit coating to 16% VOC by volume of the coating and ink excluding water are also included.

Some of the permitted emission units are no longer present, or are not in use. As part of post-acquisition integration, it may be appropriate to reconcile the permits to match current operations.

Plant No. 2

The facility, Ohio EPA Premise Number 0855140359, has one active operating permit for the #20 silicone paper coater that expires December 11, 2006. The emission source is limited to 0.23 pounds of VOC per gallon of coating and emissions of 4.23 pounds of VOC per hour and 19.04 tons of VOC per year. Number 19 coater with flexographic printer and #17

coater, hot melt were issued registration operating permits on October 24, 1986 and November 28, 1986 respectively.

3.8 *POLYCHLORINATED BIPHENYLS (PCBS)*

ERM inspected the property for types of equipment that have been historically associated with the use of PCBs as a dielectric fluid coolant and stabilizer. It was indicated by Mr. Ron Klenk (Spinnaker) that no PCBs are currently present in electrical equipment or hydraulic oils at the subject properties.

Plant No. 1

Electrical vaults are present in the basement of Building No. 1A and the ground floor of Building No. 5. A total of 12 transformers are present. It is reported that the PCBs in the transformer oils were removed prior to 1983. Currently, it is reported that 11 of the transformers contain mineral oil, and one is a dry-type transformer. Records provided by Spinnaker indicate that in testing conducted in the late 1980s, the transformers all tested below at or below 24 parts per million (ppm), with most detected at less than 5 ppm. Outside, there are two pole-mounted transformers that are owned and operated by Dayton Power & Light.

Fluorescent lights are present in facility buildings. Based on the age of the buildings, it is possible that some of the light ballasts contain PCBs. Although disposal of fluorescent light ballasts is not regulated, best management practice would suggest that fluorescent light ballasts removed in bulk during remodeling or demolition be disposed of properly at a permitted facility. Currently, the light ballast and lamps are disposed along with other solid waste generated at the facility.

Plant No. 2

Based on the date of construction and an inspection of the subject property, no potential PCB-containing equipment was identified. A dry-type transformer was located outside, on the north side of the manufacturing building.

3.9 *VISUAL INDICATIONS OF ON-SITE CONTAMINATION*

Plant No. 1

No evidence of staining or sheens on standing water were identified on the grounds of the subject property. Most of the exterior grounds are paved, and no significant staining was identified on the paved exterior surfaces. Prior to the remedial efforts conducted at the subject property beginning in 1995, areas of staining and obvious releases were identified, but have since been addressed.

Staining was identified in numerous locations inside the Plant No. 1 buildings. For the most part, the areas of staining do not represent a material threat of a release to the environment because the staining occurs on upper or ground floors under which there are other floors or basements. In terms of visual indications in the basement or ground floors where there is no basement, staining was observed in several areas, include the following:

- Ink from flexographic printing operations in Building No. 1A has stained the walls, sink and concrete floor. The sink drains to the sanitary sewer system. Based on a review of the MSDS for the inks, this is not interpreted to represent a potential or material threat of a release to the environment.

- Staining of the concrete floor was observed around the transfer piping associated with the 6,000-gallon raw adhesive material storage tank located in Building No. 5. The adhesive is a water-based chemical and does not represent a potential or material threat of a release to the environment.

- Staining was observed on the floor in several of the drum storage areas. The staining was associated with general housekeeping and is not interpreted to represent a potential or material threat of a release to the environment.

- Staining was observed on the concrete floor under and around many of the coating lines, but the nature of the glues and coating materials are such that the conditions do not represent a potential or material threat of a release to the environment.

- Former hot melt glue mixing tanks (located in basement of Building No. 2) and associated concrete containment areas contained hardened glue and were stained. These conditions do not represent a potential or material threat of a release to the environment.

Plant No. 2

Significant staining was observed in the raw material bulk unloading and transfer areas. The staining was identified on concrete surfaces and on adjacent unpaved surfaces. Based on the nature of the raw materials unloaded in these areas (glue formulations), it is likely that these releases present a minimal risk to the environment. However, it cannot be conclusively demonstrated whether impacts are present in these areas.

No other areas of significant staining were identified in other exterior areas. No significant staining was identified on the surface of the concrete hazardous waste and drum storage area. The entire south side of the subject property is paved, and the west and north sides of the subject property are unpaved. No significant staining was observed in these areas.

Staining and spillage was in evidence around and under the coating lines, primarily related to silicone and adhesive/glue. Based on the nature of the materials, these areas do not represent a significant or material threat of a release to the environment. Significant staining was observed in the boiler room located on the north side of the building. Within the room are the transfer piping for the raw material offloading. The transfer piping is situated over a large sink. In addition, staining was observed on the floor around several drums that were stored in the room. The room also contains a "shower" where equipment is cleaned. The shower has a sump that drains to the sanitary sewer.

3.10 *ASBESTOS-CONTAINING MATERIALS*

Asbestos was banned in most friable building materials (sprayed applied surfacing materials and thermal system insulation) in 1978, but the Occupational Safety and Health Administration deems spray applied surfacing materials, thermal system insulation materials, and vinyl flooring materials as "presumed asbestos-containing materials" (PACMs) if they are present in pre-1980 buildings (Title 29 of the Code of Federal Regulations, Parts 1910.1001 and 1926.1101). Historical records indicate that the site building was constructed prior to 1980, and therefore the PACMs may have been used in building construction.

The OSHA PACM definition does not include all suspect asbestos-containing material (ACM). The use of ACMs as building materials, except in the case of friable surfacing materials and thermal system insulation, has not been prohibited. Building materials that are ACMs can

continue to be used. In 1989 the EPA published the Ban and Phase-Out Final Rule, allowing a 7-year period to prohibit the future manufacturing, importation, processing, and distribution in commerce of most ACMs. However, this rule was partially overturned in 1992, an action that allows the continued use of asbestos in a variety of products. Although less likely, asbestos can still be found in some present day building materials, including floor tile.

Under OSHA regulations building and/or facility owners are required to identify the presence, location, and quantity of ACMs in structures built prior to 1981 if construction, alteration, repair, maintenance, renovation, or custodial activities are performed. Building and/or facility owners are required to communicate the presence, location, and quantity of PACMs to facility employees or subcontractors and/or building tenants.

Plant No. 1

ERM obtained a copy of an asbestos survey of the building at 518 E. Water Street. The survey was performed by Environmental Enterprises, Inc. on behalf of Kimberly-Clark Corporation on 6 July, 1994. The survey included the Buildings 1A, 1, 2, 3, 4, and 5.

Based on the survey, a copy of which is presented in Appendix C, asbestos is present in the buildings at various locations. The majority of the ACMs identified were reported to be present within boiler room, bathrooms, and basement. Table 3 is a summary of the asbestos results.

Table 7. Asbestos Survey Summary for 518 E. Water Street

Type of ACM	Description and Location
Thermal System Insulation	*Building 1A – Ground Level, Second Level*
	Building 1 – Ground Level
	Building 2 – Ground Level, Second Level Mezzanine, Third Level, Fourth Level
	Building 3 – Ground Level,
Surfacing Material	*Building 2 – Ground and Fourth Levels acoustical ceiling plaster material*
Fire Door Insulation	*Building 1A – Basement Level, Second Level*
	Building 2 – Basement Level, Second Level Mezzanine, Third Level
	Building 4 – Boiler Room, Maintenance Shop
	Building 5 – Second Level
Miscellaneous Materials	*Transite Board – Building 3 Ground Level*
	Roofing Felt – Building 1A Roof
	Floor Tile – Building 2 Second Level Factory Conference Room Cage Area

During the inspection of the subject property, ERM observed blue and red tape or paint identifying the remaining ACMs.

Plant No. 2

The facility located at 130 Mary Bill Drive was constructed after 1980 and therefore the potential for the presence of ACMs is considered minimal. No comprehensive survey or sampling has been conducted to confirm the absence or presence of ACMs.

3.12 *WETLANDS*

No information on mapped wetlands was identified for either facility. No evidence of potential wetland areas was identified during the inspection of the subject properties.

3.13 *LEAD-CONTAINING MATERIALS*

In 1978 the Lead-Based Paint Poison Prevention Act (LBPPPA) banned the sale and use of lead-based paint. The Department of Housing and Urban Development (HUD) was later mandated under the Act to conduct complete inspections of all Public and Indian Housing Programs by 1994

and to create comprehensive and workable plans for abatement. The Residential Lead-Based Paint Hazard Reduction Act of 1992 (Title X) provides guidance on sampling, maximum safe levels in residences, abatement, and evaluation and control of LBP hazards. Title X indicates that a positive finding of lead content in a dry film of paint is 0.5 percent by weight (5,000 milligrams/kilograms).

ERM conducted a visual survey of accessible, painted surfaces at the subject property. These areas included interior and exterior architectural surfaces and fixtures. This type of survey should not be interpreted as a comprehensive evaluation of lead-based paint at the property. Painted interior and exterior surfaces were in fair overall condition with minor to significant peeling, chipping, and cracking. Based on the age of the painted surfaces, the paints could contain lead.

3.14 *OZONE DEPLETING SUBSTANCES*

Plant No. 1

The facility's use of ozone-depleting substances (ODS) is limited to comfort HVAC equipment in the office areas. HVAC maintenance, including that involving ODS, is performed by certified outside contractors. The contractors are required to provide the facility with information about the date, type of service, and amount of refrigerant added to these appliances containing in excess of 50 pounds of refrigerant. These records are maintained on site.

Plant No. 2

The facility's use of ozone-depleting substances (ODS) is limited to comfort HVAC equipment in the office and laboratory areas and two chillers used in the manufacturing process. The McQuay unit contains 300 pounds of R-22 and the Trane unit contains 62 pounds of R-22. HVAC maintenance, including that involving ODS, is performed by certified outside contractors. The contractors are required to provide the facility with information about the date, type of service, and amount of refrigerant added to these appliances containing in excess of 50 pounds of refrigerant. These records are maintained on site.

3.15 *RADIOACTIVE SOURCES AND RADON*

No radioactive sources were identified at either Spinnaker facility.

A radon gas survey was not conducted during this assessment. However, information supplied by Environmental Data Resources that was obtained from the U.S. Environmental Protection Agency (USEPA), indicates that the subject properties are located in Zone 1, where the predicted average indoor radon level is typically greater than 4 (pCi/L) picocuries per liter, with an average of 8 pCi/L in five sites that were tested. Radon mitigation measures are recommended by the USEPA when concentrations of radon exceed 4 pCi/L . Site-specific sampling has not been performed to evaluate the concentrations of radon within the building at the subject property.

Radon is a colorless, odorless gas that exists naturally in some geologic formations. According to the Colorado Department of Health Radiation Control Division, "radon gas can enter a home from the soil through dirt floors, cracks in concrete floors and walls, floor drains, sump pumps, water wells, joints, and tiny cracks or pores in hollow-block walls. Radon levels are generally highest in basements and ground-floor rooms in contact with the earth." Building products, especially cinder blocks made from material high in uranium and other alpha-emitting radionuclides, may release radon gas.

3.17 ENVIRONMENTAL MANAGEMENT SYSTEMS

No formal environmental management system is in place for Spinnaker. The personnel responsible for environmental matters at the facilities located in Troy, Ohio appeared motivated and concerned about environmental compliance.

4.0 *ASSESSMENT OF PAST LAND USE AND OPERATIONS*

4.1 *GENERAL INFORMATION*

Development of the subject property for Plant No. 1 (518 E. Water Street) is recorded as early as 1854. Since that time, the land has been used for industrial purposes. There is a long and significant history of site assessment, investigation and remediation, which is described below in detail.

For Plant No. 2 (130 Mary Bill Drive), the subject property remained undeveloped until the first phase of the manufacturing building was constructed in 1977. The adjacent 5-acre parcel remains undeveloped. Limited investigation and remediation was conducted at Plant No. 2 in conjunction with proposed and/or actual property transactions in 1993-94. A summary of past land use and operations in regard to Plant No. 2 is provided below.

4.2 *PREVIOUS ENVIRONMENTAL REPORTS/ CHRONOLOGY OF INVESTIGATIVE AND REMEDIAL EFFORTS*

ERM reviewed a number of reports and documents in regard to previous environmental studies completed at the subject properties. The documents reviewed, and summarized findings are presented below. Copies of pertinent site figures or documents are provided in Appendix D.

Plant No. 1

1. Internal Correspondence and Correspondence to the State Fire Marshal and Ohio EPA regarding USTs. 1987 – 1993.

USTs were removed and/or abandoned in place at Plant No. 1 in 1986 and 1988 by Kimberly-Clark. Information regarding the tank removals is provided in Section 3.4.2 of this report. Information that was reviewed indicated that a release was identified in regard to the former 3,000-gallon toluene tank located near the toluene recovery system. Additional sampling and analysis was conducted in regard to this tank, with eventual

remedial efforts being conducted in 1995 as part of the overall remediation for the subject property.

When the release from the toluene tank was reported to the Ohio EPA in 1989, it was also reported that a release of cooling tower blowdown water occurred, and that soil samples from the area of the release contained hexavalent chromium (concentrations not reported). The cooling tower is located in the northeast corner of Building No. 1A. The spill occurred in the area of the toluene recovery system. No documentation regarding the volume of soil removed or the results of confirmatory sampling, if conducted, were identified in the files.

2. *Phase I/ II Environmental Site Assessment - GZA Geoenvironmental, Inc. (GZA), October 1993 (conducted for IVEX – copy not available for review)*

3. *Site Investigations and Remediation Recommendations. Applied Engineering & Science, Inc.(AES) November 1993.*

- GZA work was conducted October 12–14, 1993 pursuant to potential purchase of assets by IVEX Coating, Inc. The document was not available for review, as the deal fell through due to Federal Trade Commission concerns. Applied Engineering & Science, Inc. (AES) was on site to split samples on behalf of Kimberly-Clark during first phase of the project

- AES completed a second phase of investigation on October 20–26, 1993 for Kimberly-Clark.

  Areas of concern identified included:

  - Bulk Storage Area - ASTs
  - Hazardous Waste Storage Pad
  - Former 400-gallon gasoline UST (east of hazardous waste storage)
  - Former 3,000-gallon fuel oil UST (shipping dock)
  - Closed 15,000-gallon fuel oil UST (under Building No. 2)
  - Toluene recovery system (east side of Building No. 1A)
  - Former 3,000-gallon toluene UST (toluene recovery system)
  - Non hazardous Waste Storage Area (west side of Building No. 5)
  - Spill tank (east parking lot gate)
  - Bulk unloading area (north side of Building No. 4)

- In-ground aeration tanks (northeast corner of Building No. 1A)

- Soil and groundwater samples were collected. Impacts were identified in soil and groundwater samples related to the following areas:
  - Bulk Storage Area – fuel oil and toluene related impacts (soil and groundwater)
    - Toluene (ND to 660 mg/kg for soil, ND to 320 mg/L for groundwater)
    - PAHs (max. 27 mg/kg in soil, max. 16 mg/L in groundwater)
    - Free-floating product near boring KCB3
    - TCE (ND to 51 μg/L)
    - 111 TCA (ND to 84 μg/kg in soil, ND to 270 μg/L in groundwater)
    - 11 DCA (ND to 120 μg/L)
    - chloroethane (ND to 120 μg/L)
    - Contaminants along north site of building likely related, in large part, to underground piping leaks
  - Non hazardous Waste Storage Area – VOCs (soil and groundwater)
    - TCE (ND to 53 mg/Kg in soil, ND to 400 μg/L)
    - PAHs (GP8 – 38 mg/Kg in soil)
    - Low concentrations – 111-TCA, 11 DCA, chloroethane, vinyl chloride, toluene, benzene
  - Former 3,000-gallon toluene UST – toluene (groundwater)
    - Toluene (GP6 – 260 mg/kg soil, KCB9 - 16 μg/L in groundwater)
    - Low concentrations of ethylbenzene, xylenes, TCE, 11-DCA, PAHs
  - In-ground aeration tank(s) – toluene (groundwater)

- Upgradient groundwater samples indicated the presence of TCE and PCE. An off-site source of these contaminants was suggested.

- AES provided recommendations for remediation and estimated costs for cleanup in report. Estimated costs totaled approximately $1,300,000.

4. Environmental and Occupational Safety and Health Assessment and Compliance Audit; Brown-Bridge Facilities; Troy, Ohio. 8 April 1994. ERM, Inc.

- Work conducted in preparation for possible sale of assets.
- Identified areas consistent with previous reports.
- No sampling and analysis conducted.
- Additional findings:
  - 1994 toluene spill (500 gallons) to soil from aboveground pump in SW corner of carbon adsorption solvent recovery system. The release was reported to the Ohio EPA. Approximately 74 cubic yards of soil were removed. Confirmatory samples indicated that impacts were removed (sample results <2.5 ppm toluene). The results were provided to Ohio EPA and the area was backfilled.
  - It was reported that PCBs in transformer oils were removed prior to 1983. PCBs in dielectric fluids removed from 3 capacitors were removed in 1987.
  - Solid waste incinerator and concrete-lined ash pit operated at Plant #1 – NW corner of Building No. 5. Reported that the incinerator only accepted paper trash, and that ash was sent off-site for disposal.

5. Soil Sampling Results, Hobart UST and Rail Spur Property, Brown-Bridge Facility, Troy, Ohio. June 1994. AES.

- The purpose of the investigation was to identify potential impacts to soil related to the 20,000-gallon fuel oil UST owned and operated by Hobart Cabinet and former railroad spur.
- Nine soil borings were drilled and soil samples were collected for laboratory analysis.
- No total petroleum hydrocarbons (TPH) detected. VOCs and PAHs identified in soil samples. TCE, PCE and breakdown products identified in samples. PAHs identified not indicative of fuel oil release. These contaminants could be migrating onto the subject property.

6. Phase II Report on the Subsurface Contamination on the Real Property known as Kimberly Clark; Brown Bridge Plant; Asbestos Survey;

Remediation Recommendations. July-August 1994. Environmental Enterprises, Inc.

- The work was conducted for a prospective purchaser (Brown Bridge Acquisition Corp – now DBA Spinnaker).
- The findings of the assessment were similar to previous reports.
- Remedial costs were estimated at $1,225,000.
- An asbestos survey was conducted by EEI. Asbestos-containing materials were identified. Provisions for selected abatement were built into the asset purchase agreement with the remaining liability for ACMs going to Spinnaker. A cost estimate to abate the ACMs was provided subsequent to this report.

7. Brown Bridge Acquisition Corporation (DBA as Spinnaker Coating) completes an asset purchase and property purchase, including subject property, from Kimberly-Clark.

Based on the results of the various investigations described above, an asset purchase agreement was structured and finalized in September 1994. As part of the agreement, Kimberly-Clark agreed to take responsibility for the cleanup at the subject property related to the releases identified in 1993-94. In summary, Kimberly-Clark assumed all liabilities, obligations and costs associated with these releases, up to a cap of $2,000,000. In addition, Kimberly-Clark agreed to pay for other losses that exceed $250,000 in aggregate, not to exceed a total of $3,000,000. The indemnification terminated on the third anniversary of the closing date (September 1997), with the exception of the following:

- Any loss or expense to which Spinnaker notified Kimberly-Clark of prior to the termination date;
- Any retained off-site liabilities; and,
- Continued costs up to $2,000,000 for the specified remediation at Plant No. 1.

8. Meetings with Ohio EPA to discuss Site Conditions and Proposed Remediation Strategy

No specific correspondence or meeting notes were available for review, but are assumed to be contained in Kimberly-Clark files. Based on the information reviewed, it is reported that Kimberly-Clark notified the Ohio

EPA of the releases, and approached the Ohio EPA in 1994 to discuss the strategy for addressing the reported releases. After a series of meetings and correspondence, the Ohio EPA claimed that staffing was not available to oversee the remedial efforts, but that remediation should be conducted voluntarily. These efforts preceded the establishment of the Ohio EPA Voluntary Action Program (VAP).

9. Removal of aboveground storage tanks, hazardous waste storage pad, and soil remediation

In Spring 1995, the ASTs located on the west side of the subject property (see Table 4) were removed, along with the former hazardous waste storage pad, non hazardous waste storage area, and underground reclaimed toluene line. During the removal efforts, contaminated soil was excavated. Although the remediation plan called for a biopile to be constructed, the actual soil remediation included the excavation and off-site disposal of approximately 800 cubic yards of impacted soil at a licensed hazardous waste facility.

10. Design and Installation of Remediation Systems

No reports were provided that described that remediation system that was installed in Spring 1995. Based on correspondence and information provided in subsequent reports, it is known that two systems were installed.

For the west end of the subject property, a groundwater pump and treat system was installed, that included four groundwater recovery wells. A treatment building was installed to house a water collection tank with oil skimming, controls and recording equipment, and an air stripper. Initially, exhaust from the air stripper was filtered through carbon canister prior to discharge to the atmosphere. The system pumped at a rate of 15 to 20 gallons per minute (gpm). After four months of monitoring air emission concentrations, it was determined that the canisters were not required to meet the applicable air permitting limits. This system was designed to remediate groundwater impacts related to releases of VOCs and semivolatile compounds in regard to contaminants released from the former fuel oil ASTs and the former hazardous waste, chemical storage and nonhazardous waste storage areas. A permit was obtained to discharge the treated effluent to the City of Troy publicly-owned treatment works (POTW).

For the east end of the subject property, a soil vapor extraction (SVE)/air sparging system was installed, consisting of four air injection wells and

five vapor extraction wells. The system was designed to remediate toluene impacts to soil and groundwater related to releases from the former toluene UST and the former aeration system.

11. Operation and Maintenance of the Remediation Systems and Progress Reporting to Ohio EPA (1995 – 1997)

Both remediation systems began operation in August 1995. Monthly and/or quarterly monitoring of the systems was conducted, and reports were provided to the Ohio EPA. Copies of these reports were not available for review, and it is again assumed that Kimberly-Clark has maintained files in this regard.

Subsequent reports that were available for review indicate that significant progress was made in the remediation of both areas between 1995 and 1997. In 1996, groundwater monitoring results indicated that the contaminant plume had been reduced in size, and the extraction well located furthest to the west was replaced by a well located closer to the center of the groundwater contaminant plume.

Quarterly sampling and analysis for groundwater monitoring wells located on the east end of the subject property indicated that the cleanup goals had been met in February 1997. As a result, the air sparging system was shut down in March 1997. The vapor extraction system was shut down in January 1998. Operation and monitoring of the groundwater remediation on the west end of the subject property continued.

In 1997, Kimberly-Clark applied for and obtained a NPDES permit to discharge the treated effluent to the Great Miami River (Permit No. 1IN00260). The effluent is monitored for selected chemical parameters including VOCs and polynuclear aromatic hydrocarbons (PAHs).

12. Contamination Identified in City of Troy Supply Wells

Records indicate that VOCs have been detected in selected supply wells for the City of Troy on a periodic basis, specifically Well 18. The supply wells in question are located north of the Great Miami River, with Wells 14 and 18 being located about 900 feet and 1,200 feet east/northeast of the subject property, respectively.

The date of the first detection was not identified in the records reviewed. The contaminants of concern were primarily related to halogenated VOCs, specifically cis 1,2-dichloroethene (cis 1,2-DCE) in Well 18. The cis 1,2-DCE has been detected at relatively low concentrations (average of 0.7

micrograms per Liter [$\mu g/L$]), which is two orders of magnitude below the Maximum Contaminant Level for Drinking Water (MCL) of 70 $\mu g/L$.

During Summer 1997, the Ohio EPA retained Earth Tech, Inc. to conduct an investigation in the City of Troy to identify possible sources for the VOCs identified in the supply wells. A total of 43 borings were drilled during the investigation using either a Hurricane or Geoprobe® drilling rig. The results of the investigation were documented in a December 1997 report, as summarized below.

- There are 8 active supply wells located in the City of Troy well field, pumping an average of 3.5 million gallons per day. The wells are installed in the buried valley outwash deposits (3.5 miles wide and 290 feet deep in the Troy area) that consist primarily of sand and gravel, at depths of 110 to 180 feet below grade. Locally thick layers of glacial till (clay) are interbedded with the outwash deposits.

- In 1991, tetrachloroethene (PCE) was detected in Well 12W at a concentration of 3.3 $\mu g/L$ (upgradient [west] of the subject property).

- In 1995, PCE and 1,1,1-trichloroethane were detected in groundwater samples collected at Wampler Buick (approximately one mile upgradient [west/northwest] of the subject property).

- A total of seven borings were drilled on the Hobart Cabinet property, located immediately west of the subject property. The following contaminants (maximum concentrations reported) were identified in the groundwater samples:
  - PCE 3.4 $\mu g/L$
  - TCE 23 $\mu g/L$
  - Cis 1,2-DCE 22.4 $\mu g/L$
  - Trans 1,2-DCE 0.8 $\mu g/L$
  - Benzene 0.9 $\mu g/L$
  - Toluene 1.3 $\mu g/L$
  - Naphthalene 10.4 $\mu g/L$

- One boring was drilled on the east side of the subject property, and yielded the following results:
  - TCE 0.8 $\mu g/L$
  - Cis 1,2-DCE 9.1 $\mu g/L$

- Toluene 0.9 $\mu g/L$

- Based on information provided in correspondence and notes in the files, the Ohio EPA has focused their attention on Wampler Buick and the subject property as potential sources of the VOCs detected in the City of Troy wells. It does not appear that much attention has been given to the Hobart Cabinet property, although this could not be confirmed in the information reviewed.

13. *Ohio EPA Enforcement at the Subject Property (1997 – 98)*

- 22 July 1997 - The Director of the Ohio EPA sent a Director's Final Findings and Orders (DFF&O) to both Kimberly –Clark and Spinnaker requiring a remedial investigation/feasibility study (RI/FS) for the subject property.

- Both Kimberly-Clark and Spinnaker responded to the DFF&O by providing information regarding its initial meetings with the Ohio EPA in 1994-95, and the status of the remedial efforts that had been conducted at the subject property.

- 8 September 1997 - The Ohio EPA sent a response to comments on the proposed DFF&O indicating that although voluntary cleanup was recommended, that did not infer Ohio EPA's consent in regard to the remedial work, and that a DFF&O was still required.

- 17 November 1997 - The Ohio EPA, Division of Emergency and Remedial Response (DERR) sent a letter with specific questions about the cleanup at the subject property.

- 16 July 1998 - A conference call between Ohio EPA, Kimberly-Clark and Spinnaker was held to negotiate the terms of the DFF&O. the Ohio EPA proposed an order containing provisions for continued operation and maintenance (O&M) of the groundwater remediation system and groundwater monitoring.

- 15 October 1998 - The Ohio EPA sent a letter indicating that the O&M and monitoring was a one-time offer for an interim-action type order.

- The DFF&O was never issued final, nor was it signed.

14. *Continued O&M and Groundwater Monitoring at Subject Property*

Even though the DFF&O was never finalized, Kimberly-Clark continued to operate the groundwater remediation system on the west end of the

subject property, and conducted quarterly groundwater monitoring. Contaminant levels in groundwater samples continued to show progress toward reaching the cleanup goals for the subject property.

In 1999-2000 the cleanup goals for TCE and vinyl chloride, which had been the most persistent chemicals detected above the cleanup goals, were reached. Even as the VOC concentrations in the suspected release areas on the west and north portions of the subject property continued to decline, VOCs were identified at increasing concentrations in upgradient monitoring wells (PCE and TCE). It was suggested that these contaminants were migrating onto the subject property from an upgradient source.

15. Aquifer Pumping Test – ARCADIS Geraghty & Miller. July 1999

On 2 through 7 July 1999, ARCADIS Geraghty & Miller conducted an aquifer pumping test. The purpose of the pumping test was to determine the influence on the shallow monitoring wells on the subject property in response to: 1) pumping of the on-site production wells; 2) pumping of the City of Troy Well 18; and, 3) recharge from the Great Miami River. The results of the pumping test can be summarized as follow:

- Drawdown (showing influence from pumping) was observed, at a maximum of 0.05 feet, in on-site groundwater monitoring wells during pumping of City Well 18. The influence was greater in the wells located on the east side of the subject property than those on the west side were.

- Drawdown was observed in the on-site monitoring wells in response to pumping of the on-site water supply wells. Drawdown observed was approximately five to six times greater than that observed in regard to pumping of the City Well 18, even though the pumping rate for the City Well 18 was approximately eight time greater.

- When no pumping was occurring, water levels in the monitoring wells showed that recharge from the Great Miami River to the upper sand and gravel unit does occur.

16. Continued Ohio EPA Investigation of Contamination in City of Troy Well Field

During 1999, correspondence was directed between the Ohio EPA, Spinnaker and Kimberly-Clark regarding the cis 1,2-DCE identified in the City of Troy Well 18. The Ohio EPA remained convinced, and provided arguments, that the contamination source was the subject property. A

technical expert with ARCADIS Geraghty & Miller was retained to respond to the Ohio EPA on behalf of Spinnaker. The arguments put forth by Spinnaker indicated that the contaminants were not emanating from the subject property because:

- A confining layer of clay till was identified at depths below the saturated shallow sand and gravel where the VOCs were detected in the groundwater.

- The on-site water supply well is likely completed in a lower sand and gravel unit, based on yield and pumping rate (110 gpm), and no VOCs had ever been detected in water samples collected from the well. The influence of pumping on the shallow monitoring wells indicates that groundwater would tend to migrate toward this well versus the City of Troy wells.

17. Integrated Assessment Report; East Troy Contaminated Aquifer, Troy, Miami County, Ohio. Prepared by IT Corporation on behalf of the Ohio EPA. 30 June 2000.

In May 2000, the Ohio EPA retained IT Corporation to conduct a drilling and sampling program to gather additional water quality information in regard to the contamination identified in the City of Troy well field. Several borings were drilled using the Rotasonic drilling method. Groundwater samples were collected at depths of 20, 30 and 40 feet below grade in an effort to determine if VOC impacts were present in deeper portions of the aquifer. In addition, groundwater samples were collected from the on-site monitoring and remediation pumping wells. VOCs were again identified in most of the wells.

With the exception of boring RS06, contaminants were not found in the deeper portions of the aquifer. At RS06, cis 1,2-DCE, the primary contaminant of concern, was identified in deeper samples at concentrations of 8.7 and 4.3 $\mu g/L$, respectively. VOCs were detected in many of the shallow samples. The detected contaminants were related to releases of TCE, PCE, 1,1,1-trichloroethane, and toluene.

Kimberly-Clark has consistently argued that the PCE is coming from an off-site source. However, PCE was highest in a rotosonic boring (RS03) drilled just downgradient (east/northeast) of the former nonhazardous waste storage area, where documented releases of VOCs have occurred. PCE was detected in upgradient samples at concentrations of 19, 23 and 14 $\mu g/L$ to the west and south of the suspected release areas. In addition,

PCE was detected in upgradient well on the southern portion of the east side of the subject property.

There was no documented evidence of TCE or PCE use on the subject property in the information provided, although all parties involved concede that the use of one or both of these solvents was possible or probable.

18. Site Closure Report, Former Brown-Bridge Facility, Troy, Ohio. Steve McFadden. February 2001.

In February 2001, Mr. Steve McFadden submitted a *Site Closure Report* to the Ohio EPA on behalf of Kimberly-Clark. The report summarized the remedial efforts for the west and east ends of the subject property and provided a summary of operation, maintenance and monitoring results. The report concludes that the remediation was deemed complete based on the following:

- The toluene impacts in groundwater on the east end of the subject property were reduced to below applicable cleanup levels.
- The TCE and vinyl chloride concentrations (contended to be the only constituents of concern) were reduced to within acceptable statistical levels that were below the cleanup levels.
- The remaining VOC contamination is related to an off-site source of groundwater contamination that is migrating onto the subject property.

19. Ohio EPA submits letter to Kimberly-Clark requesting that System remain in operation. 27 February 2001.

20. Kimberly-Clark shuts the groundwater pump and treat system down. 1 March 2001.

21. Directors Final Findings & Orders. 13 March 2001. Ohio EPA.

In response to the *Site Closure Report,* and shutting down of the groundwater remediation system, the Ohio EPA issued a DFF&O requiring Kimberly-Clark to conduct the following:

- Re-start the groundwater remediation system and continue O&M and monitoring until Interim Action Groundwater Concentrations are met and confirmed by Ohio EPA.

- Develop a work plan to evaluate the effectiveness of the current groundwater remediation system on the west end of the subject property. Submit a plan to do so within 45 days of the issuance of the DFF&O. Work to include an evaluation of the aquifer system.

- Implement the work plan upon approval by the Ohio EPA.

- Collect water-level measurements and conduct groundwater monitoring on a quarterly basis for analysis of VOCs.

- Once IAGWC standards are met, shut the system down, but remain operational, and continue monitoring groundwater until 8 consecutive quarters of groundwater sampling and analysis demonstrate compliance with the IAGWC standards.

22. *Kimberly-Clark restarted the groundwater remediation system.*

23. *Final Remediation Work Plan, Spinnaker Facility, Troy, Ohio. Steve McFadden. May 2001.*

In response to the issuance of the DFF&O, Steve McFadden, on behalf of Kimberly-Clark, submitted a work plan to optimize the effectiveness of the groundwater remediation system. The work plan included the use of *in situ* oxidation to accelerate the cleanup.

Representatives from the Ohio EPA, Kimberly-Clark and Spinnaker met at the subject property in June 2001 to discuss the work plan and evaluated its viability. No agreement was reached between the parties. It is reported that Kimberly-Clark has since submitted an appeal to the Environmental Review Appeals Commission (ERAC). The issue remains open.

Plant No. 2

1. *Site Investigations and Remediation Recommendations. Applied Engineering & Science, Inc.(AES) November 1993.*

The subsurface investigation at Plant No. 2 was conducted in concert with the investigation conducted at Plant No. 1 in October 1993. The work was conducted for Kimberly-Clark. Four soil borings were drilled at the subject property: one background sample (B-1), one sample near the transformer on the north side of the building (T-PAD); one boring on the west side of the raw material offloading area (B-3); and, one boring adjacent to the drum storage pad (B-2). Soil and groundwater samples

were collected from each of the borings, except for the T-PAD boring. Analytical results indicated that "trace" concentrations of VOCs were present in each of the soil samples and in the groundwater sample collected from boring B-1. 1,1,1-trichloroethane was detected in the water sample collected from boring B-2 at a concentration of 79 $\mu g/L$, and 1,1-dichloroethane was detected at a concentration of 15 $\mu g/L$.

Soil was removed from either side of the truck bulk unloading area on the northern side of the building.

4.3 *EVALUATION OF HISTORIC INFORMATION SOURCES*

To determine past uses of the subject properties and surrounding properties, ERM reviewed historical sources of information as outlined below. Copies of the Sanborn maps, topographic maps, city directory search, telephone interview records, as applicable, for Plant Nos. 1 and 2 are presented in Appendices E and F, respectively.

Table 8. ***Summary of Historical Records Reviewed – Plant No. 1***

	Years Reviewed	
Source of Information	*Subject Property*	*Adjacent Properties*
Interview(s)	Mr. Ron Klenk (Spinnaker)	
Sanborn Fire Insurance Company Map(s)	1898, 1905, 1911, 1923, 1931, 1947, 1955	1887, 1892, 1898, 1905, 1911, 1923, 1931, 1947, 1955
USGS Topographic Map(s)	1961, 1972, 1982, 1984	1961, 1972, 1982, 1984
Local Planning Map(s)	Year(s)	year(s)
City Directories (organized by address)	1980, 1985, 1990, 1995, 1999	1980, 1985, 1990, 1995, 1999
Aerial Photograph(s)*	Not readily available	Not readily available
50-year Chain-of-Title	Not reviewed	Not reviewed
Other:	Year(s)	year(s)

Table 9. *Summary of Historical Records Reviewed – Plant No. 2*

	Years Reviewed	
Source of Information	*Subject Property*	*Adjacent Properties*
Interview(s)	Mr. Ron Klenk (Spinnaker) Mr. Jim Bowell (Fire Inspector) Mr. Aloka Roy (Zoning Technician)	
Sanborn Fire Insurance Company Map(s)	Not Available	Not Available
USGS Topographic Map(s)	1961, 1972, 1982, 1984	1961, 1972, 1982, 1984
Local Planning Map(s)	Not reviewed	Not reviewed
City Directories (organized by address)	No listings	1980, 1985, 1990, 1995, 1999
Aerial Photograph(s)*	Not readily available	Not readily available
50-year Chain-of-Title	Not reviewed	Not reviewed
Other:	Year(s)	year(s)

Subject Property

Plant No. 1

The subject property has a long history of development dating back to the mid-1850's. The earliest records of property use reviewed were Sanborn Fire Insurance Maps (Sanborns), dating back to 1898. The first recorded use of the subject property, albeit a smaller parcel, shows the property in use as Hayner's Whiskey Distillery. Information identified in previous reports dates property development even further back to 1854, with reported use as a brick storage yard. This original building is what is now called Building No. 3. Other parcels that are now part of the subject parcel included domestic residences on either side (east and west) of the distillery. The Hayner's Distillery "rectifying building" was located west of the residence immediately adjacent to the west of the main distillery building. Land on the northern and northwestern portions of what is now the subject property was undeveloped.

The Sanborns for 1905 shows the main distillery building at about one-third of the size of the building in 1898. The residences were still noted on either side of the building. The "rectifying building" noted in 1898 was now labeled "vacant".

Although information contained in several reports reviewed by ERM indicated that a train derailment in 1911 destroyed or damaged a significant portion of the building, this appears to conflict with information on the 1911 Sanborn and earlier Sanborns that do not show a railroad spur adjacent to the subject property. The main Hayner's Distillery operation was located west of the subject property, and was immediately adjacent to a rail line. It could be that this was the facility affected by the derailment. Residences were still in evidence both east and west of the building, and property development had not occurred on the north side of what is now the subject property.

Although it is reported that in 1912 there was an addition of 14,200 square feet (Building No. 2), the information on the Sanborns actually indicates that this was re-building the operation back to about the size of the building that was present in 1898. A slight westward block on the building, although not legible, is thought to represent the former incinerator. Site plans produced in 1957 appear to support this, showing this area as the exact location of the former incinerator.

Around 1922, information indicates that the distillery was shut down. No changes from the 1911 Sanborn were identified, and no other records indicate a significant change in property use and/or development.

Information contained in previous environmental reports indicated that in 1928, the Brown-Bridge Paper Company began operation at the subject property. Expansion to the existing buildings occurred in 1946, with the addition of Building No. 1 (25,000 square feet). That expansion to the east enveloped what had been six residences and/or small buildings. In addition, the residence present in 1931 to east of the main building was no longer present. Evidence of the railroad spur was identified in the 1947 Sanborn, along the north side of the buildings. A small building toward the southwest side of the subject property was identified as "miscellaneous storage".

A small addition (Building No. 4) was made in 1951. In 1955, the Sanborn and facility drawings indicate that Building No. 1A was added to the east of the existing buildings (45,000 square feet). Both the 1955 Sanborn and 1957 facility drawings clearly show the railroad siding (2 spurs). The longest spur extended along the length of the buildings to the east side of Building No. 1A. No significant changes were noted in other areas of what is now the subject property. A small building was located on the southwest side of the subject property, called the "white house". The former use of this building is not known.

In 1968, an additional 17,300 square feet were added to the west of the existing buildings (Building No. 5). The "white house" was no longer present.

In 1971, Kimberly-Clark purchased the assets of Brown Bridge Industries, including the subject property.

Plant No. 2

Title search information indicated a property transfer on 6 May 1911 from J.H. Landis to the Miami County Growth Corporation. Information provided by Mr. Ron Klenk and facility records indicated that the facility was initially developed in 1978. Title search information indicated that Kimberly-Clark acquired the property on 30 June 1978 from the Miami County Growth Corporation. The initial building was about 50,000 square feet. The building was doubled in size in 1985-6, to bring the total square footage under roof to 100,000 square feet.

Adjacent Properties and Surrounding Area

Plant No. 1

The area surrounding the subject property was mixed commercial, industrial, and residential during the late 1800s until the present day.

Sensitive Receptors to Contamination

Present throughout much or all of the history of operation at the subject property, the following sensitive receptors were identified:

- Van Cleve School (former high school, now an elementary school) located immediately south of the subject property, south of E. Water Street.
- St. Patrick's Church and school located south/southeast of the subject property;
- Residential properties located immediately east and west of the subject property;
- The Great Miami River, located immediately north of the subject property; and,

- The City of Troy public water supply well field, located immediately north of the Great Miami River, and north/north west of the subject property.

Potential Sources of Off-Site Contamination

The following properties were present between the late 1800's and the present day, and present a potential for contamination migrating toward or onto the subject property:

- Miami Valley Gas and Fuel Co. (FKA Troy Gas Works) This facility was located immediately west of the far northwest corner of the west parking lot for the subject property. This facility was a manufactured gas plant (MGP) facility that included a large gas holder. The site was in evidence on Sanborns from 1887 to 1905. MGP sites are well-known sources of legacy contamination, primarily related to coal tar and PAHs. Dense non-aqueous phase (DNAPL) liquids are often discovered in regard to releases from these facilities. This facility was located hydraulically upgradient of the subject property.

- Hobart Cabinet – This facility was established around 1907 on property that included the former MGP facility. The facility is known to use chlorinated solvents, and halogenated VOCs, among other contaminants, were identified in soil and groundwater samples collected on the Hobart property.

- Waltzs Cleaners – This facility was a dry cleaning operation. The dates of operation were not able to be identified, but the facility is now closed. This facility is located less than one-eighth mile south (upgradient) of the subject property. Dry cleaning operations used PCE as the predominant solvent of choice. This contaminant, and its breakdown products, have been identified in upgradient wells located on the subject property.

Plant No. 2

Current land use in the vicinity of the subject property is mixed commercial and light industrial. Prior to 1972, the land in the vicinity of the subject property was undeveloped. The 1982 historical topographic map indicates that construction of a road and several buildings occurred between 1972 and 1982. The Troy Daily News building is located to the north of the subject property. An American Electric Power (AEP) maintenance facility is located to the east of the subject property. Roconex is located immediately south of the subject property. Undeveloped land is

located west of the subject property. Ace abrasives is located further south and east of the subject property.

5.0 *DATABASE AND GOVERNMENT RECORDS REVIEW*

5.1 *GOVERNMENT RECORDS REVIEW/ INTERVIEWS*

Plant No. 1

No interviews with government official were conducted in regard to Plant No. 1. Significant agency correspondence was reviewed in files provided by Spinnaker, primarily in regard to the various tank closures and releases identified at the subject property.

Plant No. 2

ERM retained Environmental Data Resources, Inc. (EDR) to conduct telephone interviews in regard to the subject property.

Mr. Jim Bowell, a fire inspector with the City of Troy was contacted. He stated that in 1978, two fuel oil underground storage tanks were installed, and were subsequently removed in 1988. He did not have any record of any fires or spills at the subject property for which the fire department was called.

Mr. Aloka Roy, a zoning technician with the City of Troy was contacted. He stated that the subject property is zoned M-2 Industrial, and that the surrounding properties are also zoned industrial. Public sewer serves the subject property.

5.2 *ENVIRONMENTAL DATABASE SEARCH*

ERM contracted EDR to conduct a database search for agency records. The reports for Plant Nos. 1 and 2, presented in Appendices G and H, respectively, define and summarize the ASTM databases reviewed in the EDR reports and notes if any sites (including the subject properties) were identified in the specified radius.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to approximately ±300 feet. The EDR report provides a list of unmapped sites for which inadequate location information was provided. ERM has reviewed the list of "unmapped" sites to determine if these sites are

within the study radius. If the "unmapped" sites appeared likely to be within the search radius for a specific database, they are discussed in the sections that follow.

Based on maps of the area, the required database search radius for a given database, and the site reconnaissance, it appears that none of the orphan sites are within the designated search distances for each database.

Sites identified within the study radii were evaluated to determine if they are likely to have adversely impacted the subject properties. The criteria used to evaluate the potential for adverse impact to the subject properties include:

- distance from the subject property,
- expected depth and direction of ground water and surface water flow,
- expected storm water flow direction, and
- the presence/absence of documented contaminant releases at the identified sites that have not been remedied to the satisfaction of regulators.

The identification of a site as potentially upgradient or downgradient is based on the expected direction of ground water flow to the north/northeast for Plant No. 1, and to the east for Plant No. 2.

Plant No. 1 – 518 E. Water Street

The subject property located at 518 E. Water Street in Troy, Ohio was identified on the following data bases: CORRACTS, RCRIS – TSD and Large Quantity Generator, FINDS, DERR, and SPILLS.

- CORRACTS: This database identifies hazardous waste handlers with RCRA corrective action activity. The entire facility was identified for corrective action activities but was assigned a low corrective action priority in July 1992.
- RCRIS: The subject property was identified in the RCRA Large Quantity Generator (LQG) database and the RCRA Treatment, Storage, and/or Disposal Facility (TSDF) database. During 1999, the facility generated D001 waste (2,211 lbs.), D039 waste (43 lbs.), F003 waste (1,804 lbs.), and F005 waste (2,201 lbs.). TSDF activities were not reported. Three violation records were reported for the site; areas of

violations included Generator – all requirements, TSD – other requirements, and TSD – closure/post closure requirements. All violations were assigned a low priority and have been abated.

- FINDS: This EPA database identifies facility information and sources that provide additional detail for the subject property. The facility was identified in the Aerometric Information Retrieval System (AIRS), Biennial Reporting System (BRS), Facility Registry System (FRS), Ohio Core database (OH_CORE), Permit Compliance System (PCS), Resource Conservation and Recovery Act Information system (RCRAINFO), and Toxic Chemical Release Inventory System (TRIS).

- DERR: The subject property was identified in the Ohio EPA Division of Emergency and Remedial Response's database. This database identifies facilities that may or may not have contamination. No additional information was provided for the subject property.

- SPILLS: The subject property was identified in the Ohio EPA Emergency Response Database which contains all reported incidents, spills, or releases to the environment. A release incident to the air was reported at the subject property on May 22, 1998. The size and material of the release was not reported; the priority of the incident was low ("respond when possible or convenient"). A second release incident of waste water (non-contact cooling water and service water) was reported at the subject property on May 28, 1998 to the Great Miami River. The size of the release was unknown and the assigned priority for the incident was "no response by Emergency Response."

Properties Surrounding Plant No.1 (518 E. Water Street)

No immediately surrounding properties were identified within the specified search radii in EDR's search of the following databases: National Priority List (NPL); Proposed NPL; Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS); CERCLIS No Further Remedial Action Planned (NFRAP); CORRACTS; RCRIS TSD and LQG; State Landfill; Underground Storage Tank File (UST); Superfund Consent Decrees (CONSENT); Records of Decision (ROD); Delisted NPL; and Mines Master Index File (MINES).

Sites identified in EDR's review of other databases are summarized in Table 10.

Table 10. Sites Surrounding 518 E. Water Street Identified in EDR Report

Database	Radius searched	Sites Found
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) No Further Remedial Action Planned (NFRAP) Compilation by the EPA of sites at which No Further Remedial Action is Planned for a site where a hazardous substance had been stored or disposed.	1.0 mile	1
Resource Conservation and Recovery Information System (RCRIS) Small Quantity Generators Facilities that are regulated based on current hazardous waste generation management activities.	0.25 mile	3
State Hazardous Waste Sites This database identifies state hazardous waste sites planned for cleanup paid by state funds or by potentially responsible parties.	1.0 mile	6
Leaking Underground Storage Tank Sites (LUST) List of closed or unremediated reported leaking underground storage tanks.	0.5 mile	10
Former Manufactured Gas Sites (Coal Gas) Database identifies historical manufactured gas sites that are no longer in use.	1.0 mile	1

Based on Table 2, several sites of concern have been identified in the vicinity of the subject property located at 518 E. Water Street. The number and type of sites identified is consistent with the development of the surrounding area. The database indicates that there are many regulated sites in the vicinity of the subject property.

Based on ERM's review of the database findings for vicinity sites, an adverse impact to the subject property from the Hobart Cabinet Co., former Troy Gas Co., and/or Waltzs Cleaners could have occurred, although no evidence of violations or releases was identified in the databases. Each of these sites is located hydraulically upgradient of the subject property.

- Hobart Cabinet Co. The facility is located immediately west of the subject property, and was listed on the RCRIS and FINDS databases as a small quantity generator of hazardous waste. No violations were identified.

- Troy Gas Co. This facility was located on what is now the Hobart Cabinet Co. property, and may have extended onto the far

northwestern portion of the west parking lot for the subject property. This facility was listed beginning in 1887 in the Coal Gas database. Name was changed to Miami Valley Gas and Fuel Co. in 1898. The facility was not in operation in 1905.

- Troy Well Field The City of Troy water supply well field is located immediately north of the Great Miami River, north/northeast of the subject property. The closest supply wells are located approximately 900 feet from the subject property. This facility was listed in the SHWS and DERR databases for contaminated water supply from an unknown source.

- Miami Shores Golf Course The golf course is located within the water supply well field. The facility was listed in the LUST database for the closure of six USTs. A No Further Action letter was issued for the USTs.

- Waltzs Cleaners This facility is located about one-eighth mile south of the subject property, and was listed on the RCRIS-SQG and FINDS databases. No violations were reported for this facility.

Plant No. 2 – 130 Mary Bill Drive

The subject property located at 130 Mary Bill Drive in Troy, Ohio was identified on the RCRIS database as a RCRA large quantity generator. During 1999, reported wastes generated included waste D001 (466 lbs.) and waste D039 (65 lbs.). No violations were found for the subject property. The FINDS database also identified the subject property at 130 Mary Bill Drive in the following systems/databases: AIRS Facility System, BRS, FRS, OH_CORE, RCRAINFO, and TRIS. No additional information was identified or found for the subject property.

Properties Surrounding 130 Mary Bill Drive

Sites in the vicinity of the subject property were identified in the databases and on Table 11.

Table 11. *Sites Surrounding 130 Mary Bill Drive Identified in EDR Report*

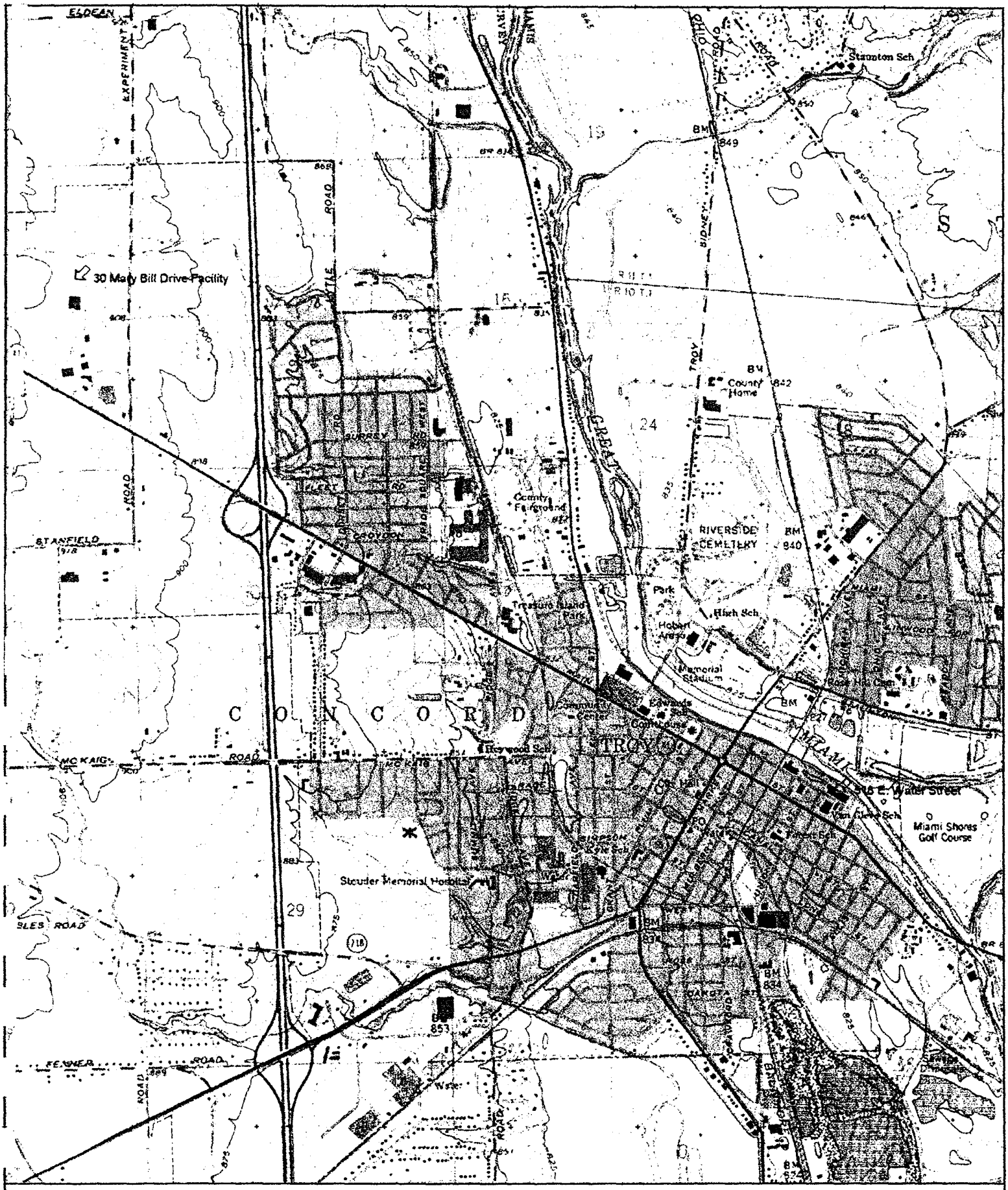
Database	Radius searched	Sites Found
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) No Further Remedial Action Planned (NFRAP) Compilation by the EPA of sites at which No Further Remedial Action is Planned for a site where a hazardous substance had been stored or disposed.	0.25 mile	1
Resource Conservation and Recovery Information System (RCRIS) Small Quantity Generators Facilities that are regulated based on current hazardous waste generation management activities.	0.25 mile	5
State Hazardous Waste Sites This database identifies state hazardous waste sites planned for cleanup paid by state funds or by potentially responsible parties	1.0 mile	1
Leaking Underground Storage Tank Sites (LUST) List of closed or unremediated reported leaking underground storage tanks	0.5 mile	2
Underground Storage Tank Sites (UST) List of sites with registered underground storage tanks..	0.25 mile	1

Based on Table 3, several sites of concern have been identified in the vicinity of the subject property located at 130 Mary Bill Drive. The number and type of sites identified is consistent with the development of the surrounding area. The database indicates that there are many regulated sites in the vicinity of the subject property.

Based on ERM's review of the database findings for vicinity sites, an adverse impact to the subject property from vicinity sites is not expected. No impact is expected because the identified vicinity sites are in expected down- or cross-gradient locations, the sites have been remedied to the satisfaction of regulators, and no releases to the subsurface have been reported.

6.0 *QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL CONDUCTING THIS ASSESSMENT*

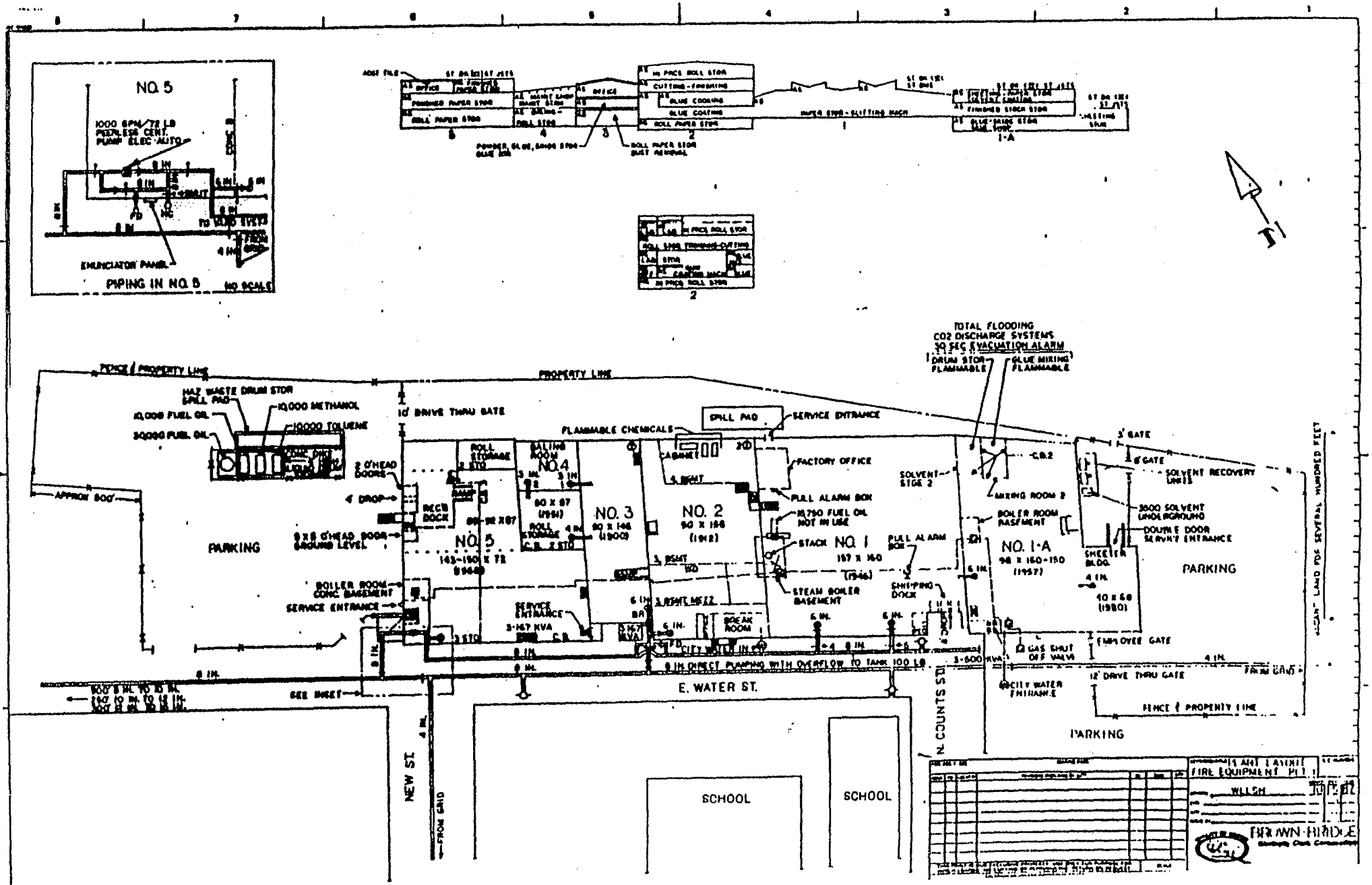
Daniel W. Longbrake and Leigh Anne Sievert, of ERM's Columbus, Ohio office conducted this assessment. Dennis P. Shelly, P.E. of ERM'sNew York City office reviewed the contents of this report. The professional qualifications for Mr. Longbrake, Ms. Sievert and Mr. Shelly are included in Appendix I.

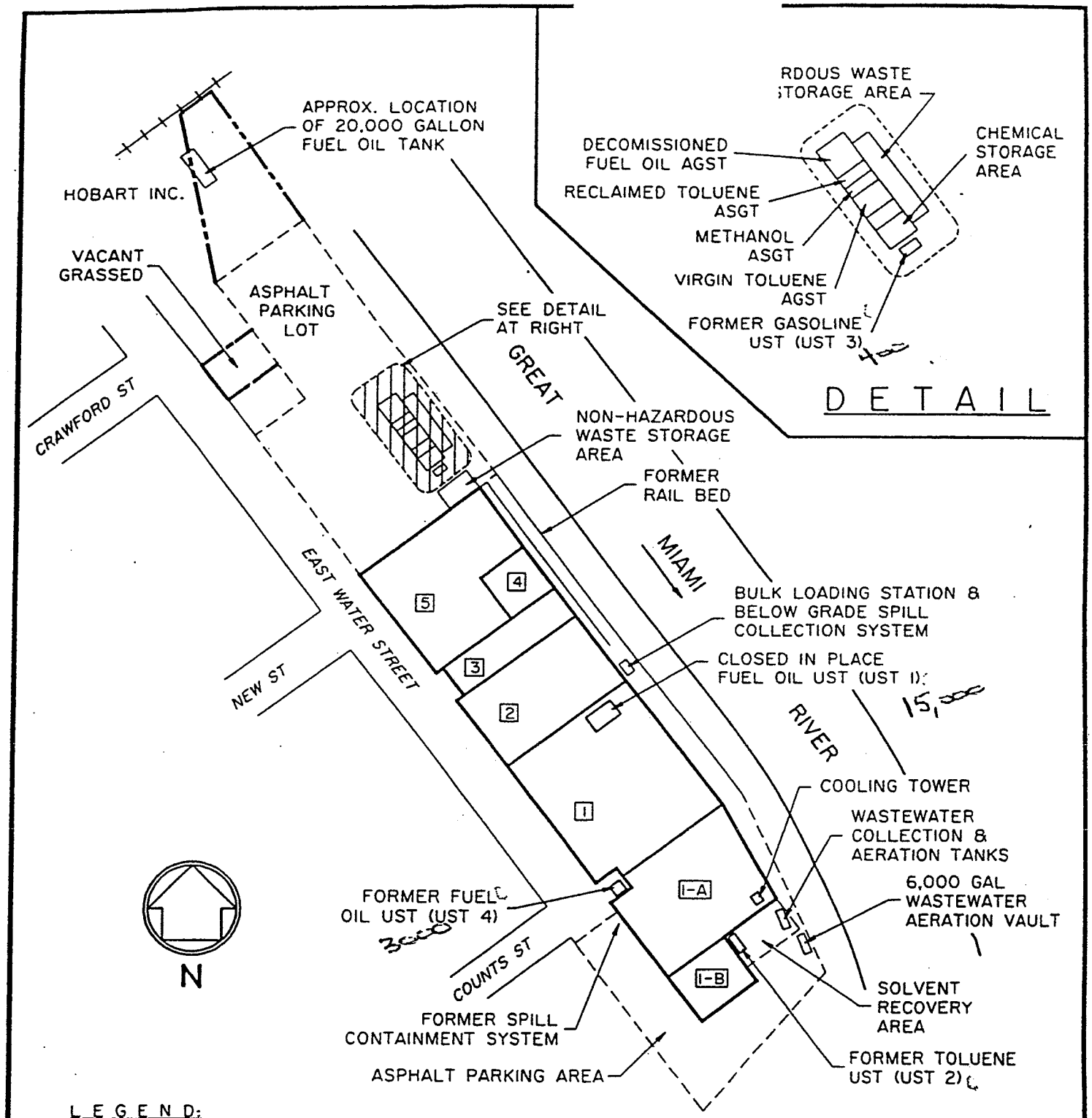


Name: TROY
Date: 2/15/102
Scale: 1 inch equals 2222 feet

Location: 040° 02' 52.2" N 084° 13' 01.2" W
Caption: Site Location Map
Sites located at 518 E. Water St and 30 Mary Bill Dr
Troy, Ohio

Copyright (C) 1997, Maptech, Inc.


NO. 5
1000 GPM/72 LB PEERLESS CENT. PUMP ELEC AUTO
ENUNCIATOR PANEL
PIPING IN NO. 5
NO SCALE
TOTAL FLOODING CO2 DISCHARGE SYSTEMS 30 SEC EVACUATION ALARM
DRUM STOR FLAMMABLE
GLUE MIXING FLAMMABLE
PROPERTY LINE
HAZ WASTE DRUM STOR SPILL PAD
10,000 METHANOL
10,000 TOLUENE
10,000 FUEL OIL
30,000 FUEL OIL
10' DRIVE THRU GATE
FLAMMABLE CHEMICALS
SPILL PAD
SERVICE ENTRANCE
FACTORY OFFICE
PULL ALARM BOX
STACK
STEAM BOILER BASEMENT
SOLVENT STGE 2
MIXING ROOM 2
BOILER ROOM BASEMENT
SOLVENT RECOVERY UNITS
3500 SOLVENT UNDERGROUND
DOUBLE DOOR SERVICE ENTRANCE
SHEETER BLDG.
APPROX 800'
PARKING
NO. 5
NO. 4
NO. 3
NO. 2
NO. 1
NO. 1-A
BOILER ROOM CONC BASEMENT
SERVICE ENTRANCE
BREAK ROOM
CITY WATER IN
8 IN DIRECT PUMPING WITH OVERFLOW TO TANK 100 LB
GAS SHUT OFF VALVE
EMPLOYEE GATE
12' DRIVE THRU GATE
CITY WATER ENTRANCE
FENCE & PROPERTY LINE
E. WATER ST.
N. COUNTS ST.
NEW ST.
SEE INSET
FROM GRID
SCHOOL
SCHOOL
FIRE EQUIPMENT PLT
WELSH
BROWN-BRIDGE

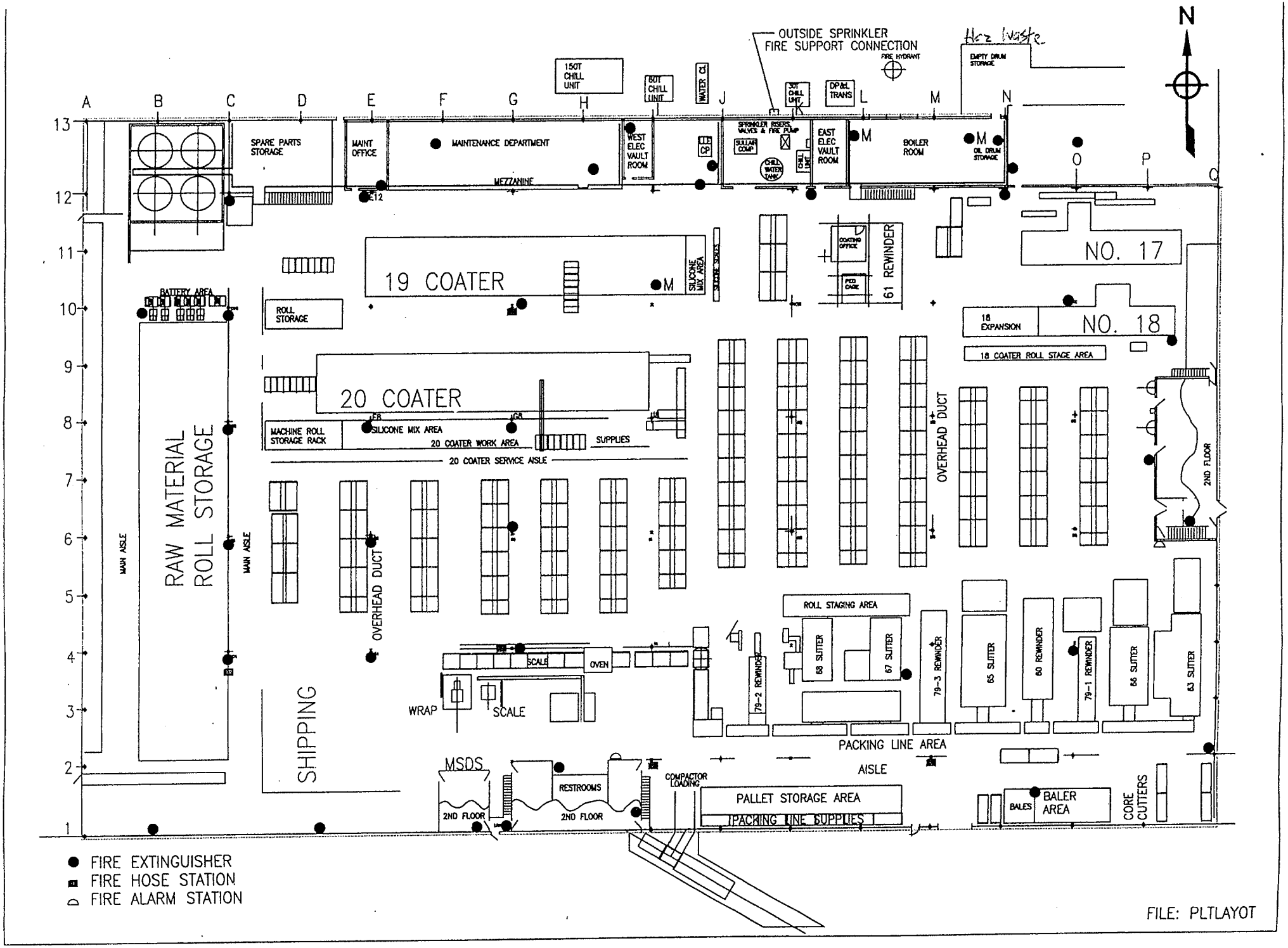


SITE MAP
PLANT 1
BROWN - BRIDGE FACILITY

PREPARED FOR
KIMBERLY - CLARK

ERM-Northeast

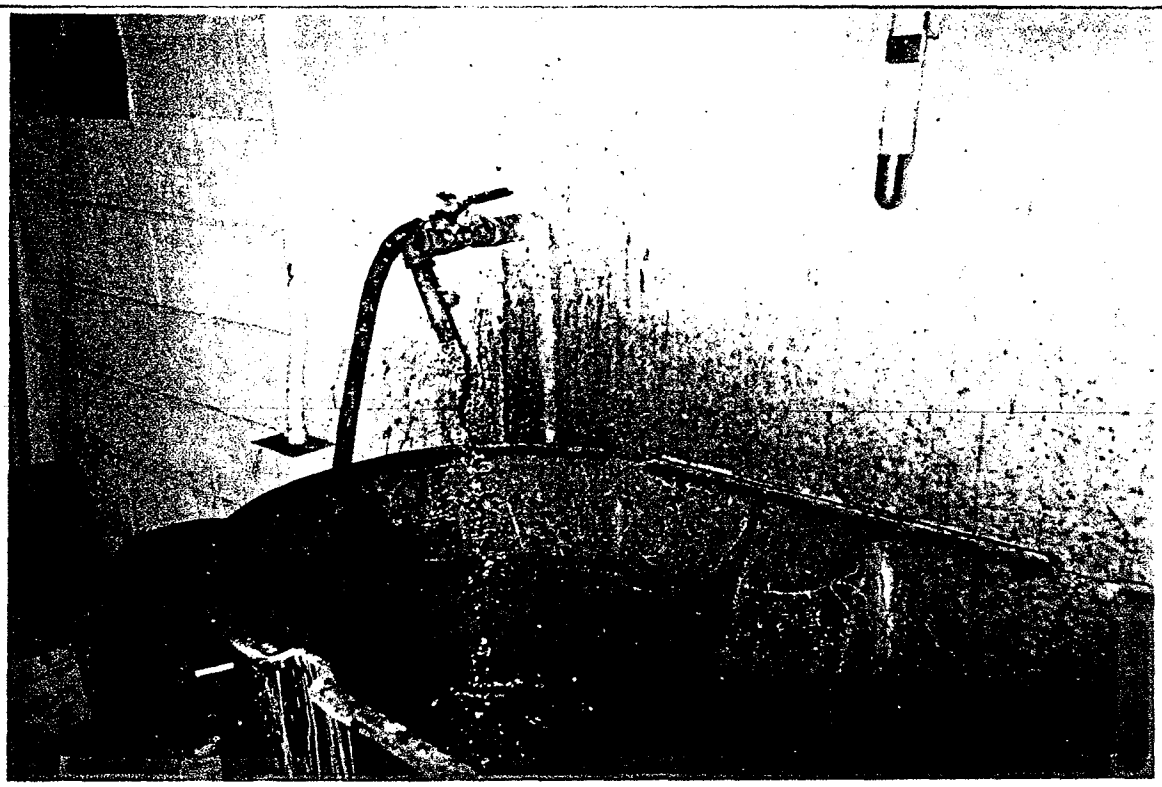
SCALE	FIGURE
1"=140'	2-2
DATE 03/94	



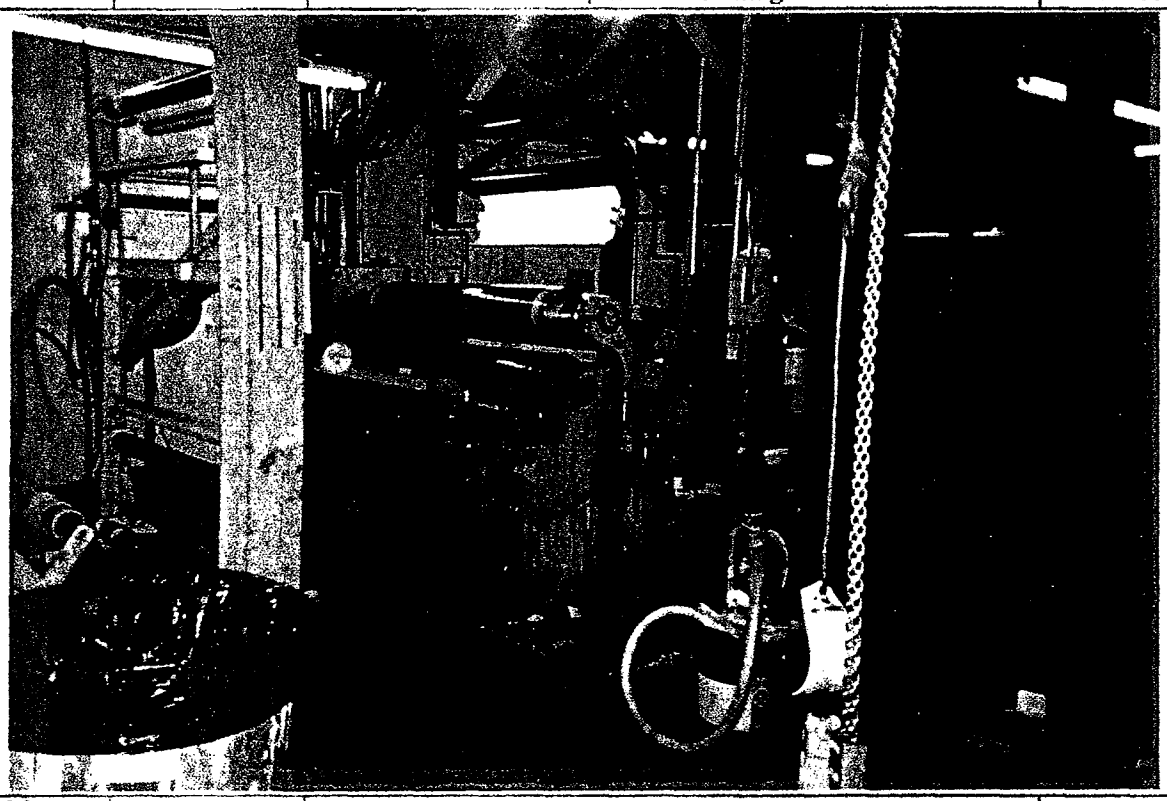
N
OUTSIDE SPRINKLER
FIRE SUPPORT CONNECTION
FIRE HYDRANT
Haz Waste
EMPTY DRUM STORAGE
150T CHILL UNIT
60T CHILL UNIT
WATER CL
30T CHILL UNIT
DP&L TRANS
SPARE PARTS STORAGE
MAINT OFFICE
MAINTENANCE DEPARTMENT
MEZZANINE
WEST ELEC VAULT ROOM
LLE CP
SPRINKLER RISERS, VALVES & FIRE PUMP
SULLAIR COMP
CHILL WATER TANK
CHILL UNIT
EAST ELEC VAULT ROOM
BOILER ROOM
OIL DRUM STORAGE
19 COATER
SILICONE MIX AREA
SILICONE SCALES
COATING OFFICE
PED CAGE
61 REWINDER
NO. 17
NO. 18
18 EXPANSION
18 COATER ROLL STAGE AREA
BATTERY AREA
ROLL STORAGE
20 COATER
MACHINE ROLL STORAGE RACK
SILICONE MIX AREA
20 COATER WORK AREA
SUPPLIES
20 COATER SERVICE AISLE
OVERHEAD DUCT
2ND FLOOR
RAW MATERIAL ROLL STORAGE
MAIN AISLE
MAIN AISLE
OVERHEAD DUCT
ROLL STAGING AREA
SCALE
OVEN
WRAP
SCALE
SHIPPING
79-2 REWINDER
68 SLITTER
67 SLITTER
79-3 REWINDER
65 SLITTER
60 REWINDER
79-1 REWINDER
66 SLITTER
63 SLITTER
PACKING LINE AREA
AISLE
MSDS
2ND FLOOR
RESTROOMS
2ND FLOOR
COMPACTOR LOADING
PALLET STORAGE AREA
PACKING LINE SUPPLIES
BALES
BALER AREA
CORE CUTTERS
FIRE EXTINGUISHER
FIRE HOSE STATION
FIRE ALARM STATION
FILE: PLTLAYOT

Appendices

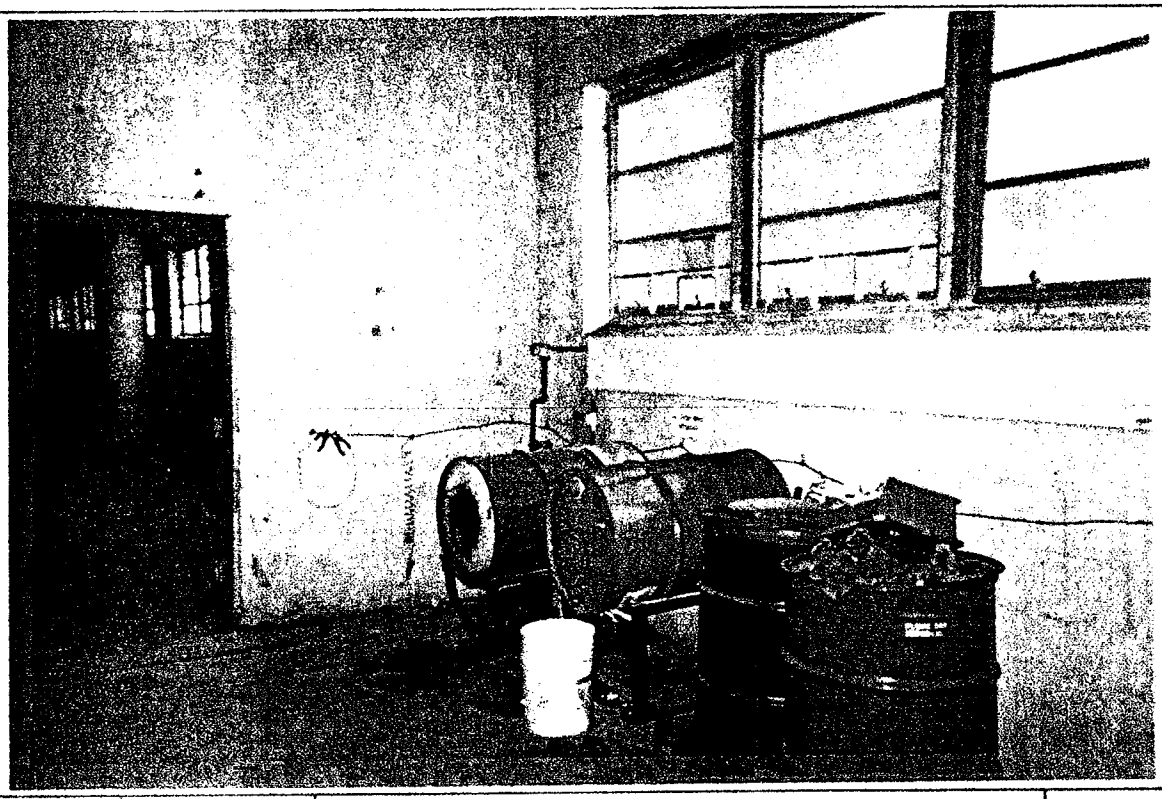
Appendix A
Site Photographs



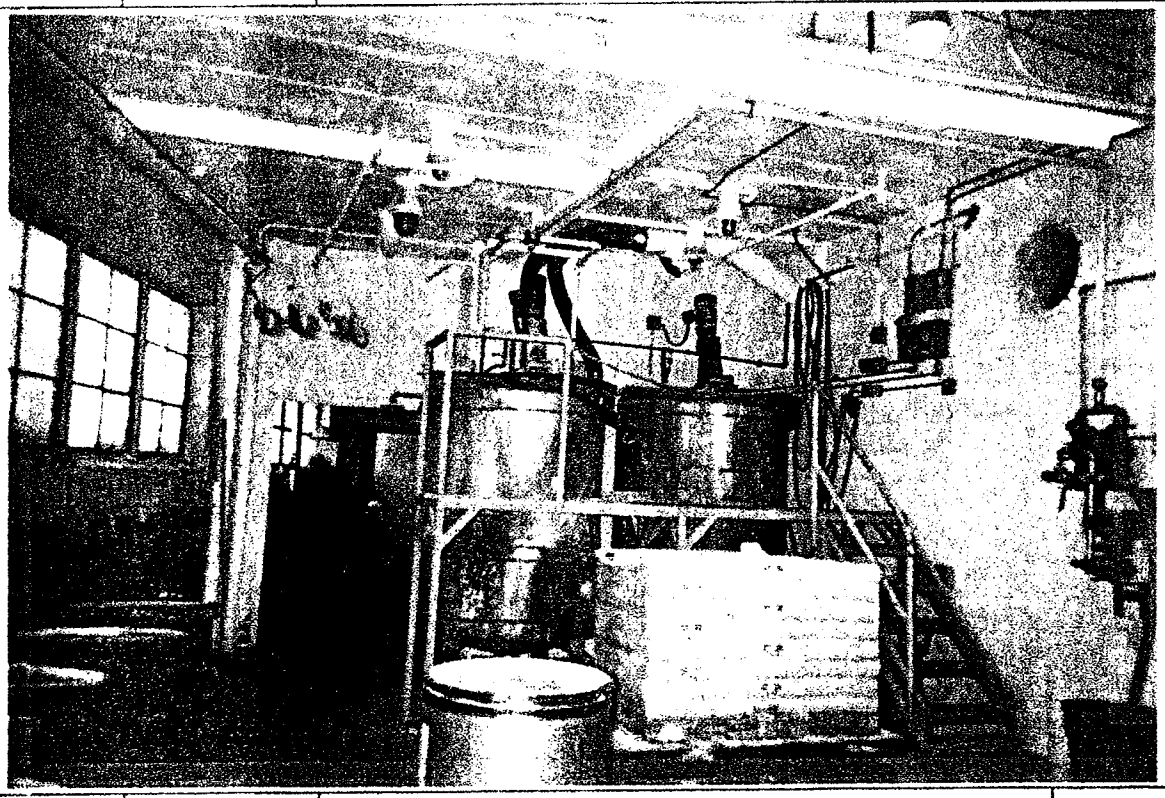
ERM Project No.	Description	Sink, wash water from flexographic printing discharged to POTW	Photo 1
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



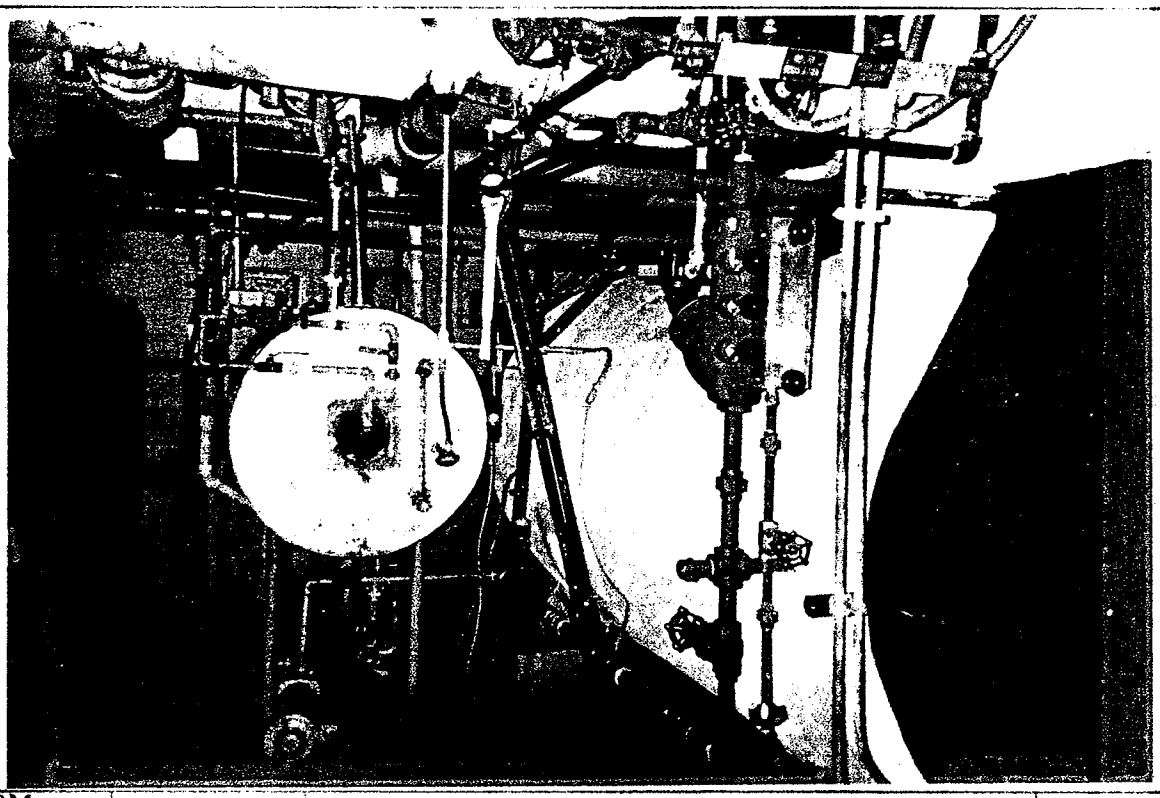
ERM Project No.	Description	Flexographic Printer #61	Photo 2
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



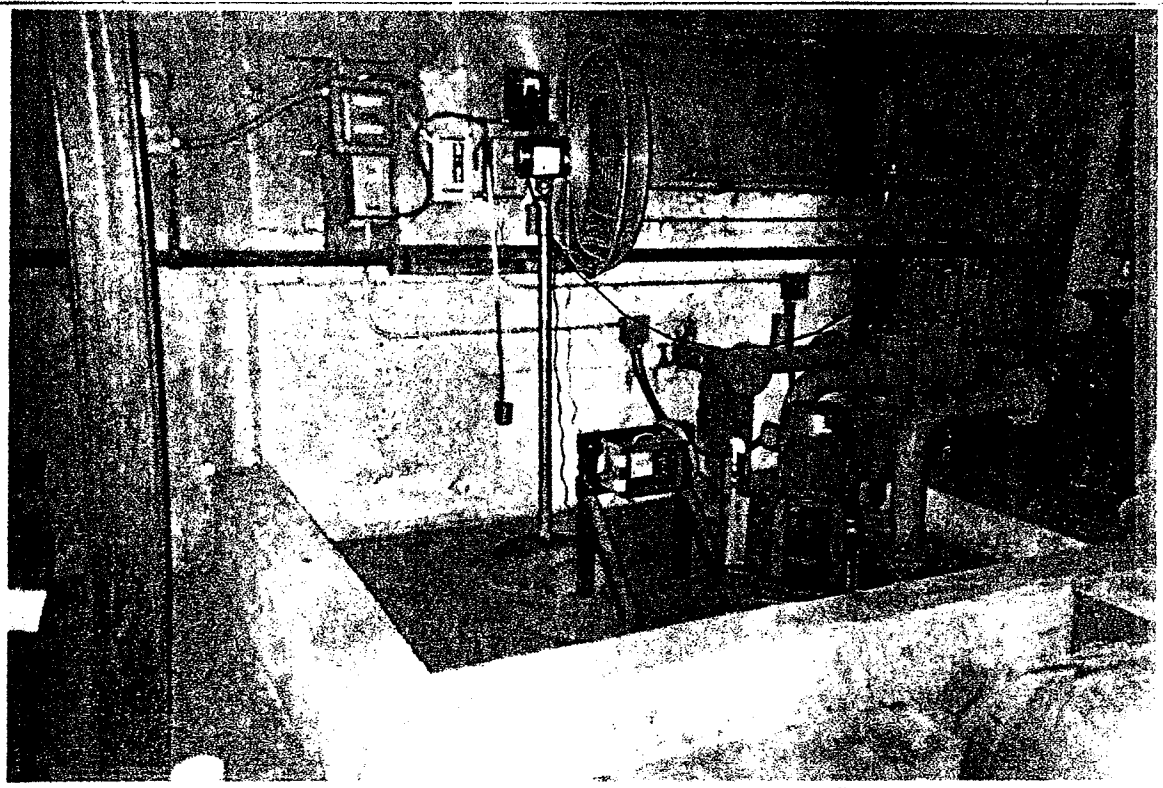
ERM Project No.	Description	Former Solvent Storage Area	Photo 3
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



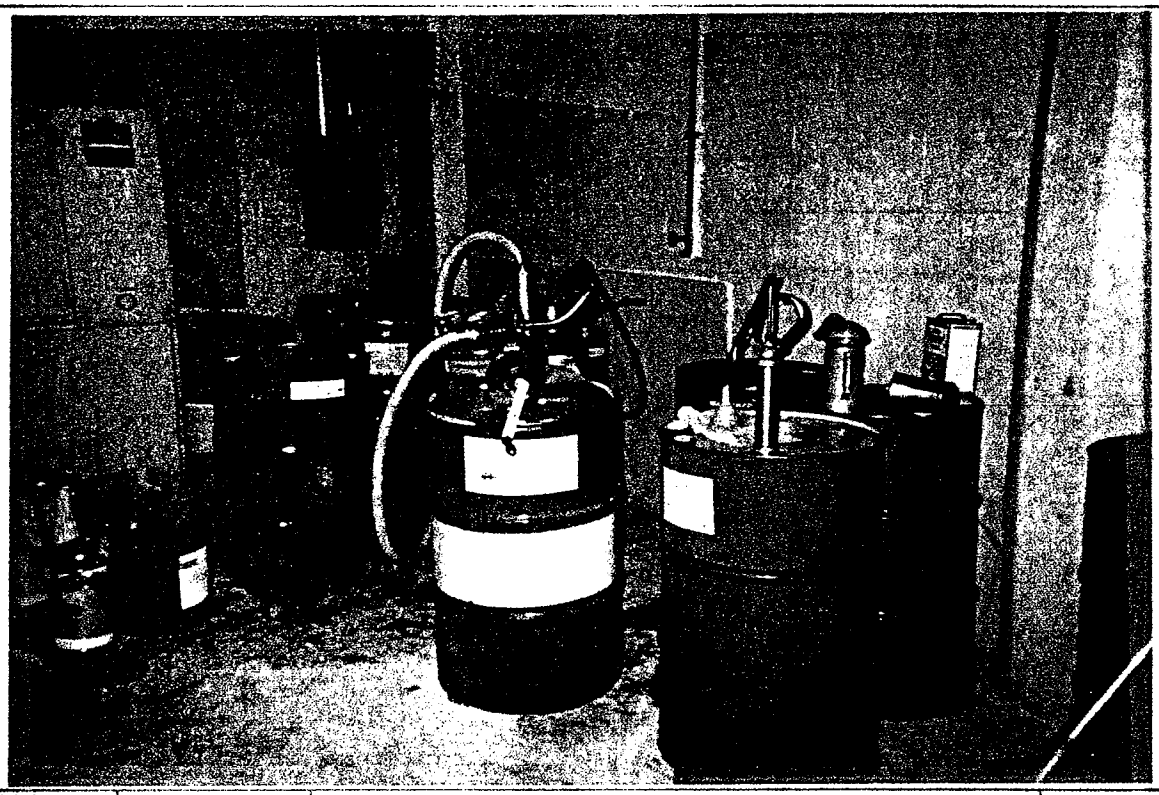
ERM Project No.	Description	Holding Tanks 6A and 6B, mixes barrier coat	Photo 4
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



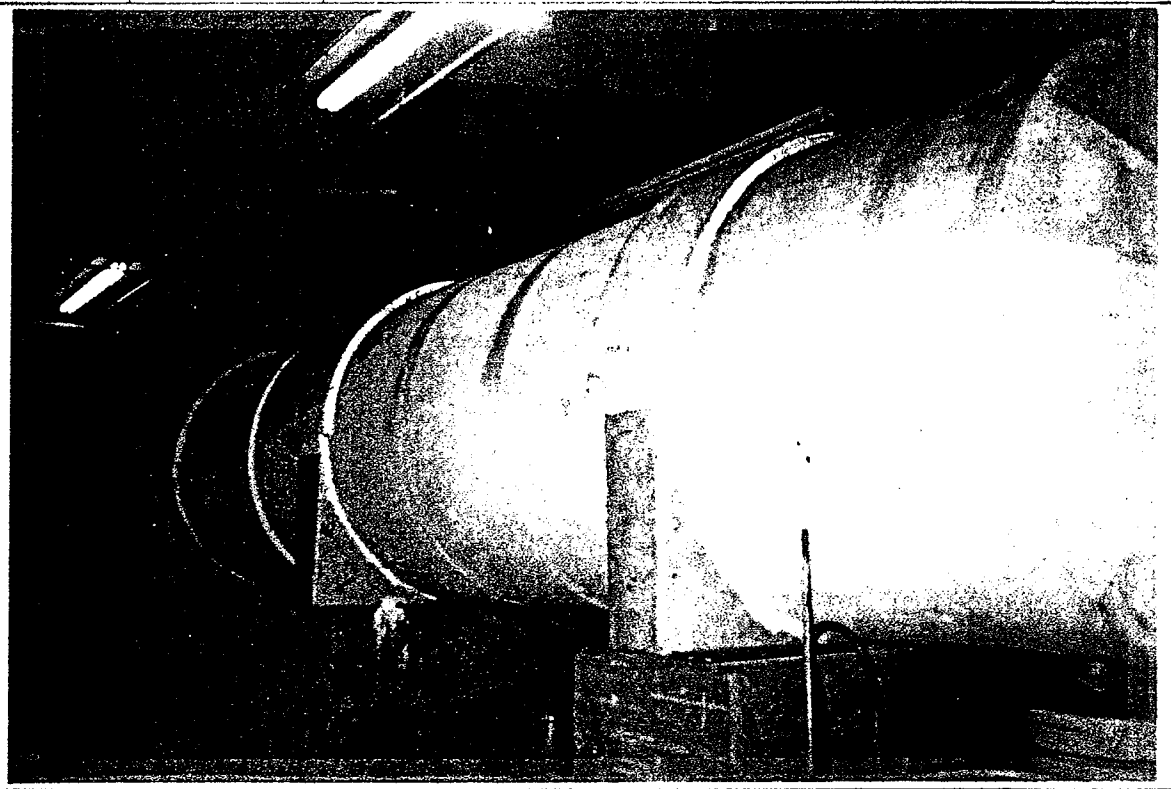
ERM Project No.	Description	Basement Boiler Room, asbestos removed	Photo 5
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



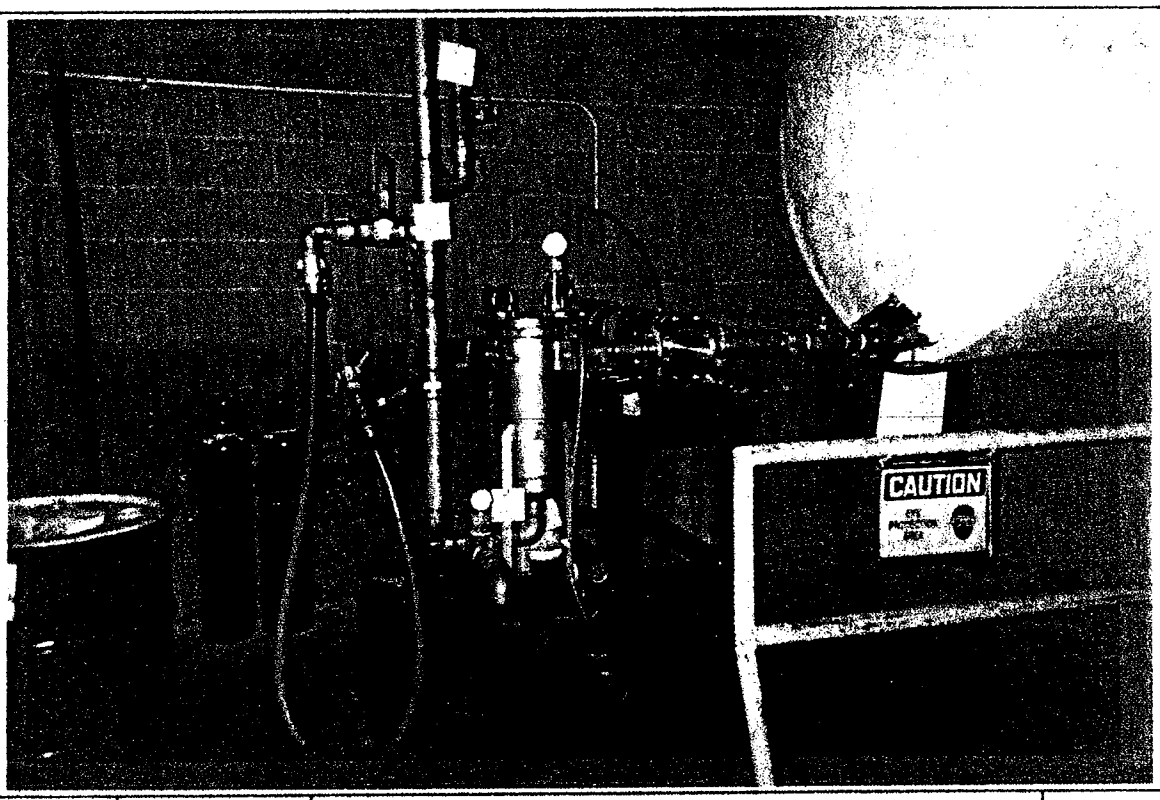
ERM Project No.	Description	Building 2 Basement NPDES Outfall	Photo 6
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



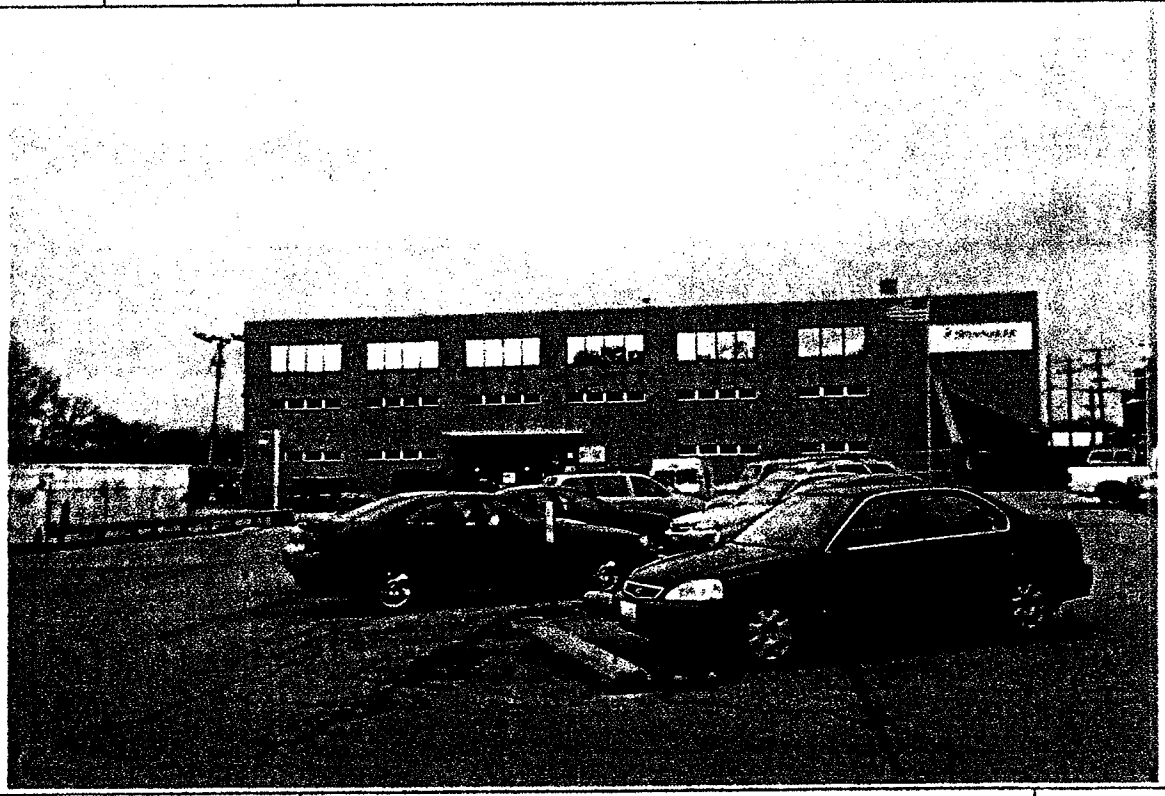
ERM Project No.	Description	Building 2 Second Floor Mezzanine Oil Storage Area	Photo 7
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



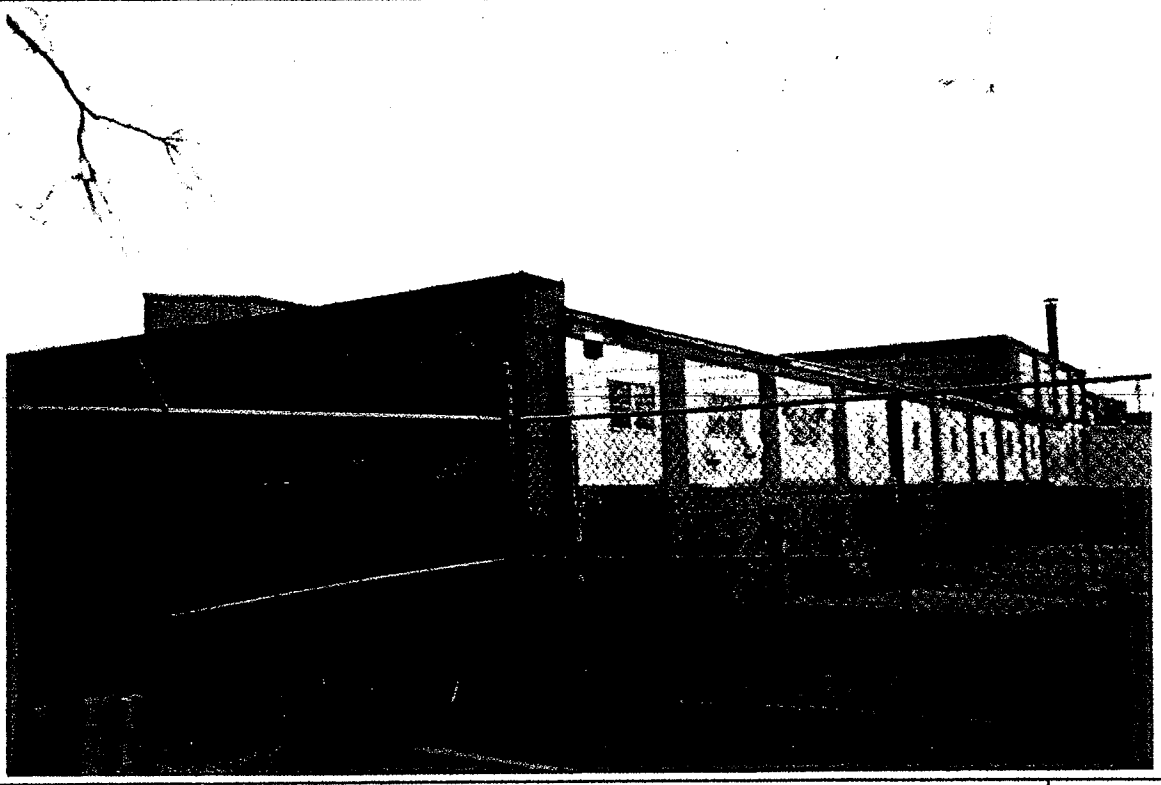
ERM Project No.	Description	Building 5 First Floor 6,000-gallon Water-based Adhesive Tank	Photo 8
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



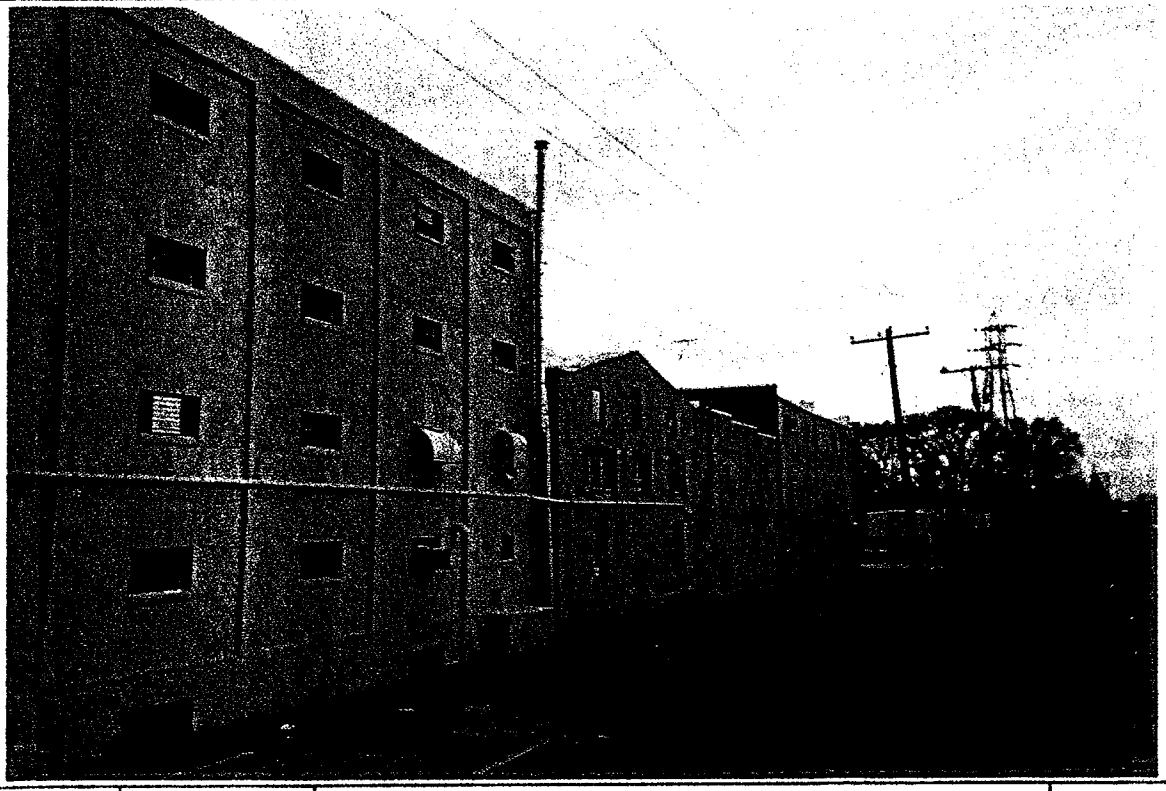
ERM Project No.	Description	Building 5 First Floor 6,000-gallon Water-based Adhesive Tank	Photo 9
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



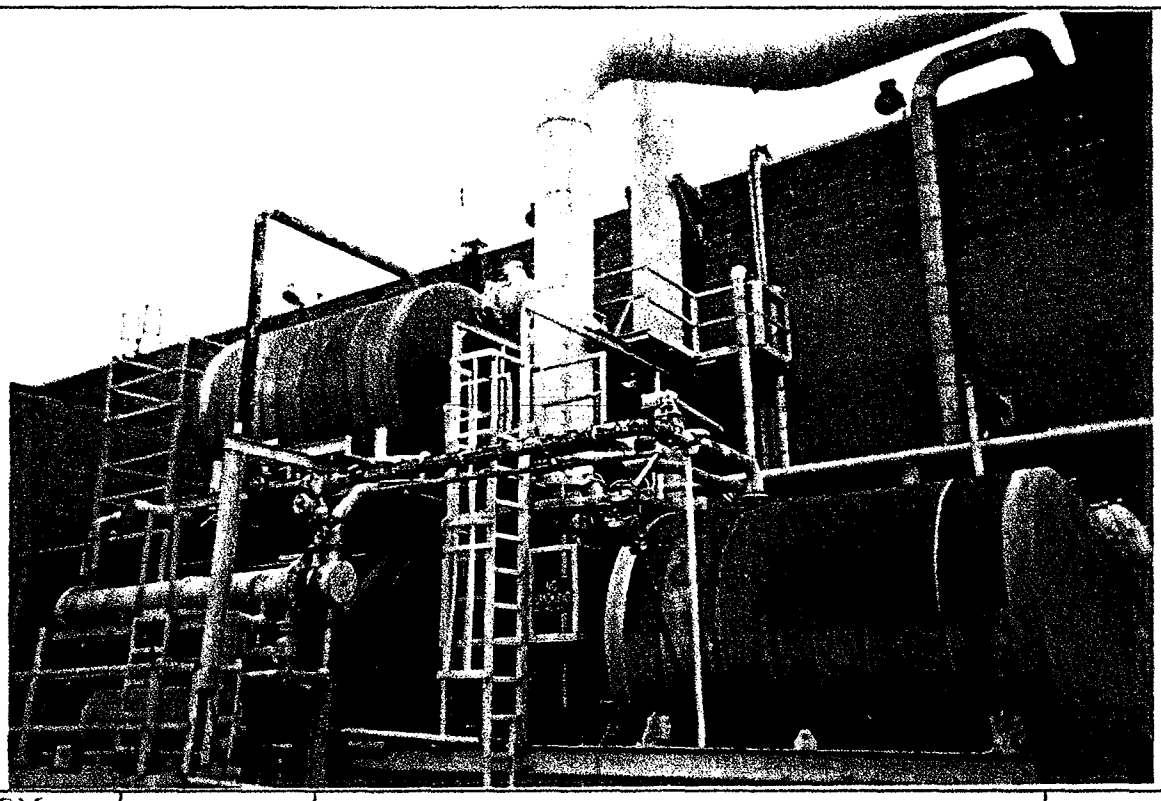
ERM Project No.	Description	West Side of Plant #1	Photo 10
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



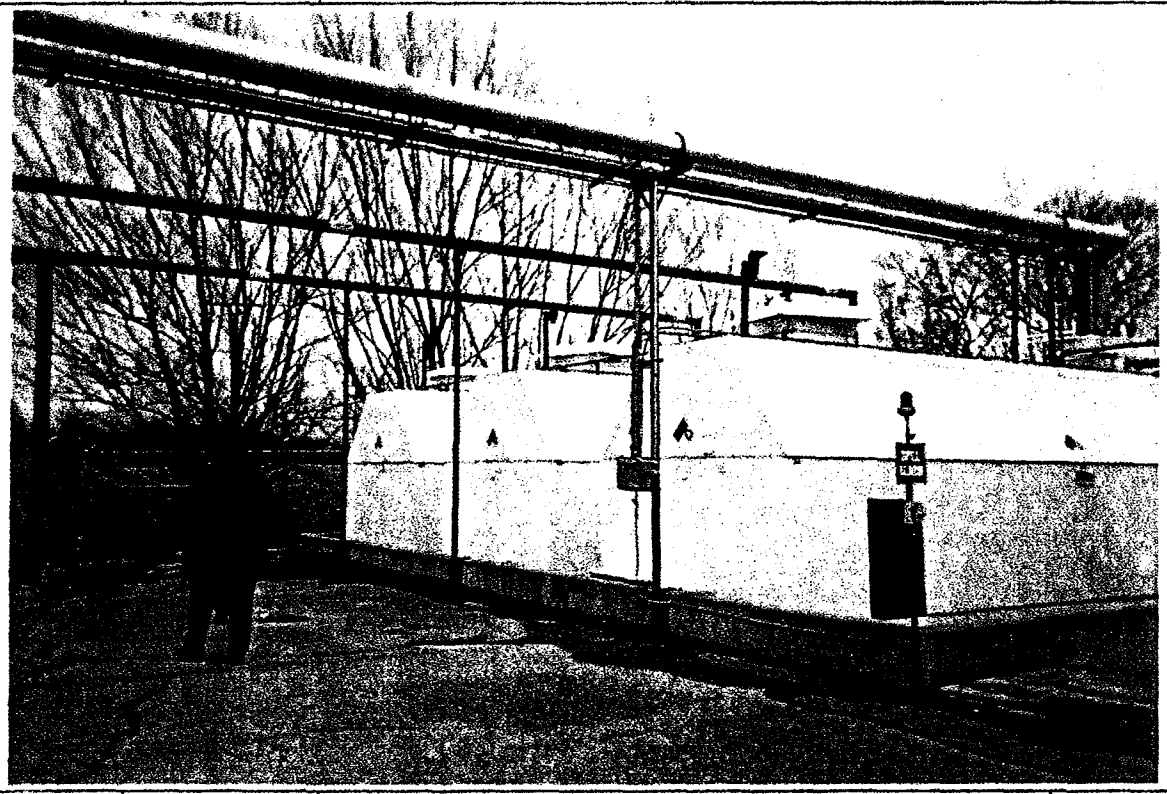
ERM Project No.	Description	Hobart Cabinet Company located west of Plant#1	Photo 11
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



ERM Project No.	Description	North Side of Plant #1	Photo 12
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

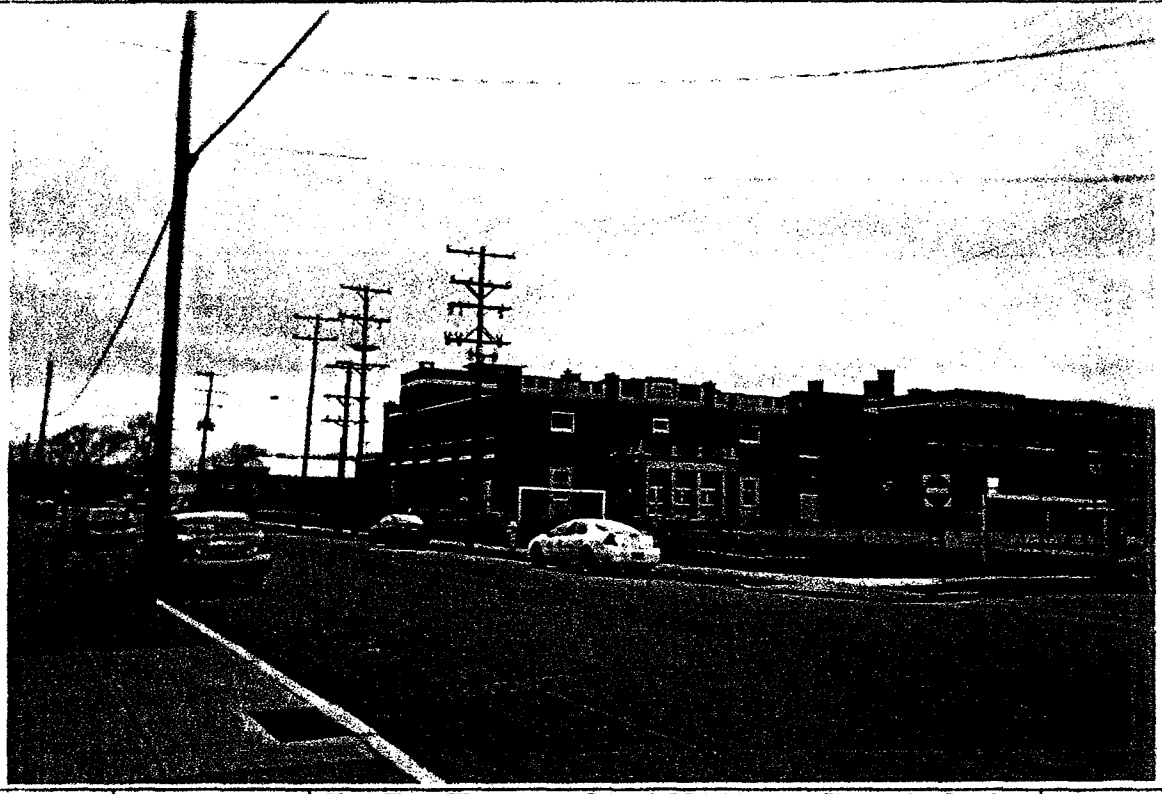


ERM Project No.	Description	Former Solvent Recovery System	Photo 13
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



ERM Project No.	Description	Solvent AST Tank Farm - no longer in service	Photo 14
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

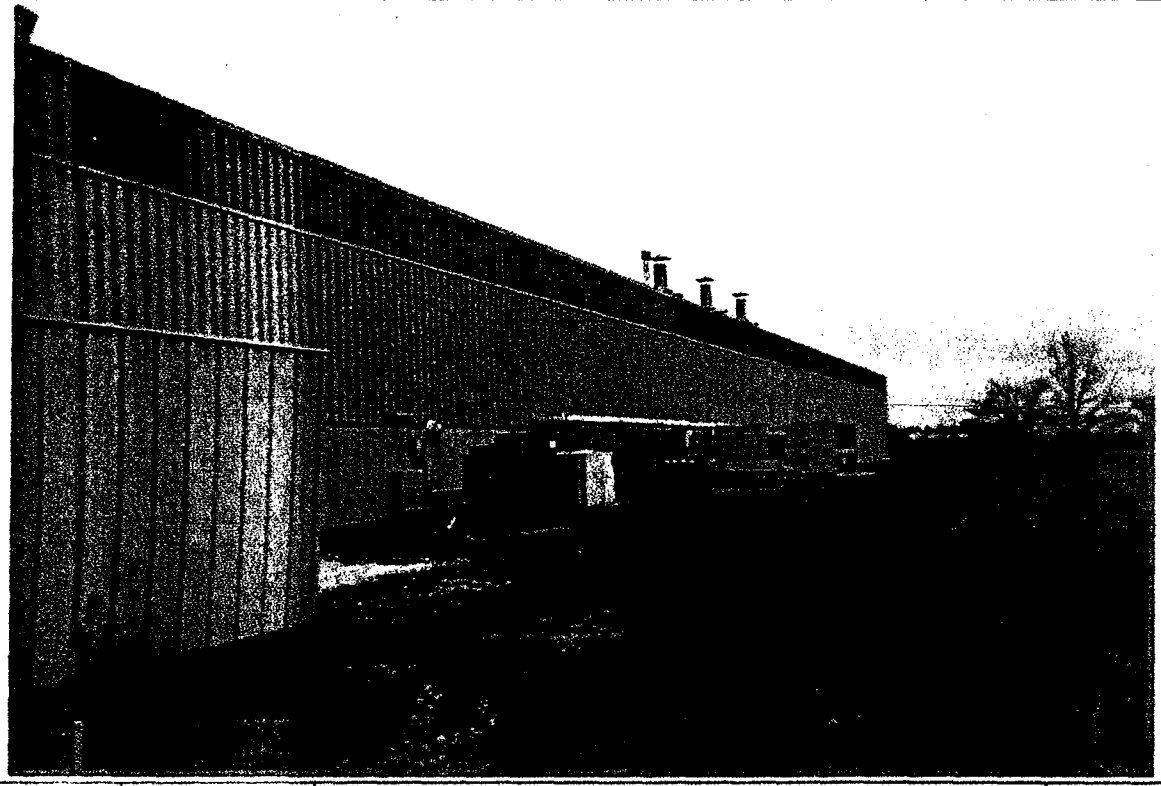
ERM Project No.	Description	South Side of Plant #1	Photo 15
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



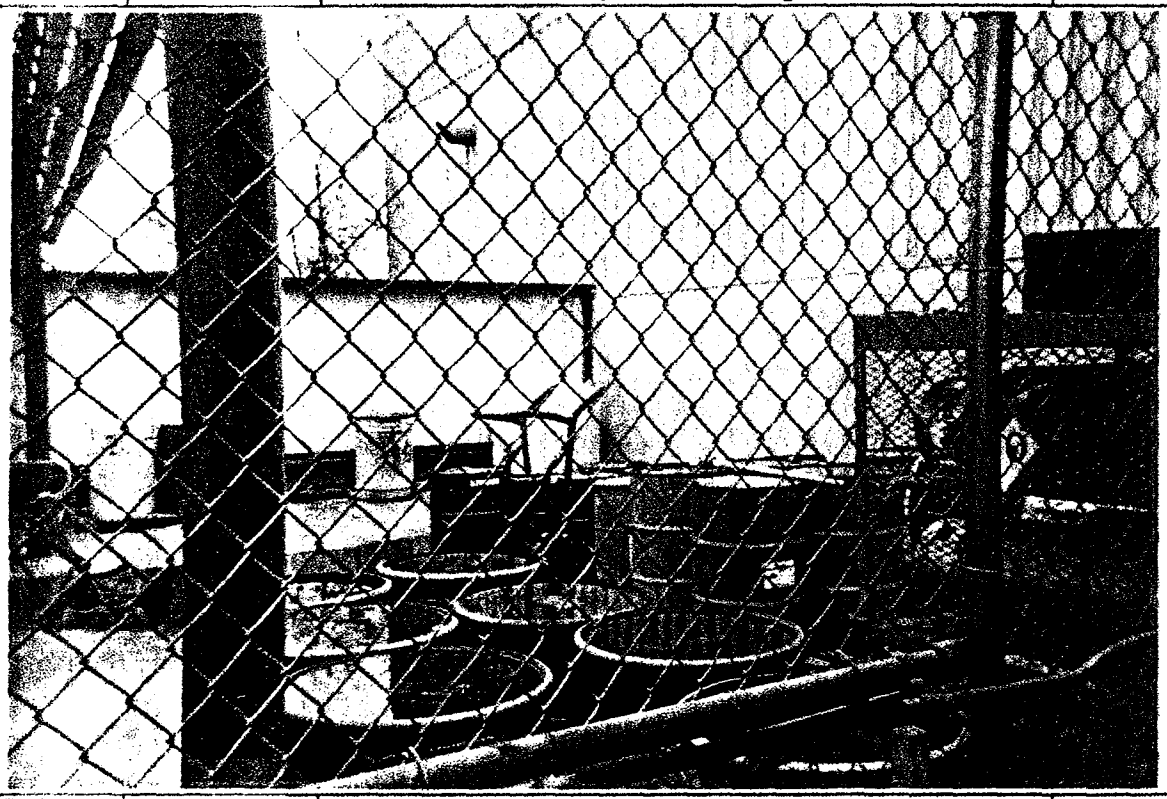
ERM Project No.	Description	Van Cleve Elementary School (Neighboring Site to the South of Plant #1)	Photo 16
HR501.00.01	Site Name	Plant #1 - 518 E. Water Street, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

ERM Project No.	Description	East Property Line	Photo 17
HR501.00.01	Site Name	Plant #2 - 30 Mary Bill Drive, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

ERM Project No.	Description	South Side of Plant #2	Photo 18
HR501.00.01	Site Name	Plant #2 - 30 Mary Bill Drive, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

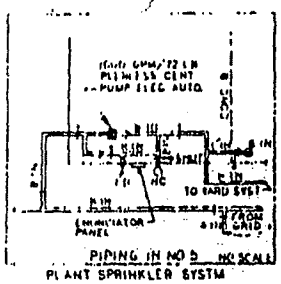


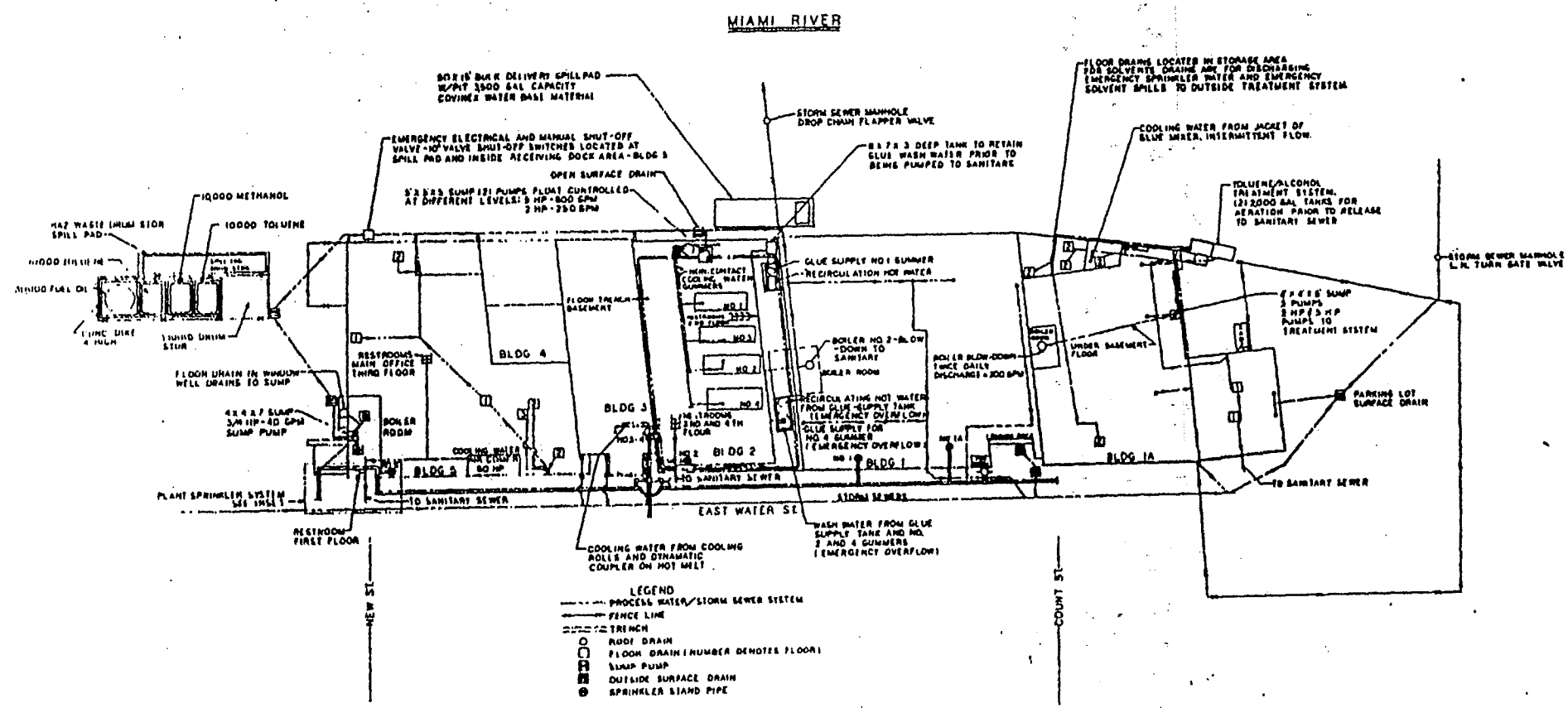
ERM Project No.	Description	North Side of Plant #2	Photo 19
HR501.00.01	Site Name	Plant #2 - 30 Mary Bill Drive, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02



ERM Project No.	Description	Hazardous Waste Storage Pad	Photo 20
HR501.00.01	Site Name	Plant #2 - 30 Mary Bill Drive, Troy OH	Date
	Client	Spinnaker Coating	1-Feb-02

Appendix B
Facility Layout Drawings for Plant No. 1

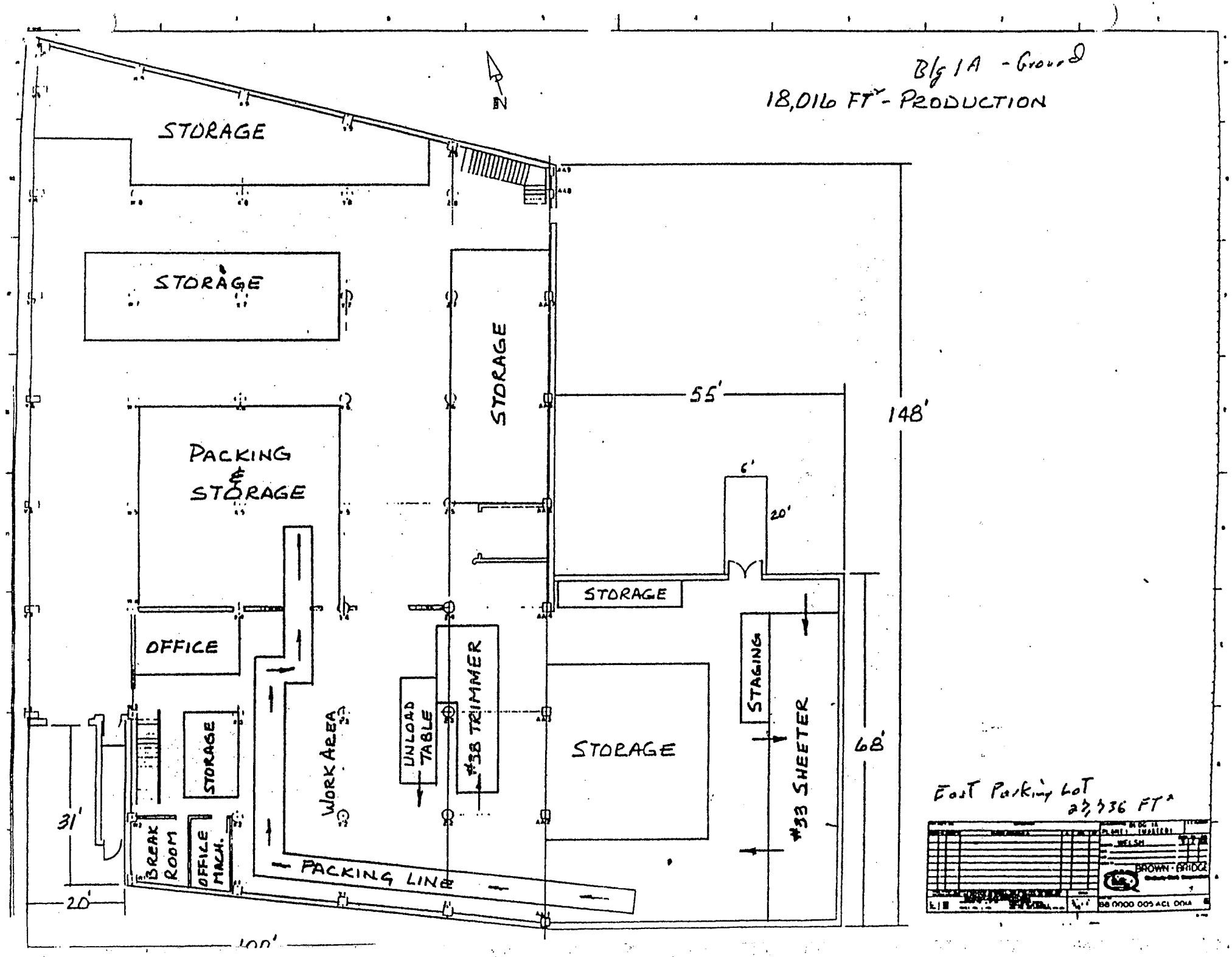


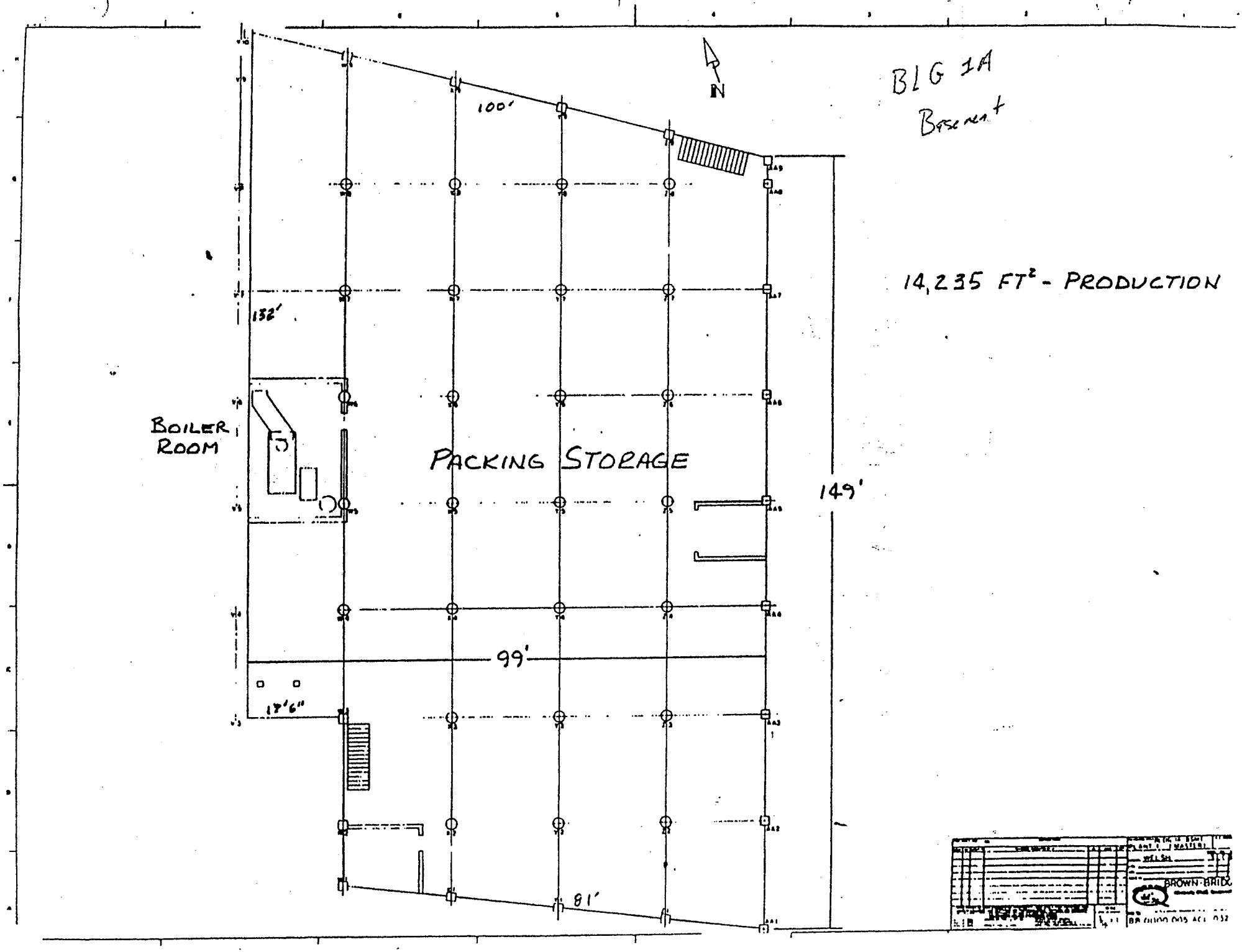


REVISIONS AND REVISION

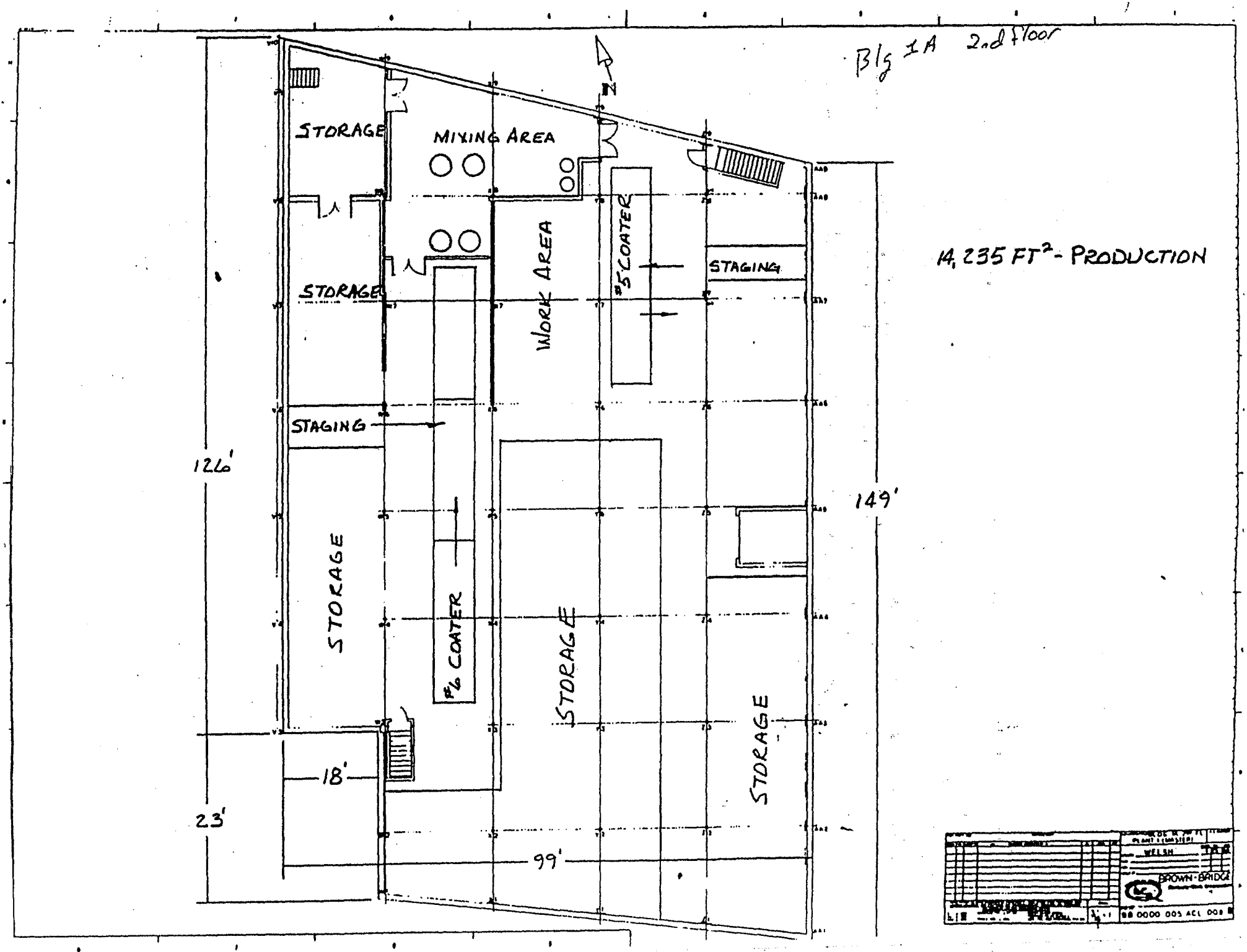
BROWN-BRIDGE

E-1056-1

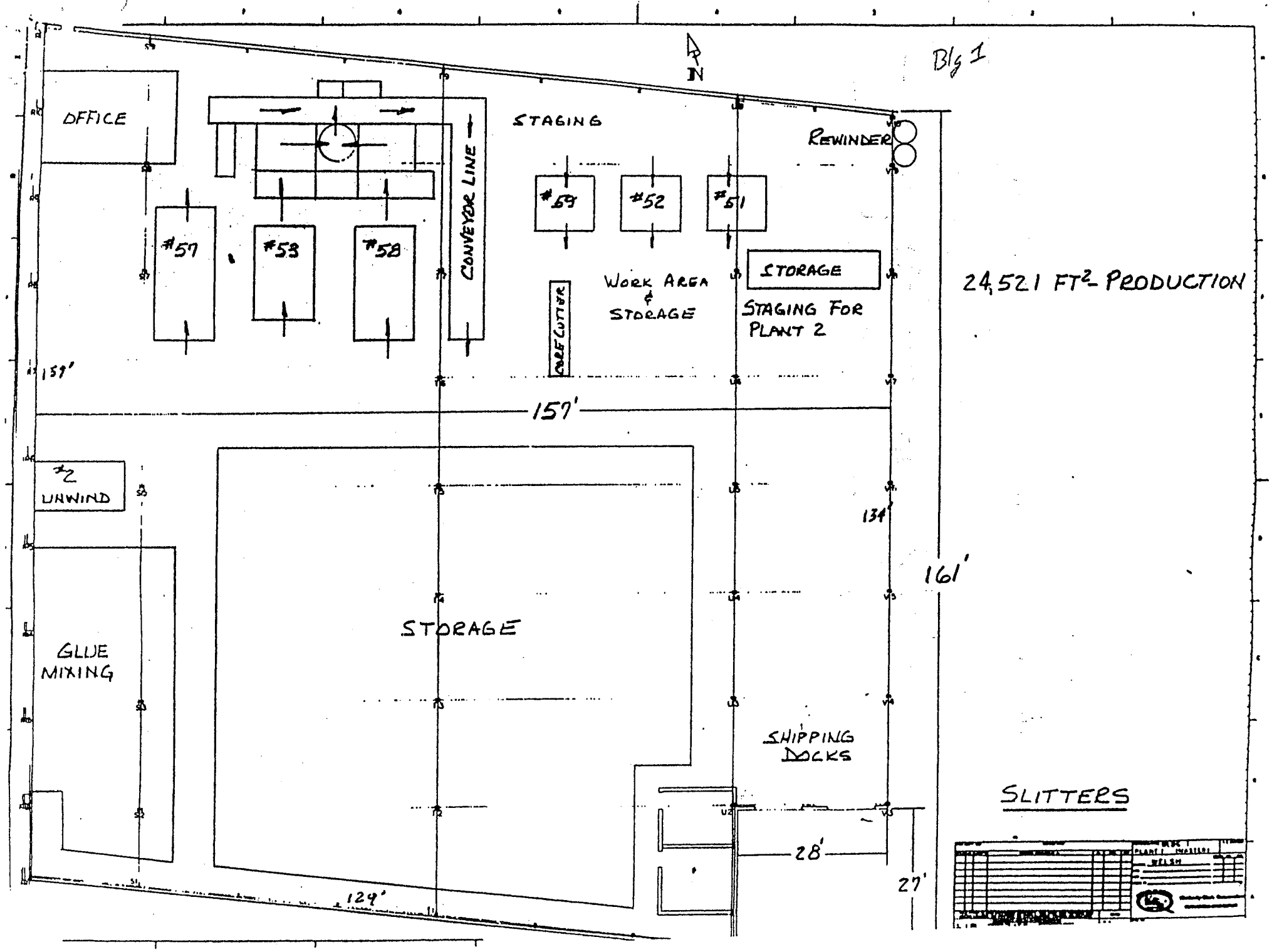

Blg 1A - Ground
18,016 FT² - PRODUCTION
N
STORAGE
STORAGE
STORAGE
PACKING & STORAGE
OFFICE
STORAGE
BREAK ROOM
OFFICE MACH.
WORK AREA
UNLOAD TABLE
#38 TRIMMER
PACKING LINE
STORAGE
STORAGE
STAGING
#33 SHEETER
55'
148'
6'
20'
68'
31'
20'
100'
East Parking Lot
23,936 FT²
WELSH
BROWN-BRIDGE

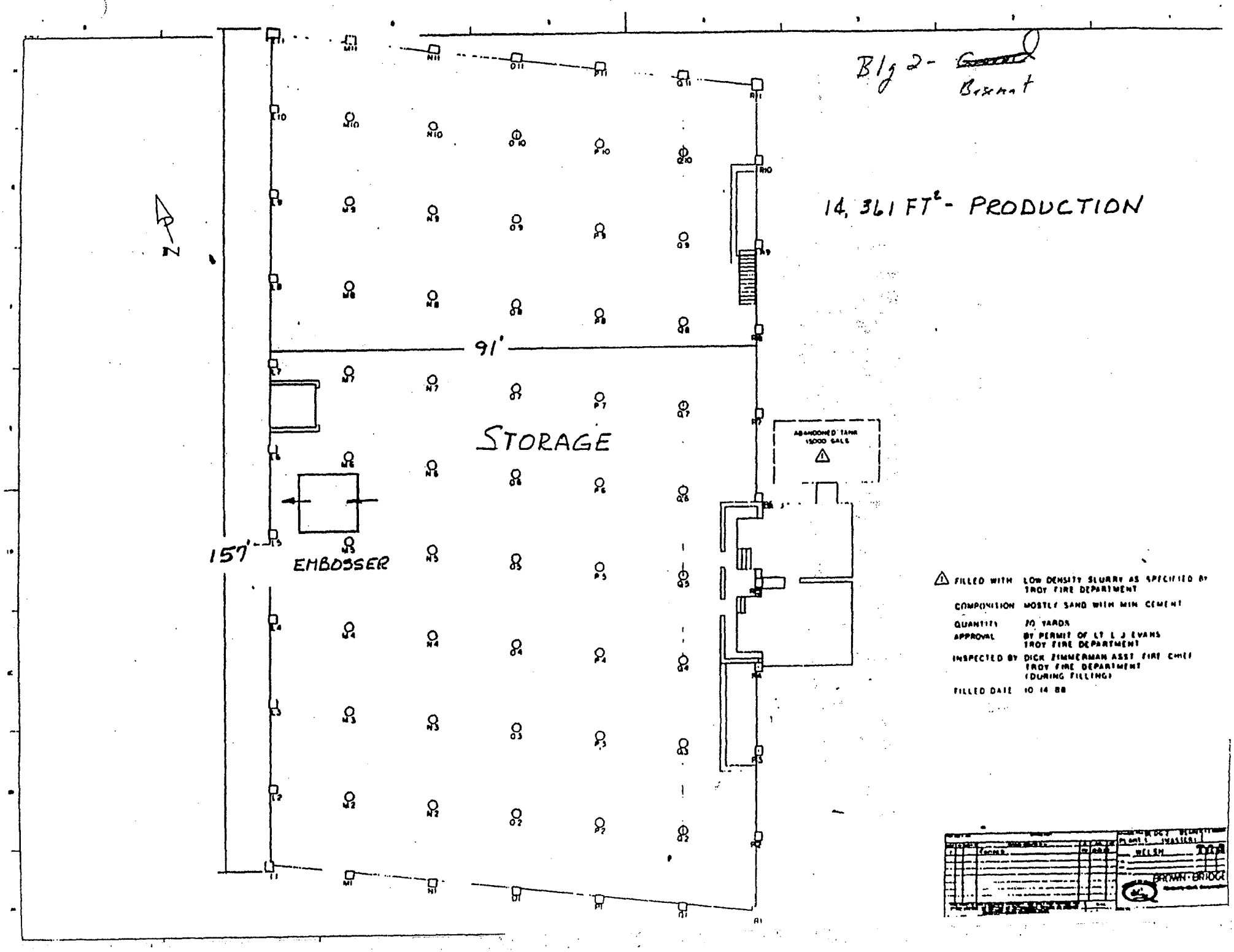

BLG 1A
Basement
14,235 FT² - PRODUCTION
N
100'
132'
BOILER ROOM
PACKING STORAGE
149'
99'
13'6"
81'
BROWN-BRIDGE

Blg 1A 2nd floor

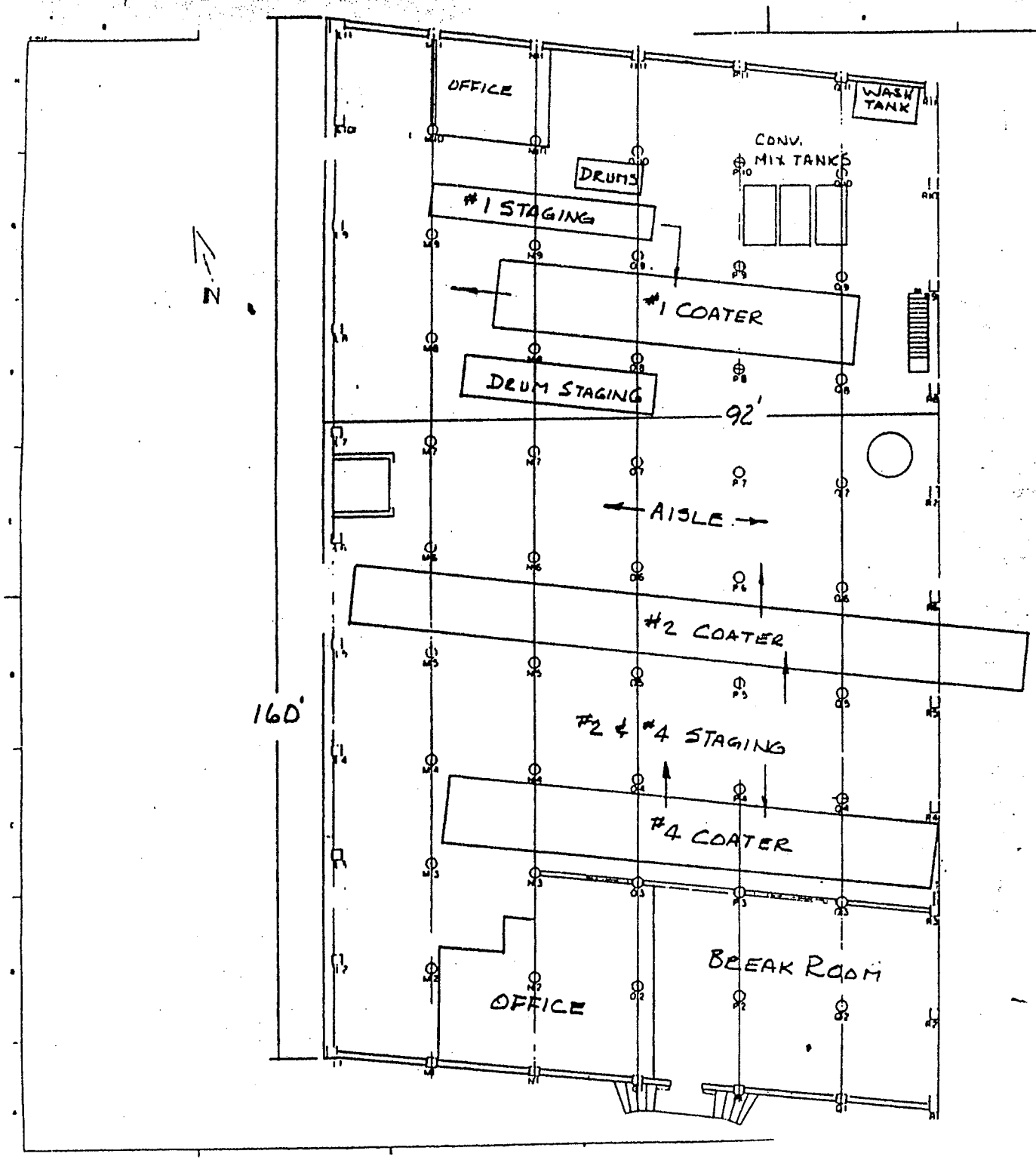


14,235 FT² - PRODUCTION


Blg 1
N
OFFICE
STAGING
REWINDER
CONVEYOR LINE
#57
#53
#58
#59
#52
#51
WORK AREA & STORAGE
CREF CUTTER
STORAGE
STAGING FOR PLANT 2
24,521 FT² - PRODUCTION
159'
157'
#2 UNWIND
134'
161'
GLUE MIXING
STORAGE
SHIPPING DOCKS
SLITTERS
28'
27'
129'

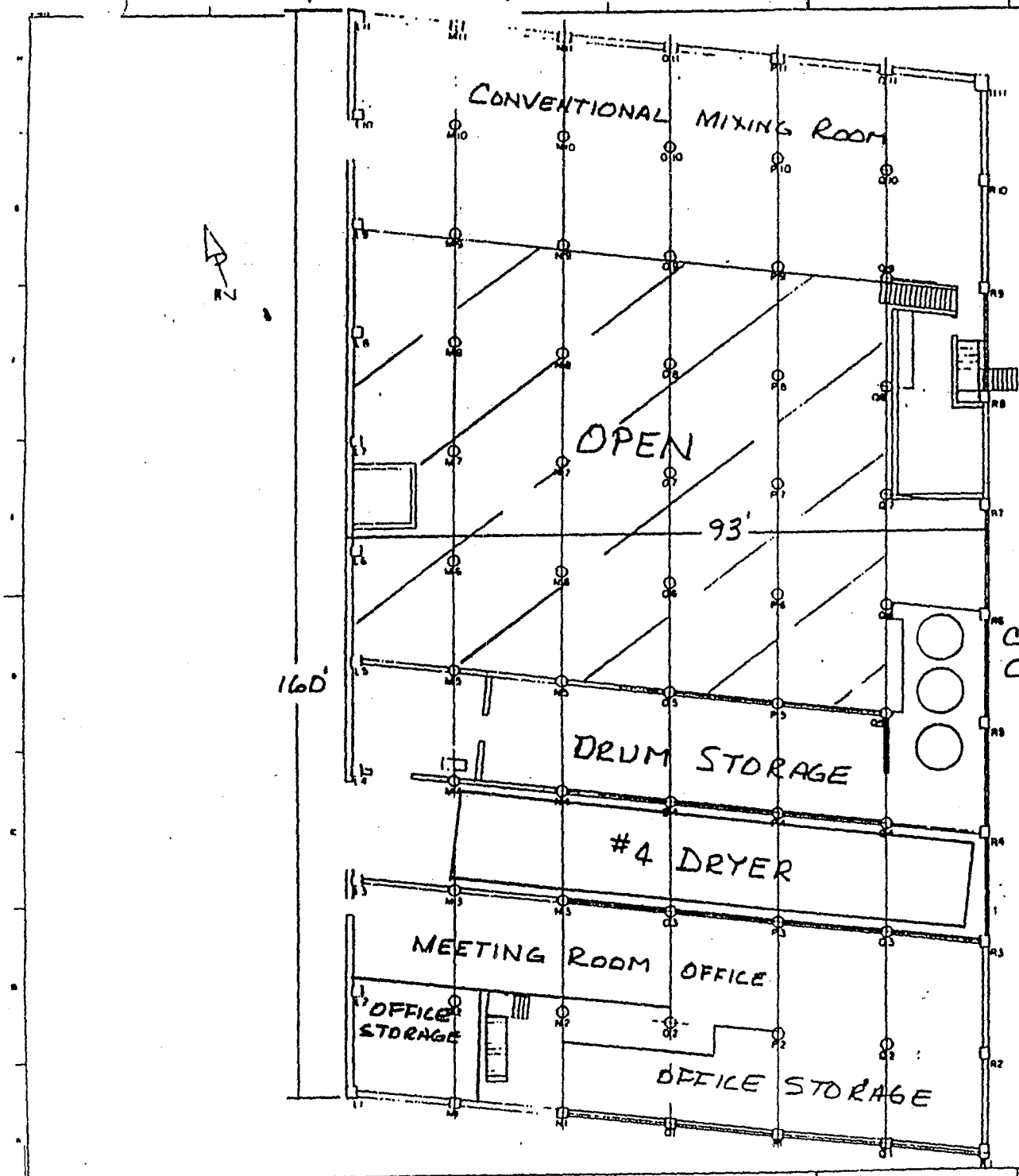

Blg 2- Basement
14,361 FT² - PRODUCTION
N
91'
157'
STORAGE
EMBOSSER
ABANDONED TANK 15000 GALS
FILLED WITH LOW DENSITY SLURRY AS SPECIFIED BY TROY FIRE DEPARTMENT
COMPOSITION MOSTLY SAND WITH MIN CEMENT
QUANTITY 70 YARDS
APPROVAL BY PERMIT OF LT L J EVANS TROY FIRE DEPARTMENT
INSPECTED BY DICK ZIMMERMAN ASST FIRE CHIEF TROY FIRE DEPARTMENT (DURING FILLING)
FILLED DATE 10 14 88
WELSH
BROWN-BRIDGE

Bldg 2 - ground



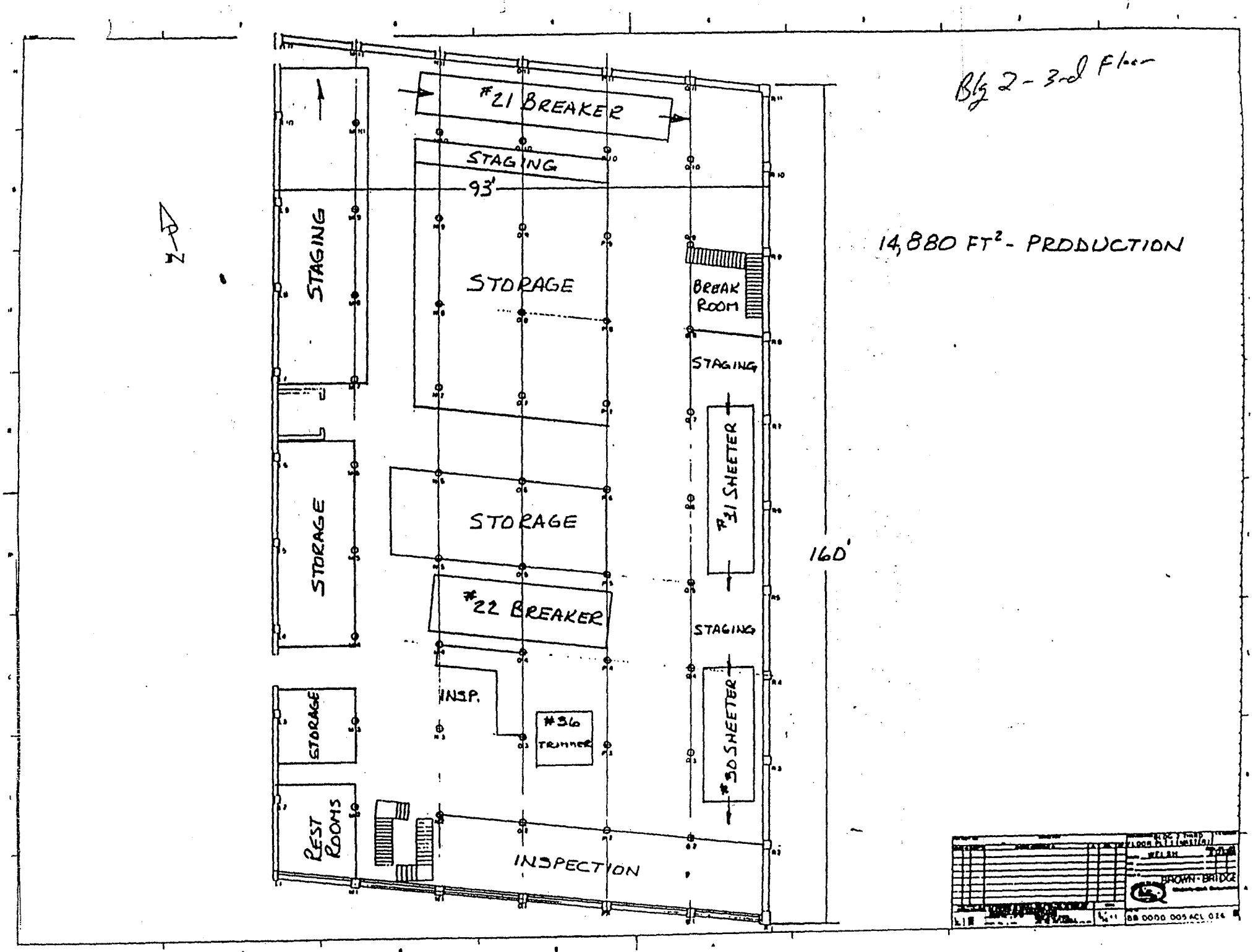
15,012 FT² - PRODUCTION

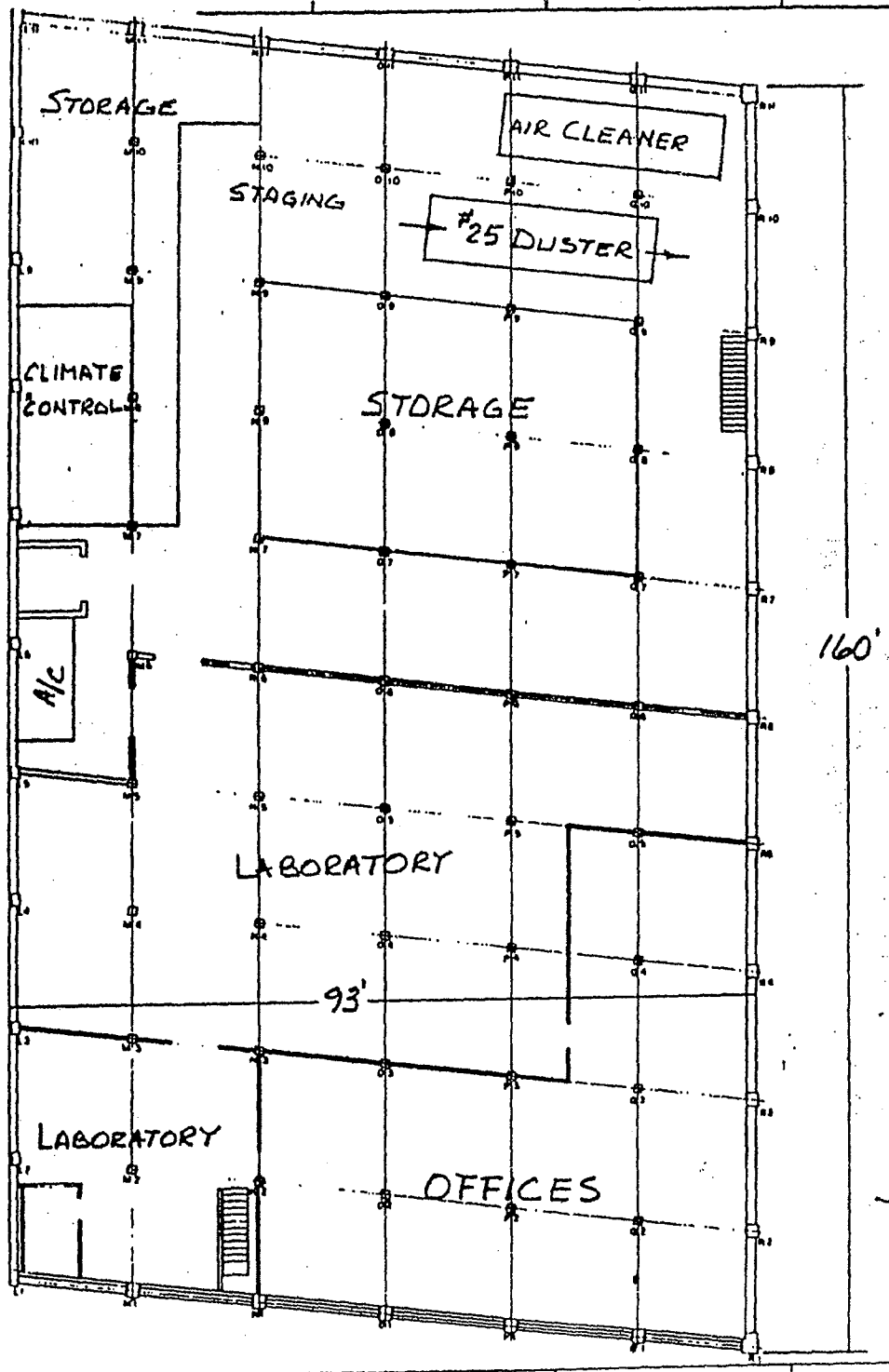
Bldg 2 - 2nd floor



6806 FT² - PRODUCTION
2970 FT² - OFFICE
5104 FT² - OPEN
14,880 FT² - TOTAL

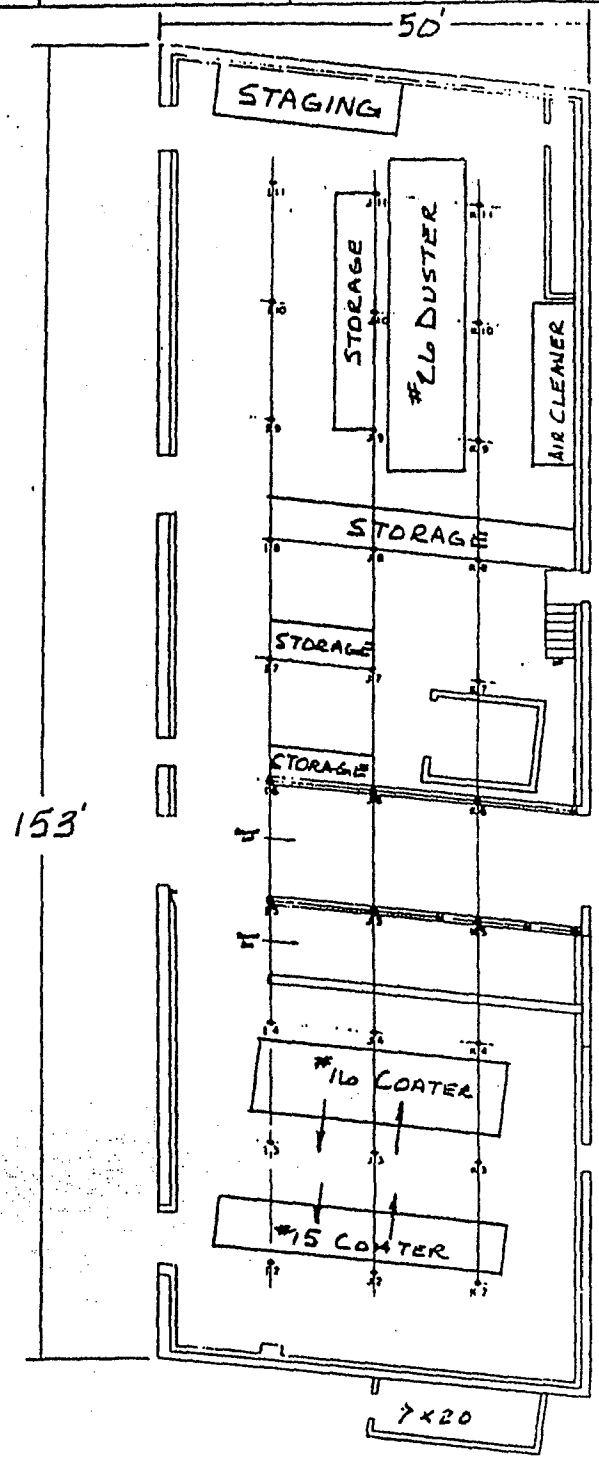
BROWN-BRIDGE


Bldg 2 - 3rd Floor
14,880 FT² - PRODUCTION
#21 BREAKER
STAGING
93'
STAGING
STORAGE
BREAK ROOM
STAGING
#31 SHEETER
STORAGE
STORAGE
160'
#22 BREAKER
STAGING
INSP.
#36 TRIMMER
#30 SHEETER
STORAGE
REST ROOMS
INSPECTION
N
WELSH
BROWN-BRIDGE



Bldg 2 4th Floor

7192 FT² - OFFICE
7688 FT² - PRODUCTION
14,880 FT² - TOTAL

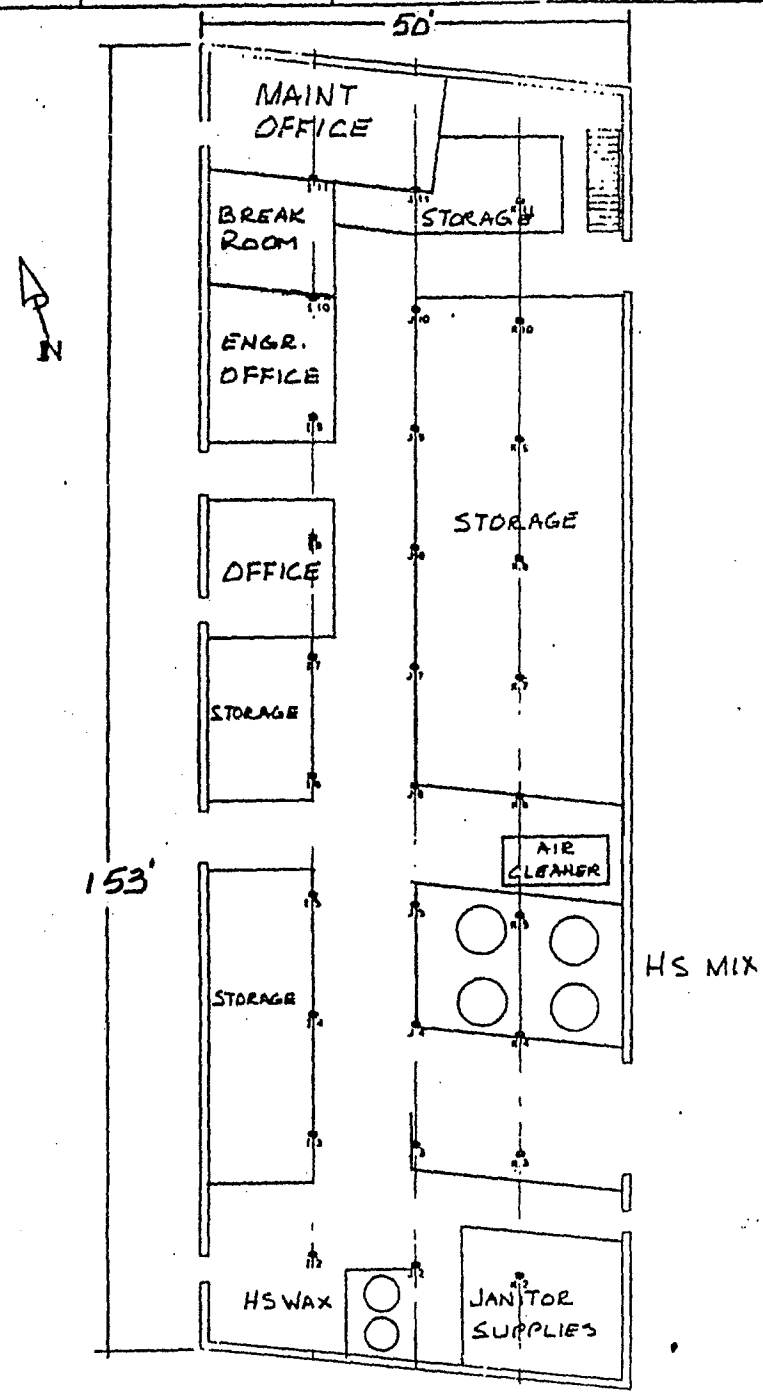


B/g 3 ground floor

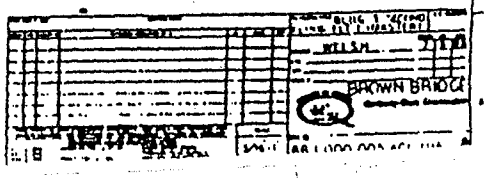
7665 FT² - PRODUCTION

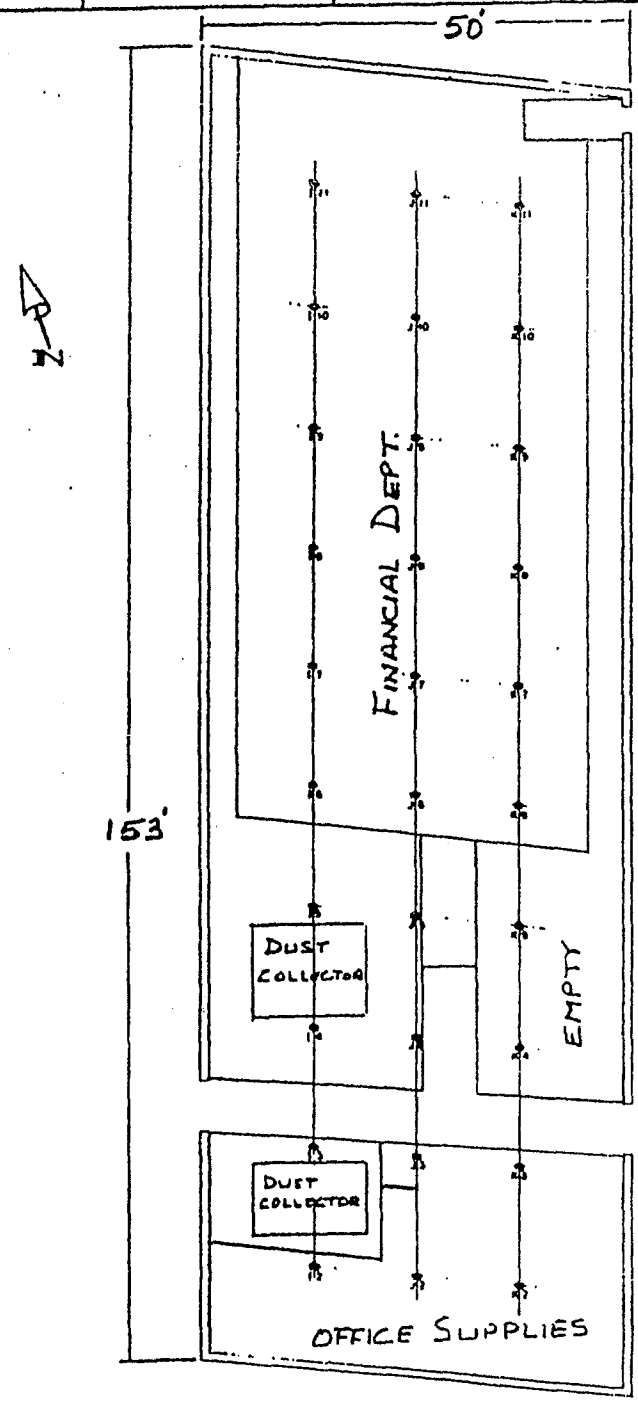
BROWN-BRIDGE

Blg 3 2nd floor



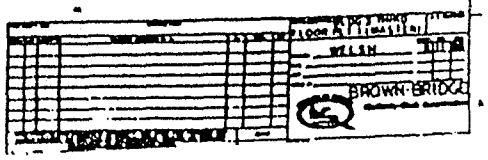
1703 FT² - OFFICE
5962 FT² - PRODUCTION
7,665 FT² - TOTAL

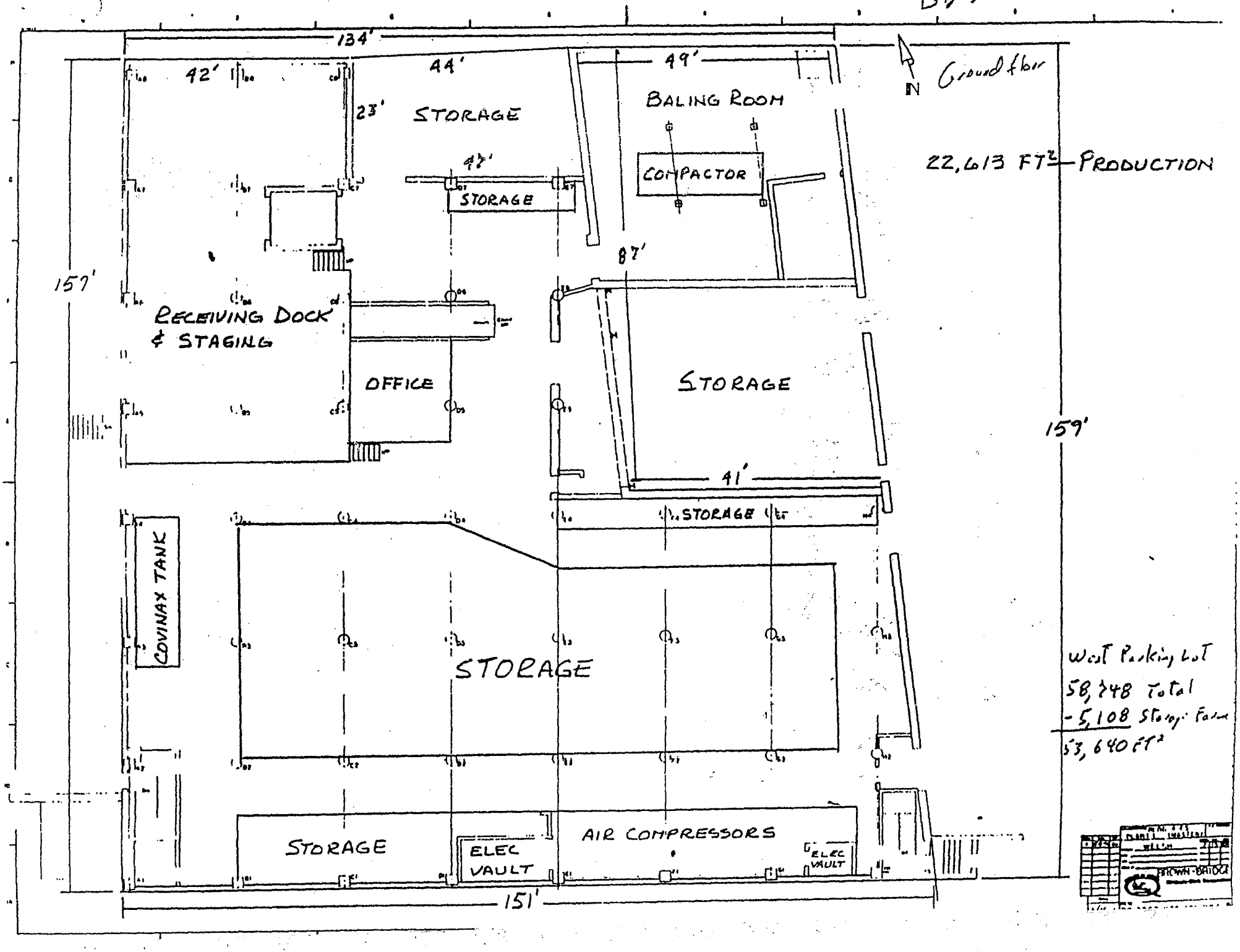




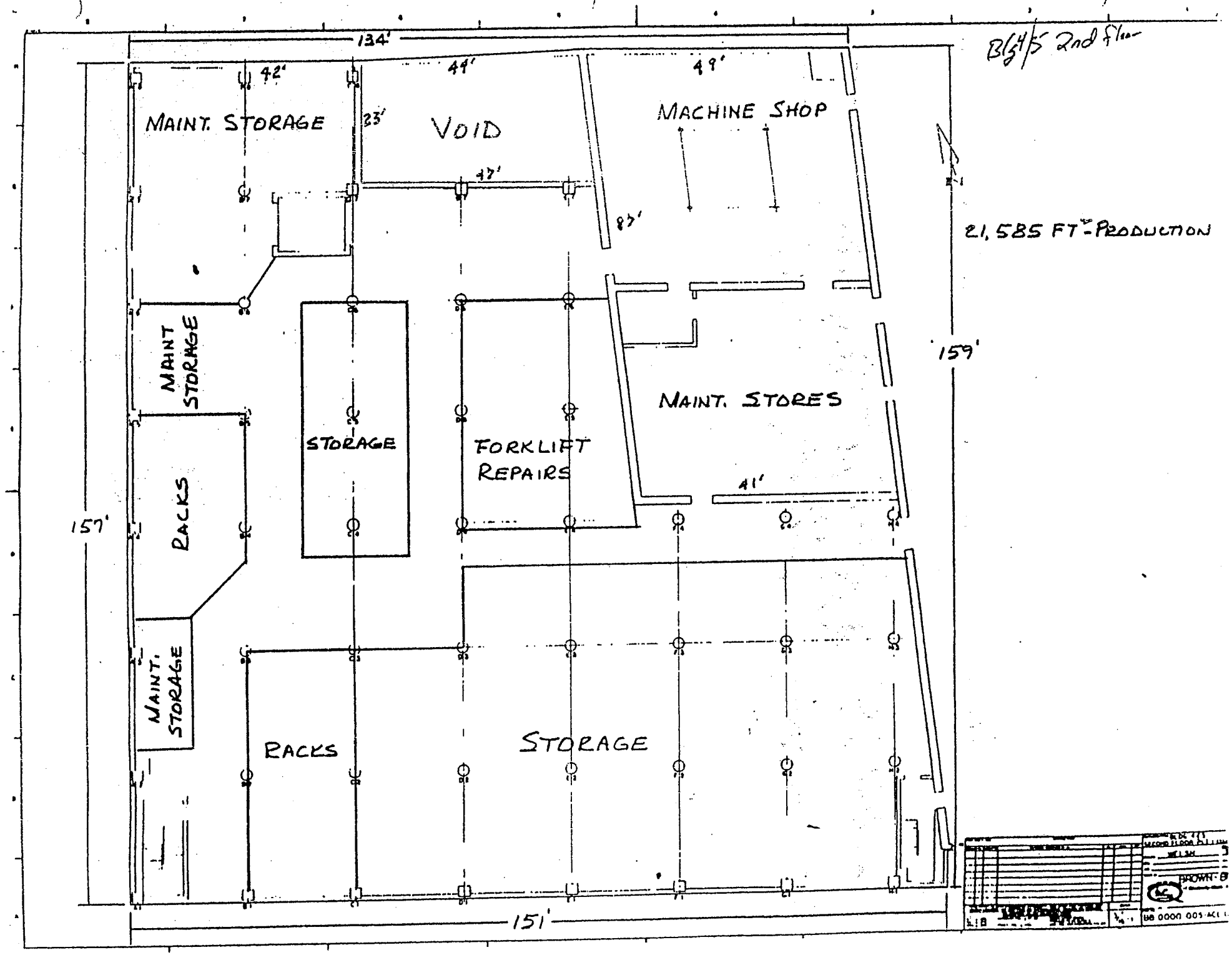
Blg. 3 - 3rd Floor

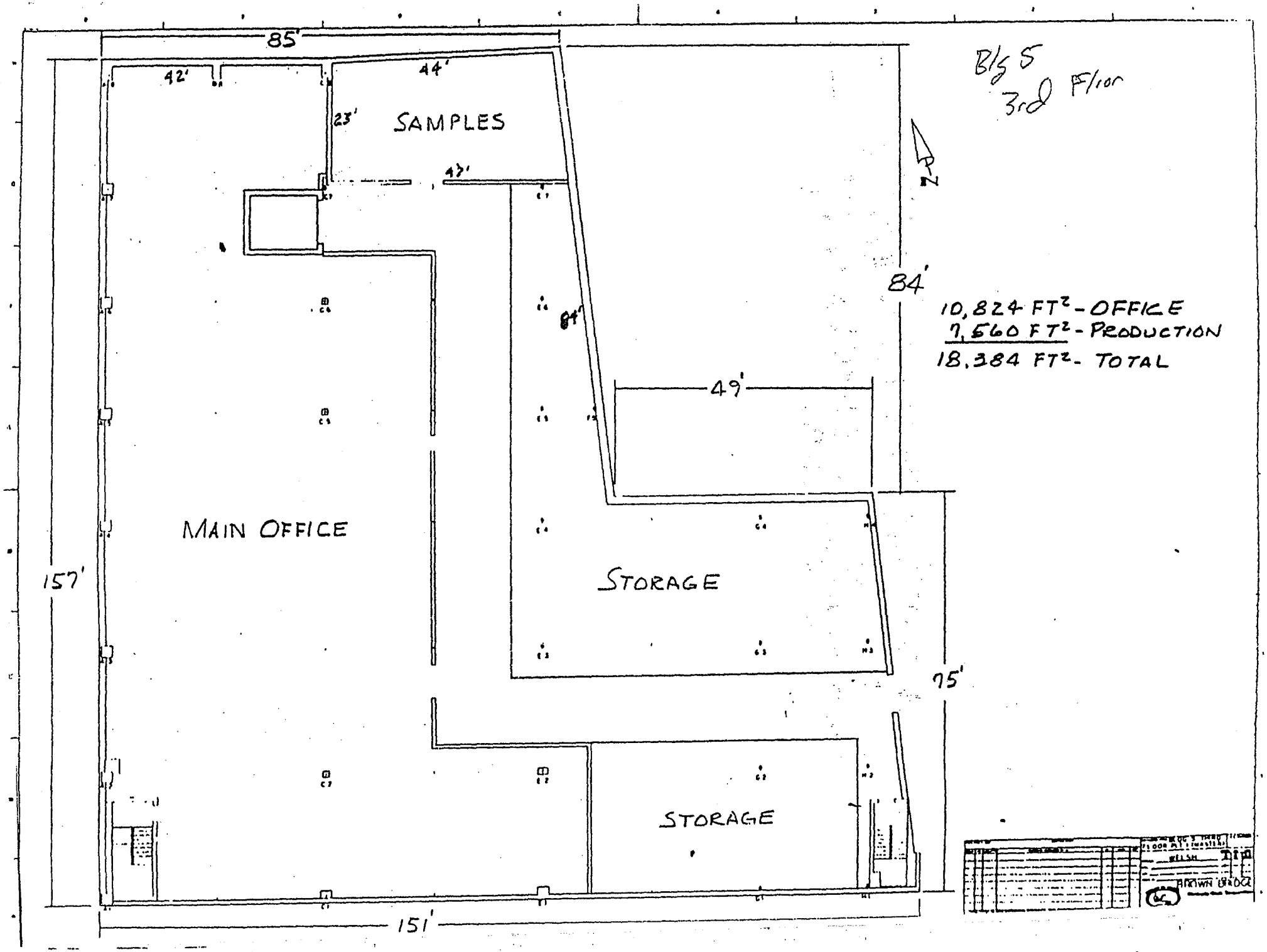
7665 FT² - OFFICE



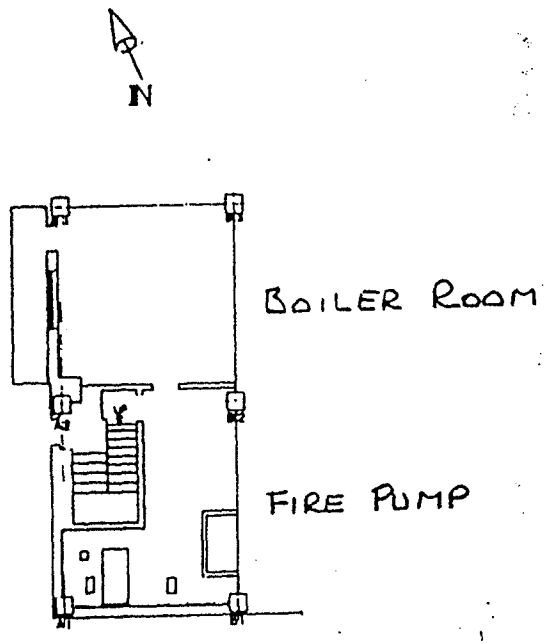


Bls 4/5
134'
42'
44'
49'
23'
STORAGE
BALING ROOM
N
Ground floor
22,613 FT² — PRODUCTION
47'
STORAGE
COMPACTOR
87'
157'
RECEIVING DOCK & STAGING
OFFICE
STORAGE
159'
41'
STORAGE
COVINAX TANK
STORAGE
West Parking Lot
58,748 Total
-5,108 Storage Farm
53,640 FT²
STORAGE
ELEC VAULT
AIR COMPRESSORS
ELEC VAULT
151'
BROWN-BRIDGE


B/4/5 2nd floor
134'
42'
44'
49'
MAINT. STORAGE
23'
VOID
MACHINE SHOP
47'
83'
21,585 FT² - PRODUCTION
MAINT STORAGE
STORAGE
FORKLIFT REPAIRS
MAINT. STORES
159'
41'
157'
RACKS
MAINT. STORAGE
RACKS
STORAGE
151'


Bldg 5
3rd Floor
85'
42'
44'
23'
SAMPLES
42'
84'
84'
49'
MAIN OFFICE
STORAGE
STORAGE
157'
75'
151'
N
10,824 FT² - OFFICE
7,560 FT² - PRODUCTION
18,384 FT² - TOTAL

B/s 5 sub-basement



BROWN · BRIDGE

08 0000 005-ACL 005

Appendix C
1994 Asbestos Survey Results for Plant No. 1

InterOffice

ANNEX 1

Kimberly-Clark Corporation

To: K. C. Caldabaugh

Location:

Date: August 23, 1994

From: J. E. Carter

Subject: ASBESTOS

Confirming our phone discussion yesterday about asbestos, our plan is as follows:

1. Remove asbestos insulation on drain trap identified by EEI's sample KC 11. Re-insulate with non-asbestos material.

2. Remove asbestos insulation on air handling unit identified by EEI's sample KC 10. Re-insulate with non-asbestos material.

3. Remove asbestos insulation on 50' of miscellaneous steam piping and re-insulate as required with non-asbestos material.

4. Repair cover material on asbestos insulation on 2,100' of steam piping including providing non-asbestos insulation at each pipe hanger.

All items will be done by a licensed contractor with permits obtained prior to beginning the work.

Items 1, 2 and 3 will be done by the end of August. Item 4 will be scheduled for September and will be paid for by Kimberly-Clark even if not done until after closing of the sale.

As I explained, our laboratory analysis by two different methods (PLM and TEM), showed only a trace (less than 1%) of asbestos content in the brown coat plaster ceilings. Therefore, we do not plan on do any work on these ceilings.

Attached are copies of the results from our two different sampling methods and a summary of the inspection by our corporate personnel.

Please call if you need any further information on our asbestos plan.

John

John E. Carter

JEC/tjb

InterOffice

Kimberly-Clark Corporation

TO: Wayne H. Deitrich

C: J. C. Morgenstern
W. J. Sharkey

FROM: Anthony L. Gasper

FAX COPY: J. E. CARTER 8/22/94

DATE: August 22, 1994

SUBJECT: BROWN-BRIDGE ASBESTOS SURVEY/EEI REPORT

Attached is a summary for my August 17 visit to Brown-Bridge to review the condition of asbestos-containing materials within the facility in response to the Environmental Enterprises, Inc. report of July 15, 1994.

There are no nonconformance issues relative to OSHA or EPA regulations reported in the EEI document. Similarly, I found the facility to be in conformance with OSHA requirements regarding asbestos.

The following recommendations are provided to ensure that friable asbestos fibers are not exposed to air and will not become airborne.

1) **Relative to the steam pipe insulation in Building 1, Ground Floor: Repair the fabric wrapping to eliminate the exposure of the asbestos pipe insulation to the air.** Estimated Cost: $7,500.00

2) **Relative to the four other insulation locations identified: Removal of these four isolated asbestos insulation runs is recommended.** Estimated Cost: $1,000.00.

Discussions with the asbestos abatement contractor indicates that Recommendation 2 could be completed in August through inclusion into the contract issued for the removal of the asbestos on the Building 2 fourth floor air handling unit. The other recommendation could be completed in September.

3) **It is recommended that no remedial action be taken relative to the ceiling surface brown coat plaster materials in the mezzanine area above the #2 and #4 coater or in the factory conference room.**

These plaster materials have been determined to be less than 1% asbestos, as confirmed by Transmission Electron Microscopy. As such, the plaster is not considered to be an asbestos containing material by the EPA or OSHA.

If I can be of further assistance in this matter, please let me know.

Anthony L. Gasper

Anthony L. Gasper P.E. C.I.H.
Occupational Safety and Health

TOTAL P.07

Environmental Enterprises Incorporated

TREATMENT FACILITY
4650 Spring Grove Ave.
Cincinnati, Ohio 45232
(513) 541 - 1823

EPA ID # : OHD 083377010

OFFICE / LABORATORY
10163 Cincinnati - Dayton Rd.
Cincinnati, Ohio 45241
(513) 772 - 2818

August 29, 1994

Grant Wilkinson, Esq.
University of Findlay
1000 North Main Street
Findlay, Ohio 45840

RE: Asbestos content of the brown coat ceiling surface material located above the #2 and #4 coater and in the factory conference room.

Dear Mr. Wilkinson:

Upon review of the data supplied by the Kimberly-Clark Corporation which confirms the asbestos content of the plaster materials to be less than 1% by Transmission Electron Microscopy Environmental Enterprises Inc. is prepared to amend the July 15, 1994, survey report if desired. Recommendations made in the survey report were based on asbestos content guidelines established by the EPA 40 CFR Part 763, which is any material analyzed by polarized light microscopy containing more than 1 percent asbestos and the OSHA 29 CFR 1926.58, any material containing more than 0.1 percent by weight.

As of the August 10, 1994, Federal Register, 29 CFR 1926.1101, OSHA has changed its definition of asbestos-containing material to any material which contains amounts of asbestos greater than 1 percent. The effective date of this standard is October 11, 1994. Prior to this date materials reported as containing trace amounts of asbestos are regulated by OSHA unless otherwise analyzed and specifically reported to be less than 0.1 by weight.

The painted ceiling surface brown coat plaster material located on the second level mezzanine of building #2 should also be reanalyzed by more accurate methods to confirm whether the asbestos content is below 1 percent. If this information is desired we

COMPREHENSIVE ASBESTOS SURVEY REPORT

KIMBERLY-CLARK CORPORATION

BROWN-BRIDGE FACILITIES
TROY, OHIO

DATE OF INSPECTION AND SURVEY: JULY 6, 1994

DATE OF FINAL REPORT: JULY 15, 1994

INVESTIGATORS:

ENVIRONMENTAL ENTERPRISES, INC.
Environmental Assessment Group

Mark B. Kimura, BS, IH

Mr. Mark Koetter, IHT

ASBESTOS CONTAINING HOMOGENEOUS AREAS DOCUMENTED BY KIMBERLY-CLARK CORPORATION

BUILDING 1A

GROUND LEVEL

* Thermal System Pipe Insulation
* Thermal System Boiler Stack Insulation

SECOND LEVEL

* Thermal System Glue Tank Insulation

ROOF

* Miscellaneous Built-up Roofing Materials

BUILDING 1

GROUND LEVEL

* Thermal System Roof Drain Insulation
* Thermal System Pipe Insulation
* Thermal System Boiler Stack Insulation

ASBESTOS CONTAINING HOMOGENEOUS AREAS
DOCUMENTED BY KIMBERLY-CLARK CORPORATION

BUILDING #2

GROUND LEVEL

* Thermal System Oven Insulation
* Acoustical Ceiling Surface Plaster Material

SECOND LEVEL MEZZANINE

* Case Door Insulation #2 Coater
* Thermal System Oven Insulation #4 Coater

THIRD LEVEL

* Thermal System Pipe Insulation

FOURTH LEVEL

* Acoustical Ceiling Surface Plaster Material
* Thermal System Pipe Insulation

BUILDING 3

GROUND LEVEL

* Thermal System Pipe Insulation
* Miscellaneous Transite Board

ASBESTOS CONTAINING HOMOGENEOUS AREAS
DOCUMENTED BY
ENVIRONMENTAL ENTERPRISES, INC.

7 areas

BUILDING 1A

BASEMENT LEVEL

* Fire Door Insulation

GROUND LEVEL

* Thermal System Trap Insulation

SECOND LEVEL

* Fire Door Insulation

ROOF

* Miscellaneous Built-up Roofing Materials

BUILDING #2

BASEMENT BOILER ROOM

* Fire Door Insulation

SECOND LEVEL FACTORY CONFERENCE ROOM CAGE AREA

* Ceiling Surface Brown Coat Plaster Material

* Miscellaneous Floor Tile Material

SECOND LEVEL MEZZANINE

* Ceiling Surface Brown Coat Plaster Material

* Painted Ceiling Surface Brown Coat Material

* Fire Door Insulation

THIRD LEVEL

* Fire Door Insulation

FOURTH LEVEL

* Thermal System AHU Panel Insulation

BUILDING 4

BOILER ROOM

* Fire Door Insulation

MAINTENANCE SHOP

* Fire Door Insulation

BUILDING 5

SECOND LEVEL

* Fire Door Insulation

ASBESTOS MATERIALS ESTIMATED ABATEMENT COST
FOR
MATERIALS DOCUMENTED BY KIMBERLY-CLARK

LOCATION: BUILDING 1A, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM PIPE INSULATION	1 LINEAR FOOT	$15.00/LF	$15.00
THERMAL SYSTEM BOILER STACK INSULATION	55 SQUARE FEET	$15.00/SF	$825.00
TOTAL COST			$840.00

LOCATION: BUILDING 1A, SECOND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM GLUE TANK INSULATION	112 SF	$15.00/SF	$1,680.00
TOTAL COST			$1,680.00

LOCATION: BUILDING 1, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM PIPE INSULATION	2,176 LF	$15.00/LF	$32,640.00
THERMAL SYSTEM BOILER STACK INSULATION	52 SF	$15.00/SF	$780.00
TOTAL COST			$33,420.00

LOCATION: BUILDING #2, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM OVEN INSULATION	2,747 SF	$15.00/LF	$41,205.00
ACOUSTICAL CEILING SURFACE PLASTER MATERIAL	560 SF	$15.00/SF	$8,400.00
TOTAL COST			$49,605.00

LOCATION: BUILDING #2, SECOND LEVEL MEZZANINE

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM CASE DOOR #2 COATER	153 SF	$15.00/SF	$2,295.00
THERMAL SYSTEM OVEN INSULATION #4 COATER	1,906 SF	$15.00/SF	$28,590.00
TOTAL COST			$30,885.00

LOCATION: BUILDING #2, THIRD LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM PIPE INSULATION	13 LF	$15.00/SF	$195.00
TOTAL COST			$195.00

LOCATION: BUILDING #2, FOUR LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
ACOUSTICAL CEILING SURFACE PLASTER MATERIAL	2,954 SF	$15.00/SF	$44,310.00
THERMAL SYSTEM PIPE INSULATION	7 LF	$15.00/SF	$105.00
TOTAL COST			$44,415.00

LOCATION: BUILDING #3, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM PIPE INSULATION	29 LF	$15.00/SF	$435.00
MISCELLANEOUS TRANSITE BOARD MATERIAL	148 SF	$4.00/SF	$592.00
TOTAL COST			$1,027.00

TOTAL ESTIMATED ABATEMENT COST	$162,067.00

ASBESTOS MATERIALS ESTIMATED ABATEMENT COST
FOR
MATERIALS DOCUMENTED BY ENVIRONMENTAL ENTERPRISES, INC

LOCATION: BUILDING 1A, BASEMENT LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOORS	2 DOORS	$200.00/DOOR	$400.00
TOTAL COST			$400.00

LOCATION: BUILDING 1A, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM TRAP INSULATION	2 PIPE JOINTS	$15.00/PJ	$30.00
TOTAL COST			$30.00

LOCATION: BUILDING 1A, SECOND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOORS	5 DOORS	$200.00/DOOR	$1,000.00
TOTAL COST			$1,000.00

LOCATION: BUILDING 1A, ROOF

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
MISCELLANEOUS ROOFING FELT MATERIAL	5,000 SF	$4.00/SF	$17,500.00
TOTAL COST			$17,500.00

LOCATION: BUILDING 1, GROUND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM ROOF DRAIN INSULATION	170 LF	$15.00/LF	$2,550.00
TOTAL COST			$2,550.00

LOCATION: BUILDING #2, BASEMENT LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOORS	2 DOORS	$200.00/DOOR	$400.00
TOTAL COST			$400.00

LOCATION: BUILDING #2, SECOND LEVEL FACTORY CONFERENCE ROOM CAGE AREA

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
CEILING SURFACE BROWN COAT PLASTER MATERIAL	800 SF	$15.00/SF	$12,000.00
MISCELLANEOUS FLOOR TILE	969 SF	$3.00/SF	$2,907.00
TOTAL COST			$14,907.00

LOCATION: BUILDING #2, SECOND LEVEL MEZZANINE

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
CEILING SURFACE BROWN COAT PLASTER MATERIAL	2,880 SF	$15.00/SF	$43,200.00
PAINTED CEILING SURFACE BROWN COAT PLASTER MATERIAL	10,740 SF	$15.00/SF	$161,100.00
FIRE DOOR	1 DOOR	$200.00/DOOR	$200.00
TOTAL COST			$204,500.00

LOCATION: BUILDING #2, THIRD LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOORS	2 DOORS	$200.00/DOOR	$400.00
TOTAL COST			$400.00

LOCATION: BUILDING #2, FOUR LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
THERMAL SYSTEM AHU PANEL INSULATION	196 SF	$15.00/SF	$2,940.00
TOTAL COST			$2,940.00

LOCATION: BUILDING #4, BOILER ROOM

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOOR	1 DOOR	$200.00/DOOR	$200.00
TOTAL COST			$200.00

LOCATION: BUILDING #4, MAINTENANCE SHOP

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOOR	1 DOOR	$200.00/DOOR	$200.00
TOTAL COST			$200.00

LOCATION: BUILDING #5, SECOND LEVEL

MATERIAL TYPE	QUANTITIES	REMOVAL COST	TOTAL COST
FIRE DOOR	1 DOOR	$200.00/DOOR	$200.00
TOTAL COST			$200.00
TOTAL ESTIMATED ABATEMENT COST			$245,227.00
GRAND TOTAL ESTIMATED ASBESTOS ABATEMENT COST			$407,294.00

Appendix D
Information from Previous Investigations

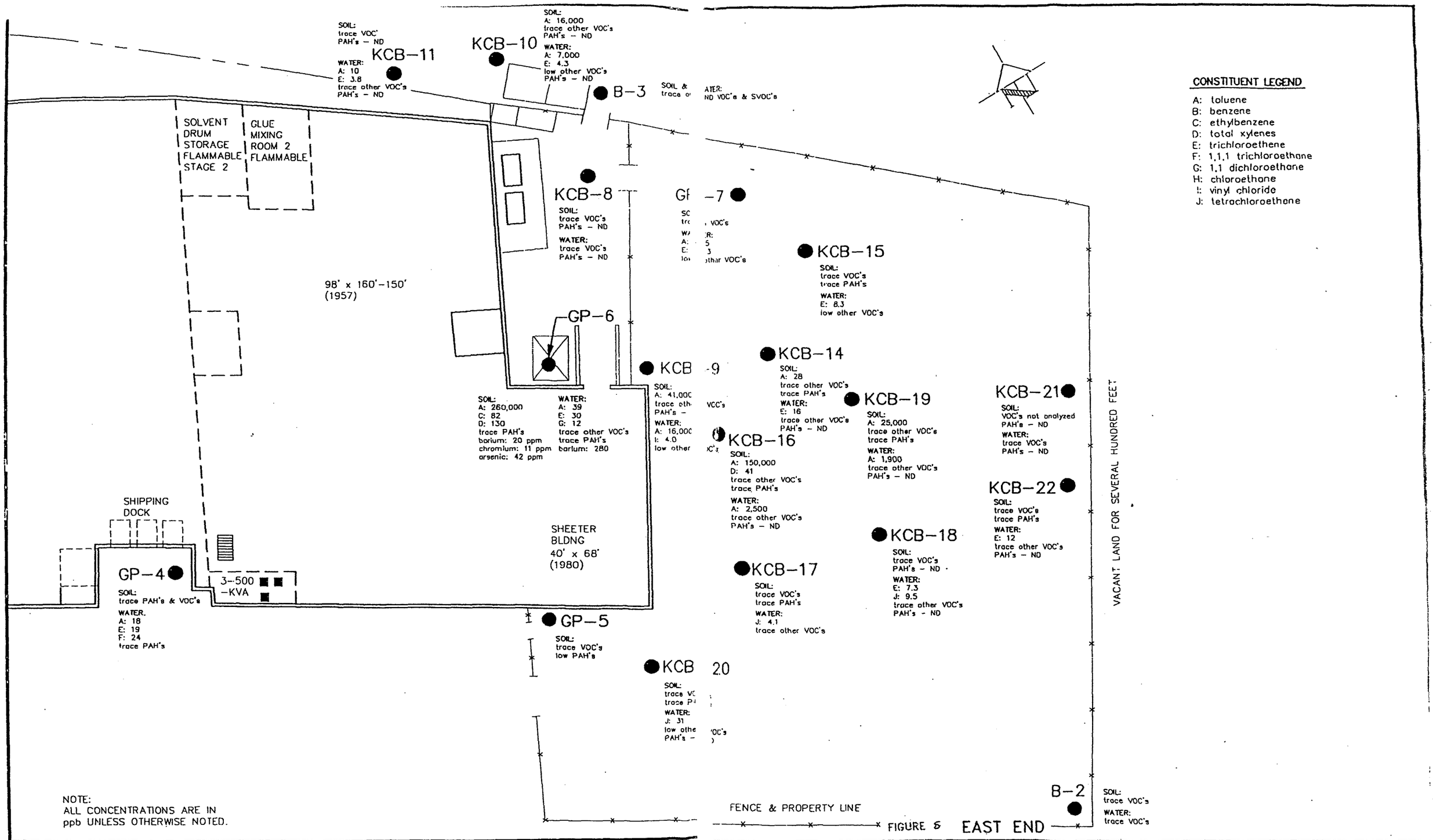
SITE INVESTIGATIONS AND REMEDIATION RECOMMENDATIONS

Brown-Bridge Facility

Troy, Ohio

Kimberly-Clark Corporation

November 1993



NOTE:
ALL CONCENTRATIONS ARE IN ppb UNLESS OTHERWISE NOTED.

FIGURE 5

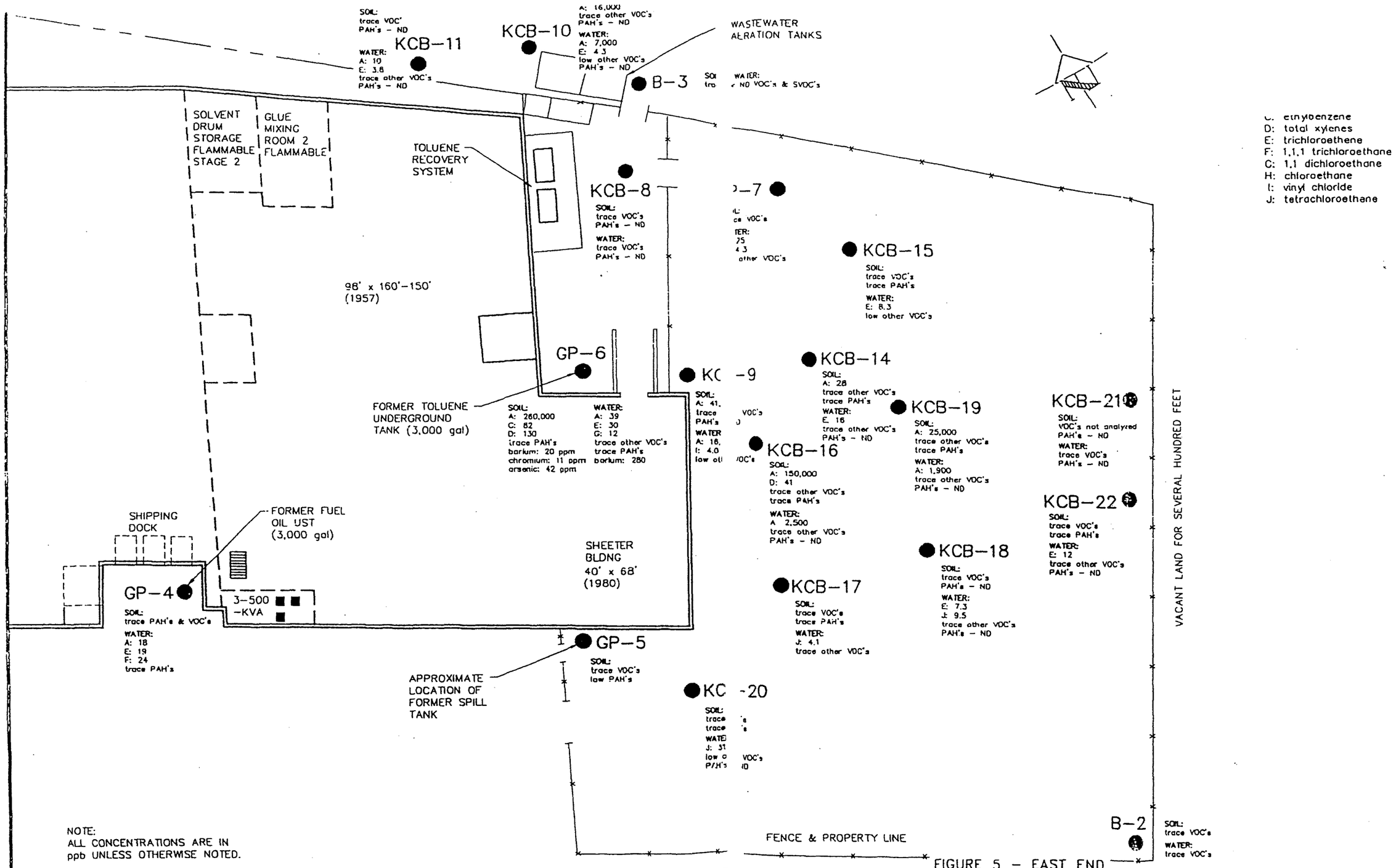
SCALE NOT TO SCALE	NO.	DATE	REVISION	DESCRIPTION
DWN. BY BAA				
CHK'D. BY KMK				
APPR. BY SM				

Applied Engineering & Science

Atlanta Georgia

TOLUENE RECOVERY SYSTEM
CONTAMINANT CONCENTRATIONS
KIMBERLY–CLARK CORPORATION
BROWN–BRIDGE PLANT 1, TROY, OHIO

DATE NOV. 19, 1993
DWG. NO. 3326A102
SHEET NO. 4



C: ethylbenzene
D: total xylenes
E: trichloroethene
F: 1,1,1 trichloroethane
G: 1,1 dichloroethane
H: chloroethane
I: vinyl chloride
J: tetrachloroethane

NOTE:
ALL CONCENTRATIONS ARE IN
ppb UNLESS OTHERWISE NOTED.

FIGURE 5 – EAST END

SCALE NOT TO SCALE	NO.	DATE	REVISION DESCRIPTION
DWN. BY BAA			
CHK'D. BY KMK			
APPR. BY SM			

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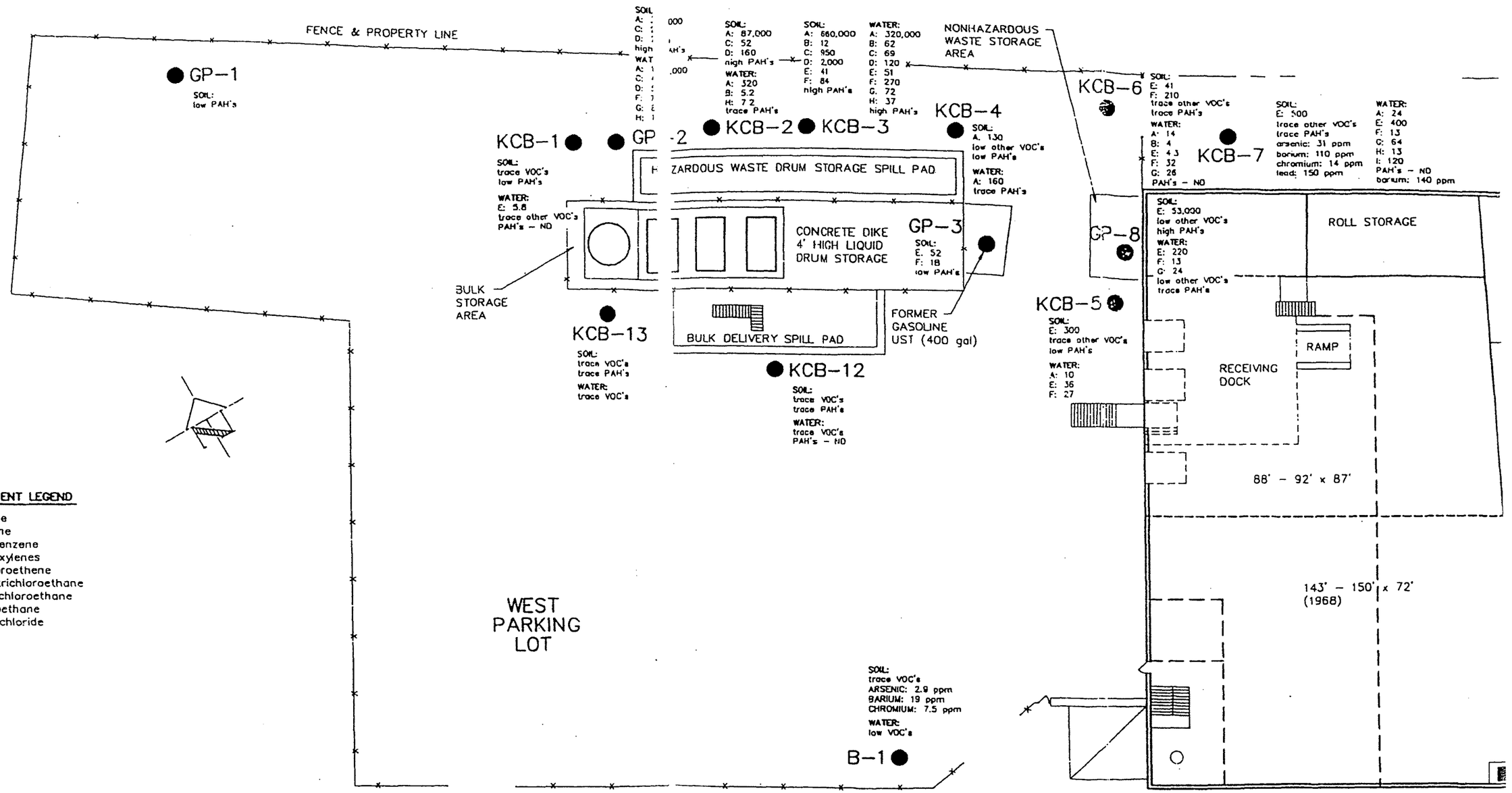
TOLUENE RECOVERY SYSTEM
CONTAMINANT CONCENTRATIONS
KIMBERLY–CLARK CORPORATION
BROWN–BRIDGE PLANT 1, TROY, OHIO

DATE NOV. 23, 199
DWG. NO. 3326A102
SHEET NO.



CONSTITUENT LEGEND

A: toluene
B: benzene
C: ethylbenzene
D: total xylenes
E: trichloroethene
F: 1,1,1 trichloroethane
G: 1,1 dichloroethane
H: chloroethane
I: vinyl chloride

NOTE:
ALL CONCENTRATIONS ARE IN PPB UNLESS OTHERWISE NOTED.

FIGURE 3 - WEST END

SCALE NOT TO SCALE	NO.	DATE	REVISION	DESCRIPTION
DWN. BY BAA				
CHK'D. BY KMK				
APPR. BY SM				

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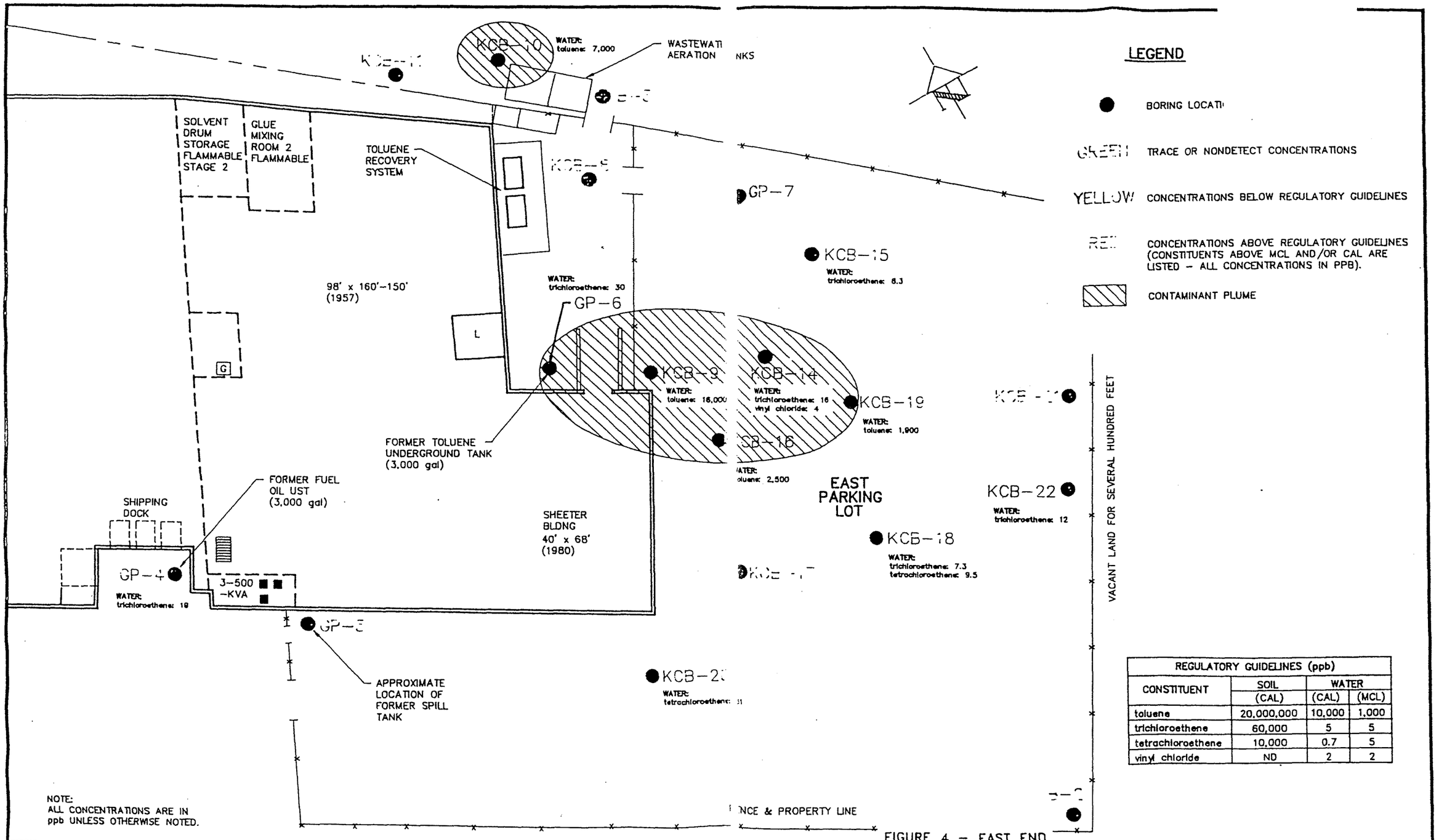
BULK AND HAZARDOUS WASTE STORAGE AREAS
CONTAMINANT CONCENTRATIONS
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE PLANT 1, TROY, OHIO

DATE NOV. 23, 199
DWG. NO. 3326A103
SHEET NO.



REGULATORY GUIDELINES (ppb)			
CONSTITUENT	SOIL	WATER	
	(CAL)	(CAL)	(MCL)
toluene	20,000,000	10,000	1,000
trichloroethene	60,000	5	5
tetrachloroethene	10,000	0.7	5
vinyl chloride	ND	2	2

NOTE:
ALL CONCENTRATIONS ARE IN ppb UNLESS OTHERWISE NOTED.

FIGURE 4 - EAST END

SCALE NOT TO SCALE	NO.	DATE	REVISION	DESCRIPTION
DWN. BY BAA				
CHK'D. BY KMK				
APPR. BY SM				

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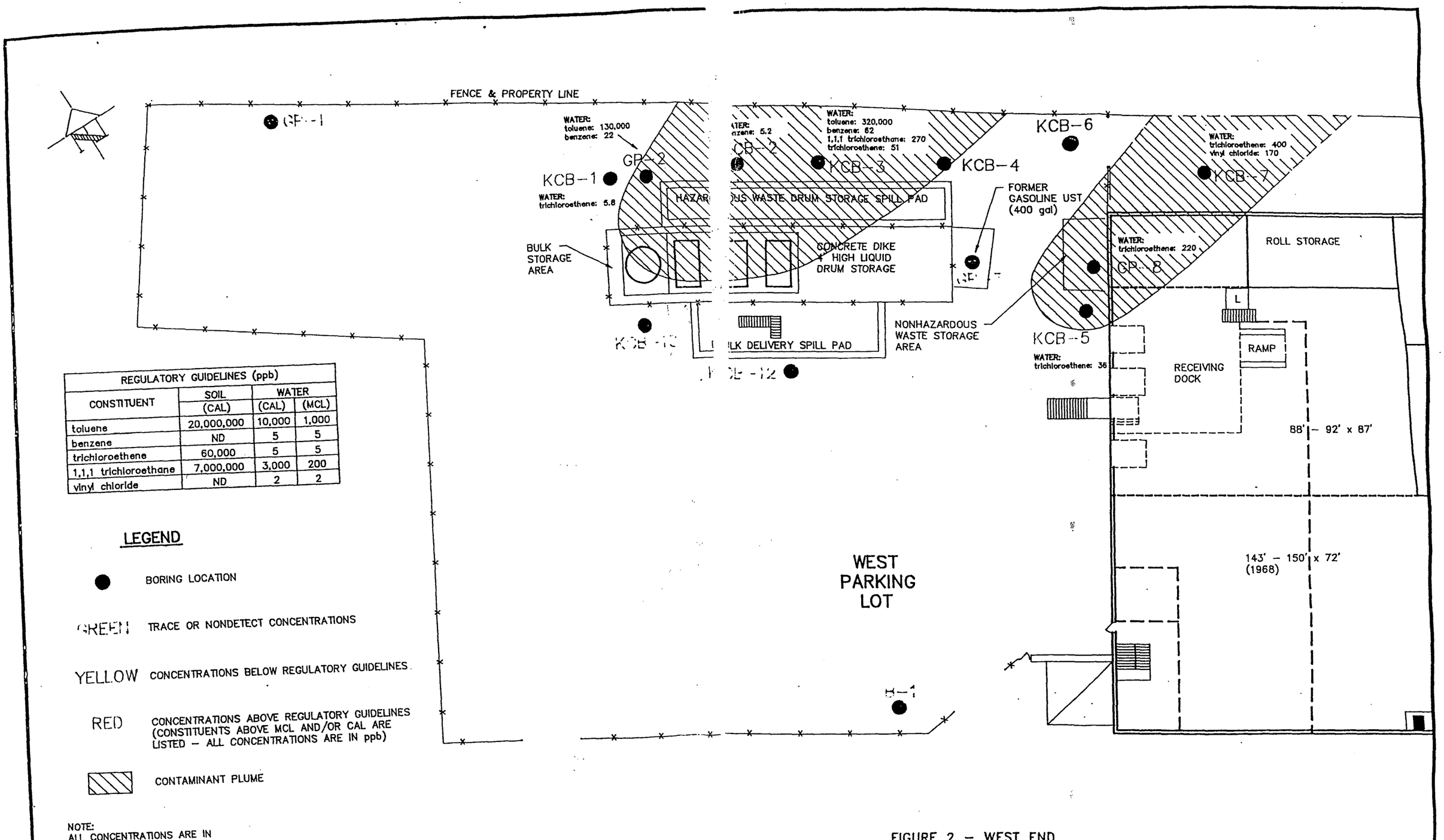
Atlanta Georgia

TOLUENE RECOVERY SYSTEM
CONTAMINANT PLUME
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE PLANT 1, TROY, OHIO

DATE NOV. 23, 1993
DWG. NO. 3326A104
SHEET NO.



REGULATORY GUIDELINES (ppb)			
CONSTITUENT	SOIL (CAL)	WATER (CAL)	WATER (MCL)
toluene	20,000,000	10,000	1,000
benzene	ND	5	5
trichloroethene	60,000	5	5
1,1,1 trichloroethane	7,000,000	3,000	200
vinyl chloride	ND	2	2

LEGEND

● BORING LOCATION

GREEN TRACE OR NONDETECT CONCENTRATIONS

YELLOW CONCENTRATIONS BELOW REGULATORY GUIDELINES

RED CONCENTRATIONS ABOVE REGULATORY GUIDELINES (CONSTITUENTS ABOVE MCL AND/OR CAL ARE LISTED – ALL CONCENTRATIONS ARE IN ppb)

CONTAMINANT PLUME

NOTE:
ALL CONCENTRATIONS ARE IN ppb UNLESS OTHERWISE NOTED.

FIGURE 2 – WEST END

SCALE NOT TO SCALE	NO.	DATE	REVISION	DESCRIPTION
DWN. BY BAA				

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Atlanta Georgia

BULK AND HAZARDOUS WASTE STORAGE AREAS
CONTAMINANT PLUME
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE PLANT 1, TROY, OHIO

DATE NOV. 23, 1993
DWG. NO. 3326A105
SHEET NO.

APPLIED
ENGINEERING
SCIENCE, INC.

SOIL SAMPLIN
RESULTS
HOBART UST
AND RAIL SPU
PROPERTY

Brown-Bridge
Facility

Troy, Ohio

Kimberly-Clark
Corporation

June 1994

SOIL SAMPLING RESULTS
HOBART UST AND RAIL SPUR PROPERTY

BROWN-BRIDGE FACILITY

TROY, OHIO

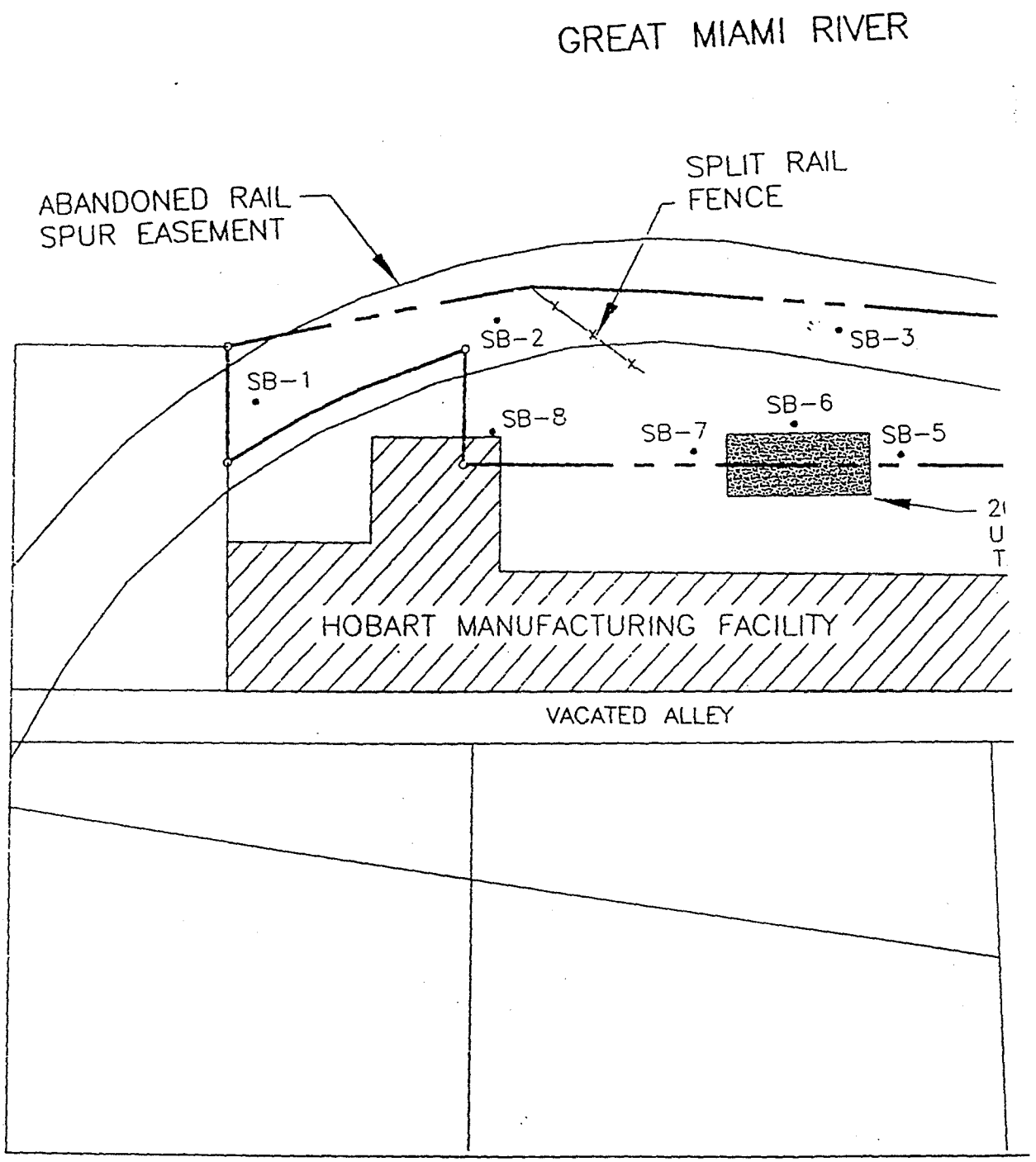
Prepared for:

KIMBERLY-CLARK CORPORATION

June, 1994

Prepared by:

Applied Engineering & Science, Inc.
Atlanta, Georgia



LEGEND

• SB-1 SOIL BORING LOCATION

SCALE		NO.	DATE	REVISION DESCRIPTION
APPROX. 1"=40'				
DWN. BY	KMK			
CHK'D. BY	GEW			

Applied Engineerin Science

3326A003.DWG

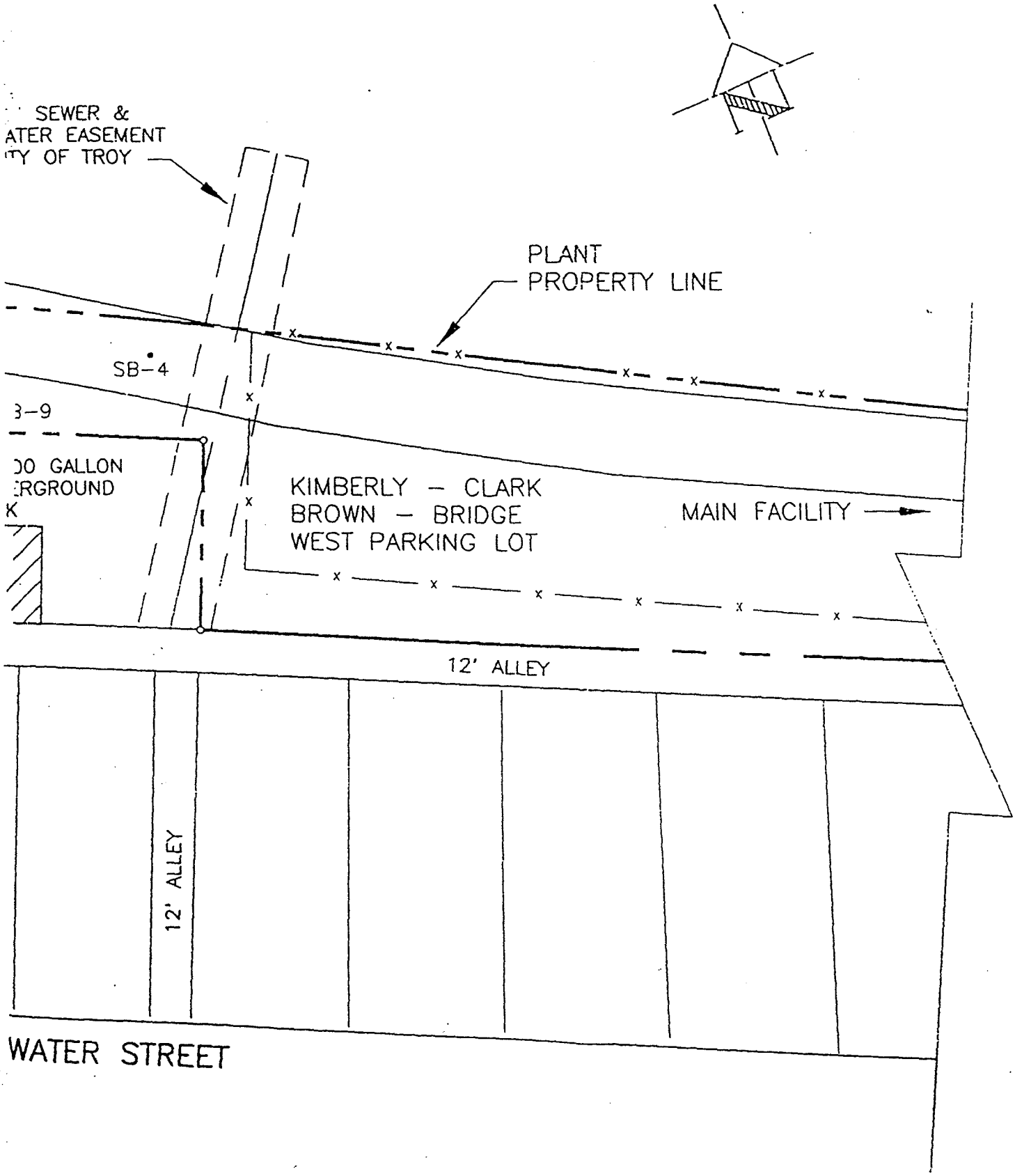


FIGURE 1

Atlanta & Georgia	SOIL BORING LOCATION MAP KIMBERLY-CLARK CORPORATION BROWN-BRIDGE PLANT 1, TROY OHIO	DATE JUNE, 1 DWG. N 3326A SHEET

TABLE 1 (CONTINUED)
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE MAIN PLANT
TROY, OHIO
AES/May 24-25, 1994

Soil Borings ID	SB1-3'	SB2-3'	SB3-2.3'	SB4-2.5'	SB5-10'	SB6-10'	SB7-10'	SB8-2'	SB9-3'	CAL
TPH (8015)										
Gasoline	ND	ND	ND	ND	ND	ND	ND	ND	ND	NRL
Kerosene	ND	ND	ND	ND	ND	ND	ND	ND	ND	NRL
Diesel	ND	ND	ND	ND	ND	ND	ND	ND	ND	NRL

All concentrations reported in µg/kg (ppb)
ND - Not detected
NRL - No regulatory level exists
[1] - Proposed July 27, 1990, Federal Corrective Action Level

TABLE 1
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE MAIN PLANT
TROY, OHIO
AES/May 24-25, 1994

Soil Borings ID	SB1-3'	SB2-3'	SB3-2.3'	SB4-2.5'	SB5-10'	SB6-10'	SB7-10'	SB8-2'	SB9-3'	CAL
VOC'S (EPA-8260)										
Benzene	ND	ND	ND	11	ND	ND	ND	ND	ND	NRL
CIS-1,2-Dichloroethene	ND	ND	ND	26	ND	ND	ND	ND	ND	NRL
Methylene Chloride	16	14	ND	15	ND	ND	ND	ND	ND	90,000[1]
Napthalene	ND	ND	ND	81	ND	ND	ND	ND	ND	NRL
Trichloroethene	ND	ND	640	12,000	ND	9.0	58	500	ND	60,000[1]
1,2,3 Trichlorobenzene	8	6.3	ND	7	ND	ND	ND	ND	ND	NRL
1,2,4, Trichlorobenzene	6	ND	ND	5	ND	ND	ND	ND	ND	2,000,000[1]
1,1,2, Trichloroethane	ND	ND	ND	160	ND	ND	ND	ND	ND	1,000,000[1]
Tetrachloroethene	ND	ND	200	240	ND	6.0	24	470	ND	10,000[1]
Toluene	8	ND	ND	20	ND	ND	ND	31	ND	20,000,000[1]
Xylene	ND	ND	ND	13	ND	ND	ND	ND	ND	200,000,000[1]

All concentrations reported in µg/kg (ppb)
ND - Not detected
NRL - No regulatory level exists
[1] - Proposed July 27, 1990, Federal Corrective Action Level

TABLE 1 (CONTINUED)
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE MAIN PLANT
TROY, OHIO
AES/May 24-25, 1994

Soil Borings ID	SB1-3'	SB2-3'	SB3-2.3'	SB4-2.5'	SB5-10'	SB6-10'	SB7-10'	SB8-2'	SB9-3'	CAL
SVOC's (EPA-8270)										
Anthracene	ND	ND	ND	2450	ND	ND	ND	ND	ND	NRL
Acenaphthylene	ND	ND	ND	1300	ND	ND	ND	ND	ND	NRL
Benzo (A) Anthracene	5300	ND	ND	16,100	ND	ND	ND	1200	ND	NRL
Benzo (G,H,I) Perylene	7000	ND	ND	8,500	ND	ND	ND	1370	ND	NRL
Benzo (A) Pyrene	6710	ND	ND	13,500	ND	ND	ND	1020	ND	NRL
Benzo (B) Fluoranthene	8030	ND	ND	16,500	ND	ND	ND	ND	ND	NRL
Benzo (K) Fluoranthene	4460	ND	ND	9,260	ND	ND	ND	1040	ND	NRL
Chrysene	6200	ND	ND	11,900	ND	ND	ND	1160	ND	NRL
Dibenzo (A,H) Anthlacene	2340	ND	ND	5,450	ND	ND	ND	1130	ND	NRL
Fluoranthene	5100	ND	ND	16,200	ND	ND	ND	1690	ND	NRL
Ideno (1,2,3-CD) Pyrene	6740	ND	ND	11,800	ND	ND	ND	ND	ND	NRL
Phenanthrene	1050	ND	ND	6,530	ND	ND	ND	1670	ND	NRL
Pyrene	6950	ND	ND	23,200	ND	ND	ND	1830	ND	NRL

All concentrations reported in µg/kg (ppb)
ND - Not detected
NRL - No regulatory level exists
[1] - Proposed July 27, 1990, Federal Corrective Action Level

Applied Engineering & Science, Inc.

Perimeter Crest Office Park
2261 Perimeter Park Drive
Atlanta, Georgia 30341

Telephone (770) 454-1810
FAX (770) 454-1816
Internet: appengsci@aol.com

Engineering &
Environmenta
Consultants

March 27, 1998

Mr. Grant W. Wilkinson, Esq.
Attorney-At-Law
5944 Wakefield Drive
Toledo, Ohio 43560

3326M

RE: Sample Results – Hobart UST
Troy, Ohio

Dear Mr. Wilkinson:

Enclosed is a copy of the report describing the soil sampling completed near the Hobart UST, formerly on Brown-Bridge property. The sampling was more extensive than I remembered and included samples collected near the tank and from the former rail spur that ran along the back of the Hobart property. Polynuclear aromatic hydrocarbons (PAHs), very common constituents along rail lines, were detected and some volatile organic compounds (VOCs), which supports our position that at least some of the VOCs present in groundwater beneath the Brown-Bridge property originate from off-site sources.

Please let me know if you need any additional information.

Sincerely,

Steve McFadden

Steve McFadden
Vice President
Environmental Services

cc. Cindy Jernigan

Enclosure

3326M\cor\wilken1

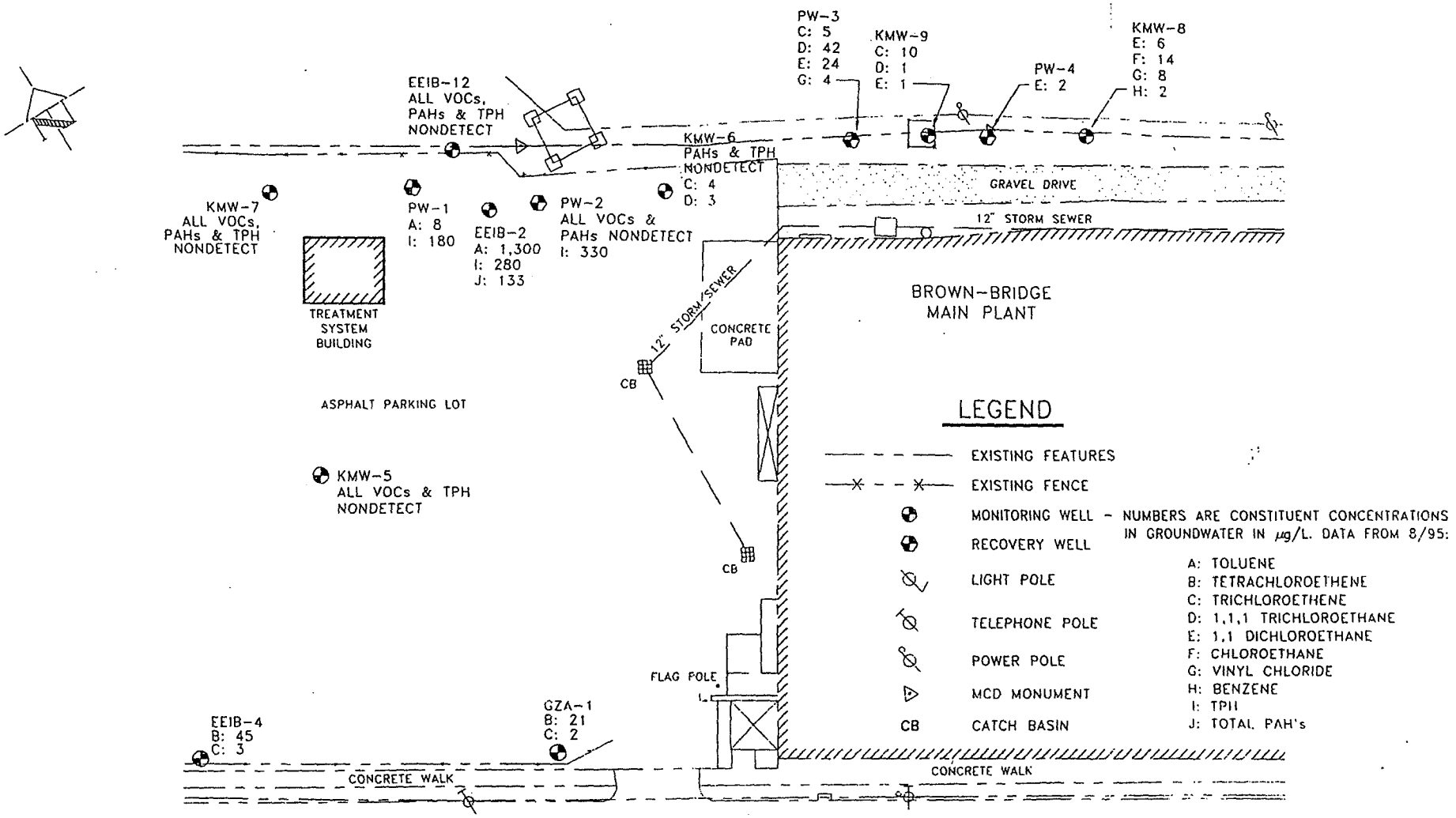


FIGURE 1

SCALE 1" = 30'	NO.	DATE	REVISION DESCRIPTION
DWN. BY SKN			
CHK'D. BY SSM			
APPR. BY SSM			

Applied Engineering & Science — Atlanta Georgia

GROUNDWATER CONTAMINANT CONCENTRATIONS
WEST END - AUGUST, 1995
KIMBERLY-CLARK CORPORATION
TROY, OHIO

DATE NOV., 1995
DWG. NO. 3326D-02
SHEET NO. 2 OF 4

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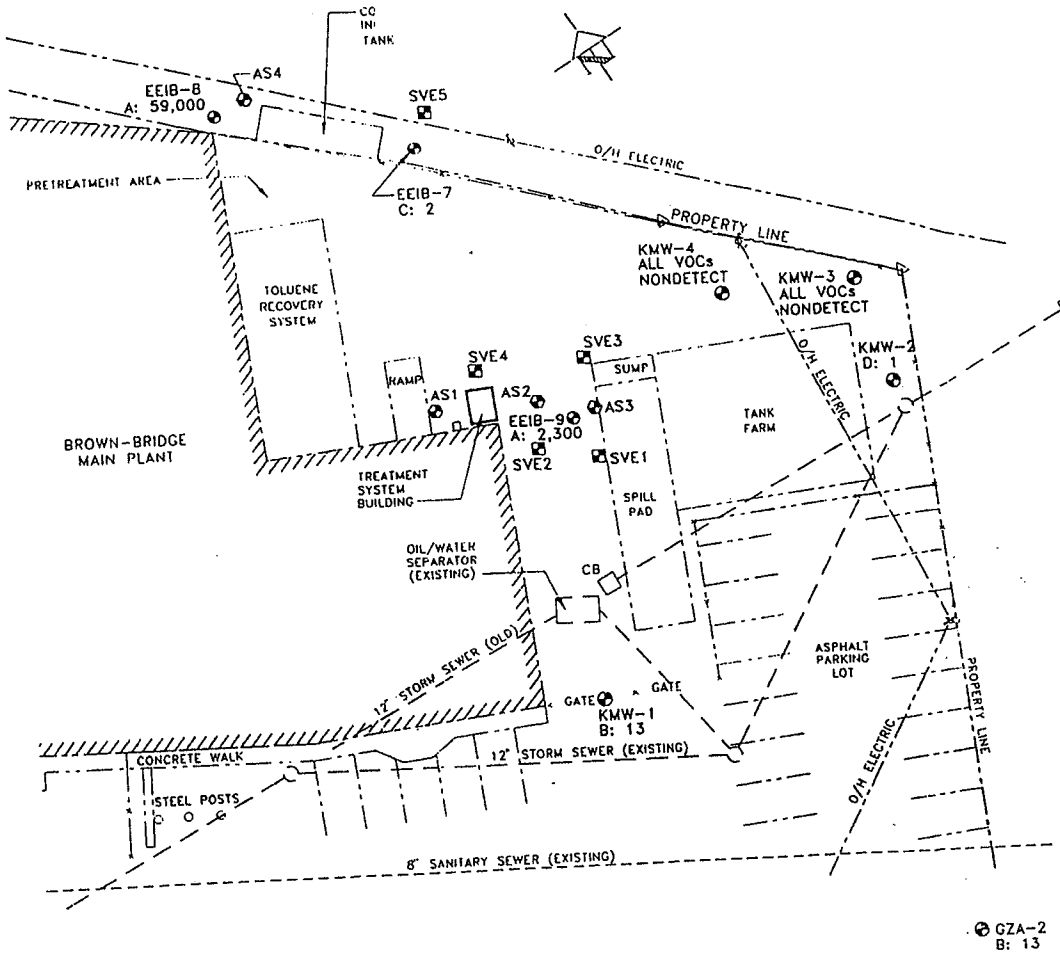


LEGEND

- EXISTING FEATURES
- EXISTING FENCE
- STORM SEWER
- SANITARY SEWER
- AIR INJECTION WELL
- VAPOR EXTRACTION WELL
- MONITORING WELL – NUMBERS ARE CONSTITUENT CONCENTRATIONS IN GROUNDWATER IN µg/L. DATA FROM 8/95:
  - A: TOLUENE
  - B: TETRACHLOROETHENE
  - C: TRICHLOROETHENE
  - D: 1,1 DICHLOROETHANE
- LIGHT POLE
- POWER POLE
- MCD MONUMENT

FIGURE 2

SCALE 1" = 30'	NO.	DATE	REVISION DESCRIPTION
DWN. BY GOE			
CHK'D. BY SSM			
APPR. BY SSM			

Applied Engineering & Science — Atlanta Georgia

GROUNDWATER CONTAMINANT CONCENTRATIONS
EAST END – AUGUST, 1995
KIMBERLY-CLARK CORPORATION
TROY, OHIO

DATE NOV., 1995
DWG. NO. 3326D-03
SHEET NO. 3 OF 4

I:\DWG\3326\EBASPOT.DWG

WELL FIELD MAP

TDH HAS ORIGINAL

OHIO E.P.A.
MAR 13 2001
ENTERED DIRECTOR'S JOURNAL

BEFORE THE

OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:	:	
	:	
Kimberly-Clark Corporation	:	**Director's Final**
1400 Holcomb Bridge Road	:	**Findings and Orders**
Roswell, Georgia 30076-2199	:	

I. JURISDICTION

1. These Director's Final Findings and Orders ("Orders") are issued pursuant to the authority vested in the Director of the Ohio EPA under Sections 3734.13, 3734.20, 6111.03, and 3745.01 of the Ohio Revised Code.

II. PARTIES BOUND

2. These Orders shall apply to and be binding upon Kimberly-Clark Corporation ("Kimberly-Clark"), its agents, successors, and assigns.

3. No change in ownership or corporate status of Kimberly-Clark including, but not limited to, any transfer of assets or real or personal property shall in any way alter Kimberly-Clark's obligations under these Orders.

4. Kimberly-Clark shall provide a copy of these Orders to all contractors, subcontractors, laboratories and consultants retained to perform any portion of the Work performed pursuant to these Orders. Kimberly-Clark shall ensure that all contractors, subcontractors, laboratories and consultants retained to perform Work pursuant to these Orders comply with the provisions of these Orders.

III. DEFINITIONS

5. Unless otherwise expressly provided herein, terms used in these Orders or in any appendices shall have the same meaning as used in Chapters 3734 and 6111 of the Ohio Revised Code. Whenever the terms listed below are used in these Orders or in any appendices, attached hereto and incorporated herein, the following definitions shall apply:

I certify this to be a true and correct copy of the official document filed in the records of the Ohio Environmental Protection Agency
By [illegible] Date 3/13/01

a. "Day" shall mean a calendar day unless expressly stated to be a business day. "Business day" shall mean a day other than a Saturday, Sunday, or State Holiday. In computing any period of time under these Orders, where the last day would fall on a Saturday, Sunday, or State Holiday, the period shall run until the close of the next business day.

b. "NCP" shall mean the National Oil and Hazardous Substances Pollution Contingency Plan, codified at 40 C.F.R. Part 300 (1990), as amended.

c. "Ohio EPA" shall mean the Ohio Environmental Protection Agency and its designated representatives.

d. "Paragraph" shall mean a portion of these Orders identified by an Arabic numeral or an upper or lower case letter.

e. "Parties" shall mean Kimberly-Clark and the Ohio EPA.

f. "Risk Assessment Guidance for Superfund" ("RAGS") shall mean RAGS: Volume 1 - Human Health Evaluation Manual, Part B, Development of Risk-based Preliminary Remediation Goals, OSWER Directive 9285.7-01B, December, 1991, Interim attached hereto and incorporated herein as Attachment B of these Orders.

g. "Section" shall mean a portion of these Orders identified by a roman numeral.

h. "Site" shall mean the property located at 518 East Water Street, Troy, Miami County, Ohio, commonly referred to as "Brown-Bridge Plant 1," where the treatment, storage, and/or disposal of hazardous waste, and/or the discharge into waters of the state of industrial waste or other waste has occurred, including any other area where such hazardous wastes, industrial wastes, and/or other wastes have migrated or threaten to migrate.

i. "Waste Material" shall mean (1) any "hazardous waste" under Section 3734.01(J) of the Ohio Revised Code; (2) any "solid waste" under Section 3734.01(E) of the Ohio Revised Code; (3) any "industrial waste" under Section 6111.01(C) of the Ohio Revised Code; and (4) any "other waste" under Section 6111.01(D) of the Ohio Revised Code.

j. "Work" shall mean all activities Kimberly-Clark is required to perform under these Orders.

IV. FINDINGS OF FACT, DETERMINATIONS, AND CONCLUSIONS OF LAW

6. All findings of fact, determinations, and conclusions of law necessary for the issuance of these Orders pursuant to Sections 3734.13, 3734.20, 3745.01 and 6111.03 of the Ohio Revised Code have been made and are outlined below. Ohio EPA has determined the following:

a. Kimberly-Clark acquired the property located at 518 East Water Street in Troy, Miami County, Ohio (the "Site") as a result of a merger with Brown-Bridge Mills, Inc. on December 31, 1977. The Site consists of approximately 5 acres of land adjacent to the flood plain of the Great Miami River. Prior to September, 1994, the Site was used for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.

b. Brown-Bridge Industries acquired the Site from Kimberly-Clark on September 16, 1994. In 1998, Brown-Bridge Industries changed its name to Spinnaker Coating, Inc. ("Spinnaker"). Spinnaker continues to utilize this facility for the manufacture of pressure, moisture, and heat sensitive stock for labels, stamps, and related items.

c. Toluene, as product, was stored in bulk tanks at the bulk storage area at the west end of the Site. The Site formerly contained a toluene recovery system at the west end which included a 3000 gallon flow through process tank. The flow through process tank was removed in 1988.

d. There are known to have been at least four instances of releases at the Site, including the following:

i. According to Kimberly-Clark, during due diligence interviews associated with the sale of the Site to Brown-Bridge, it was discovered that in 1986 or 1987, approximately 15 to 25 gallons of toluene overflowed from a virgin toluene tank at the bulk chemical storage tank location on the Site's west end.

ii. According to Kimberly-Clark, in July, 1988, above-ground piping to a toluene storage tank was found to be leaking during a regularly scheduled tank-tightness test. The quantity discharged during this release has not been determined.

iii. According to an initial pollution incident report prepared by Ohio EPA, an

estimated 4000 pounds of toluene leaked into the atmosphere over several days prior to its discovery on April 12, 1989. The leak apparently was due to a malfunctioning steam valve at the toluene recovery system.

iv. According to an initial pollution incident report prepared by Ohio EPA, an estimated 500 gallons of toluene leaked from the toluene recovery system to the ground underneath the system on January 25, 1994.

e. Analysis of ground-water samples from the Site conducted by Kimberly-Clark in October, 1993 and July, 1994 showed the presence of the following compounds at levels presented below:

Chemical	Concentration (μg/l)
Toluene	320,000
Benzene	62
1,1,1-Trichloroethane	270
Tetrachloroethene	28
Trichloroethene	400
Vinyl Chloride	170
Cis-1,2-dichloroethene	230

f. Contaminated ground water at the Site is located approximately 900 feet upgradient from a City of Troy production well. According to the City's well head protection program, the Site is located within the one-year capture zone of the City's well field.

g. Kimberly-Clark's consultant, Applied Engineering & Science, Inc. (AES), in a report dated August, 1994, determined that ground-water contamination is migrating downgradient in a northeasterly direction off the Site onto adjacent property.

h. Two areas of soil and ground water contamination, on the east and west portions of the property, were identified by AES.

i. In April 1995, approximately 1525 cubic yards of contaminated soils were excavated and removed from the bulk storage and nonhazardous waste storage areas of the Site. Soil samples collected from these areas contained trichloroethene at concentrations up to 29,000 μg/kg, 1,1,1-trichloroethane at concentrations up to 1400 μg/kg, and tetrachloroethene at concentrations up to 790 μg/kg.

j. The material excavated from the bulk storage area was placed in roll-off containers. One container was manifested as hazardous waste due to its trichloroethene content.

k. In the summer of 1995, a ground water treatment system was installed on the west end of the property and an air sparging/vapor extraction system was installed on the east end. Both systems began operation on September 6, 1995.

l. In February 1997, Kimberly-Clark and Brown-Bridge determined that, according to ground water monitoring, their cleanup goals had been reached for the east end. The air sparging stopped in March 1997, while vapor extraction continued until January 1998.

m. The West End pump-and-treat system consists of four pumping wells and an air stripper to treat the water. The treated water was discharged to the Great Miami River under a NPDES discharge permit.

n. Ohio EPA invited Kimberly-Clark to negotiate an administrative order for the performance of a Remedial Investigation and Feasibility Study ("RI/FS") in 1997. At that time, Kimberly-Clark declined to enter into the administrative order stating that "continuation of the voluntary cleanup appears to be the most cost effective way to insure completion of the Site cleanup." Ohio EPA decided to change the scope of work from an RI/FS to operation and maintenance of the West End pump and treat system, with a provision for periodic evaluation of the effectiveness of the system. Kimberly-Clark declined to enter into an order that included the evaluation of effectiveness provision.

o. In a letter dated February 14, 2001, Kimberly-Clark stated that it had "completed the soil and ground water remediation project at Spinnaker Coating Facility ..." and that it planned to shut down the system on March 1, 2001. In response to this letter, Ohio EPA sent correspondence to Kimberly-Clark on February 27, 2001 asking that the system not be shut down because of concerns that the City of Troy's public water supply wells could be jeopardized. Ohio EPA suggested that a meeting take place before any action was taken and asked for possible dates to meet. On March 1, 2001, Kimberly-Clark proceeded to shut down the pump and treat system without waiting to meet with Ohio EPA to hear Ohio EPA's concerns.

p. Kimberly-Clark collected ground-water samples on a quarterly basis from the pumping wells and monitoring wells at the Site. The analytical results for vinyl chloride from pumping wells 3 and 4 and vinyl chloride and trichloroethene from pumping well 3 and monitoring well KMW-9 for the years 1999 and 2000 follow. The results show that the concentrations of vinyl chloride and trichloroethene exceed Federal and state drinking water maximum contaminant levels (MCLs). Pumping wells 3 and 4 and monitoring well KMW-9 lie between the bulk storage area and Troy's east well field.

Vinyl Chloride

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	6	7	13	n	**2.0**	6.7	9.2	8.0
PW-4	n	3	1	1.1	n	n	n	3.7

Trichloroethene

Well	3/15/99	6/16/99	9/2/99	12/16/99	3/1/00	6/6/00	9/7/00	12/13/00
PW-3	3	9	3	1.1	2.1	3.4	12	9.5
KMW-9	1	12	n	7.8	2.6	n	16	7.4

Notes:
All values are in $\mu g/l$.
n - not detected
Boldface denotes values greater than federal and state drinking water MCLs.
The MCL for vinyl chloride is 2.0 $\mu g/l$.
The MCL for trichloroethene is 5.0$\mu g/l$.

q. On May 23, 24 and 25, 2000, Ohio EPA collected ground-water samples from borings RS02, RS03, RS04, and RS06 along the northeast side of the Spinnaker building between the facility and Troy's east well field. Trichloroethene was detected in boring RS02 at 72 $\mu g/l$, in boring RS03 at 70 $\mu g/l$, in boring RS04 at 5 $\mu g/l$, and in boring RS06 at 9.6 $\mu g/l$. Vinyl chloride was detected in boring RS04 at 3.5 $\mu g/l$ and in boring RS06 at 2.8 $\mu g/l$.

r. Trichloroethene and tetrachloroethene in soil and ground water will degrade to form cis-1,2-dichloroethene. Analysis performed during the excavation and removal of soils from the Site did not include cis-1,2-dichloroethene, which has been detected in Site wells. Generally, wells downgradient from the bulk storage and nonhazardous waste storage areas have shown higher concentrations of cis-1,2-dichloroethene than upgradient

wells.

s. The City of Troy analyzes its well water for volatile organic compounds periodically (generally, once per quarter). Cis-1,2-dichloroethene has been detected in Troy's east well field since 1988. Trichloroethene was detected in the east well field in 1990.

t. Ohio EPA conducted a pump test of the aquifer beneath the Site in November, 2000. The pump test demonstrated that shallow ground water beneath the Site is hydraulically connected to Troy's east well field, that contaminants in ground water at the Site will migrate to the east well field, and that the Great Miami River does not form a hydraulic barrier preventing the migration of contaminants from the site to the east well field.

u. Without the operation of the ground-water pump and treat system, increased concentrations of trichloroethene, cis-1,2-dichloroethene, and vinyl chloride will migrate to Troy's east well field.

v. Kimberly-Clark is a "person" as defined under Section 3734.01(G) of the Ohio Revised Code.

w. Because of their quantity, concentration, or physical or chemical characteristics, the Director has determined that toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene and other contaminants found at the Site are "hazardous wastes" as defined under Section 3734.01(J) of the Ohio Revised Code.

x. The Site is a hazardous waste facility, solid waste facility, or other location where hazardous waste was treated, stored, or disposed.

y. Conditions at the Site constitute a substantial threat to public health or safety or are causing or contributing or threatening to cause or contribute to air or water pollution or soil contamination.

z. Kimberly-Clark is a "person" as defined under Section 6111.01(I) of the Ohio Revised Code.

aa. The toluene, benzene, 1,1,1-trichloroethane, tetrachloroethene, trichloroethene, vinyl chloride, cis-1,2-dichloroethene, and other contaminants found at the Site are "industrial wastes" or "other wastes" as defined under Section 6111.01 of the Ohio

Revised Code.

bb. The ground water and surface water at the Site are "waters of the state" as defined under Section 6111.01(H) of the Ohio Revised Code.

cc. The Work required by these Orders will contribute to the prohibition or abatement of the discharge of industrial wastes or other wastes into the waters of the state.

dd. In issuing these Orders, the Director has given consideration to, and based his determination on, evidence relating to the technical feasibility and economic reasonableness of complying with these Orders and to evidence relating to conditions calculated to result from compliance with these Orders, and their relation to benefits to the people of the state to be derived from such compliance.

ee. Based upon information available to the Director as set forth in these Findings of Fact, the Director has determined that the work required by these Orders, set forth below, is in the nature of interim measures only, designed to contain, abate, mitigate and control contamination. The Director has given consideration to the evidence related to documented activities which have occurred and/or will occur at the Site. Based upon the facts presented, the Director believes that issuance of these Orders is furthering the intent of the General Assembly, that Ohio EPA will prevent, control or abate pollution of the environment for the protection and preservation of the health, safety, welfare and property of the people of the State.

V. GENERAL PROVISIONS

7. Objectives of the Orders

The objective of the Ohio EPA in issuing these Orders is to contribute to the protection of public health, safety, and welfare and the environment from the disposal, discharge, or release of Waste Material at the Site through the continued implementation and monitoring of the West End ground water pump and treatment system by Kimberly-Clark. Kimberly-Clark shall perform the Work in accordance with these Orders, including but not limited to, relevant guidance documents, and all standards, specifications, and schedules set forth in or developed pursuant to these Orders.

8. Compliance With Law

a. All activities undertaken by Kimberly-Clark pursuant to these Orders shall be performed in accordance with the requirements of all applicable federal and state laws

and regulations.

b. Kimberly-Clark shall perform the activities required pursuant to these Orders in a manner which is not inconsistent with the NCP.

c. Where any portion of the Work requires a permit or approval, Kimberly-Clark shall timely submit applications and take all other actions necessary to obtain such permits or approval. These Orders are not, and shall not be construed to be, a permit issued pursuant to any statute or regulation.

VI. PERFORMANCE OF THE WORK

9. Within five (5) days of the issuance of these Orders, Kimberly-Clark shall resume operation of the existing West End ground-water pump and treatment system described in the Site Remediation Report, found in Attachment A, until such time as the interim action ground-water compliance (IAGWC) standards described in Section VI., Paragraph 16 (a-d) of these Orders, are met and confirmed by the Ohio EPA. Kimberly-Clark shall maintain the West End ground water pump and treat system during its operation.

10. Kimberly-Clark shall evaluate the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site in accordance with the following provisions:

a. Within 45 days of the issuance of these Orders, Kimberly-Clark shall submit a work plan for evaluating the effectiveness of the West End ground-water pump and treatment system in preventing further migration of contamination from sources at the Site. The evaluation shall include the measurement of aquifer properties at the Site including vertical and horizontal hydraulic conductivity, specific yield, and gradient. The evaluation shall estimate the capture zone of the pumping wells using both empirical data collected from the Site and mathematical modeling. All models used to estimate the capture zones of the pumping wells shall be calibrated and verified. Scale drawings showing the estimated vertical and horizontal extent of the capture zones for the pumping wells shall be prepared. The work plan shall include a fixed-date schedule for conducting the evaluation and submitting a final report on the evaluation to Ohio EPA.

b. The work plan and final report shall be subject to the review, approval, or disapproval of Ohio EPA, in accordance with the provisions set

forth in Section XI of these Orders.

c. Upon Ohio EPA's approval of the work plan, Kimberly-Clark shall implement the Work detailed therein in accordance with the schedule contained in the approved work plan.

11. Kimberly-Clark shall collect and analyze ground-water samples from all operating pumping wells on a quarterly basis.

12. Kimberly-Clark shall collect and analyze ground-water samples from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-12, GZA-1, RS04, and RS06.

13. Kimberly-Clark shall continue to collect water level measurements from the following Site wells on a quarterly basis: PW-1, PW-2, PW-3, PW-4, KMW-1, KMW-2, KMW-3, KMW-4, KMW-5, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-4, EEIB-7, EEIB-8, EEIB-9, EEIB-11, EEIB-12, GZA-1, GZA-2, RS04, and RS06.

14. Ground water samples shall be analyzed by EPA Method SW846-8260, with low detection limits (25 ml purge).

15. Ohio EPA may modify any portion of the ground-water monitoring program. Ohio EPA shall notify Kimberly-Clark in writing if any such modifications are determined to be warranted.

16. **IAGWC** standards shall be determined according to the following procedure:

a. The Site contaminants of concern (**"COC"**) are trichloroethene and vinyl chloride.

b. For each COC, identify the corresponding maximum contaminant level (**"MCL"**) and calculate the residential water carcinogenic effects remediation goal (10^{-5}) and the residential water non-carcinogenic effects remediation goal (HI=1) using equations 1' and 2' on pages 21 and 22 of the Risk Assessment Guidance for Superfund, Part B, found in Attachment B of these Orders. When using equation 1', substitute a target excess individual lifetime cancer risk value of 10^{-5} into the equation.

c. For each COC, select the lowest concentration from among the MCL,

the carcinogenic risk-based remediation goal, and the non-carcinogenic risk-based remediation goal.

d. The value obtained in item "c" above becomes the IAGWC standard unless the value is less than 1.0 part per billion in which case 1.0 part per billion becomes the IAGWC standard.

17. Kimberly-Clark may petition the Ohio EPA to cease operation of the West End ground-water pump and treatment system should ground-water sampling and analysis indicate that the concentrations of each COC are less than the IAGWC standards for four consecutive quarters in the following wells: PW-1, PW-2, PW-3, PW-4, KMW-6, KMW-7, KMW-8, KMW-9, EEIB-2, EEIB-12, RS04, and RS06. Kimberly-Clark shall resample the ground-water approximately one week following receipt of the fourth consecutive quarter's sampling results to confirm whether the concentrations of each COC are less than the IAGWC standards. Following receipt of written concurrence from the Ohio EPA that the concentrations of each COC are less than the IAGWC standards, Kimberly-Clark may cease operation of the West End ground-water pump and treatment system.

18. Following the Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue to maintain the treatment system in such a manner as to allow for the resumed operation of the treatment system, if resumed operation of the system is required by Ohio EPA due to any exceedance of the IAGWC standards.

19. Following Ohio EPA-approved cessation of operation of the West End ground-water pump and treatment system, Kimberly-Clark shall continue ground-water analytical sampling on a quarterly basis for Site wells listed in Section VI., Paragraphs 12 and 13 of these Orders. If Kimberly-Clark's sampling results indicate that IAGWC standards have been exceeded during any sampling event, Kimberly-Clark shall resample the ground water approximately one week following receipt of the initial sampling results to confirm whether IAGWC standards have been exceeded. If the resampling results confirm that the IAGWC standards have been exceeded, Kimberly-Clark shall resume operation of the West End ground-water pump and treatment system, including the resumption of quarterly water level measurements, and continue quarterly ground-water analytical sampling. Kimberly-Clark shall notify Ohio EPA within twenty-four (24) hours of the resumption of operation of the treatment system if the sampling and resampling, as described above, show that the IAGWC standards have been exceeded.

20. These Orders shall not be eligible for termination pursuant to Section XVI, Termination, until eight (8) consecutive quarters of ground-water sampling and analysis

have demonstrated continued compliance with the IAGWC standards.

VII. SAMPLING AND DATA AVAILABILITY

21. Kimberly-Clark shall notify Ohio EPA not less than fifteen (15) days in advance of all sample collection activity. Kimberly-Clark shall allow split and/or duplicate samples to be taken by Ohio EPA. Ohio EPA shall also have the right to take any additional samples it deems necessary.

22. Within seven (7) days of a request by Ohio EPA, Kimberly-Clark shall submit to Ohio EPA copies of the results of all sampling and/or tests or other data, including raw data and original laboratory reports, generated by or on behalf of Kimberly-Clark with respect to the Site and/or the implementation of these Orders. Kimberly-Clark may submit to Ohio EPA any interpretive reports and written explanations concerning the raw data and original laboratory reports. Such interpretive reports and written explanations shall not be submitted in lieu of original laboratory reports and raw data. Should Kimberly-Clark subsequently discover an error in any report or raw data, Kimberly-Clark shall promptly notify Ohio EPA of such discovery and provide the correct information within seven (7) days.

VIII. ACCESS

23. Ohio EPA shall have access at all times to the Site and any other property to which access is required for the implementation of these Orders, to the extent access to the property is controlled by Kimberly-Clark. Access under these Orders shall be for the purposes of conducting any activity related to these Orders including, but not limited to the following:

a. monitoring the Work;

b. conducting sampling;

c. inspecting and copying records, operating logs, contracts, and/or other documents related to the implementation of these Orders;

d. conducting investigations and tests related to the implementation of these Orders; and

e. verifying any data and/or other information submitted to Ohio EPA.

24. To the extent that the Site or any other property to which access is required for the implementation of these Orders is owned or controlled by persons other than Kimberly-Clark, Kimberly-Clark shall use its best efforts to secure from such persons access for Kimberly-Clark and Ohio EPA as necessary to effectuate these Orders. Copies of all access agreements obtained by Kimberly-Clark shall be provided promptly to Ohio EPA. If any access required to effectuate these Orders is not obtained within thirty (30) days of the effective date of these Orders, or within thirty (30) days of the date Ohio EPA notifies Kimberly-Clark in writing that additional access beyond that previously secured is necessary, Kimberly-Clark shall promptly notify the Ohio EPA in writing of the steps Kimberly-Clark has taken to attempt to obtain access.

25. Notwithstanding any provision of these Orders, the State of Ohio retains all of its access rights and authorities, including enforcement authorities related thereto, under any applicable statute or regulations.

IX. DESIGNATED SITE COORDINATORS

26. Within five (5) days of the effective date of these Orders, Kimberly-Clark shall notify Ohio EPA, in writing, of the name, address and telephone number of its designated Site Coordinator and Alternate Site Coordinator. If a designated Site Coordinator or Alternate Site Coordinator is changed, the identity of the successor shall be given to the other Party at least five (5) days before the changes occur, unless impracticable; but in no event later than the actual day the change is made.

27. To the maximum extent practicable, except as specifically provided in these Orders, communications between Kimberly-Clark and Ohio EPA concerning the implementation of these Orders shall be made between the Site Coordinators. Kimberly-Clark's Site Coordinator shall be available for communication with Ohio EPA regarding the implementation of these Orders for the duration of these Orders. Each Site Coordinator shall be responsible for assuring that all communications from the other Party are appropriately disseminated and processed. Kimberly-Clark's Site Coordinator or alternate shall be present on the Site or on call during all hours of Work at the Site.

28. Without limitation of any authority conferred on Ohio EPA by statute or regulation, Ohio EPA Site Coordinator's authority includes, but is not limited to the following:

a. taking samples and directing the type, quantity and location of samples to be taken by Kimberly-Clark pursuant to an approved work plan;

b. observing, taking photographs, or otherwise recording information related to the implementation of these Orders, including the use of any mechanical or photographic device;

c. directing that the Work stop whenever the Site Coordinator for Ohio EPA determines that the activities at the Site may create or exacerbate a threat to public health or safety, or threaten to cause or contribute to air or water pollution or soil contamination;

d. conducting investigations and tests related to the implementation of these Orders;

e. inspecting and copying records, operating logs, contracts and/or other documents related to the implementation of these Orders; and

f. assessing Kimberly-Clark's compliance with these Orders.

X. PROGRESS REPORTS AND NOTICE

29. Unless otherwise directed by Ohio EPA, Kimberly-Clark shall provide quarterly progress reports to the Ohio EPA concerning the work carried out by Kimberly-Clark during the previous quarter. The quarters shall be divided into the following reporting periods: the First Quarter shall be months January through March; the Second Quarter shall be months April through June; the Third Quarter shall be months July through September; and the Fourth Quarter shall be months October through December. The quarterly progress reports shall be submitted by the tenth (10) day of the first month following the reporting period. The quarterly progress reports shall include, at a minimum, the following information:

a. a description of the status of the Work and progress to date;

b. summaries of all changes made in the interim measures during the reporting period;

c. summaries of all contacts with representatives of the City of Troy, local community, public interest groups, county and state agencies, and government during the reporting period concerning the Work being done as a result of these Orders;

d. summaries of all relevant findings including, but not limited to, water level measurements, flow maps, etc., from Site wells listed in Section VI., Paragraph 13 of these

Orders;

e. summaries of all relevant findings including, but not limited to, analytical sampling results, etc., from Site wells listed in Section VI., Paragraphs 11 and 12 of these Orders;

f. an accounting of how much contaminated ground water was pumped during the reporting period;

g. a description of the difficulties encountered during the reporting period;

h. a description of the actions taken to rectify any difficulties encountered;

i. a description of activities planned for the next quarter; and

j. an identification of changes in key project personnel.

30. Progress reports and all other documents required to be submitted pursuant to these Orders shall be sent by certified mail return receipt requested, or equivalent, to the following address, or to such other address as directed by Ohio EPA:

Ohio Environmental Protection Agency
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049
ATTN: DERR Records Room

Ohio EPA
Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402
ATTN: Brown Bridge Site Coordinator, DERR

XI. REVIEW OF SUBMITTALS

31. Ohio EPA will review any work plan, report, or other item required to be submitted pursuant to these Orders. Upon review, Ohio EPA may in its sole discretion: (a) approve the submission in whole or in part; (b) approve the submission upon specified conditions; (c) modify the submission; (d) disapprove the submission in whole or in part, notifying Kimberly-Clark of deficiencies; or (e) any combination of the above.

32. In the event of Ohio EPA's approval, approval upon condition, or modification of any submission, Kimberly-Clark shall proceed to take any action required by the submission as approved, conditionally approved, or modified by Ohio EPA.

33. In the event that Ohio EPA initially disapproves a submission, in whole or in part, and notifies Kimberly-Clark of the deficiencies, Kimberly-Clark shall, within fourteen (14) days, or such longer period of time as specified by Ohio EPA in writing, correct the deficiencies and resubmit to Ohio EPA for approval a revised submission. The revised submission shall incorporate all of the changes, additions, and/or deletions specified by Ohio EPA in its notice of deficiency. Notwithstanding the notice of deficiency, Kimberly-Clark shall proceed to take any action required by a non-deficient portion of the submission.

34. In the event that Ohio EPA disapproves a revised submission, in whole or in part, Ohio EPA may require Kimberly-Clark to correct the deficiencies and incorporate all changes, additions, and/or deletions within fourteen (14) days, or such period of time as specified by Ohio EPA in writing. Or, in the alternative, Ohio EPA retains the right to terminate these Orders, perform any additional remediation, conduct further investigation, and/or enforce the terms of these Orders.

35. All work plans, reports, or other items required to be submitted to Ohio EPA under these Orders shall, upon approval by Ohio EPA, be deemed to be incorporated in and made an enforceable part of these Orders. In the event that Ohio EPA approves a portion of a work plan, report, or other item, the approved portion shall be deemed to be incorporated in and made an enforceable part of these Orders.

XII. RESERVATION OF RIGHTS

36. Ohio EPA reserves the right to seek legal and/or equitable relief to enforce the terms and conditions of these Orders, including penalties against Kimberly-Clark for noncompliance with these Orders.

37. Ohio EPA reserves the right to terminate these Orders and/or perform all or any portion of the Work or any other measures, including but not limited to conducting further investigation and/or remediation, in the event that the requirements of these Orders are not wholly complied with within the time frames required by these Orders.

38. Ohio EPA reserves the right to take any action, including but not limited to any enforcement action, action to recover costs, or action to recover damages to natural

resources, pursuant to any available legal authority as a result of past, present, or future violations of state or federal laws or regulations or the common law, and/or as a result of events or conditions arising from, or related to, the Site. Upon termination of these Orders pursuant to Section XVI, Termination, Kimberly-Clark shall have resolved its liability to Ohio EPA only for the Work performed pursuant to these Orders.

XIII. ACCESS TO INFORMATION

39. Kimberly-Clark shall provide to Ohio EPA, upon request, copies of all documents and information within its possession or control or that of its contractors or agents relating to events or conditions at the Site including, but not limited to manifests, reports, correspondence, or other documents or information related to the Work.

40. Kimberly-Clark may assert a claim that documents or other information submitted to the Ohio EPA pursuant to these Orders is confidential under the provisions of Rule 3745-50-30(A) of the Ohio Administrative code or Section 6111.05(A) of the Ohio Revised Code. If no such claim of confidentiality accompanies the documents or other information when it is submitted to Ohio EPA, it may be made available to the public without notice to Kimberly-Clark.

41. Kimberly-Clark may assert that certain documents or other information are privileged under the attorney-client or any other privilege recognized by state law. If Kimberly-Clark makes such an assertion, it shall provide Ohio EPA with the following: (1) the title of the document or information; (2) the date of the document or information; (3) the name and title of the author of the document or information; (4) the name and title of each addressee and recipient; (5) a general description of the contents of the document or information; and (6) the privilege being asserted by Kimberly-Clark.

42. No claim of confidentiality shall be made with respect to any data, including but not limited to, all sampling, analytical monitoring, or laboratory or interpretive reports.

43. Kimberly-Clark shall preserve for the duration of these Orders and for a minimum of ten (10) years after its termination, all documents and other information within its possession or control, or within the possession or control of its contractors or agents, which in any way relate to the Work, notwithstanding any document retention policy to the contrary. Kimberly-Clark may preserve such documents by microfiche, or other electronic or photographic device. At the conclusion of this document retention period, Kimberly-Clark shall notify Ohio EPA at least sixty (60) days prior to the destruction of these documents or other information; and upon request, shall deliver such documents and other

Information to Ohio EPA.

XIV. OTHER CLAIMS

44. Nothing in these Orders shall constitute or be construed as a release from any claim, cause of action, or demand in law or equity against any person, firm, partnership, or corporation, not subject to these Orders for any liability arising from, or related to, events or conditions at the Site.

XV. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

45. The effective date of these Orders shall be the date on which these Orders are entered in the Journal of the Director of Ohio EPA.

46. These Orders may be modified by Ohio EPA. Modifications shall be in writing and shall be effective on the date entered in the Journal of the Director of Ohio EPA.

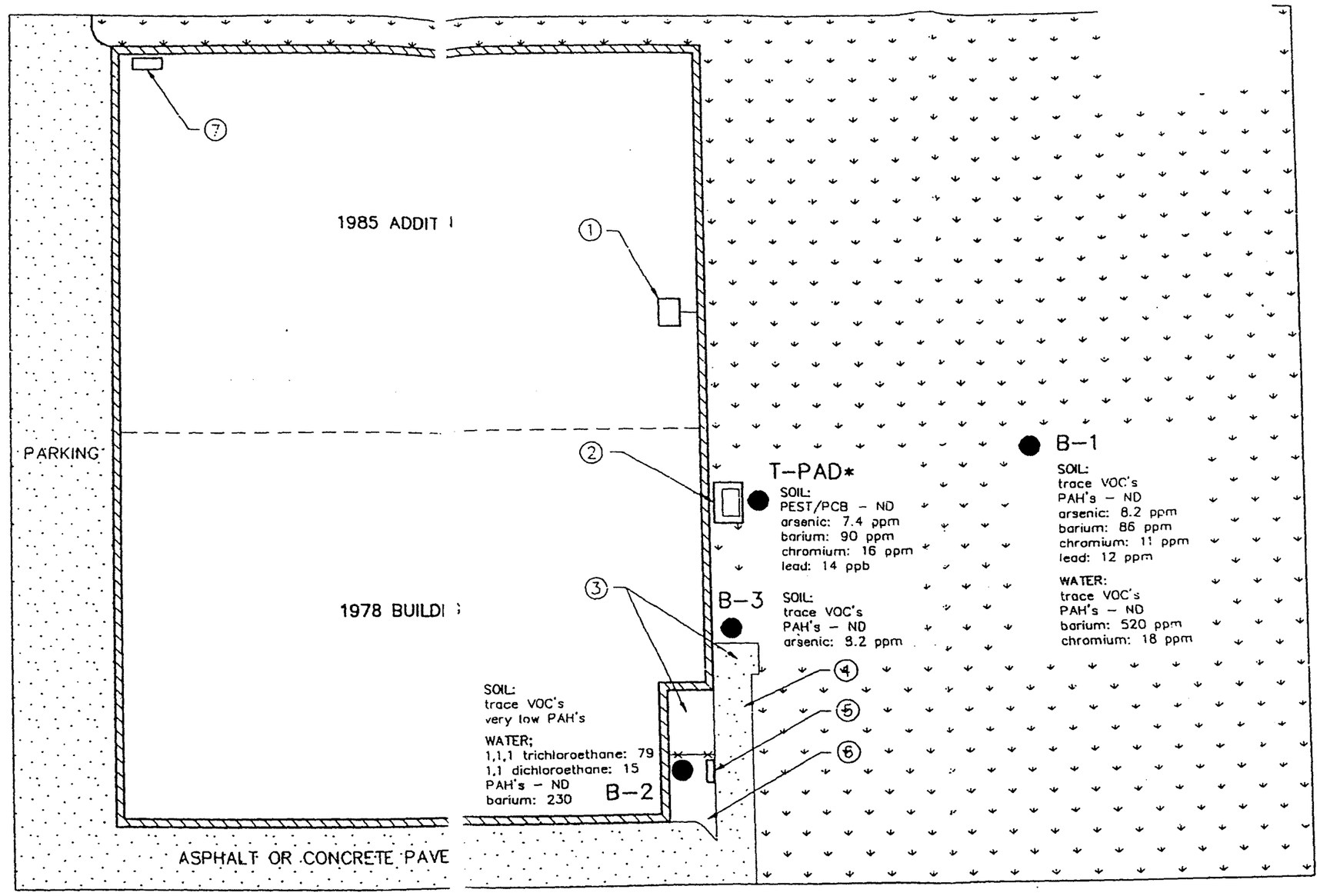
XVI. TERMINATION

47. These Orders shall terminate upon Ohio EPA's approval in writing of Kimberly-Clark's written certification to Ohio EPA that all Work required to be performed under these Orders has been completed. The termination of these Orders shall not affect the terms and conditions of Section XII, Reservation of Rights, Section XIII, Access to Information, and Section XIV, Other Claims.

IT IS SO ORDERED:

Christopher Jones, Director
Ohio Environmental Protection Agency

3-12-01
Date



1. AIR COMPRESSOR DISCHARGE
2. TRANSFORMER PAD
3. DRUM STORAGE AREAS
4. SPILL COLLECTION TANK (8,000 gal)
5. BULK UNLOADING STATION
6. FORMER FUEL OIL USTs (2)
7. OIL/WATER SEPARATOR FOR FORKLIFT WASHING

DISCLAIMER:
THIS DRAWING WAS REPRODUCED FROM INFORMATION OBTAINED FROM A GZA GEOENVIRONMENTAL DRAWING.

• - REPRESENTS SURFACE GRAB SAMPLE

NOTE:
ALL CONCENTRATIONS ARE IN ppb UNLESS OTHERWISE NOTED.

FIGURE 7

SCALE NOT TO SCALE	NO.	DATE	REVISION	DESCRIPTION
DWN. BY BAA				
CHK'D. BY KMK				
APPR. BY SM				

Applied Engineering & Science

Atlanta Georgia

CONTAMINANT CONCENTRATIONS
KIMBERLY-CLARK CORPORATION
BROWN-BRIDGE PLANT 2, TROY, OHIO

DATE NOV. 19, 199.
DWG. NO. 3326A106
SHEET NO. 7

Appendix E
Sanborn Maps, Historical Topographic Maps and City Directories for Plant No. 1

Environmental Data Resources, Inc.

"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Leigh Anne Sievert
ERM, Inc.
355 East Campus View
Columbus, OH 43235

1181019SXM 614-433-7900

Order Date: 1/30/2002 **Completion Date:** 01/31/2002
Inquiry #: 729028.4S
P.O. #: hr501.00.01
Site Name: Spinnaker Coating
Address: 518 E. Water Street
City/State: Troy, OH 45373
Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1887 - 1 - map
1892 - 1 - map
1898 - 2 - maps
1905 - 2 - maps
1911 - 1 - map
1923 - 1 - map
1931 - 1 - map
1947 - 1 - map
1955 - 1 - map

Total Maps: 11

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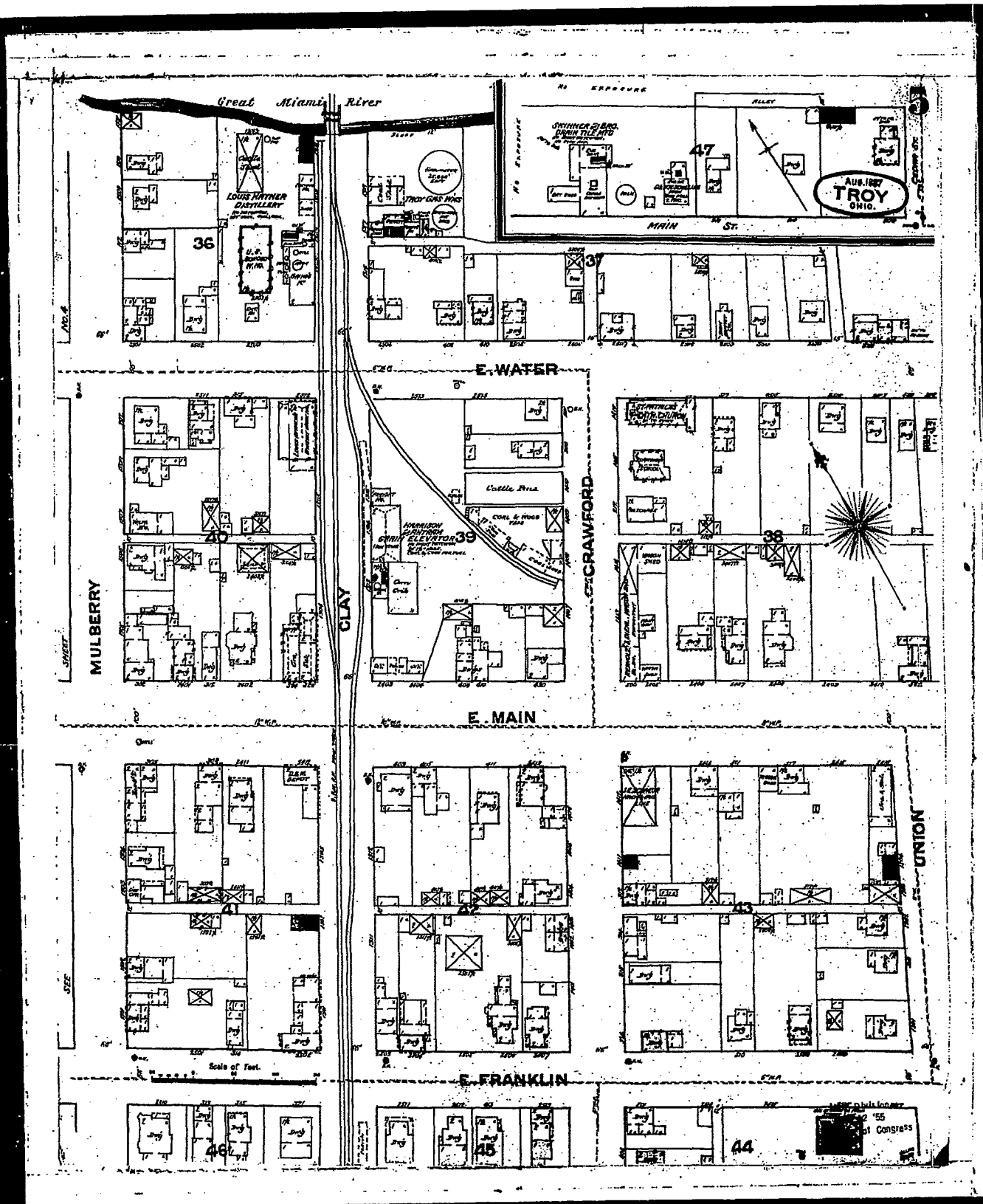

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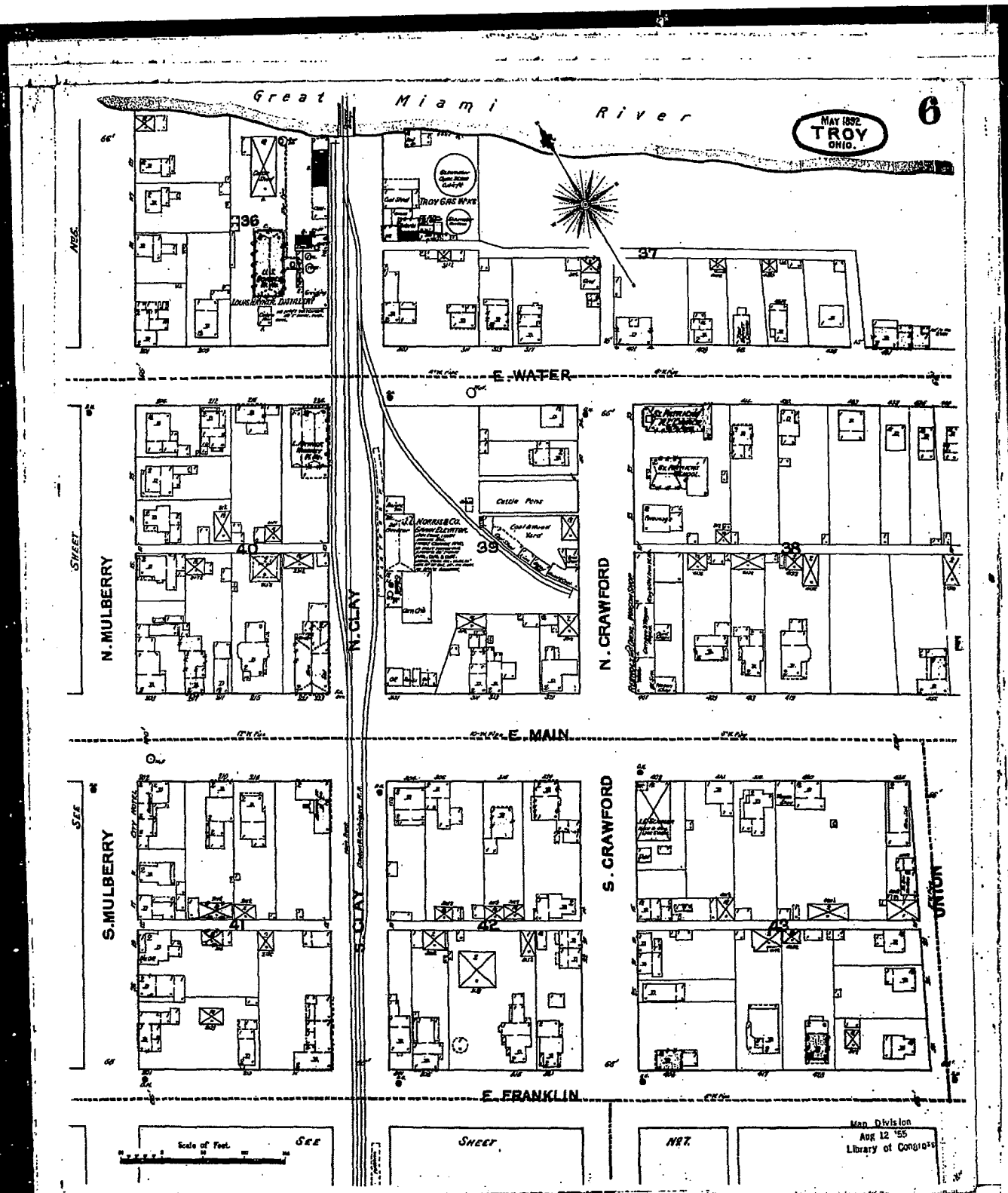

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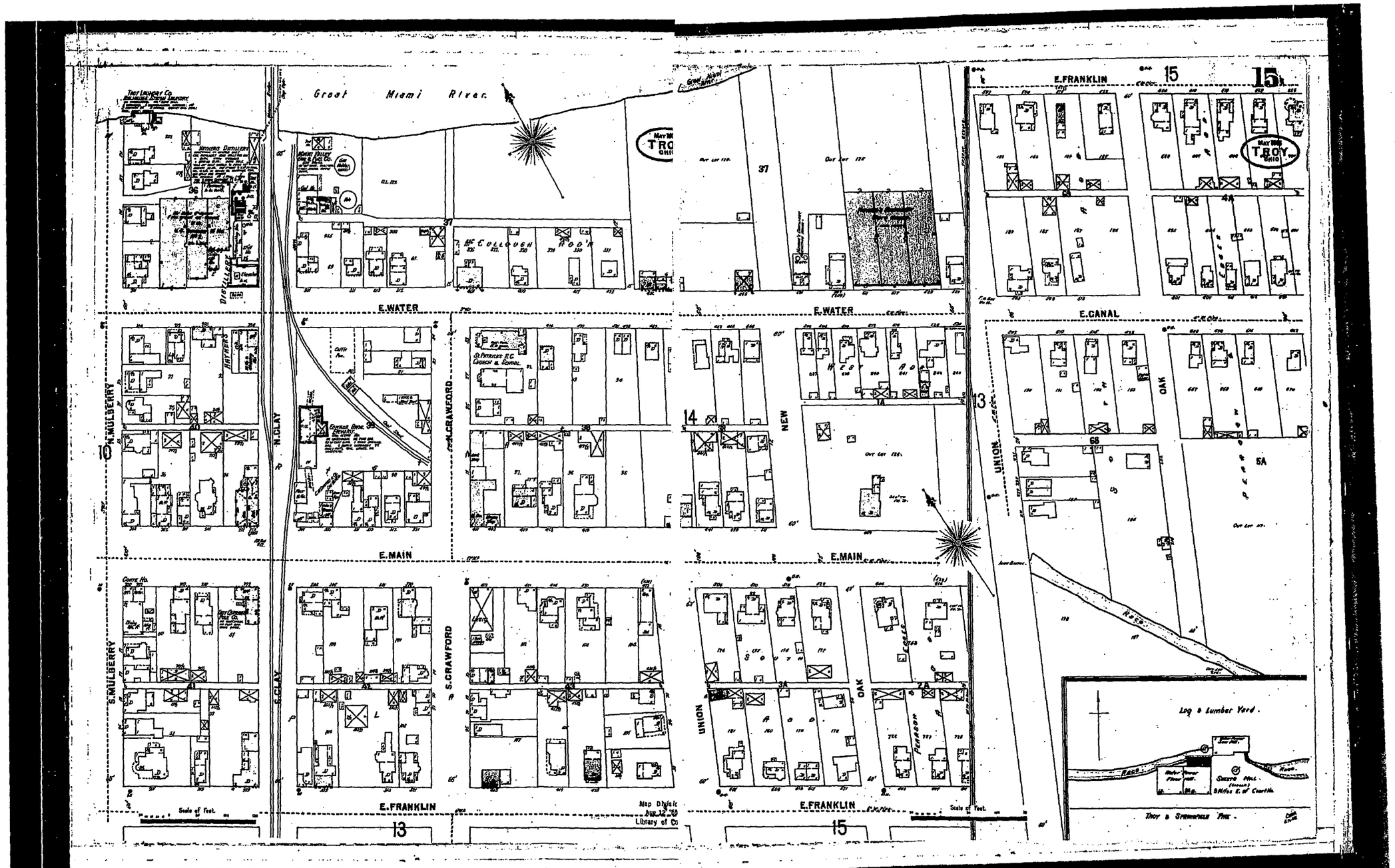

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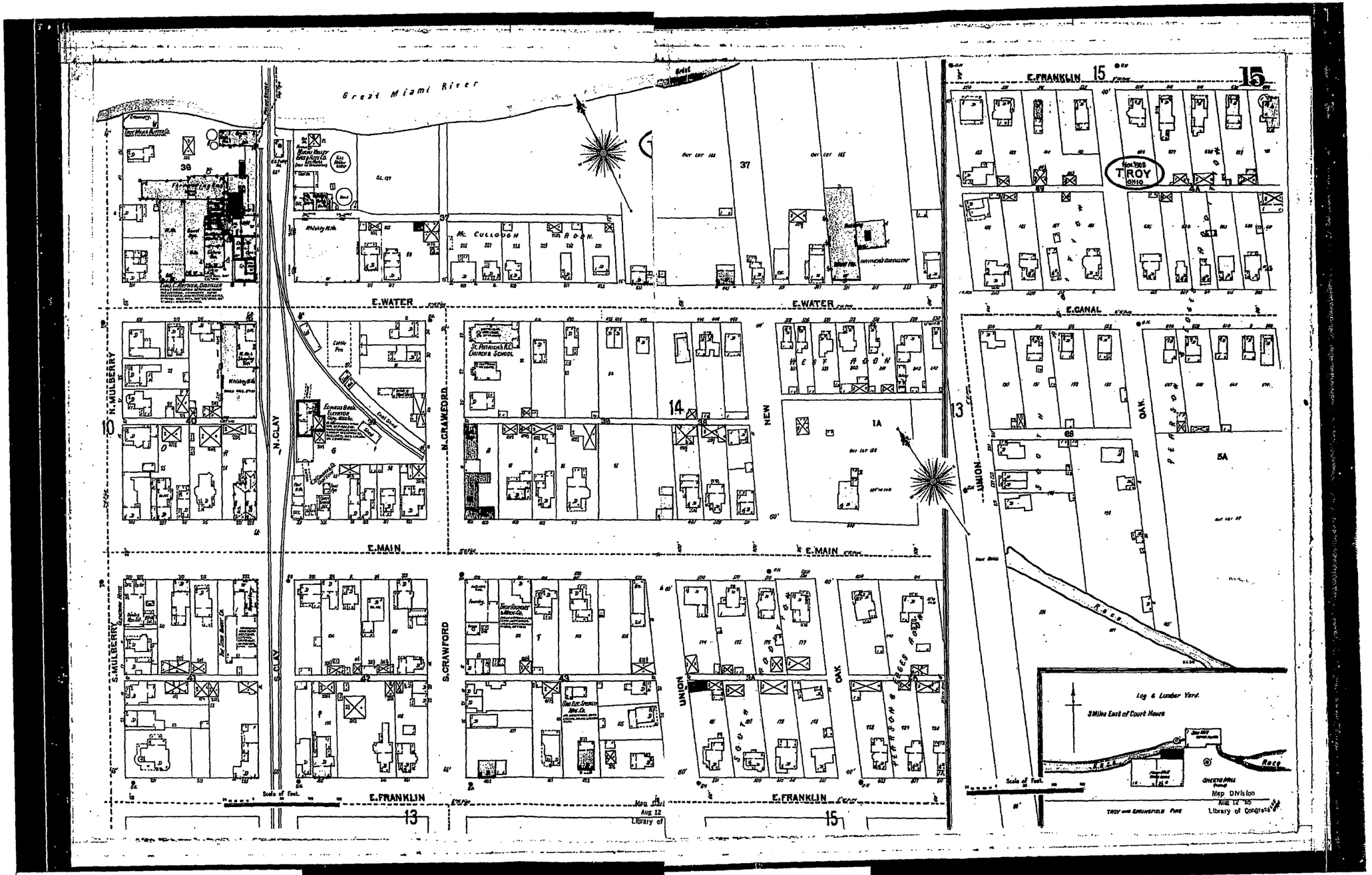

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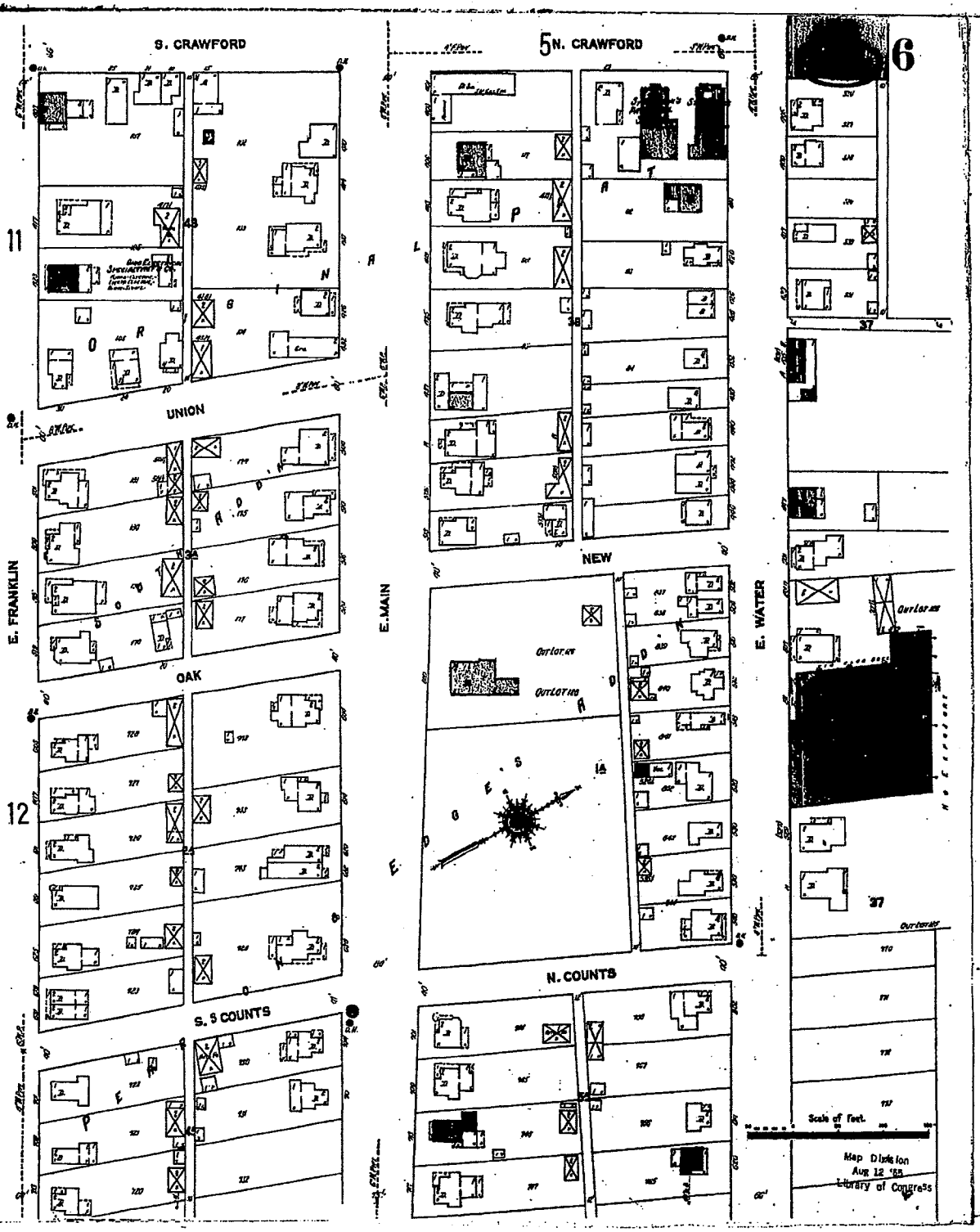

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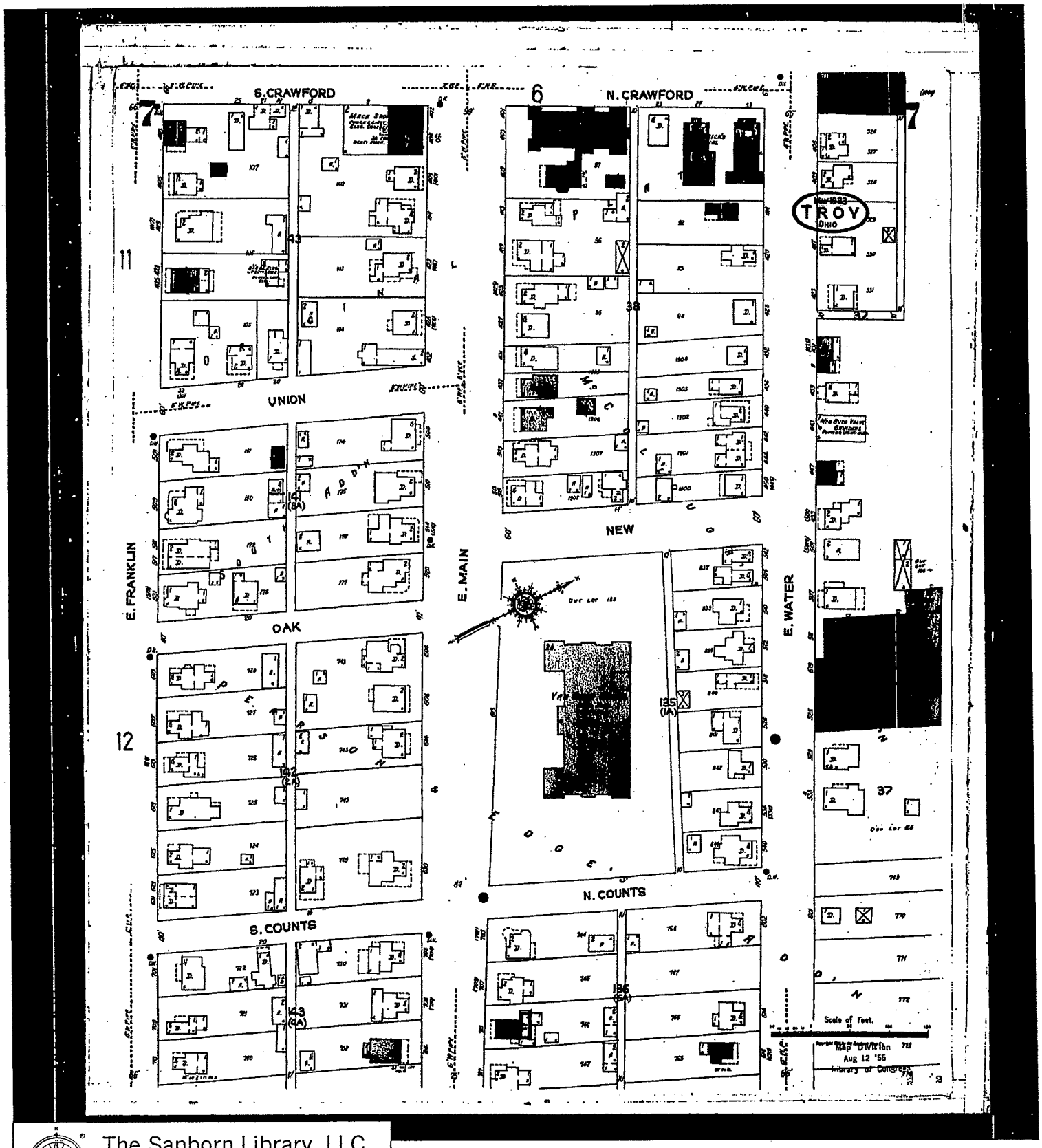

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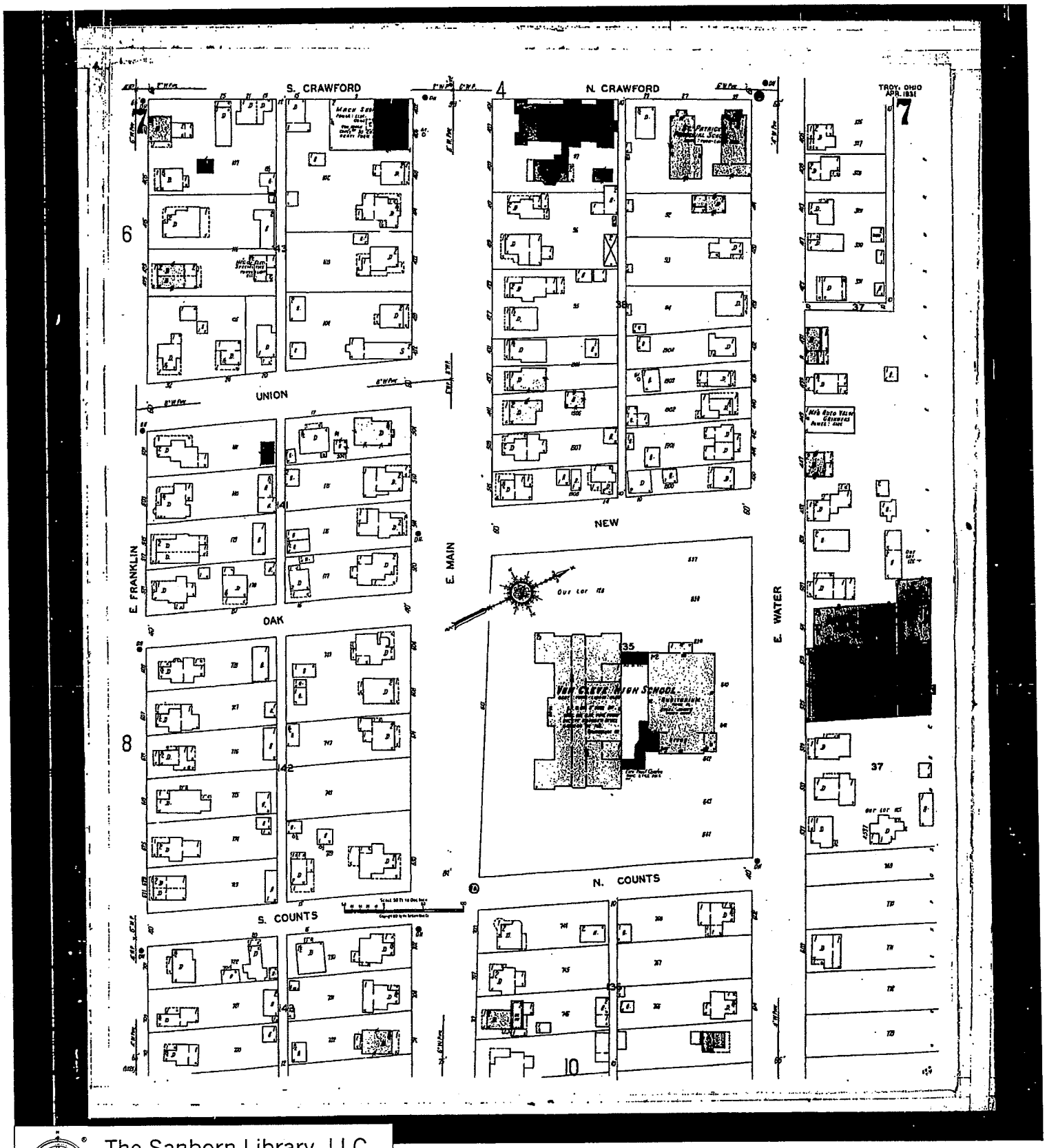

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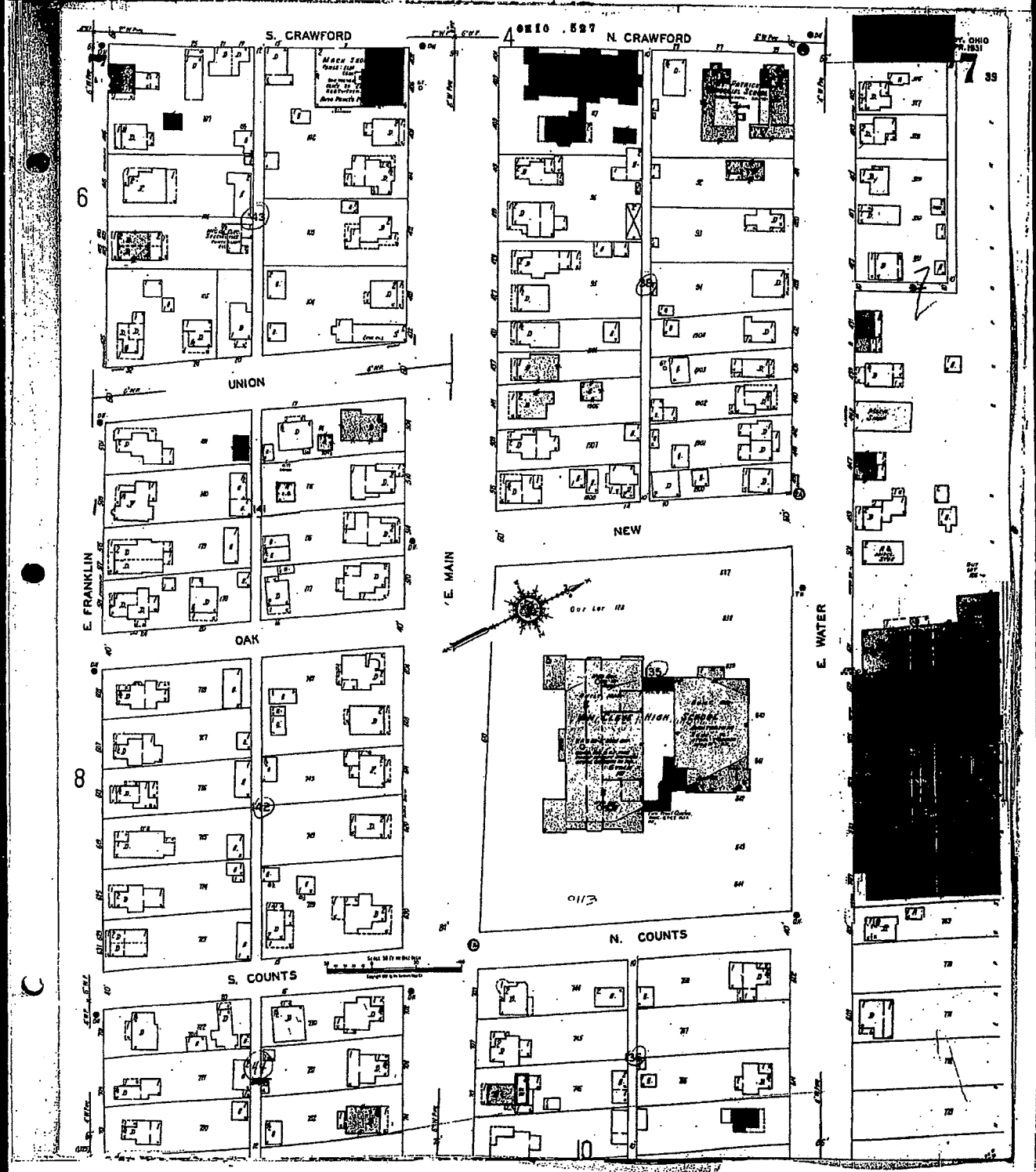

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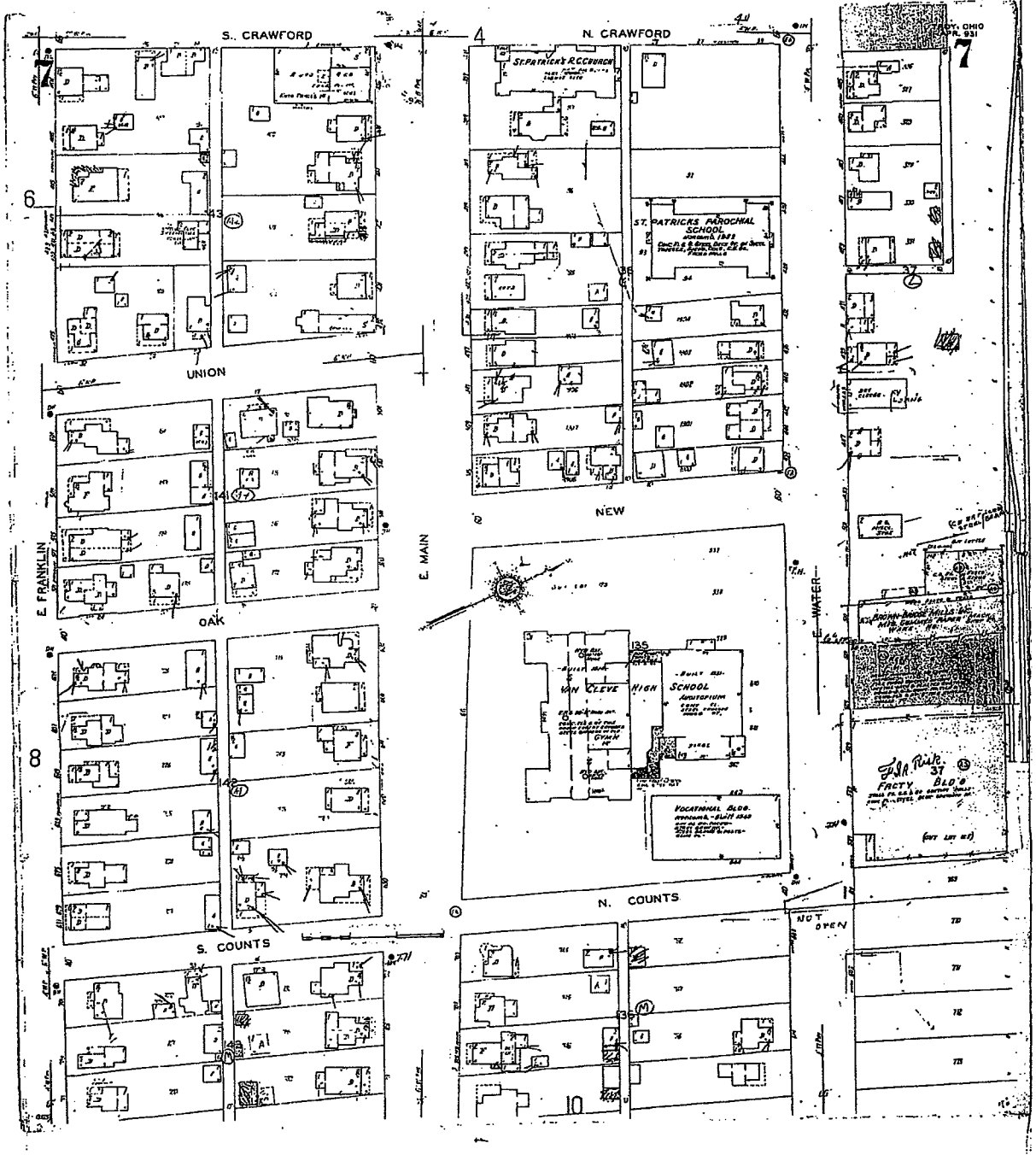

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The EDR-Historical Topographic Map Report

Spinnaker Coating
518 E. Water Street
Troy, OH 45373

January 30, 2002

Inquiry Number: 729028-5

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.
Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-94, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources. Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable.*

To meet the prior use requirements of ASTM E 1527-94, Section 7.3.2, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-94 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-94, Section 7.3.2 page 11.)

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For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.

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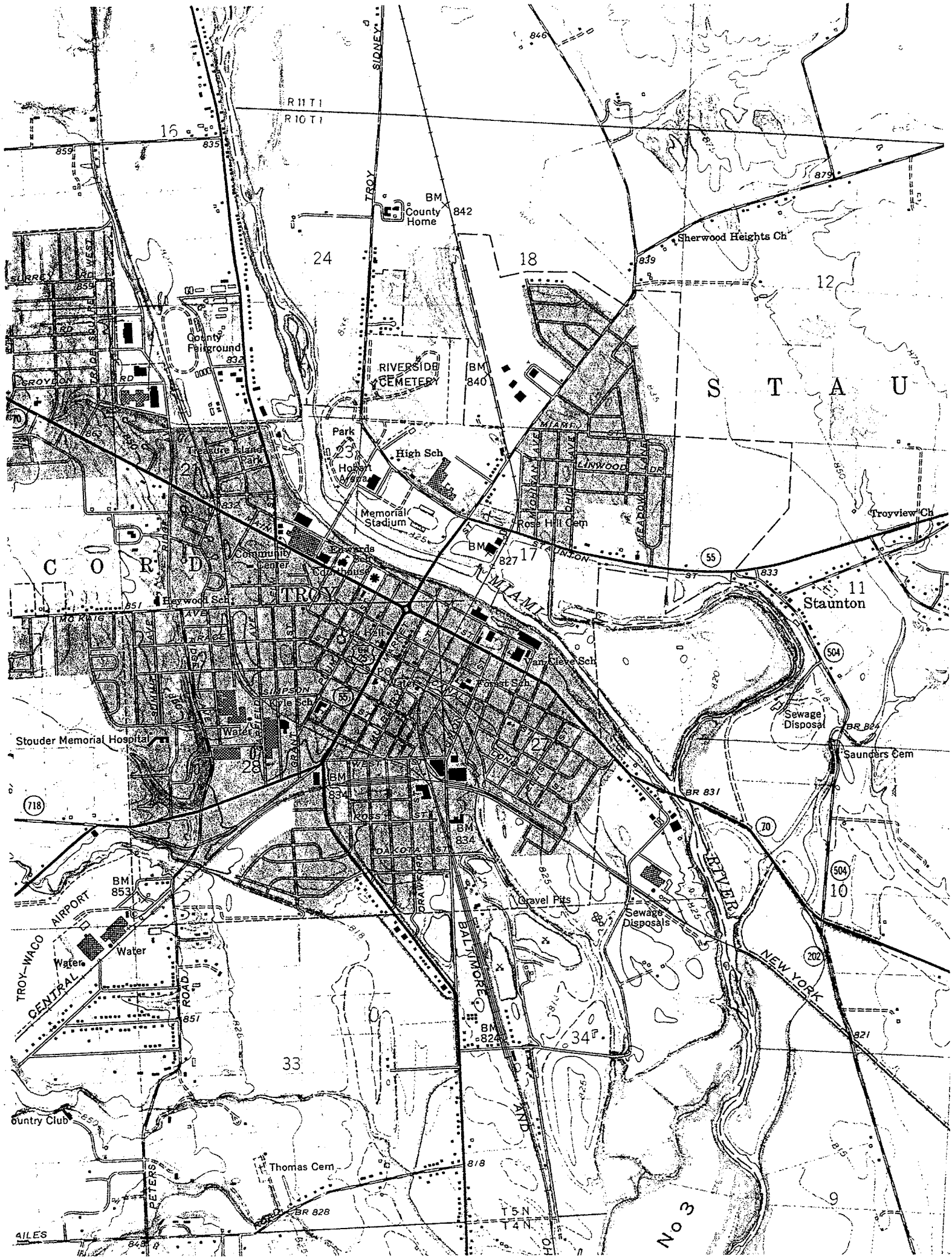

R 11 T 1
R 10 T 1
16
24
18
12
County Home
BM 842
Sherwood Heights Ch
County Fairground
RIVERSIDE CEMETERY
BM 840
S T A U
Park
High Sch
Hobart Arena
Treasure Island Park
Memorial Stadium
Rose Hill Cem
Troyview Ch
C O R D
Community Center
Courthouse
BM 827
17
11
Staunton
Heywood Sch
TROY
MIAMI
Van Cleve Sch
Forest Sch
Kyle Sch
Water
Stouder Memorial Hospital
Sewage Disposal
Saunders Cem
BM 834
BM 834
BM 853
AIRPORT
TROY-WACO
CENTRAL
Water
Water
Gravel Pits
Sewage Disposals
RIVER
NEW YORK
BALTIMORE
AND
BM 824
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33
10
9
Country Club
Thomas Cem
BR 828
T 5 N
T 4 N
No 3

Inquiry Number: 729628-5

TP Quad [✓] Adj Quad [] ↑N

Quad Troy

Minute Series [✓] 7.5 [] 15 [] 30 [] 30x60

Year 1961 []Provisional Edition []Revised

[]Photorevised []Inspected from _____

Scale [✓] 1:24,000 [] 1:25,000 [] 1:50,000

[] 1:62,500 [] 1:100,000 [] 1:125,000