

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CITY GARAGE - DPW (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000252556

Contact: CHAD GAMBLE
Contact Phone: (517) 543-2750
Impressed Device: No
Install Date: Apr 1 1980
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00008302
Facility Status: CLOSED
Tank ID: DPW-3
Owner: City Of Charlotte
Owner Country: USA
Owner Contact: Not reported
Owner Address: 111 E Lawrence Ave
Charlotte, MI 48813
Owner Phone: (517) 543-2750
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Oct 23 1995
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: CHAD GAMBLE
Contact Phone: (517) 543-2750
Impressed Device: No
Install Date: Apr 1 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00008302
Facility Status: CLOSED
Tank ID: DPW-4
Owner: City Of Charlotte
Owner Country: USA
Owner Contact: Not reported
Owner Address: 111 E Lawrence Ave
Charlotte, MI 48813
Owner Phone: (517) 543-2750
Product: Used Oil
Capacity: 500
Tank Status: Removed from Ground
Remove Date: Jul 23 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: CHAD GAMBLE
Contact Phone: (517) 543-2750
Impressed Device: No
Install Date: Apr 1 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00008302

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CITY GARAGE - DPW (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000252556

Facility Status: CLOSED
Tank ID: DPW-5
Owner: City Of Charlotte
Owner Country: USA
Owner Contact: Not reported
Owner Address: 111 E Lawrence Ave
Charlotte, MI 48813
Owner Phone: (517) 543-2750
Product: FUEL FOR CONSUMPTIVE
Capacity: 500
Tank Status: Removed from Ground
Remove Date: Jun 29 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Unknown
Piping Type: Not reported
Contact: CHAD GAMBLE
Contact Phone: (517) 543-2750
Impressed Device: No
Install Date: Apr 1 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

A3
West
< 1/8
503 ft.

CHARLOTTE DPW, CITY OF
301 TIRRELL HWY
CHARLOTTE, MI 48813

RCRA-SQG **1004724808**
FINDS **MIR000014324**

Site 2 of 3 in cluster A

Relative:
Higher

RCRAInfo:

Actual:
899 ft.

Owner: CITY OF CHARLOTTE
EPA ID: MIR000014324
Contact: ROBERT VANSPLINTERN
(517) 543-2753

Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

A4
West
< 1/8
534 ft.

TIRRELL LIFT STATION
313 TIRRELL HWY
CHARLOTTE, MI 48813

UST **U000252565**
N/A

Site 3 of 3 in cluster A

Relative:
Higher

UST:

Actual:
899 ft.

Facility ID: 00008304
Facility Status: ACTIVE
Tank ID: TIRRELL-1
Owner: City Of Charlotte
Owner Country: USA
Owner Contact: Not reported
Owner Address: 111 E Lawrence Ave

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

TIRRELL LIFT STATION (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000252565

Charlotte, MI 48813
Owner Phone: (517) 543-2750
Product: Diesel
Capacity: 1000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Fiberglass Reinforced plastic,Lined Interior
Piping Material: FLEXIBLE PLAST
Piping Type: Suction: No Valve At Tank
Contact: ROBERT M GRANGER
Contact Phone: (517) 543-8860
Impressed Device: No
Install Date: Apr 1 1980
Release Detection:
Tank: Inventory Control
Pipe: Not reported

B5
North
1/4-1/2
2598 ft.

ADMIRAL PETROLEUM #115
702 S COCHRAN
CHARLOTTE, MI 48813

LUST **U002301065**
UST **N/A**

Site 1 of 2 in cluster B

Relative:
Higher

Actual:
908 ft.

LUST:

Facility ID: 00017323
Release Number: Closed
Release Date: Jan 11 1995
Facility Status: CLOSED
District: Lansing District Office
Closed Date: Feb 17 1995
Owner Contact : Not reported
Owner Name : Admiral Petroleum Co
Owner Address : Po Box 198 13 Randall St
Coopersville, MI 49404
Country : USA
Owner Phone : (616) 837-6218
Contact : Dennis E Lemmen
Facility Phone : 616-837-6218
Leak Number: C-0051-95

Facility ID: 00017323
Release Number: Closed
Release Date: Nov 17 1992
Facility Status: CLOSED
District: Lansing District Office
Closed Date: Mar 28 2003
Owner Contact : Not reported
Owner Name : Admiral Petroleum Co
Owner Address : Po Box 198 13 Randall St
Coopersville, MI 49404
Country : USA
Owner Phone : (616) 837-6218
Contact : Dennis E Lemmen
Facility Phone : 616-837-6218
Leak Number: C-2070-92

UST:

Facility ID: 00017323
Facility Status: ACTIVE

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

ADMIRAL PETROLEUM #115 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301065

Tank ID: 1
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
Coopersville, MI 49404
Owner Phone: (616) 837-6218
Product: Gasoline
Capacity: 8000
Tank Status: Removed from Ground
Remove Date: Apr 18 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218
Impressed Device: No
Install Date: May 6 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017323
Facility Status: ACTIVE
Tank ID: 2
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
Coopersville, MI 49404
Owner Phone: (616) 837-6218
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Apr 18 1994
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218
Impressed Device: No
Install Date: May 6 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00017323
Facility Status: ACTIVE
Tank ID: 3
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
Coopersville, MI 49404
Owner Phone: (616) 837-6218
Product: Gasoline
Capacity: 1000

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ADMIRAL PETROLEUM #115 (Continued)

U002301065

Tank Status: Removed from Ground
Remove Date: Jan 11 1995
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218
Impressed Device: No
Install Date: Aug 1 1988
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017323
Facility Status: ACTIVE
Tank ID: 4
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
 Coopersville, MI 49404
Owner Phone: (616) 837-6218
Product: Diesel
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Jan 11 1995
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Pressure
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218
Impressed Device: No
Install Date: Aug 1 1988
Release Detection:
 Tank: Not reported
 Pipe: Not reported

Facility ID: 00017323
Facility Status: ACTIVE
Tank ID: 5
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
 Coopersville, MI 49404
Owner Phone: (616) 837-6218
Product: UNKNOWN
Capacity: Not reported
Tank Status: Removed from Ground
Remove Date: Jun 25 1995
Constr Material: Unknown
Piping Material: Unknown
Piping Type: Not reported
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218
Impressed Device: No
Install Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

ADMIRAL PETROLEUM #115 (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301065

Release Detection:

Tank: Not reported
Pipe: Not reported

Facility ID: 00017323
Facility Status: ACTIVE
Tank ID: 6
Owner: Admiral Petroleum Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: Po Box 198 13 Randall St
Coopersville, MI 49404

Owner Phone: (616) 837-6218
Product: Gasoline
Capacity: 15000
Tank Status: Currently In Use
Remove Date: Not reported
Constr Material: Composite(Steel w/Fiberglass),Double Walled
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Contact: Dennis E Lemmen
Contact Phone: 616-837-6218

Impressed Device:No

Install Date: Jan 13 1995

Release Detection:

Tank: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe: Automatic Line Leak Detectors,Line Tightness Testing

B6
North
1/4-1/2
2598 ft.

702 S. COCHRAN
702 S. COCHRAN
CHARLOTTE, MI

BEA S105768417
N/A

Site 2 of 2 in cluster B

Relative:
Higher

BEA:

Actual:
908 ft.

BEA Number: 697
District: Lansing
Date Received: 2002-12-23 00:59:00
Submitter Name: Admiral Petroleum
Petition Determination: No Request
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: lamrouem
Division Assigned: Storage Tank Division
Secondary Address: Not reported

7
NNW
1/2-1
3083 ft.

JOHNSON IRON INDUSTRIES
615 W SHEPARD
CHARLOTTE, MI 46023

CERCLIS 1000704612
RCRA-SQG MID006023022
FINDS
CORRACTS

Relative:
Higher

CERCLIS Classification Data:

Actual:
900 ft.

Site incident category:Not reported
Non NPL Status: Referred to Removal - Further Assessment Needed
Ownership Status: Not reported
Contact: ROBERT BUCKLEY
Contact Title: Not reported

Federal Facility: Not a Federal Facility

NPL Status: Not on the NPL
Contact Tel: (734) 692-7662

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

JOHNSON IRON INDUSTRIES (Continued)

1000704612

Contact:	MATTHEW MANKOWSKI	Contact Tel:	(312) 886-1842
Contact Title:	Not reported		
CERCLIS Assessment History:			
Assessment:	DISCOVERY	Completed:	07/01/1987
Assessment:	PRELIMINARY ASSESSMENT	Completed:	10/07/1988
Assessment:	SITE INSPECTION	Completed:	08/16/1990
Assessment:	EXPANDED SITE INSPECTION	Completed:	09/21/1993
Assessment:	REMOVAL	Completed:	07/31/1995
Assessment:	ENGINEERING EVAL/COST ANALYSIS	Completed:	06/02/1998
Assessment:	ADMIN ORDER ON CONSENT	Completed:	03/15/1999
Assessment:	REMOVAL	Completed:	09/29/2002

CERCLIS Site Status:
Cleaned up

CORRACTS Data:

EPA Id:	MID006023022
Region:	5
Area Name:	ENTIRE FACILITY
Actual Date:	05/26/1995
Corrective Action:	CA210SF - CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA
2002 NAICS Title:	Remediation Services

EPA Id:	MID006023022
Region:	5
Area Name:	ENTIRE FACILITY
Actual Date:	09/30/1993
Corrective Action:	CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
2002 NAICS Title:	Remediation Services

EPA Id:	MID006023022
Region:	5
Area Name:	ENTIRE FACILITY
Actual Date:	06/30/1993
Corrective Action:	CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
2002 NAICS Title:	Remediation Services

RCRAInfo Corrective Action Summary:

Event:	CA Responsibility Referred To A Non-RCRA Federal Authority, Corrective Action at the facility or area referred to CERCLA.
Event Date:	05/26/1995
Event:	Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.
Event Date:	09/30/1993

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

JOHNSON IRON INDUSTRIES (Continued)

EDR ID Number
EPA ID Number

1000704612

Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event Date: 06/30/1993

RCRAInfo:

Contact: DONALD JOHNSON
(312) 886-4448

Classification: Small Quantity Generator

TSDF Activities: Not reported

Violation Status: Violations exist

Regulation Violated: Not reported
Area of Violation: TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined: 09/23/1992
Actual Date Achieved Compliance: 01/11/1994

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 08/28/1992
Actual Date Achieved Compliance: 01/11/1994

Regulation Violated: Not reported
Area of Violation: TSD-GROUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 02/28/1991
Actual Date Achieved Compliance: 01/11/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/25/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/18/1990
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/31/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 02/28/1991
Actual Date Achieved Compliance: 01/11/1994

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/25/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/18/1990
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/31/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined: 07/24/1990
Actual Date Achieved Compliance: 12/28/1990

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/25/1989

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

JOHNSON IRON INDUSTRIES (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000704612

Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/18/1990
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/31/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/11/1990
Actual Date Achieved Compliance:	12/28/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/25/1989
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/18/1990
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/31/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined:	07/14/1989
Actual Date Achieved Compliance:	01/11/1994
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/25/1989
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/18/1990
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/31/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE
Date Violation Determined:	07/14/1989
Actual Date Achieved Compliance:	01/11/1994
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/25/1989
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/18/1990
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	07/31/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	FORMAL ENFORCEMENT AGREEMENT
Date Violation Determined:	07/14/1989
Actual Date Achieved Compliance:	01/11/1994

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

JOHNSON IRON INDUSTRIES (Continued)

EDR ID Number
EPA ID Number

1000704612

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/25/1989
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/18/1990
Penalty Type: Not reported

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 07/31/1990
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-GOUNDWATER MONITORING REQUIREMENTS
Date Violation Determined: 06/23/1987
Actual Date Achieved Compliance: 08/13/1988

Regulation Violated: Not reported
Area of Violation: TSD-CLOSURE/POST-CLOSURE REQUIREMENTS
Date Violation Determined: 06/23/1987
Actual Date Achieved Compliance: 12/01/1988

Penalty Summary:

Penalty Description	Penalty Date	Penalty Amount	Lead Agency
Proposed Monetary Penalty	1/11/1994	5000	EPA
Proposed Monetary Penalty	10/20/1992	5000	EPA

There are 11 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19940111
Compliance Evaluation Inspection	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
Compliance Schedule Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
Compliance Schedule Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
Compliance Schedule Evaluation	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228

Map ID
Direction
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Distance (ft.)
Elevation

MAP FINDINGS

JOHNSON IRON INDUSTRIES (Continued)

EDR ID Number
EPA ID Number

Database(s)

Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
Sampling Inspection	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
Non-Financial Record Review	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
Compliance Evaluation Inspection	TSD-GOUNDWATER MONITORING REQUIREMENTS	19940111
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
	TSD-CORRECTIVE ACTION COMPLIANCE SCHEDULE	19940111
	FORMAL ENFORCEMENT AGREEMENT	19940111
Non-Financial Record Review	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19901228
	TSD-GOUNDWATER MONITORING REQUIREMENTS	19880813
	TSD-CLOSURE/POST-CLOSURE REQUIREMENTS	19881201

FINDS:

Other Pertinent Environmental Activity Identified at Site:
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND INFORMATION SYSTEM
INTEGRATED COMPLIANCE INFORMATION SYSTEM
NATIONAL COMPLIANCE DATABASE SYSTEM
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

8
NW
1/2-1
3446 ft.

JOHNSON IRON INDUSTRIES
615 W SHEPHARD ST
CHARLOTTE, MI 48813

SHWS 1003837781
N/A

Relative:
Lower

SHWS:

Actual:
886 ft.

Facility ID: 23000007
Facility Status: Interim Response conducted - No further activities anticipated
Source: Gray Iron Foundries
Pollutant(s): Benzene; Ethylbenzene; Pb; Ni; PCB's; Toluene; Xylenes
SAM Score: 32
SAM Score Date: 2004-02-12 16:49:23.883
Township: 02N
Range: 05W
Section: 24
Quarter: NW
Quarter/Quarter: NE

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

9
SE
1/2-1
3793 ft.

RES WELLS ORIOLE DR
1919 ORIOLE DRIVE
CHARLOTTE, MI 0null

SHWS **S105143986**
N/A

Relative:
Higher

SHWS:

Facility ID: 23000013
Facility Status: Inactive - no actions taken to address contamination
Source: Unknown
Pollutant(s): Cl; Na
SAM Score: 27
SAM Score Date: 1991-02-20 00:00:00.0
Township: 02N
Range: 04W
Section: 19
Quarter: SW
Quarter/Quarter: NE

Actual:
910 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHARLOTTE	U003135745	WILSON ROAD TRAVEL CENTER	RT 5, BOX 928-X	48813	UST
CHARLOTTE	S100069404	CHARLOTTE SANITARY LANDFILL	HALL ST	48813	HIST LF
CHARLOTTE	1006830288	CHARLOTTE SANITARY LANDFILL	HALL ST	48813	FINDS
CHARLOTTE	1003871381	CHARLOTTE MUNI AIRPORT	ISLAND HWY	48813	CERC-NFRAP
CHARLOTTE	1000364609	CHARLOTTE MUNICIPAL AIRPORT	ISLAND HWY	48813	SHWS
CHARLOTTE	S103595322	CONSUMERS ENERGY	RAILROAD STREET	48813	SHWS, BEA
CHARLOTTE	S105143993	AE HOOVER PROPERTY	SHEPARD STREET	48813	SHWS, BROWNFIELDS
CHARLOTTE	1006836928	CHARLOTTE DISPOSAL LANDFILL	STINE ROAD-VALLEY HWY	48813	FINDS
CHARLOTTE	1006835046	CHARLOTTE DISPOSAL SERVICE	446 STINE RD	48813	FINDS
CHARLOTTE	1003871110	CHARLOTTE DISPOSAL INC	446 STINE RD	48813	SHWS, CERC-NFRAP
CHARLOTTE	1000364608	CHARLOTTE DISPOSAL LANDFILL	STINE ROAD-VALLEY HWY	48813	HIST LF
CHARLOTTE	1004725675	MI DEPT/TRANSPORTATION BRIDGE J16-23061	I-69 UNDER 5 POINT HWY, J16 OF	48813	RCRA-SQG, FINDS
EATON TOWNSHIP	1001232590	MI DEPT/TRANSPORTATION BRIDGE J13-23061	I-69 UNDER ISLAND HIGHWAY	48813	RCRA-SQG, FINDS
VERMONTVILLE	U003211607	EATON COUNTY ROAD COMMISSION	8893 W VERMONTVILLE HWY	48813	LUST, UST

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.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM STANDARD RECORDS

NPL: National Priority List

Source: EPA

Telephone: N/A

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: 04/28/05

Date Made Active at EDR: 05/16/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05

Elapsed ASTM days: 12

Date of Last EDR Contact: 05/04/05

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1

Telephone 617-918-1143

EPA Region 3

Telephone 215-814-5418

EPA Region 4

Telephone 404-562-8033

EPA Region 6

Telephone: 214-655-6659

EPA Region 8

Telephone: 303-312-6774

Proposed NPL: Proposed National Priority List Sites

Source: EPA

Telephone: N/A

Date of Government Version: 04/27/05

Date Made Active at EDR: 05/16/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/04/05

Elapsed ASTM days: 12

Date of Last EDR Contact: 05/04/05

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

Source: EPA

Telephone: 703-413-0223

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: 02/15/05

Date Made Active at EDR: 04/06/05

Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 03/22/05

Elapsed ASTM days: 15

Date of Last EDR Contact: 03/22/05

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/22/05
Date Made Active at EDR: 04/06/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/01/05
Elapsed ASTM days: 5
Date of Last EDR Contact: 04/01/05

CORRACTS: Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/29/05
Date Made Active at EDR: 05/16/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 04/11/05
Elapsed ASTM days: 35
Date of Last EDR Contact: 03/07/05

RCRA: Resource Conservation and Recovery Act Information

Source: EPA

Telephone: 800-424-9346

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. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). 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. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site 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: 05/20/05
Date Made Active at EDR: 06/09/05
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/24/05
Elapsed ASTM days: 16
Date of Last EDR Contact: 05/24/05

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-260-2342

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

Date of Government Version: 12/31/04
Date Made Active at EDR: 03/24/05
Database Release Frequency: Annually

Date of Data Arrival at EDR: 01/27/05
Elapsed ASTM days: 56
Date of Last EDR Contact: 04/25/05

FEDERAL ASTM SUPPLEMENTAL RECORDS

BRS: Biennial Reporting System

Source: EPA/NTIS

Telephone: 800-424-9346

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: 12/01/01
Database Release Frequency: Biennially

Date of Last EDR Contact: 04/15/05
Date of Next Scheduled EDR Contact: 06/13/05

CONSENT: Superfund (CERCLA) Consent Decrees

Source: Department of Justice, Consent Decree Library

Telephone: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/14/04
Database Release Frequency: Varies

Date of Last EDR Contact: 04/26/05
Date of Next Scheduled EDR Contact: 07/25/05

ROD: Records Of Decision

Source: EPA
Telephone: 703-416-0223

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: 03/07/05
Database Release Frequency: Annually

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

DELISTED NPL: National Priority List Deletions

Source: EPA
Telephone: N/A

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: 04/28/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 05/04/05
Date of Next Scheduled EDR Contact: 08/01/05

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA
Telephone: N/A

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: 04/11/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation
Telephone: 202-366-4555

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

Date of Government Version: 12/31/04
Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/05
Date of Next Scheduled EDR Contact: 07/18/05

MLTS: Material Licensing Tracking System

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169

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: 04/14/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/11/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/30/05
Date of Next Scheduled EDR Contact: 06/27/05

NPL LIENS: Federal Superfund Liens

Source: EPA
Telephone: 202-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (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 receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 02/22/05
Date of Next Scheduled EDR Contact: 05/23/05

PADS: PCB Activity Database System

Source: EPA
Telephone: 202-564-3887

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: 03/30/05
Database Release Frequency: Annually

Date of Last EDR Contact: 05/10/05
Date of Next Scheduled EDR Contact: 08/08/05

DOD: Department of Defense Sites

Source: USGS
Telephone: 703-692-8801

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

UMTRA: Uranium Mill Tailings Sites

Source: Department of Energy
Telephone: 505-845-0011

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. In 1978, 24 inactive uranium mill tailings sites in Oregon, Idaho, Wyoming, Utah, Colorado, New Mexico, Texas, North Dakota, South Dakota, Pennsylvania, and on Navajo and Hopi tribal lands, were targeted for cleanup by the Department of Energy.

Date of Government Version: 12/29/04
Database Release Frequency: Varies

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

ODI: Open Dump Inventory

Source: Environmental Protection Agency
Telephone: 800-424-9346

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: 06/30/85
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 05/23/95
Date of Next Scheduled EDR Contact: N/A

FUDS: Formerly Used Defense Sites

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/03
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

INDIAN RESERV: Indian Reservations

Source: USGS
Telephone: 202-208-3710

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: 10/01/03
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 02/08/05
Date of Next Scheduled EDR Contact: 05/09/05

US ENG CONTROLS: Engineering Controls Sites List

Source: Environmental Protection Agency
Telephone: 703-603-8867

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: 01/10/05
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

RAATS: RCRA Administrative Action Tracking System

Source: EPA
Telephone: 202-564-4104

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: 04/17/95
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/07/05
Date of Next Scheduled EDR Contact: 06/06/05

TRIS: Toxic Chemical Release Inventory System

Source: EPA
Telephone: 202-566-0250

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: 12/31/02
Database Release Frequency: Annually

Date of Last EDR Contact: 03/22/05
Date of Next Scheduled EDR Contact: 06/20/05

TSCA: Toxic Substances Control Act

Source: EPA
Telephone: 202-260-5521

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: 12/31/02
Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 04/05/05
Date of Next Scheduled EDR Contact: 06/06/05

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

Source: EPA
Telephone: 202-566-1667

Date of Government Version: 04/13/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/21/05
Date of Next Scheduled EDR Contact: 06/20/05

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SSTS: Section 7 Tracking Systems

Source: EPA

Telephone: 202-564-4203

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: 12/31/03

Database Release Frequency: Annually

Date of Last EDR Contact: 04/19/05

Date of Next Scheduled EDR Contact: 07/18/05

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667

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: 04/13/05

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/21/05

Date of Next Scheduled EDR Contact: 06/20/05

STATE OF MICHIGAN ASTM STANDARD RECORDS

SHWS: Contaminated Sites

Source: Department of Environmental Quality

Telephone: 517-373-9541

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: 05/20/05

Date Made Active at EDR: 06/21/05

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/24/05

Elapsed ASTM days: 28

Date of Last EDR Contact: 05/24/05

SWF/LF: Solid Waste Facilities Database

Source: Department of Environmental Quality

Telephone: 517-335-4035

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: 03/01/05

Date Made Active at EDR: 04/08/05

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 03/15/05

Elapsed ASTM days: 24

Date of Last EDR Contact: 04/25/05

LUST: Leaking Underground Storage Tank Sites

Source: Department of Environmental Quality

Telephone: 517-373-8168

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: 03/14/05

Date Made Active at EDR: 04/08/05

Database Release Frequency: Annually

Date of Data Arrival at EDR: 03/15/05

Elapsed ASTM days: 24

Date of Last EDR Contact: 03/15/05

UST: Underground Storage Tank Facility List

Source: Department of Environmental Quality

Telephone: 517-373-8168

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/14/05
Date Made Active at EDR: 04/12/05
Database Release Frequency: Annually

Date of Data Arrival at EDR: 03/15/05
Elapsed ASTM days: 28
Date of Last EDR Contact: 03/15/05

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541

Date of Government Version: 06/15/05
Date Made Active at EDR: 06/29/05
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 06/15/05
Elapsed ASTM days: 14
Date of Last EDR Contact: 06/13/05

INDIAN UST: Underground Storage Tanks on Indian Land

Source: EPA Region 5
Telephone: 312-886-6136

Date of Government Version: 12/02/04
Date Made Active at EDR: 02/04/05
Database Release Frequency: Varies

Date of Data Arrival at EDR: 12/29/04
Elapsed ASTM days: 37
Date of Last EDR Contact: 02/22/05

HIST LF: Inactive Solid Waste Facilities

Source: Department of Environmental Quality
Telephone: 517-335-4034

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/97
Date Made Active at EDR: 03/06/03
Database Release Frequency: No Update Planned

Date of Data Arrival at EDR: 02/28/03
Elapsed ASTM days: 6
Date of Last EDR Contact: 02/28/03

STATE OF MICHIGAN ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Tanks

Source: Department of Environmental Quality
Telephone: 517-373-8168
Registered Aboveground Storage Tanks.

Date of Government Version: 04/11/05
Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/14/05
Date of Next Scheduled EDR Contact: 06/13/05

DEL SHWS: Delisted List of Contaminated Sites

Source: Department of Environmental Quality
Telephone: 517-373-9541

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 05/26/05
Database Release Frequency: Varies

Date of Last EDR Contact: 05/23/05
Date of Next Scheduled EDR Contact: 08/22/05

PEAS: Pollution Emergency Alerting System

Source: Department of Environmental Quality
Telephone: 517-373-8427

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 03/30/05
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/05/05
Date of Next Scheduled EDR Contact: 07/04/05

DRYCLEANERS: Drycleaning Establishments

Source: Department of Environmental Quality
Telephone: 517-335-4586

A listing of drycleaning facilities in Michigan.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/23/05
Database Release Frequency: Varies

Date of Last EDR Contact: 05/16/05
Date of Next Scheduled EDR Contact: 08/15/05

EDR PROPRIETARY HISTORICAL DATABASES

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

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BROWNFIELDS DATABASES

US BROWNFIELDS: A Listing of Brownfields Sites

Source: Environmental Protection Agency
Telephone: 202-566-2777

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: 01/10/05
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 03/14/05
Date of Next Scheduled EDR Contact: 06/13/05

BROWNFIELDS: Brownfields and USTfield Site Database

Source: Department of Environmental Quality
Telephone: 517-373-4805

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process.

Date of Government Version: 05/24/05
Database Release Frequency: Varies

Date of Last EDR Contact: 05/23/05
Date of Next Scheduled EDR Contact: 08/22/05

US INST CONTROL: Sites with Institutional Controls

Source: Environmental Protection Agency
Telephone: 703-603-8867

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/10/05
Database Release Frequency: Varies

Date of Last EDR Contact: 04/04/05
Date of Next Scheduled EDR Contact: 07/04/05

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.

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: PennWell Corporation

Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CHARLOTTE ARMORY
1310 SOUTH COCHRAN STREET
CHARLOTTE, MI 48813

TARGET PROPERTY COORDINATES

Latitude (North):	42.546200 - 42° 32' 46.3"
Longitude (West):	84.835800 - 84° 50' 8.9"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	677701.6
UTM Y (Meters):	4712478.5
Elevation:	894 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

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. 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.

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).

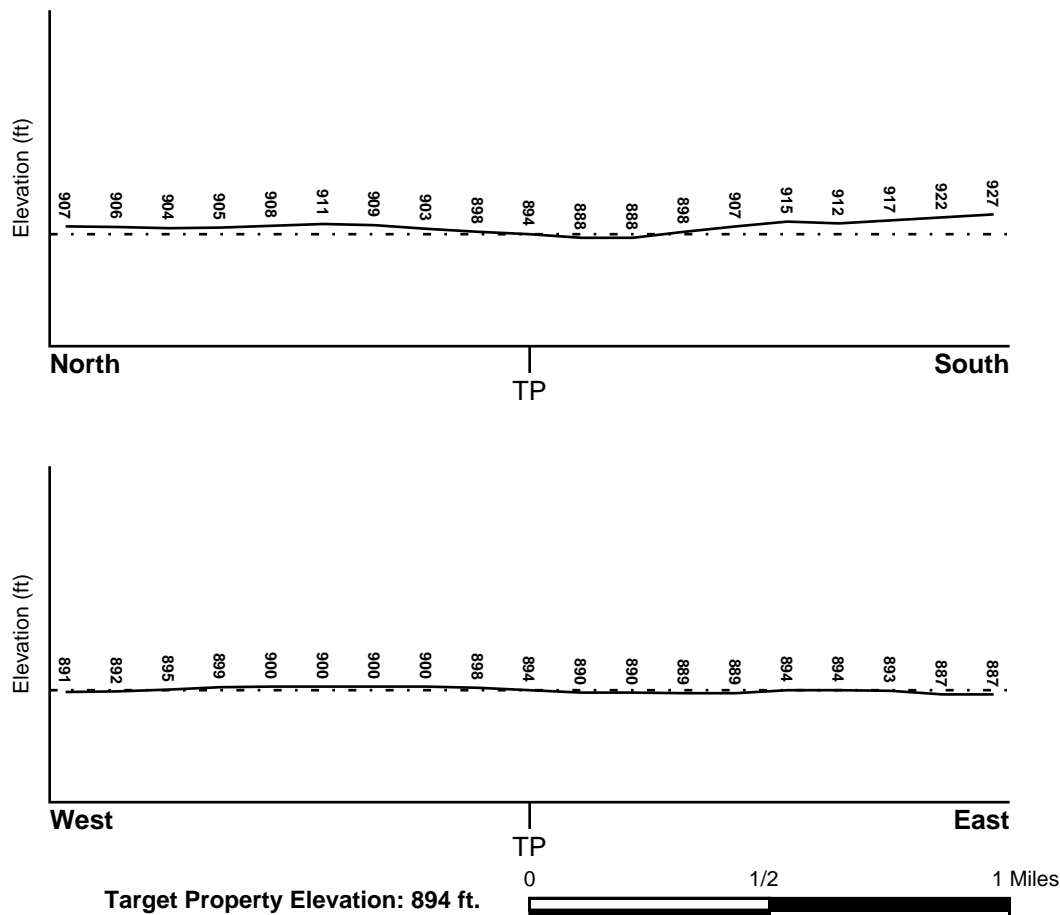
TOPOGRAPHIC INFORMATION

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

USGS Topographic Map: 42084-E7 CHARLOTTE, MI
General Topographic Gradient: General SSE
Source: USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

<u>Target Property County</u>	<u>FEMA Flood</u>
EATON, MI	<u>Electronic Data</u>
	Not Available

Flood Plain Panel at Target Property: Not Reported

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
CHARLOTTE	<u>Data Coverage</u>
	Not Available

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.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

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.

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
Not Reported	<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>

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: Pennsylvanian
Series: Atokan and Morrowan Series
Code: PP1 (*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).

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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CAPAC
Soil Surface Texture: loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 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: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
2	8 inches	35 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: 0.60 Min: 0.20	Max: 7.30 Min: 5.60
3	35 inches	60 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: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy fine sand
muck
sandy loam
fine sandy loam
sand
loamy sand

Surficial Soil Types: loamy fine sand
muck
sandy loam
fine sandy loam
sand
loamy sand

Shallow Soil Types: loamy sand
loamy very fine sand
sand

Deeper Soil Types: fine sand
clay loam
stratified
sandy loam
loamy fine sand
muck
sand
gravelly - sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
B4	USGS2318223	0 - 1/8 Mile SE
H27	USGS2318212	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	MI00092231	0 - 1/8 Mile North
A2	MI00092066	0 - 1/8 Mile SE
B3	MI00092000	0 - 1/8 Mile SE
5	MI00092159	1/8 - 1/4 Mile East
C6	MI00091695	1/8 - 1/4 Mile South
C7	MI00091696	1/8 - 1/4 Mile South
8	MI00091245	1/4 - 1/2 Mile South
9	MI00091666	1/4 - 1/2 Mile WSW
D10	MI00090828	1/4 - 1/2 Mile South
D11	MI00090758	1/2 - 1 Mile South
12	MI00090831	1/2 - 1 Mile SSW
D13	MI00090584	1/2 - 1 Mile South
E14	MI00090694	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
E15	MI00090603	1/2 - 1 Mile SSE
16	MI00090531	1/2 - 1 Mile SSE
F17	MI00092062	1/2 - 1 Mile East
F18	MI00091992	1/2 - 1 Mile East
19	MI00090687	1/2 - 1 Mile SE
20	MI00090113	1/2 - 1 Mile South
21	MI00090821	1/2 - 1 Mile SW
22	MI00089978	1/2 - 1 Mile South
23	MI00094450	1/2 - 1 Mile NNW
24	MI00090893	1/2 - 1 Mile WSW
G25	MI00090539	1/2 - 1 Mile SE
G26	MI00090540	1/2 - 1 Mile SE
H28	MI00089569	1/2 - 1 Mile South
G29	MI00090542	1/2 - 1 Mile SE
30	MI00089513	1/2 - 1 Mile South
31	MI00093477	1/2 - 1 Mile ENE
32	MI00089483	1/2 - 1 Mile South

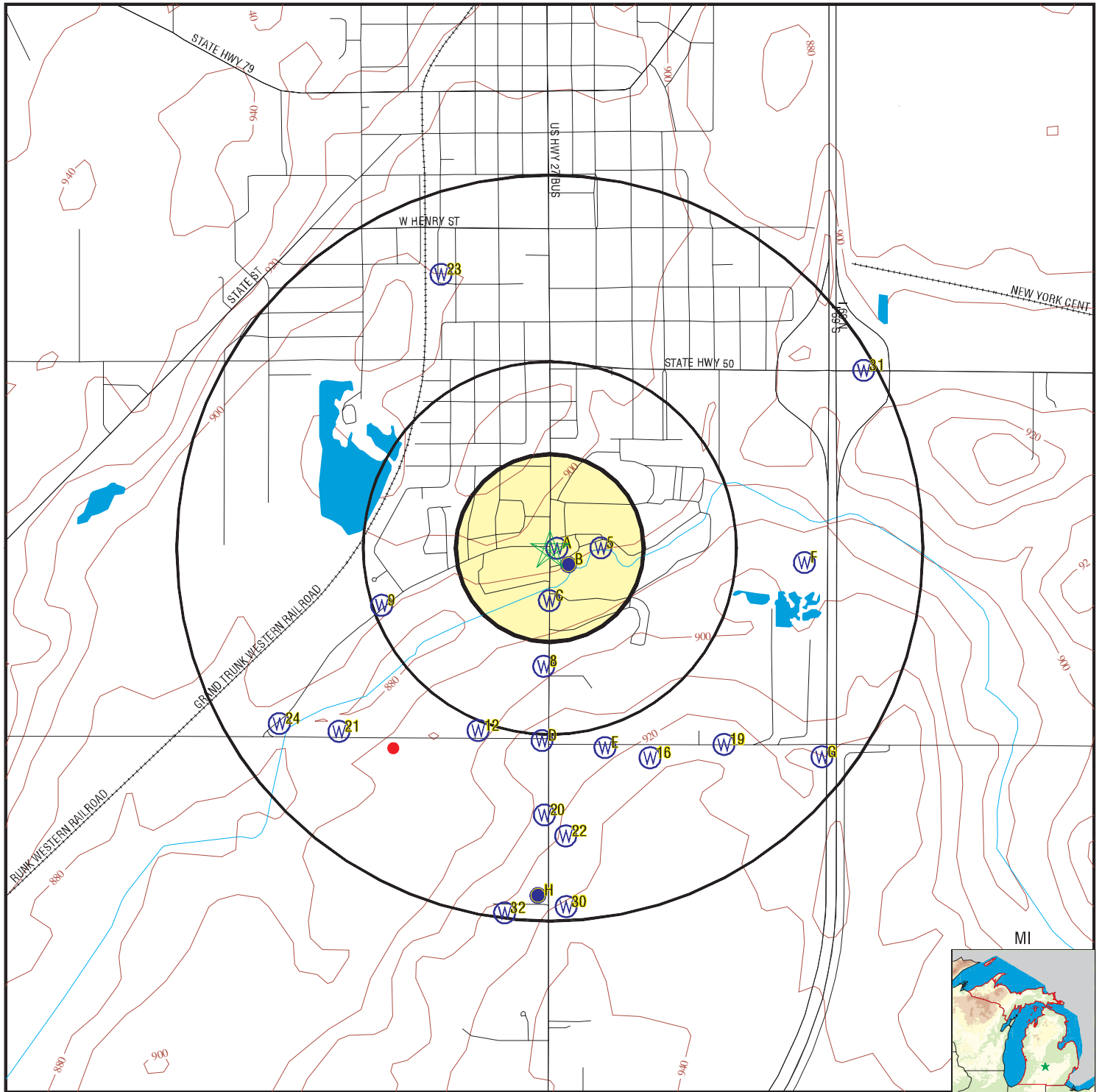
STATE OIL/GAS WELL INFORMATION

DISTANCE
FROM TP (Miles)

1/2 - 1 Mile SW

DISTANCE
FROM TP (Miles)

PHYSICAL SETTING SOURCE MAP - 1461870.2s



- 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
- Closest Hydrogeological Data
- Oil, gas or related wells

TARGET PROPERTY: Charlotte Armory
 ADDRESS: 1310 South Cochran Street
 CITY/STATE/ZIP: Charlotte MI 48813
 LAT/LONG: 42.5462 / 84.8358

CUSTOMER: Altech Env.
 CONTACT: Manasi Koushik
 INQUIRY #: 1461870.2s
 DATE: July 08, 2005 1:42 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A1
North
0 - 1/8 Mile
Higher

MI WELLS MI00092231

Wellid:	23000007993	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	CITY OF CHARLOTTE	Well addr:	1311 COCHRAN ROAD
Well depth:	96		
Well type:	Type I public		
Wssn:	1340		
Well num:	Not Reported	Driller id:	1686
Const date:	2001-12-12 00:00:00.000	Case type:	Steel-black
Case dia:	30		
Case depth:	54		
Screen frm:	66		
Screen to:	96		
Swl:	21		
Test depth:	38.27		
Test hours:	72		
Test rate:	1507	Test methd:	Test Pump
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.54659379		
Longitude:	-84.83579674		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	Not Reported		
Wellid:	23000007993	Seqno:	1
Primlith:	Topsoil	Lithmod:	Not Reported
Depth:	6		
Thickness:	6		
Aqtype:	D	Class:	NA
Effect:	0		

A2
SE
0 - 1/8 Mile
Lower

MI WELLS MI00092066

Wellid:	23000000052	Import id:	23020419302
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	CITY OF CHARLOTTE	Well addr:	CHARLOTTE WELL #3
Well depth:	95.5		
Well type:	Type I public		
Wssn:	1340		
Well num:	CHARLOTTE WELL #3	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	50		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	18		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was not grouted	Pmp cpcity:	0
Latitude:	42.5457935566		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -84.8350440937
Methd coll: Interpolation-Map
Elevation: 892
Elev methd: Topographoc Map Interpolation

Wellid:	23000000052	Seqno:	1
Primlith:	Sand Gravel Clay	Lithmod:	W/Silt
Depth:	95.5		
Thickness:	95.5		
Aqtype:	D	Class:	MAQ
Effect:	0		

B3
SE
0 - 1/8 Mile
Lower

MI WELLS **MI00092000**

Wellid:	23000000053	Import id:	23020419303
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	CITY OF CHARLOTTE	Well addr:	CHARLOTTE WELL #1
Well depth:	93.5		
Well type:	Type I public		
Wssn:	1340		
Well num:	CHARLOTTE WELL #1	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	50		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	17		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was not grouted	Pmp cpcity:	0
Latitude:	42.5455353826		
Longitude:	-84.8349036717		
Methd coll:	Interpolation-Map		
Elevation:	890		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000000053	Seqno:	1
Primlith:	Sand Gravel Clay	Lithmod:	W/Silt
Depth:	93.5		
Thickness:	93.5		
Aqtype:	D	Class:	MAQ
Effect:	0		

B4
SE
0 - 1/8 Mile
Lower

FED USGS **USGS2318223**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	423244084500501
Site name:	02N 04W 19CBBC 01		
Latitude:	423244		
Longitude:	0845005	Dec lat:	42.54559247
Dec lon:	-84.83470977	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	26
State:	26	County:	045
Country:	US	Land net:	S19T02NR04WM
Location map:	Not Reported	Map scale:	Not Reported
Altitude:	890	Altitude method:	M
Altitude accuracy:	5.	Altitude datum:	NGVD29
Hydrologic:	Kalamazoo. Michigan. Area = 2030 sq.mi.		
Topographic:	Not Reported		
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:	25.0	Hole depth:	Not Reported
Source of depth data:	Not Reported	Project number:	440013100
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:	1959-04-10
Water quality data end date:	1986-07-08	Water quality data count:	2
Ground water data begin date:	1947-03-01	Ground water data end date:	1947-03-01
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1947-03-01	15.00	

5
East
1/8 - 1/4 Mile
Lower

MI WELLS MI00092159

Wellid:	23000000051	Import id:	23020419301
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	CITY OF CHARLOTTE	Well addr:	CHARLOTTE WELL #5
Well depth:	114		
Well type:	Type I public		
Wssn:	1340		
Well num:	CHARLOTTE WELL #5	Driller id:	1997
Const date:	1971-11-05 00:00:00.000	Case type:	Unknown
Case dia:	36		
Case depth:	60		
Screen frm:	92		
Screen to:	112		
Swl:	20.5		
Test depth:	36		
Test hours:	24		
Test rate:	3511	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5462102714		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -84.8331096486
Methd coll: Interpolation-Map
Elevation: 889
Elev methd: Topographoc Map Interpolation

Wellid:	23000000051	Seqno:	1
Primlith:	Sand & Gravel	Lithmod:	Not Reported
Depth:	22		
Thickness:	22		
Aqtype:	D	Class:	AQ
Effect:	0		

C6 South 1/8 - 1/4 Mile Lower

MI WELLS MI00091695

Wellid:	23000007512	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	6
Owner name:	Central Michigan Builders	Well addr:	1500 N. Cochran
Well depth:	180		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2227
Const date:	2001-09-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	98		
Screen frm:	0		
Screen to:	0		
Swl:	7		
Test depth:	180		
Test hours:	0		
Test rate:	15	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	12
Latitude:	42.54415728		
Longitude:	-84.83581181		
Methd coll:	Address Matching-House Number		
Elevation:	892		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000007512	Seqno:	2
Primlith:	Clay & Gravel	Lithmod:	Not Reported
Depth:	55		
Thickness:	35		
Aqtype:	D	Class:	PCM
Effect:	0		

C7 South 1/8 - 1/4 Mile Lower

MI WELLS MI00091696

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000007898	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	6
Owner name:	CENTRAL MICHIGAN BUILDERS	Well addr:	1500 N COCHRAN
Well depth:	180		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2227
Const date:	2001-09-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	98		
Screen frm:	0		
Screen to:	0		
Swl:	7		
Test depth:	180		
Test hours:	0		
Test rate:	20	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	12
Latitude:	42.54415728		
Longitude:	-84.83581181		
Methd coll:	Address Matching-House Number		
Elevation:	892		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000007898	Seqno:	1
Primlith:	Sand & Clay	Lithmod:	Not Reported
Depth:	20		
Thickness:	20		
Aqtype:	D	Class:	PCM
Effect:	0		

8
South
1/4 - 1/2 Mile
Higher

MI WELLS MI00091245

Wellid:	23000007087	Import id:	Not Reported
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	1
Owner name:	MIKE BUMSTEAD	Well addr:	1871 N COCHRAN RD
Well depth:	50		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2287
Const date:	2000-04-19 10:42:17.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	42		
Screen frm:	42		
Screen to:	50		
Swl:	16		
Test depth:	0		
Test hours:	0		
Test rate:	20	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.54160939		
Longitude:	-84.83610722		
Methd coll:	Address Matching-House Number		
Elevation:	899		
Elev methd:	Topographoc Map Interpolation		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000007087	Seqno:	3
Primlith:	Sand	Lithmod:	Not Reported
Depth:	50		
Thickness:	20		
Aqtype:	D	Class:	AQ
Effect:	0		

9

WSW

1/4 - 1/2 Mile
Lower

MI WELLS

MI00091666

Wellid:	23000007469	Import id:	Not Reported
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	24
Owner name:	Duane Tirrell	Well addr:	700 Tirrell Road
Well depth:	160		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2287
Const date:	2000-08-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	80		
Screen frm:	0		
Screen to:	0		
Swl:	9		
Test depth:	0		
Test hours:	0		
Test rate:	25	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.54398003		
Longitude:	-84.84461954		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	Not Reported		

Wellid:	23000007469	Seqno:	1
Primlith:	Topsoil	Lithmod:	Not Reported
Depth:	2		
Thickness:	2		
Aqtype:	D	Class:	NA
Effect:	0		

D10

South

1/4 - 1/2 Mile
Higher

MI WELLS

MI00090828

Wellid:	23000008528	Import id:	Not Reported
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	24
Owner name:	ERNEST WOOFER	Well addr:	200 WEST KALAMO HWY
Well depth:	68		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2287
Const date:	2003-04-23 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	60		
Screen frm:	60		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Screen to:	68		
Swl:	17		
Test depth:	20		
Test hours:	.5		
Test rate:	35	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.53909812		
Longitude:	-84.83642572		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	Not Reported		
Wellid:	23000008528	Seqno:	1
Primlith:	Clay	Lithmod:	Not Reported
Depth:	5		
Thickness:	5		
Aqtype:	D	Class:	CM
Effect:	0		

D11 South 1/2 - 1 Mile Higher

MI WELLS MI00090758

Wellid:	23000008372	Import id:	Not Reported
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	25
Owner name:	LEON WELLS	Well addr:	2342 SOUTH COCHRAN ROAD
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2287
Const date:	2003-01-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	53		
Screen frm:	0		
Screen to:	0		
Swl:	27		
Test depth:	32		
Test hours:	.5		
Test rate:	20	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.53882604		
Longitude:	-84.8358905		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	Not Reported		
Wellid:	23000008372	Seqno:	2
Primlith:	Sand	Lithmod:	Not Reported
Depth:	24		
Thickness:	13		
Aqtype:	D	Class:	AQ
Effect:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

12
SSW
1/2 - 1 Mile
Higher

MI WELLS MI00090831

Wellid:	23000003229	Import id:	23020524004
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	24
Owner name:	BRIAN STULTS	Well addr:	250 W KALAMO
Well depth:	96		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1993-06-28 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	92		
Screen frm:	92		
Screen to:	96		
Swl:	10		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5391149821		
Longitude:	-84.8395537412		
Methd coll:	Interpolation-Map		
Elevation:	895		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000003229	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	96		
Thickness:	96		
Aqtype:	U	Class:	NA
Effect:	0		

D13
South
1/2 - 1 Mile
Higher

MI WELLS MI00090584

Wellid:	23000003240	Import id:	23020525009
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	25
Owner name:	DONNA FLEMING	Well addr:	2012 S COCHRAN
Well depth:	240		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2064
Const date:	1993-06-28 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	97		
Screen frm:	0		
Screen to:	0		
Swl:	38		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5382445162		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -84.83628333
Methd coll: Interpolation-Map
Elevation: 914
Elev methd: Topographoc Map Interpolation

Wellid:	23000003240	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	240		
Thickness:	240		
Aqtype:	U	Class:	NA
Effect:	0		

E14 SSE 1/2 - 1 Mile Higher

MI WELLS MI00090694

Wellid:	23000008009	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	MONTGOMERY BUILDER	Well addr:	301 E KALAMO HWY.
Well depth:	160		
Well type:	Type II public		
Wssn:	2027323		
Well num:	001	Driller id:	1077
Const date:	2002-09-18 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	40		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	160		
Test hours:	1		
Test rate:	60	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	50
Latitude:	42.53858388		
Longitude:	-84.83229171		
Methd coll:	Address Matching-House Number		
Elevation:	902		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000008009	Seqno:	2
Primlith:	Sand	Lithmod:	Not Reported
Depth:	35		
Thickness:	5		
Aqtype:	D	Class:	AQ
Effect:	0		

E15 SSE 1/2 - 1 Mile Higher

MI WELLS MI00090603

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000002808	Import id:	23020430007
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	62 E KALAMO HWY
Well depth:	90		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1974-06-30 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	54		
Screen frm:	0		
Screen to:	0		
Swl:	28		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5383176893		
Longitude:	-84.8334955209		
Methd coll:	Interpolation-Map		
Elevation:	920		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000002808	Seqno:	1
Primlith:	Clay	Lithmod:	Not Reported
Depth:	9		
Thickness:	9		
Aqtype:	D	Class:	CM
Effect:	0		

**16
SSE
1/2 - 1 Mile
Higher**

MI WELLS MI00090531

Wellid:	23000002806	Import id:	23020430005
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	KALAMO HWY
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1978-08-31 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	36		
Screen frm:	0		
Screen to:	0		
Swl:	23		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5380562947		
Longitude:	-84.8305250774		
Methd coll:	Interpolation-Map		
Elevation:	920		
Elev methd:	Topographoc Map Interpolation		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000002806	Seqno:	2
Primlith:	Clay	Lithmod:	Not Reported
Depth:	31		
Thickness:	21		
Aqtype:	D	Class:	CM
Effect:	0		

F17
East
1/2 - 1 Mile
Higher

MI WELLS MI00092062

Wellid:	23000002580	Import id:	23020419002
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	Not Reported	Well addr:	Not Reported
Well depth:	100		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1971-09-30 00:00:00.000	Case type:	Unknown
Case dia:	6		
Case depth:	40		
Screen frm:	0		
Screen to:	0		
Swl:	30		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5457731734		
Longitude:	-84.8227938403		
Methd coll:	Interpolation-Map		
Elevation:	900		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000002580	Seqno:	2
Primlith:	Sandstone	Lithmod:	Not Reported
Depth:	100		
Thickness:	72		
Aqtype:	R	Class:	AQ
Effect:	0		

F18
East
1/2 - 1 Mile
Higher

MI WELLS MI00091992

Wellid:	23000002579	Import id:	23020419001
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	Not Reported	Well addr:	Not Reported
Well depth:	100		
Well type:	*U		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1970-08-31 00:00:00.000	Case type:	Unknown
Case dia:	6		
Case depth:	26		
Screen frm:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Screen to:	0		
Swl:	10		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	130
Latitude:	42.5455019645		
Longitude:	-84.8220495339		
Methd coll:	Interpolation-Map		
Elevation:	900		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000002579	Seqno:	1
Primlith:	Sand & Clay	Lithmod:	Not Reported
Depth:	25		
Thickness:	25		
Aqtype:	D	Class:	PCM
Effect:	0		

**19
SE
1/2 - 1 Mile
Higher**

MI WELLS MI00090687

Wellid:	23000009071	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	ROBERT CONVERSE	Well addr:	625 EAST KALAMO HWY
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1077
Const date:	2004-04-26 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	60		
Screen frm:	0		
Screen to:	0		
Swl:	30		
Test depth:	140		
Test hours:	1		
Test rate:	50	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	25
Latitude:	42.538574		
Longitude:	-84.826644		
Methd coll:	Address Matching-House Number		
Elevation:	902		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000009071	Seqno:	1
Primlith:	Gravel	Lithmod:	Not Reported
Depth:	20		
Thickness:	20		
Aqtype:	D	Class:	AQ
Effect:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

20
South
1/2 - 1 Mile
Higher

MI WELLS MI00090113

Wellid:	23000003238	Import id:	23020525007
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	25
Owner name:	Not Reported	Well addr:	S OF KAL ON COCHRAN W
Well depth:	78		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	218
Const date:	1969-05-26 00:00:00.000	Case type:	Unknown
Case dia:	-1		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	25		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	4
Latitude:	42.5358366773		
Longitude:	-84.8360728007		
Methd coll:	Interpolation-Map		
Elevation:	910		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000003238	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	78		
Thickness:	78		
Aqtype:	U	Class:	NA
Effect:	0		

21
SW
1/2 - 1 Mile
Lower

MI WELLS MI00090821

Wellid:	23000003226	Import id:	23020524001
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	24
Owner name:	Not Reported	Well addr:	W OF BUS27 ON KALAMO N
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1969-06-30 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	54		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5390814113		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -84.8468594304
Methd coll: Interpolation-Map
Elevation: 882
Elev methd: Topographoc Map Interpolation

Wellid:	23000003226	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	100		
Thickness:	100		
Aqtype:	U	Class:	NA
Effect:	0		

22
South
1/2 - 1 Mile
Higher

MI WELLS MI00089978

Wellid:	23000002809	Import id:	23020430008
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	COCHRAN RD
Well depth:	160		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	776
Const date:	1973-09-14 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	72		
Screen frm:	0		
Screen to:	0		
Swl:	21		
Test depth:	50		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5350183967		
Longitude:	-84.8349531192		
Methd coll:	Interpolation-Map		
Elevation:	920		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000002809	Seqno:	2
Primlith:	Sandstone	Lithmod:	W/Shale
Depth:	63		
Thickness:	32		
Aqtype:	R	Class:	AQ
Effect:	1		

23
NNW
1/2 - 1 Mile
Higher

MI WELLS MI00094450

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000003046	Import id:	23020513004
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	13
Owner name:	VIRGIL DAVIS	Well addr:	Not Reported
Well depth:	95		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1077
Const date:	1977-06-29 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	72		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	95		
Test hours:	1		
Test rate:	50	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5568321142		
Longitude:	-84.8415016416		
Methd coll:	L1		
Elevation:	902		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000003046	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	95		
Thickness:	95		
Aqtype:	U	Class:	NA
Effect:	0		

24
WSW
1/2 - 1 Mile
Lower

MI WELLS MI00090893

Wellid:	23000003228	Import id:	23020524003
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	24
Owner name:	DANIEL TURNER	Well addr:	Not Reported
Well depth:	45		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1791
Const date:	1992-07-27 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	40		
Screen frm:	41		
Screen to:	45		
Swl:	19		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5393850385		
Longitude:	-84.8499897488		
Methd coll:	L1		
Elevation:	0		
Elev methd:	Topographoc Map Interpolation		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000003228	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	45		
Thickness:	45		
Aqtype:	U	Class:	NA
Effect:	0		

G25 SE 1/2 - 1 Mile Higher

MI WELLS MI00090539

Wellid:	23000002803	Import id:	23020430002
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	E KALAMO HWY
Well depth:	90		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1978-10-31 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	42		
Screen frm:	0		
Screen to:	0		
Swl:	28		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5380932449		
Longitude:	-84.8219913826		
Methd coll:	Interpolation-Map		
Elevation:	915		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000002803	Seqno:	1
Primlith:	Clay	Lithmod:	Not Reported
Depth:	19		
Thickness:	19		
Aqtype:	D	Class:	CM
Effect:	0		

G26 SE 1/2 - 1 Mile Higher

MI WELLS MI00090540

Wellid:	23000002804	Import id:	23020430003
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	KALAMO HWY
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1971-04-30 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	54		
Screen frm:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Screen to:	0		
Swl:	20		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5380948369		
Longitude:	-84.8216203522		
Methd coll:	Interpolation-Map		
Elevation:	925		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000002804	Seqno:	1
Primlith:	Clay	Lithmod:	Not Reported
Depth:	10		
Thickness:	10		
Aqtype:	D	Class:	CM
Effect:	0		

H27
South
1/2 - 1 Mile
Higher

FED USGS USGS2318212

Agency cd:	USGS	Site no:	423158084501101
Site name:	02N 05W 25ADDA 01		
Latitude:	423158	Dec lat:	42.53281481
Longitude:	0845011	Coor meth:	M
Dec lon:	-84.83637634	Latlong datum:	NAD27
Coor accr:	F	District:	26
Dec latlong datum:	NAD83	County:	045
State:	26	Land net:	S25T02NR05WM
Country:	US	Map scale:	Not Reported
Location map:	Not Reported	Altitude method:	M
Altitude:	930	Altitude datum:	NGVD29
Altitude accuracy:	5.		
Hydrologic:	Kalamazoo. Michigan. Area = 2030 sq.mi.		
Topographic:	Undulating		
Site type:	Ground-water other than Spring	Date construction:	19550101
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:	SAGINAW FORMATION		
Well depth:	95.0	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:	1967-10-19
Water quality data end date:	1967-10-19	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

H28
South
1/2 - 1 Mile
Higher

MI WELLS MI00089569

Wellid:	23000003239	Import id:	23020525008
County:	Eaton	Township:	Carmel
Town range:	02N 05W	Section:	25
Owner name:	MIKE SHILLING	Well addr:	Not Reported
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1612
Const date:	1988-07-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	55		
Screen frm:	0		
Screen to:	0		
Swl:	24		
Test depth:	0		
Test hours:	0		
Test rate:	30	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5326123274		
Longitude:	-84.8364553628		
Methd coll:	L1		
Elevation:	925		
Elev methd:	Topographoc Map Interpolation		
Wellid:	23000003239	Seqno:	1
Primlith:	See Comments	Lithmod:	Not Reported
Depth:	80		
Thickness:	80		
Aqtype:	U	Class:	NA
Effect:	0		

G29
SE
1/2 - 1 Mile
Higher

MI WELLS MI00090542

Wellid:	23000002802	Import id:	23020430001
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	KALAMO HWY
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1973-09-30 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	42		
Screen frm:	0		
Screen to:	0		
Swl:	23		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5380980173		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Longitude: -84.8208782912
Methd coll: Interpolation-Map
Elevation: 920
Elev methd: Topographoc Map Interpolation

Wellid:	23000002802	Seqno:	2
Primlith:	Sand & Clay	Lithmod:	Not Reported
Depth:	40		
Thickness:	13		
Aqtype:	D	Class:	PCM
Effect:	0		

30 South 1/2 - 1 Mile Higher

MI WELLS MI00089513

Wellid:	23000002807	Import id:	23020430006
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	30
Owner name:	Not Reported	Well addr:	2283 S COCHRAN RD
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	107
Const date:	1976-04-30 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	48		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	0
Latitude:	42.5322744273		
Longitude:	-84.8349310151		
Methd coll:	Interpolation-Map		
Elevation:	930		
Elev methd:	Topographoc Map Interpolation		

Wellid:	23000002807	Seqno:	2
Primlith:	Sand & Clay	Lithmod:	Not Reported
Depth:	33		
Thickness:	21		
Aqtype:	D	Class:	PCM
Effect:	0		

31 ENE 1/2 - 1 Mile Higher

MI WELLS MI00093477

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	23000007665	Import id:	Not Reported
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	20
Owner name:	Charlotte Assembly of God	Well addr:	1072 E Clinton Trail
Well depth:	69		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2287
Const date:	2000-10-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	38		
Screen frm:	0		
Screen to:	0		
Swl:	18		
Test depth:	0		
Test hours:	0		
Test rate:	25	Test methd:	Air
Grout:	Was grouted	Pmp cpcity:	10
Latitude:	42.5531054		
Longitude:	-84.8193084		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	Not Reported		
Wellid:	23000007665	Seqno:	2
Primlith:	Clay	Lithmod:	Not Reported
Depth:	30		
Thickness:	3		
Aqtype:	D	Class:	CM
Effect:	0		

32 South 1/2 - 1 Mile Higher

MI WELLS MI00089483

Wellid:	23000000054	Import id:	23020419408
County:	Eaton	Township:	Eaton
Town range:	02N 04W	Section:	19
Owner name:	CHARLOTTE CHURCH OF CHRIST	Well addr:	Not Reported
Well depth:	84		
Well type:	Type II public		
Wssn:	2020023		
Well num:	001	Driller id:	1612
Const date:	1986-02-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	45		
Screen frm:	0		
Screen to:	0		
Swl:	20		
Test depth:	0		
Test hours:	0		
Test rate:	40	Test methd:	Unknown
Grout:	Was grouted	Pmp cpcity:	18
Latitude:	42.532029		
Longitude:	-84.838162		
Methd coll:	GPS Code Measurement Differential (DGPS)		
Elevation:	922		
Elev methd:	Topographoc Map Interpolation		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	230000000054	Seqno:	1
Primlith:	Sand & Gravel	Lithmod:	Not Reported
Depth:	30		
Thickness:	30		
Aqtype:	D	Class:	AQ
Effect:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction
Distance

Database EDR ID Number

SW
1/2 - 1 Mile

OIL_GAS 0000041125

API Well No:	21045395070000		
Permit No:	39507		
Permit Date:	10/28/1985		
Slant:	D	County:	EATON
BH County:	EATON	Township:	CARMEL
Tier:	2	N/S Direction:	N
Range:	5	E/W Direction:	W
Section:	25	10-acre Fraction:	NW
40-acre Fraction:	NW	160-acre Fraction:	NE
Lease Name:	FULLERTON	Well No:	1-24
Permitted Owner:	MOSBACHER ENERGY CO		
Surface Owner:	TERRELL, JACK & MARION		
Elevation:	1001	Depth:	3973
Formation:	G NGRN	State Land:	NO
Federal Land:	NO	Well type:	Dry Hole
Well Status:	Plugging Approved	Surface X Coord:	1862501.910
Surface Y Coord:	379411.050	Bottom X Coord:	1862358.000
Bottom Y Coord:	378838.000	MGR Surface X Coord:	594811.578
MGR Surface Y Coord:	221537.255	MGR Bottom X Coord:	594854.020
MGR Bottom Y Coord:	221719.417		
Description:	Dry Hole		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Test Type	Zip	Floor	Stop Date	Can 1 Res pCi/L	Can 1 Error	Can 2 Res pCi/L	Can 2 Error
Geographic	48813		4/8/88	3.2	9.7%		
Random	48813	0	2/19/88	1.8	11.4%		
Random	48813	0	2/17/88	3.1	7.4%		
Random	48813	0	1/10/88	5.9	4.3%		
Random	48813	1	12/31/87	8.9	4.3%		
Random	48813	0	12/1/87	13.8	5.8%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48813		4.30
48813		7.30
48813		1.50
48813		3.80
48813		1.20
48813		35.30
48813		5.50
48813		2.30
48813		3.90
48813		3.90
48813		3.30
48813		2.50
48813		5.40
48813		1.40
48813		3.20
48813		2.60
48813		2.40
48813		2.00
48813		4.10
48813		3.10
48813		0.70
48813		3.30
48813		6.40
48813	<	0.30
48813	<	0.30
48813		5.50
48813		1.00
48813		3.20
48813		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	0.60
48813	2.00
48813	3.10
48813	3.90
48813	3.60
48813	4.10
48813	4.40
48813	4.80
48813	2.30
48813	1.30
48813	4.40
48813	4.10
48813	2.40
48813	11.00
48813	4.40
48813	4.40
48813	5.20
48813	23.60
48813	2.00
48813	2.20
48813	6.10
48813	0.90
48813	3.20
48813	3.40
48813	< 0.30
48813	0.70
48813	3.10
48813	1.50
48813	1.40
48813	1.50
48813	21.70
48813	4.60
48813	5.30
48813	4.20
48813	3.80
48813	9.40
48813	10.90
48813	5.60
48813	8.40
48813	7.50
48813	4.40
48813	4.20
48813	13.10
48813	7.50
48813	8.40
48813	< 0.30
48813	2.10
48813	0.60
48813	2.40
48813	1.90
48813	6.00
48813	6.10
48813	9.70
48813	7.00
48813	10.40
48813	< 0.30
48813	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

		5.00
48813		4.40
48813		4.50
48813		4.80
48813		5.80
48813	<	0.30
48813		2.30
48813		7.50
48813		1.40
48813		7.70
48813		0.70
48813		0.80
48813		4.10
48813		6.80
48813		12.30
48813		8.00
48813		3.70
48813		4.10
48813		17.10
48813		0.80
48813		2.20
48813		1.50
48813		1.10
48813		0.10
48813		0.90
48813		0.30
48813		0.10
48813		6.40
48813		1.20
48813		0.90
48813		1.70
48813		1.30
48813		0.20
48813		3.10
48813		6.50
48813		6.90
48813		3.20
48813		1.10
48813		5.10
48813		0.60
48813		0.90
48813		3.40
48813		2.70
48813		4.10
48813		3.90
48813	<	0.30
48813		2.40
48813		2.00
48813		2.30
48813		2.40
48813		1.00
48813		2.30
48813		14.30
48813		6.10
48813		2.90
48813		2.00
48813		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	5.30
48813	2.20
48813	15.50
48813	45.80
48813	40.00
48813	5.70
48813	20.90
48813	2.00
48813	5.60
48813	3.10
48813	35.90
48813	1.60
48813	7.00
48813	4.10
48813	3.00
48813	4.00
48813	2.10
48813	3.40
48813	11.70
48813	4.30
48813	3.10
48813	8.70
48813	3.00
48813	4.90
48813	4.00
48813	4.50
48813	2.60
48813	3.10
48813	6.20
48813	3.90
48813	5.00
48813	6.20
48813	6.70
48813	6.30
48813	4.50
48813	2.40
48813	6.20
48813	1.20
48813	2.90
48813	4.50
48813	2.10
48813	< 0.30
48813	12.10
48813	< 0.30
48813	6.30
48813	2.70
48813	4.30
48813	3.30
48813	4.30
48813	5.50
48813	1.00
48813	5.80
48813	8.80
48813	3.00
48813	13.20
48813	4.70
48813	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	9.60
48813	7.70
48813	2.00
48813	5.80
48813	2.20
48813	3.20
48813	0.80
48813	8.40
48813	3.10
48813	11.10
48813	4.60
48813	2.70
48813	1.10
48813	2.90
48813	4.80
48813	6.80
48813	5.00
48813	15.10
48813	3.50
48813	1.70
48813	1.10
48813	3.90
48813	1.80
48813	0.40
48813	2.70
48813	6.20
48813	0.80
48813	0.30
48813	2.80
48813	1.70
48813	3.20
48813	6.00
48813	5.70
48813	2.90
48813	13.50

Federal EPA Radon Zone for EATON County: 2

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: 48813

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	8.900 pCi/L	0%	100%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	6.150 pCi/L	50%	50%	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. 7.5-Minute DEMs correspond to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 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 from the U.S. Fish and Wildlife Service.

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.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality, Drinking Water and Radiological Protection Division
Telephone: 517-335-9218

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources
Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality
Telephone: 517-335-9551
Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality
Telephone: 517-335-8037
These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

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

APPENDIX J

WATER WELL RECORDS

**DEQ MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER & RADIOLOGICAL PROTECTION DIVISION**

WATER WELL AND PUMP RECORD

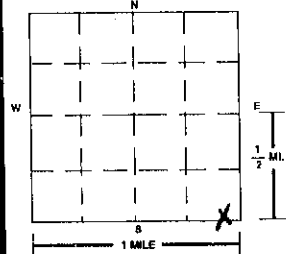
Completion is required under authority of Part 127 Act 368 PA 1978
Failure to comply is a misdemeanor

TAX NO:					PERMIT NO: 11429
1. LOCATION OF WELL	Township Name EATON	Fraction SE 1/4 SE 1/4 SE 1/4	Section No. 24	Town No. 2N	Range No. 3W

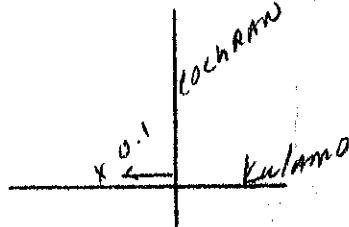
Distance and Direction from Road Intersection
**0.1 mile west of COCHRAN RD, on
THE SOUTH NORTH SIDE OF KALAMOO.**

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand & gravel	27	27
gravel	20	47
sand	31	78
shale, sandrock, lime	48	126
lime, white sandrock	28	154
gray sandrock, lime, shale	69	223

3. OWNER OF WELL

Address **Dan Martin**
Kalamoo Hwy.
Charlotte
Address Same as Well Location ☒ Yes ☐ No

4. WELL DEPTH:

223 ft. Date Completed **10-8-98** ☒ New Well ☐ Replacement Well

5. ☐ Cable Tool ☒ Rotary ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Auger/Bored ☐ Jetted ☐

6. USE: ☒ Household ☐ Type I Public ☐ Type III Public
☐ Irrigation ☐ Type IIa Public ☐ Heat Pump
☐ Test Well ☐ Type IIb Public ☐

7. CASING:

☐ Steel ☐ Threaded ☒ Plastic ☐ Welded
☐ Other

Diameter: **5** in. to **106** ft. depth
Weight: _____ lbs./ft.

BORE HOLE: Diameter: **7 3/8** in. to **106** ft. depth
☐ Drive Shoe ☒ Shale Packer

8. SCREEN: ☒ Not Installed ☐ Gravel-Packed

Type _____ Diameter _____
Slot/Gauze _____ Length: _____
Set Between _____ ft. and _____ ft.
FITTINGS: ☐ K-Packer ☐ Bremer Check
☐ Blank Above Screen _____ ft. Other _____

9. STATIC WATER LEVEL:

27 ft. Below Land Surface ☐ Flowing

10. PUMPING LEVEL: Below Land Surface

223 ft. After **3** hrs. Pumping at **50** G.P.M.
☐ Plunger ☐ Bailor ☒ Air ☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter ☒ 12" Above Grade
☐ Basement Offset ☐ Well House

12. WELL GROUTED? ☐ No ☒ Yes From **0** to **106** ft.

☐ Neat Cement ☐ Bentonite ☒ Other **ABT**
No. of Bags **11** Additives _____

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type **SEPTIC** Distance **75** ft. Direction _____
Type _____ Distance _____ ft. Direction _____

14. PUMP: ☐ Not Installed ☐ Pump Installation Only

Manufacturer's Name **McDonald**
Model Number _____ HP **2** Volts **230**
Length of Drop Pipe **45** ft. Capacity **10** G.P.M.
TYPE: ☒ Submersible ☐ Jet ☐ Other _____

PRESSURE TANK:

Manufacturer's Name **Well X-Trol**
Model Number **203** Capacity _____ Gallons

15. ABANDONED WELL PLUGGED? ☐ Yes ☐ No

Casing Diameter _____ in. Depth _____ ft.
PLUGGING MATERIAL: ☐ Neat Cement ☐ Bentonite Slurry
☐ Cement/Bentonite Slurry ☐ Concrete Grout ☐ Bentonite Chips
No. of Bags _____ Casing Removed? ☐ Yes ☐ No

16. REMARKS: (Elevation, Source of Data, etc.)

17. DRILLING MACHINE OPERATOR:

☐ Employee ☐ Subcontractor
Name **Terry**

18. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Terry's Well Service 23-2033
REGISTERED BUSINESS NAME _____ REGISTRATION NO. _____
Address **2120 Ballouway Hwy Oliver**
Signed **Terry Cords** Date **10-14-98**
AUTHORIZED REPRESENTATIVE

OCT 22 1998

**BARRY-EATON DIST.
HEALTH DEPT.
CHARLOTTE**

TAX NO:

MICHIGAN DEPARTMENT OF PUBLIC HEALTH WATER WELL AND PUMP RECORD

PERMIT NO:

42401

1. LOCATION OF WELL

County

EATON

Township Name

CARMEL

Fraction

NE 1/4 NW 1/4 NE 1/4

Section No.

24

Town No.

2N

Range No.

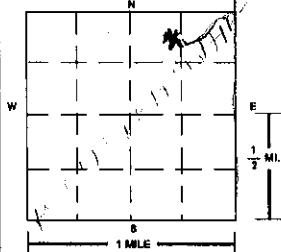
5W

Distance and Direction from Road Intersection

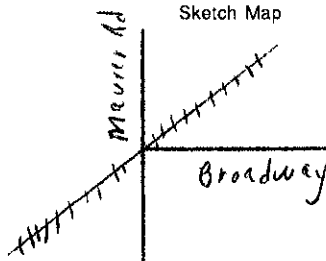
MAURER RD. JUST S & W OF BROADWAY HWY

Street Address & City of Well Location

Locate with 'x' in Section Below



Sketch Map



2. FORMATION DESCRIPTION

THICKNESS
OF
STRATUMDEPTH TO
BOTTOM OF
STRATUM

CLAY

26

26

GRAVEL

9

35

GREY CLAY

29

64

SAND

10

74

GREY CLAY

6

80

SHALE AND SANDROCK

3

83

SANDROCK

12

95

3. OWNER OF WELL

Address

HOWARD CONST.

1296 ISLAND HWY CHARLOTTE, MI. 48813

Address Same as Well Location ☐ Yes ☒ No

4. WELL DEPTH:

Date Completed

☒ New Well☐ Replacement Well

95

ft.

2 / 12 / 96

5. ☐ Cable Tool☒ Rotary☐ Driven☐ Dug☐ Hollow Rod☐ Auger/Bored☐ Jetted☐

6. USE:

☒ Household☐ Type I Public☐ Type III Public☐ Irrigation☐ Type IIa Public☐ Heat Pump☐ Test Well☐ Type IIb Public☐

7. CASING:

☐ Steel☐ Threaded☒ Plastic☒ Welded☐ OtherHeight: Above/Below
Surface: 1 ftDiameter: 5 in. to 83 ft. depth
in. to ft. depth

Weight: SDR 21 lbs./ft.

BORE HOLE:

Diameter: 8 in. to 83 ft. depth
in. to ft. depth☐ Drive Shoe☐ Shale Packer8. SCREEN: ☒ Not Installed ☐ Gravel-Packed

Type

Diameter

Slot/Gauze

Length

Set Between

ft. and

ft.

FITTINGS:

☐ K-Packer☐ Bremer Check☐ Blank Above Screen

ft. Other

9. STATIC WATER LEVEL:

11 ft. Below Land Surface

☐ Flowing

10. PUMPING LEVEL: Below Land Surface

ft. After

hrs. Pumping at

G.P.M.

☐ Plunger☐ Bailor☒ Air☐ Test Pump

11. WELL HEAD COMPLETION:

☒ Pitless Adapter☐ 12" Above Grade☐ Basement Offset☐ Well House

12. WELL GROUTED?

☐ No☒ Yes

From 0 to 83 ft.

☐ Neat Cement☒ Bentonite☐ Other

No. of Bags 4

Additives

13. NEAREST SOURCE OF POSSIBLE CONTAMINATION:

Type SEPTIC

Distance 70+

ft. Direction

NE

Type

Distance

ft. Direction

USE A 2ND SHEET IF NEEDED

15. ABANDONED WELL PLUGGED?

☐ Yes ☐ No

Casing Diameter in.

Depth ft.

PLUGGING MATERIAL:

☐ Neat Cement☐ Bentonite Slurry☐ Cement/Bentonite Slurry☐ Concrete Grout☐ Bentonite Chips

No. of Bags

Casing Removed?

☐ Yes ☐ No

REMARKS: (Elevation, Source of Data, etc.)

14. PUMP:

☐ Not Installed☐ Pump Installation Only

Manufacturer's Name

RED JACKET

Model Number

HP 1

Volts 220

Length of Drop Pipe

30

ft. Capacity

10

G.P.M.

TYPE:

☒ Submersible☐ Jet☐ Other

PRESSURE TANK:

Manufacturer's Name

202 UG XTROL

Model Number

Capacity

Gallons

15. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

CHAS. KLEINFELT & SON 0107

REGISTERED BUSINESS NAME

REGISTRATION NO.

Address 3402 W 5PT. HWY. CHARLOTTE, MI. 48813

Signed

Lynnwood Bracy

AUTHORIZED REPRESENTATIVE

Date 2/12/96

MACHINE OPERATOR:

☐ Subcontractor

Kleinfelt

GEOLOGICAL SURVEY COPY

Authority: Act 358 PA 1978

Completion: Required

Penalty: Conviction of a violation of any provision is a misdemeanor.

1 Location of Well

CountyEATONTownship NameCARMELFractionNE 1/4 SE 1/4 SW 1/4Section Number24Town Number2-NRange NumberN/5 5-WE/W

Distance and Direction From Road Intersection

3 Owner of WellPARKER BUILT HOMES

TIRRELL RD.

Address760 S. STINE RD.
CHARLOTTE MI 48813-

Street Address and City of Well Location

Address Same as Well Location? No

Sketch Map

4 Well Depth (Completed)200 ft. Date of Completion05/25/95
New Well

5 Drilling MethodROTARY

6 Proposed UseDOMESTIC

12 FORMATION DESCRIPTION

Thickness of StratumDepth to Bottom of Stratum

SAND2020

CLAY2040

GRAVEL1050

SANDSTONE SHALE4191

SHALE SANDSTONE109200

7 Casing PVC

5 in. to 91 ft. depth: Surface 1 ft.
in. to ft. depth: Weight lbs./ft.

Bore Hole Diameter

8 in. to 91 ft. depth: Drive Shoe No
in. to ft. depth: Shale Packer Yes

8 Screen Not Installed Gravel-packed? No

9 Static Water Level 04 Ft. Below Land Surface Flow

10 Pumping Level Below Land Surface

200 ft. after 1 hrs. pumping at 30 G.P.M.
ft. after hrs. pumping at G.P.M.

Using AIR

11 Well Head Completion PITLESS ADAPTER

12 Well Grouted? Yes From 00 to 91 ft.
QUIK-GROUT

No. of bags of cement 5 Additives

13 Nearest Source of Possible Contamination

SEWAGE Distance 50 ft. Direction
Distance ft. Direction

15 Abandoned well plugged? No

Casing Diameter in. Depth ft.

Casing removed? No

14 Pump Installed Pump Installation Only? No

Manufacturer's Name MYERS

Model Number HP 1/2 Volts 230

Length of Drop Pipe 25 ft. Capacity 10 G.P.M.

Type SUBMERSIBLE Jet

Pressure tank:

Manufacturer's Name CLAYTON-MARK

Pressure Tank Model 202 Capacity 6.1 gal.

16 Remarks, elevation, source of data, etc.

17 Drilling machine operator:

Employee

Name JOHN

Authority: Act 368 PA 1978

Completion: Required.

Penalty: Conviction of violation of any provision is a misdemeanor.

IMPORTANT: File with deed.

18 Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Registered business name: LJT WELL DRILLING, INC.

Registration number: 23-1077

Address: 4621 THORNTON HWY., CHARLOTTE, NC 28211

Signed: Lloyd Cord Date

(Authorized representative)

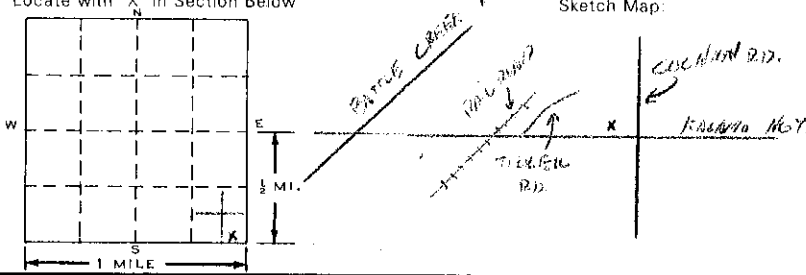
JUN 01 1995

GEOLOGICAL SURVEY COPY

WATER WELL AND PUMP RECORD

PERMIT NUMBER

8605

1 LOCATION OF WELL		3 OWNER OF WELL:	
County Eaton	Township Name CARMEL	Fraction SE 1/4 SE 1/4 SE 1/4	Section Number 24
		Town Number 2 NWS	Range Number 5 EAV
Distance And Direction From Road Intersection 1/10 OF A MILE WEST OF COCKROFT ROAD ON THE NORTH SIDE OF KALAMOO HWY. (APPROX. 100' OFF OF KALAMOO HWY.) Street Address & City of Well Location		Address DANIEL TURNER KALAMOO HWY. CHARLOTTE MI 48813 Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Locate with "X" in Section Below 		4 WELL DEPTH: 45 FT. Date Completed 7/27/92 <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Replacement Well	
		5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>	
		6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>	
		7 CASING: <input type="checkbox"/> Steel <input type="checkbox"/> Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Height: Above/Below 5 in. to 40 ft. depth Surface 1 ft. Grouted Drill Hole Diameter Weight _____ lbs./ft. _____ in. to _____ ft. depth Drive Shoe <input type="checkbox"/> Yes <input type="checkbox"/> No _____ in. to _____ ft. depth	
		8 SCREEN: <input type="checkbox"/> Not Installed Type STAINLESS STEEL Diameter _____ Slot/Gauze 12 Length 4' Set between 40 ft. and 45 ft. FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft. Other _____	
		9 STATIC WATER LEVEL: _____ ft. below land surface <input type="checkbox"/> Flow	
		10 PUMPING LEVEL: below land surface BEW WITH AIR _____ ft. after _____ hrs. pumping at 40 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.	
		11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Plugless adapter <input type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit	
		12 WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From 0 to 40 ft. <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____	
		13 Nearest source of possible contamination Type _____ Distance _____ ft. Direction _____ Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No Was old well plugged? <input type="checkbox"/> Yes <input type="checkbox"/> No	
		14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name MYERS Model number _____ HP 5 Volts 230 Length of Drop Pipe 35 ft. capacity _____ G.P.M. TYPE: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: Manufacturer's name PERMA AIR Model number _____ Capacity _____ Gallons	
		15. Remarks, elevation, source of data, etc. <div style="text-align: center;">RECEIVED USE A 2ND SHEET IF NEEDED Mich. Dept. of Public Health AUG 7 1992</div>	
		16. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH-SWQS Registered Business Name JT & Son's Well Drill Registration No. 1291 Address 4743 BEACH RD. CHARLOTTE MI Signed Robert Smith Date 7/27/92 AUTHORIZED REPRESENTATIVE	
17. Rig Operator's Name: _____			

WATER WELL AND PUMP RECORD

PERMIT NUMBER

1 LOCATION OF WELL						
County Eaton	Township Name Carmel	Fraction 1/4	Section Number 24	Town Number 20	Range Number 5	EW
Distance And Direction From Road Intersection			3 OWNER OF WELL: Chuck Tomlinson			
Street Address & City of Well Location Locate with "X" in Section Below <div style="border: 1px solid black; width: 100px; height: 100px; margin: 10px auto; position: relative;"><div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px dashed black; display: flex; flex-direction: column; align-items: center; justify-content: center;"><div style="writing-mode: vertical-rl; transform: rotate(180deg);">W</div><div style="writing-mode: vertical-rl;">E</div><div style="writing-mode: vertical-rl; transform: rotate(180deg);">S</div><div style="writing-mode: vertical-rl;">N</div></div><div style="position: absolute; bottom: 0; left: 0; width: 100%; height: 10px; border-top: 1px solid black;"></div><div style="position: absolute; bottom: 0; right: 0; width: 10px; height: 100%; border-left: 1px solid black;"></div><div style="position: absolute; bottom: 0; left: 50%; transform: translateX(-50%); border-bottom: 1px solid black; width: 50%;"></div><div style="position: absolute; bottom: 0; left: 0; width: 100%; text-align: center; font-size: 8px;">1 MILE</div></div>			Address Court St.			
			Address Same As Well Location? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Sketch Map:			4 WELL DEPTH: (completed) 1.00m ft.			
			Date of Completion 6-23-88			
			5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug <input type="checkbox"/> Hollow rod <input type="checkbox"/> Auger <input type="checkbox"/> Jetted <input type="checkbox"/>			
			6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Type I Public <input type="checkbox"/> Type III Public <input type="checkbox"/> Irrigation <input type="checkbox"/> Type IIa Public <input type="checkbox"/> Heat pump <input type="checkbox"/> Test Well <input type="checkbox"/> Type IIb Public <input type="checkbox"/>			
			7 CASING: <input type="checkbox"/> Steel <input type="checkbox"/> Threaded <input type="checkbox"/> Welded <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Height: Above/Below Surface 1 ft. Weight _____ lbs./ft. Drive Shoe <input type="checkbox"/> Yes <input type="checkbox"/> No			
			8 SCREEN: <input type="checkbox"/> Not Installed Type _____ Diameter _____ Slot/Gauze _____ Length _____ Set between _____ ft. and _____ ft. FITTINGS: <input type="checkbox"/> K-Packer <input type="checkbox"/> Lead Packer <input type="checkbox"/> Bremer Check <input type="checkbox"/> Blank above screen _____ ft. Other _____			
			9 STATIC WATER LEVEL: _____ ft. below land surface <input type="checkbox"/> Flow			
			10 PUMPING LEVEL: below land surface 100 ft. after 1 hrs. pumping at 30 G.P.M. _____ ft. after _____ hrs. pumping at _____ G.P.M.			
			11 WELL HEAD COMPLETION: <input checked="" type="checkbox"/> Pitless adapter <input checked="" type="checkbox"/> 12" above grade <input type="checkbox"/> Basement offset <input type="checkbox"/> Approved pit			
			12 WELL GROUTED? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes From 0 to 67 ft. <input type="checkbox"/> Neat cement <input checked="" type="checkbox"/> Bentonite <input type="checkbox"/> Other _____ No. of bags of cement _____ Additives _____			
			13 Nearest source of possible contamination Type septic Distance 50 ft. Direction _____ Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
			14 PUMP: <input type="checkbox"/> Not Installed <input type="checkbox"/> Pump Installation Only Manufacturer's name Myres Model number _____ HP 1/2 Volts 115 Length of Drop Pipe 45 ft. capacity 10 G.P.M. TYPE: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet PRESSURE TANK: Manufacturer's name _____ Model number _____ Capacity _____ Gallons			
			15. Remarks, elevation, source of data, etc.			

USE A 2ND SHEET IF NEEDED

RECEIVED
OCT 27 1988
Michigan Dept. of Public Health
Division of Environmental and
Occupational Health Services

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
L.J.T. WellDrilling **23-1077**
REGISTERED BUSINESS NAME REGISTRATION NO.
Address **4621 Thornton Hwy. Charlotte MI.**
Signed **Lith Coats** Date **7-11-88**
AUTHORIZED REPRESENTATIVE

Authority: Act 388 PA 1978
Completion: Required
Penalty: Conviction of a violation of any provision is a misdemeanor.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT
OF
PUBLIC HEALTH

1 LOCATION OF WELL

County Eaton Twp Carma 1 Fraction SE 1/4 SW 1/4 Section No. 24 Town 2 N. Range 5 E/W.

Distance And Direction from Road Intersections
1/2 Mi. W. of Bus. 27 on Kalamo
N. Side

OWNER No. _____

3 OWNER OF WELL

Carl Rochester
Address 113 W. Lawrence
Charlotte, Mich.

Street address & City of Well Location.

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM	4 WELL DEPTH: (completed) ft.	Date of Completion
<u>Clay & Sand</u>	<u>35</u>	<u>35</u>	<u>100</u>	<u>7/69</u>
<u>Sand Rock</u>	<u>15</u>	<u>50</u>	5 <input type="checkbox"/> Cable tool <input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Driven <input type="checkbox"/> Dug	
<u>Shale</u>	<u>20</u>	<u>70</u>	<input type="checkbox"/> Hollow rod <input type="checkbox"/> Jetted <input type="checkbox"/> Bored <input type="checkbox"/>	
<u>Sand Rock</u>	<u>30</u>	<u>100</u>	6 USE: <input checked="" type="checkbox"/> Domestic <input type="checkbox"/> Public Supply <input type="checkbox"/> Industry	
			<input type="checkbox"/> Irrigation <input type="checkbox"/> Air Conditioning <input type="checkbox"/> Commercial	
			<input type="checkbox"/> Test Well <input type="checkbox"/>	
			7 CASING: Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Height: Above/ <u>Below</u> surface <u>1</u> ft.	
			<u>4</u> in. to <u>54</u> ft. Depth Weight <u>11</u> lbs/ft.	
			<u> </u> in. to <u> </u> ft. Depth Drive Shoe? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
			8 SCREEN:	
			Type: <u>NONE</u> Dia.: _____	
			Slot/Gauze _____ Length _____	
			Set between _____ ft. and _____ ft.	
			Fittings: _____	
			9 STATIC WATER LEVEL <u>20</u> ft. below land surface	
			10 PUMPING LEVEL below land surface _____ ft. after _____ hrs. pumping _____ g.p.m.	
			<u>AIR TEST</u> hrs. pumping _____ g.p.m.	
			11 WATER QUALITY in Parts Per Million:	
			Iron (Fe) _____ Chlorides (Cl) _____	
			Hardness _____	
			12 WELL HEAD COMPLETION: <input type="checkbox"/> In Approved Pit <input checked="" type="checkbox"/> Pitless Adapter <input type="checkbox"/> 12" Above Grade	
			13 GROUTING:	
			Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			Material: <input type="checkbox"/> Neat Cement <input checked="" type="checkbox"/> <u>Drill Mud to G.L.</u>	
			Depth: From _____ ft. to _____ ft.	
			14 SANITARY:	
			Nearest Source of possible contamination <u>50</u> feet <u>S</u> Direction <u>ST.</u> Type _____	
			Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
			15 PUMP:	
			Manufacturer's Name <u>Rapidayton</u>	
			Model Number _____ HP <u>1/2</u>	
			Length of Drop Pipe <u>42</u> ft. capacity <u>10</u> G.P.M.	
			Type: <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Reciprocating	

16 Remarks, elevation, source of data, etc.

ADDITIONAL REMARKS
6
ELEVATION 60

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Chas. Kleinfelt & Son

REGISTERED BUSINESS NAME

0107

REGISTRATION NO.

Address Charlotte Rte 2, Mich. 48813

Signed Chas. Kleinfelt Date 7/30/69

AUTHORIZED REPRESENTATIVE

APPENDIX K

USGS TOPOGRAPHIC MAPS



EDR™ Environmental
Data Resources Inc

EDR Historical Topographic Map Report

Charlotte Armory
1310 South Cochran Street
Charlotte, MI 48813

Inquiry Number: 1461870.4

July 08, 2005

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR 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 1527-00, 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 1527-00, Section 7.3.4, 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 1527-00 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 1527-00, Section 7.3.2 page 12.)

EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

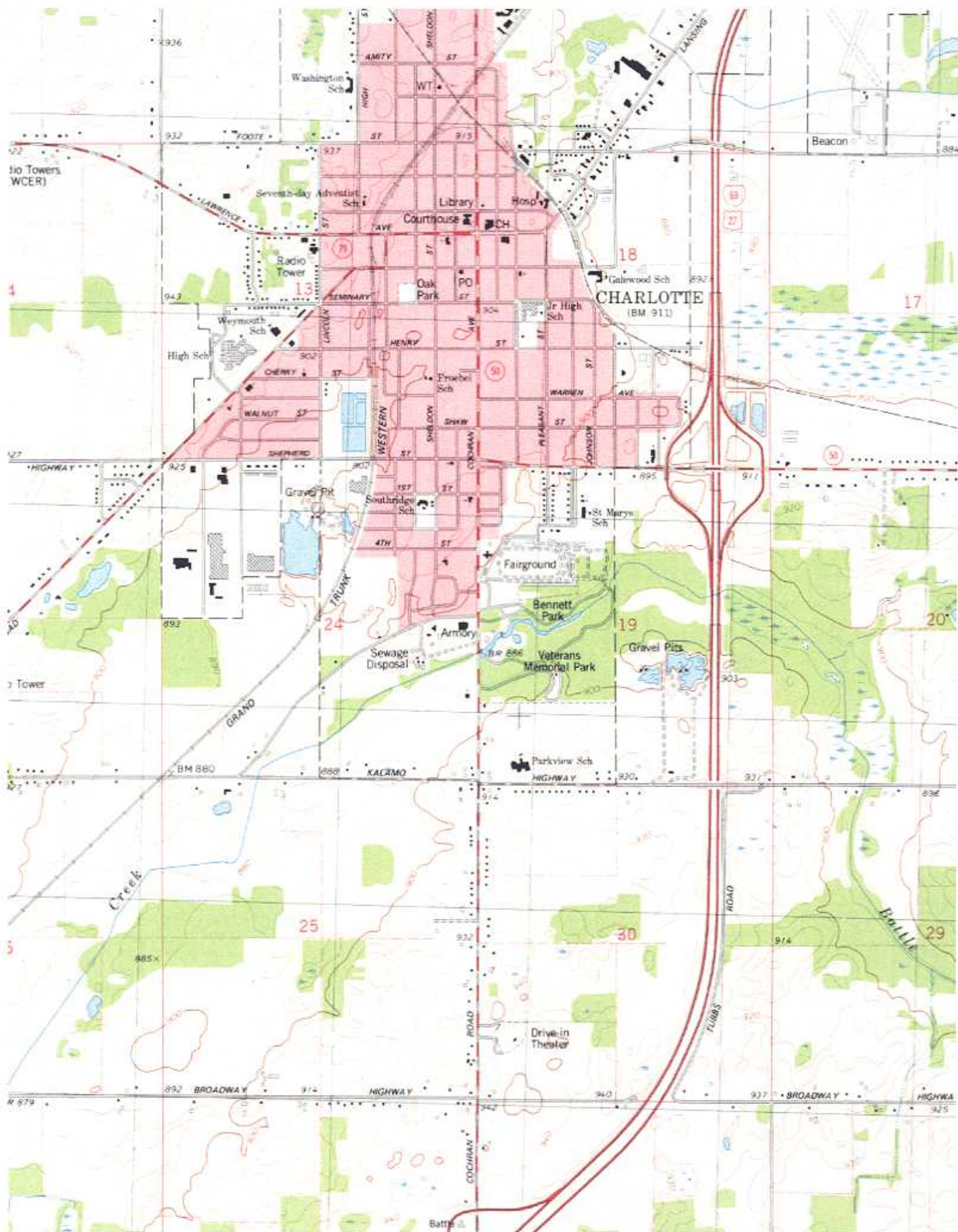
For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area 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.

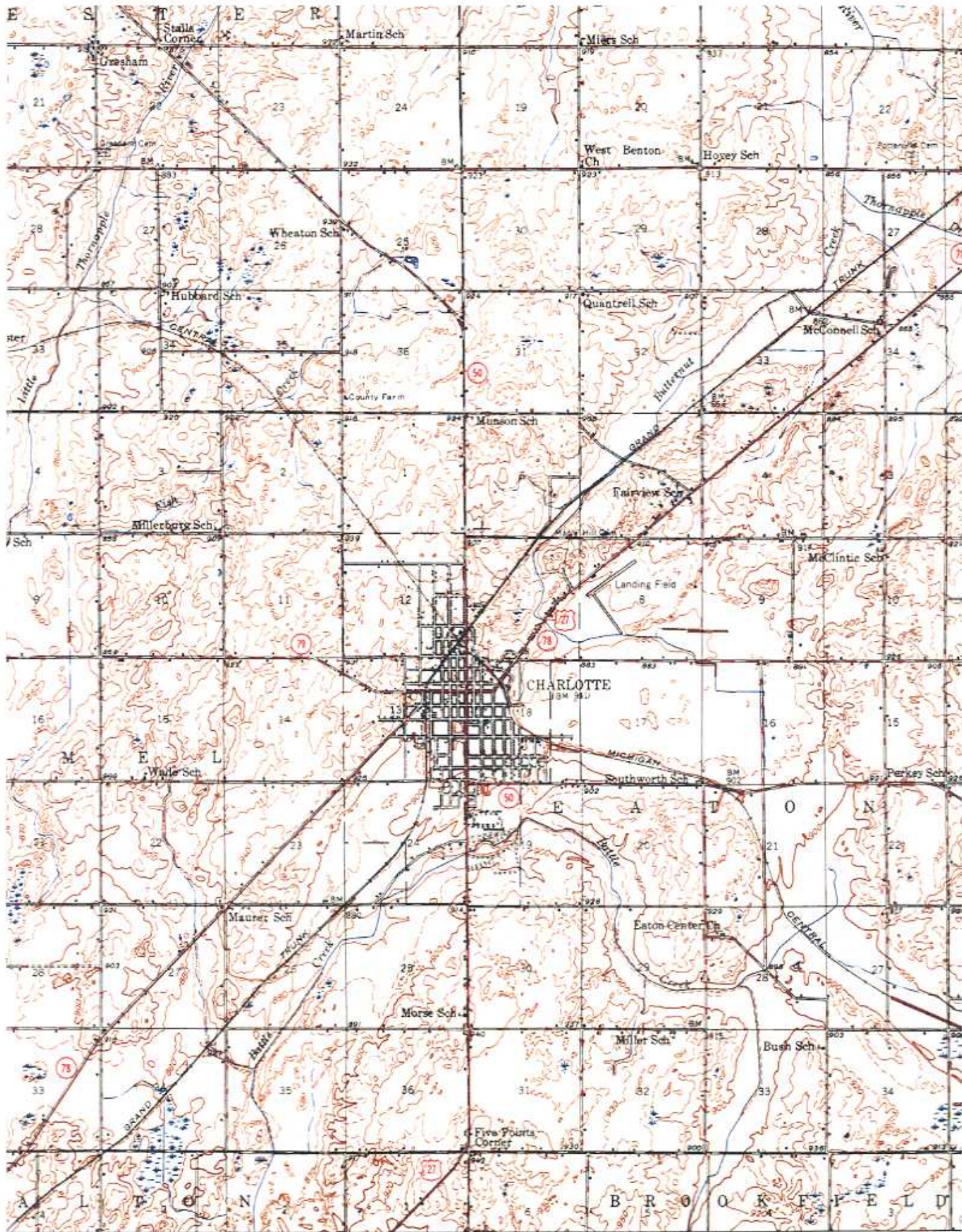
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APPENDIX L

ENDANGERED AND THREATENED
WILDLIFE AND PLANTS

IN

EATON AND SURROUNDING
COUNTIES



Michigan
Natural
Features
Inventory



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County Element Data

Choose a new county



Eaton County

Current as of 1/4/2005

Scientific Name	Common Name	Federal Status	State Status
<i>Acella haldemani</i>	Spindle Lymnaea		SC
<i>Acris crepitans blanchardi</i>	Blanchard's Cricket Frog		SC
<i>Alasmodonta marginata</i>	Elktoe		SC
<i>Alasmodonta viridis</i>	Slippershell Mussel		SC
<i>Arabis perstellata sensu lato</i>	Rock Cress		T
<i>Baptisia lactea</i>	White or Prairie False Indigo		SC
<i>Clemmys guttata</i>	Spotted Turtle		T
<i>Cyclonaias tuberculata</i>	Purple Wartyback		SC
<i>Eleocharis radicans</i>	Spike-rush		X
<i>Emys blandingii</i>	Blanding's Turtle		SC
<i>Galearis spectabilis</i>	Showy Orchis		T
Great blue heron rookery	Great Blue Heron Rookery		
<i>Gymnocladus dioica</i>	Kentucky Coffee-tree		SC
<i>Hieracium paniculatum</i>	Panicled Hawkweed		SC
<i>Isotria verticillata</i>	Whorled Pogonia		T
<i>Linum virginianum</i>	Virginia Flax		T
<i>Mertensia virginica</i>	Virginia Bluebells		T
Mesic southern forest	Rich Forest, Central Midwest Type		
Moist Acid Cliff			
<i>Myotis sodalis</i>	Indiana Bat or Indiana Myotis	LE	E
<i>Nerodia erythrogaster neglecta</i>	Copperbelly Watersnake	PS:LT	E
<i>Notropis texanus</i>	Weed Shiner		X
<i>Panax quinquefolius</i>	Ginseng		T
<i>Panicum microcarpon</i>	Small-fruited Panic-grass		SC
<i>Papaipema speciosissima</i>	Regal Fern Borer		SC
Pennsylvanian earth history	Geographical Feature		
<i>Platanthera leucophaea</i>	Prairie Fringed Orchid	LT	E
<i>Pleurobema coccineum</i>	Round Pigtoe		SC
Primary sedimentary structural feature	Geographical Feature		
<i>Rallus elegans</i>	King Rail		E
Secondary sedimentary structural feature	Geographical Feature		
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	C	SC
<i>Venustaconcha ellipsiformis</i>	Ellipse		SC
<i>Villosa iris</i>	Rainbow		SC

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Michigan
Natural
Features
Inventory



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County Element Data

Choose a new county

Barry County

Current as of 1/4/2005

Scientific Name	Common Name	Federal Status	State Status
<i>Acris crepitans blanchardi</i>	Blanchard's Cricket Frog		SC
<i>Agrimonia rostellata</i>	Beaked Agrimony		SC
<i>Amorpha canescens</i>	Leadplant		SC
<i>Arabis missouriensis</i> var. <i>deamii</i>	Missouri Rock-cress		SC
<i>Berula erecta</i>	Cut-leaved Water-parsnip	T	
<i>Besseyia bullii</i>	Kitten-tails	T	
Bog			
<i>Bouteloua curtipendula</i>	Side-oats Grama Grass		T
<i>Cacalia plantaginea</i>	Prairie Indian-plantain		SC
<i>Calephelis mutica</i>	Swamp Metalmark		SC
<i>Catocala amestris</i>	Three-staff Underwing		E
<i>Circus cyaneus</i>	Northern Harrier		SC
<i>Clemmys guttata</i>	Spotted Turtle		T
Coastal plain marsh	Infertile Pond/marsh, Great Lakes Type		
<i>Cypripedium candidum</i>	White Lady-slipper		T
<i>Dendroica cerulea</i>	Cerulean Warbler		SC
<i>Draba reptans</i>	Creeping Whitlow-grass		T
Dry-mesic southern forest			
<i>Elaphe obsoleta obsoleta</i>	Black Rat Snake		SC
<i>Eleocharis equisetoides</i>	Horsetail Spike-rush		SC
<i>Eleocharis melanocarpa</i>	Black-fruited Spike-rush		SC
<i>Emys blandingii</i>	Blanding's Turtle		SC
<i>Erynnis persius persius</i>	Persius Duskywing		T
<i>Fontigens nickliniana</i>	Watercress Snail		SC
<i>Fuirena squarrosa</i>	Umbrella-grass		T
<i>Fundulus dispar</i>	Starhead Topminnow		SC
<i>Gavia immer</i>	Common Loon		T
Great blue heron rookery	Great Blue Heron Rookery		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	LT,PDL	T
<i>Helianthus hirsutus</i>	Whiskered Sunflower		SC
<i>Hemicarpha micrantha</i>	Dwarf-bulrush		SC
<i>Hemileuca maia</i>	Barrens Buckmoth		SC
<i>Hesperia ottoe</i>	Ottoe Skipper		T
<i>Heterocampa subrotata</i>	Small Heterocampa		SC
Hillside Prairie	High Prairie, Midwest Type		
<i>Hydrastis canadensis</i>	Goldenseal		T
<i>Incisalia henrici</i>	Henry's Elfin		SC
Inundated Shrub Swamp	Shrub Swamp, Central Midwest Type		

<i>Isotria verticillata</i>	Whorled Pogonia		T
<i>Juncus scirpoides</i>	Scirpus-like Rush		T
<i>Justicia americana</i>	Water-willow		T
<i>Kuhnia eupatorioides</i>	False Boneset	PS	SC
<i>Lepyronia angulifera</i>	Angular Spittlebug		SC
<i>Meropleon ambifusca</i>	Newman's Brocade		SC
<i>Microtus pinetorum</i>	Woodland Vole		SC
Moraine	Geographical Feature		
<i>Myotis sodalis</i>	Indiana Bat or Indiana Myotis	LE	E
<i>Nelumbo lutea</i>	American Lotus		T
<i>Neonympha mitchellii mitchellii</i>	Mitchell's Satyr	LE	E
Northern Wet-Mesic Prairie			
<i>Notropis anogenus</i>	Pugnose Shiner		SC
<i>Oecanthus laricis</i>	Tamarack Tree Cricket		SC
<i>Panax quinquefolius</i>	Ginseng		T
<i>Papaipema speciosissima</i>	Regal Fern Borer		SC
<i>Potamogeton pulcher</i>	Spotted Pondweed		T
Prairie fen	Alkaline Shrub/herb Fen, Midwest Type		
<i>Psilocarya scirpoides</i>	Bald-rush		T
<i>Pygarctia spraguei</i>	Sprague's Pygarctia		SC
<i>Rallus elegans</i>	King Rail		E
<i>Rhynchospora macrostachya</i>	Tall Beak-rush		SC
<i>Rotala ramosior</i>	Tooth-cup		SC
<i>Scutellaria parvula</i>	Small Skullcap		T
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	C	SC
<i>Sisyrinchium strictum</i>	Blue-eyed-grass		SC
<i>Spartiniphaga inops</i>	Spartina Moth		SC
<i>Stylurus laurae</i>	Laura's Snaketail		SC
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SC
<i>Tradescantia bracteata</i>	Long-bracted Spiderwort		X
Wet prairie	Wet Prairie, Midwest Type		
Wet-mesic prairie	Tallgrass Prairie, Central Midwest Type		
<i>Wilsonia citrina</i>	Hooded Warbler		SC

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County Element Data

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Calhoun County

Current as of 1/4/2005

Scientific Name	Common Name	Federal Status	State Status
<i>Acella haldemani</i>	Spindle Lymnaea		SC
<i>Acris crepitans blanchardi</i>	Blanchard's Cricket Frog		SC
<i>Agrimonia rostellata</i>	Beaked Agrimony		SC
<i>Alasmodonta marginata</i>	Elktoe		SC
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	PS	SC
<i>Amorpha canescens</i>	Leadplant		SC
<i>Angelica venenosa</i>	Hairy Angelica		SC
<i>Baptisia lactea</i>	White or Prairie False Indigo		SC
Bog			
<i>Cacalia plantaginea</i>	Prairie Indian-plantain		SC
<i>Clemmys guttata</i>	Spotted Turtle		T
<i>Corydalis flavula</i>	Yellow Fumewort		T
<i>Cuscuta pentagona</i>	Dodder		SC
<i>Cypripedium candidum</i>	White Lady-slipper		T
<i>Dendroica cerulea</i>	Cerulean Warbler		SC
Drumlin	Geographical Feature		
Dry-mesic southern forest			
<i>Eleocharis compressa</i>	Flattened Spike-rush		T
<i>Eleocharis engelmannii</i>	Engelmann's Spike-rush		SC
<i>Eleocharis radicans</i>	Spike-rush		X
<i>Emys blandingii</i>	Blanding's Turtle		SC
<i>Erimyzon oblongus</i>	Creek Chubsucker		E
<i>Filipendula rubra</i>	Queen-of-the-prairie		T
<i>Fraxinus profunda</i>	Pumpkin Ash		T
<i>Geum virginianum</i>	Pale Avens		SC
Great blue heron rookery	Great Blue Heron Rookery		
<i>Haliaeetus leucocephalus</i>	Bald Eagle	LT,PDL	T
<i>Helianthus hirsutus</i>	Whiskered Sunflower		SC
<i>Hibiscus moscheutos</i>	Swamp Rose-mallow		SC
<i>Hydrastis canadensis</i>	Goldenseal		T
<i>Isotria verticillata</i>	Whorled Pogonia		T
<i>Lechea minor</i>	Least Pinweed		SC
<i>Lepisosteus oculatus</i>	Spotted Gar		SC
<i>Lepyronia angulifera</i>	Angular Spittlebug		SC
<i>Liparis liliifolia</i>	Purple Twayblade		SC
<i>Mertensia virginica</i>	Virginia Bluebells		T
Mississippian earth history	Geographical Feature		
<i>Nerodia erythrogaster neglecta</i>	Copperbelly Watersnake	PS:LT	E

<i>Notropis anogenus</i>	Pugnose Shiner		SC
<i>Notropis chalybaeus</i>	Ironcolor Shiner		X
<i>Notropis texanus</i>	Weed Shiner		X
<i>Panicum leibergii</i>	Leiberg's Panic-grass		T
<i>Panicum microcarpon</i>	Small-fruited Panic-grass		SC
<i>Papaipema beeriana</i>	Blazing Star Borer		SC
<i>Platanthera ciliaris</i>	Orange or Yellow Fringed Orchid		T
<i>Platanthera leucophaea</i>	Prairie Fringed Orchid	LT	E
<i>Pleurobema coccineum</i>	Round Pigtoe		SC
Prairie fen	Alkaline Shrub/herb Fen, Midwest Type		
<i>Protonotaria citrea</i>	Prothonotary Warbler		SC
<i>Rallus elegans</i>	King Rail		E
<i>Silene stellata</i>	Starry Campion		T
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	C	SC
Southern floodplain forest			
Southern swamp			
<i>Speyeria idalia</i>	Regal Fritillary		E
<i>Stenelmis douglasensis</i>	Douglas Stenelmis Riffle Beetle		SC
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SC
<i>Venustaconcha ellipsiformis</i>	Ellipse		SC
<i>Villosa iris</i>	Rainbow		SC
<i>Viola pedatifida</i>	Prairie Birdfoot Violet		T
<i>Wilsonia citrina</i>	Hooded Warbler		SC
Woodland prairie	High Prairie, Midwest Type		
<i>Zizania aquatica</i> var. <i>aquatica</i>	Wild-rice		T

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County Element Data

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Ingham County

Current as of 1/4/2005

Scientific Name	Common Name	Federal Status	State Status
<i>Accipiter cooperii</i>	Cooper's Hawk		SC
<i>Acris crepitans blanchardi</i>	Blanchard's Cricket Frog		SC
<i>Alasmodonta marginata</i>	Elktoe		SC
<i>Alasmodonta viridis</i>	Slippershell Mussel		SC
<i>Angelica venenosa</i>	Hairy Angelica		SC
<i>Arabis perstellata sensu lato</i>	Rock Cress		T
<i>Asclepias purpurascens</i>	Purple Milkweed		SC
<i>Astragalus neglectus</i>	Cooper's Milk-vetch		SC
<i>Baptisia lactea</i>	White or Prairie False Indigo		SC
<i>Carex crus-corvi</i>	Raven's-foot Sedge		T
<i>Carex davisii</i>	Davis's Sedge		SC
<i>Carex lupuliformis</i>	False Hop Sedge		T
<i>Carex trichocarpa</i>	Hairy-fruited Sedge		SC
<i>Carex typhina</i>	Cat-tail Sedge		T
<i>Castanea dentata</i>	American Chestnut		E
<i>Clemmys guttata</i>	Spotted Turtle		T
<i>Cryptotis parva</i>	Least Shrew		T
<i>Diarrhena americana</i>	Beak Grass		T
<i>Emys blandingii</i>	Blanding's Turtle		SC
Esker	Geographical Feature		
<i>Galearis spectabilis</i>	Showy Orchis		T
<i>Glyptemys insculpta</i>	Wood Turtle		SC
<i>Gomphus lineatifrons</i>	Splendid Clubtail		SC
Great blue heron rookery	Great Blue Heron Rookery		
<i>Gymnocladus dioica</i>	Kentucky Coffee-tree		SC
<i>Hemicarpha micrantha</i>	Dwarf-bulrush		SC
<i>Hemileuca maia</i>	Barrens Buckmoth		SC
<i>Hybanthus concolor</i>	Green Violet		SC
<i>Hydrastis canadensis</i>	Goldenseal		T
<i>Lycopus virginicus</i>	Virginia Water-horehound		T
Mesic southern forest	Rich Forest, Central Midwest Type		
<i>Microtus pinetorum</i>	Woodland Vole		SC
<i>Morus rubra</i>	Red Mulberry		T
<i>Myotis sodalis</i>	Indiana Bat or Indiana Myotis	LE	E
<i>Notropis anogenus</i>	Pugnose Shiner		SC
<i>Notropis texanus</i>	Weed Shiner		X
<i>Oecanthus laricis</i>	Tamarack Tree Cricket		SC
<i>Panax quinquefolius</i>	Ginseng		T

<i>Papaipema speciosissima</i>	Regal Fern Borer		SC
<i>Pleurobema coccineum</i>	Round Pigtoe		SC
<i>Poa paludigena</i>	Bog Bluegrass		T
Poor conifer swamp			
<i>Rallus elegans</i>	King Rail		E
<i>Scirpus clintonii</i>	Clinton's Bulrush		SC
<i>Scirpus torreyi</i>	Torrey's Bulrush		SC
<i>Scleria triglomerata</i>	Tall Nut-rush		SC
<i>Scutellaria parvula</i>	Small Skullcap		T
<i>Silphium perfoliatum</i>	Cup-plant		T
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	C	SC
Southern floodplain forest			
<i>Terrapene carolina carolina</i>	Eastern Box Turtle		SC
<i>Tradescantia virginiana</i>	Virginia Spiderwort		SC
<i>Venustaconcha ellipsiformis</i>	Ellipse		SC
<i>Villosa iris</i>	Rainbow		SC

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Choose a new county



Jackson County

Current as of 1/4/2005

Scientific Name	Common Name	Federal Status	State Status
<i>Acris crepitans blanchardi</i>	Blanchard's Cricket Frog		SC
<i>Alasmidonta viridis</i>	Slippershell Mussel		SC
<i>Ammodramus henslowii</i>	Henslow's Sparrow		T
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	PS	SC
<i>Angelica venenosa</i>	Hairy Angelica		SC
<i>Anguipira kochi</i>	Banded Globe		SC
<i>Asclepias hirtella</i>	Tall Green Milkweed		T
<i>Asclepias purpurascens</i>	Purple Milkweed		SC
<i>Baptisia lactea</i>	White or Prairie False Indigo		SC
<i>Besseyia bullii</i>	Kitten-tails		T
Bog			
<i>Botaurus lentiginosus</i>	American Bittern		SC
<i>Calephelis mutica</i>	Swamp Metalmark		SC
<i>Celtis tenuifolia</i>	Dwarf Hackberry		SC
<i>Chlidonias niger</i>	Black Tern		SC
<i>Cirsium hillii</i>	Hill's Thistle		SC
<i>Clemmys guttata</i>	Spotted Turtle		T
<i>Cryptotis parva</i>	Least Shrew		T
<i>Cyclonaias tuberculata</i>	Purple Wartyback		SC
<i>Cypripedium candidum</i>	White Lady-slipper		T
<i>Dendroica cerulea</i>	Cerulean Warbler		SC
<i>Discus patulus</i>	Domed Disc		SC
Dry southern forest	Well Drained Forest, Central Midwest Type		
Dry-mesic southern forest			
<i>Elaphe obsoleta obsoleta</i>	Black Rat Snake		SC
<i>Eleocharis caribaea</i>	Spike-rush		T
<i>Eleocharis engelmannii</i>	Engelmann's Spike-rush		SC
<i>Eleocharis equisetoides</i>	Horsetail Spike-rush		SC
<i>Emys blandingii</i>	Blanding's Turtle		SC
<i>Erimyzon oblongus</i>	Creek Chubsucker		E
Esker	Geographical Feature		
<i>Eupatorium sessilifolium</i>	Upland Boneset		T
<i>Gallinula chloropus</i>	Common Moorhen	PS	SC
<i>Gomphus lineatifrons</i>	Splendid Clubtail		SC
Great blue heron rookery	Great Blue Heron Rookery		
<i>Gymnocladus dioica</i>	Kentucky Coffee-tree		SC
<i>Helianthus mollis</i>	Downy Sunflower		T
Hillside Prairie	High Prairie, Midwest Type		

<i>Hydrastis canadensis</i>	Goldenseal		T
<i>Ixobrychus exilis</i>	Least Bittern		T
Kame	Geographical Feature		
<i>Kuhnia eupatorioides</i>	False Boneset	PS	SC
<i>Lampsilis fasciola</i>	Wavy-rayed Lampmussel		T
<i>Lepyronia angulifera</i>	Angular Spittlebug		SC
<i>Liparis liliifolia</i>	Purple Twayblade		SC
Mississippian earth history	Geographical Feature		
Moraine	Geographical Feature		
<i>Muhlenbergia richardsonis</i>	Mat Muhly		T
<i>Myotis sodalis</i>	Indiana Bat or Indiana Myotis	LE	E
<i>Neonympha mitchellii mitchellii</i>	Mitchell's Satyr	LE	E
<i>Notropis texanus</i>	Weed Shiner		X
<i>Noturus miurus</i>	Brindled Madtom		SC
<i>Oarisma poweshiek</i>	Poweshiek Skipperling		T
<i>Oecanthus laricis</i>	Tamarack Tree Cricket		SC
<i>Oecanthus pini</i>	Pinetree Cricket		SC
<i>Panax quinquefolius</i>	Ginseng		T
<i>Panicum leibergii</i>	Leiberg's Panic-grass		T
<i>Papaipema beeriana</i>	Blazing Star Borer		SC
<i>Papaipema maritima</i>	Maritime Sunflower Borer		SC
<i>Papaipema sciata</i>	Culvers Root Borer		SC
<i>Papaipema silphii</i>	Silphium Borer Moth		T
<i>Papaipema speciosissima</i>	Regal Fern Borer		SC
Pennsylvanian earth history	Geographical Feature		
<i>Platanthera ciliaris</i>	Orange or Yellow Fringed Orchid		T
<i>Pleurobema coccineum</i>	Round Pigtoe		SC
<i>Poa paludigena</i>	Bog Bluegrass		T
<i>Polygala cruciata</i>	Cross-leaved Milkwort		SC
<i>Pomatiopsis cinnamomiensis</i>	Brown Walker		SC
Prairie fen	Alkaline Shrub/herb Fen, Midwest Type		
Primary sedimentary structural feature	Geographical Feature		
<i>Prosapia ignipectus</i>	Red-legged Spittlebug		SC
<i>Rallus elegans</i>	King Rail		E
Relict conifer swamp	Forested Bog, Central Midwest Type		
<i>Scirpus clintonii</i>	Clinton's Bulrush		SC
<i>Scleria triglomerata</i>	Tall Nut-rush		SC
<i>Silene stellata</i>	Starry Campion		T
<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	C	SC
<i>Sisyrinchium strictum</i>	Blue-eyed-grass		SC
Southern floodplain forest			
Southern swamp			
Southern wet meadow	Wet Meadow, Central Midwest Type		
<i>Speyeria idalia</i>	Regal Fritillary		E
<i>Spiza americana</i>	Dickcissel		SC
<i>Sporobolus heterolepis</i>	Prairie Dropseed		SC
<i>Stylurus amnicola</i>	Riverine Snaketail		SC
<i>Stylurus laurae</i>	Laura's Snaketail		SC

<i>Terrapene carolina carolina</i>	Eastern Box Turtle	SC
<i>Valeriana edulis</i> var. <i>ciliata</i>	Edible Valerian	T
<i>Venustaconcha ellipsiformis</i>	Ellipse	SC
<i>Villosa iris</i>	Rainbow	SC
Wet prairie	Wet Prairie, Midwest Type	
Wet-mesic prairie	Tallgrass Prairie, Central Midwest Type	
<i>Wilsonia citrina</i>	Hooded Warbler	SC
<i>Zizania aquatica</i> var. <i>aquatica</i>	Wild-rice	T

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APPENDIX M

AERIAL PHOTOGRAPHS



EDR Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

Charlotte Armory
1310 South Cochran Street
Charlotte, MI 48813

1461870.5

7/11/2005 12:05:27 PM

The Standard in Environmental Risk Management Information

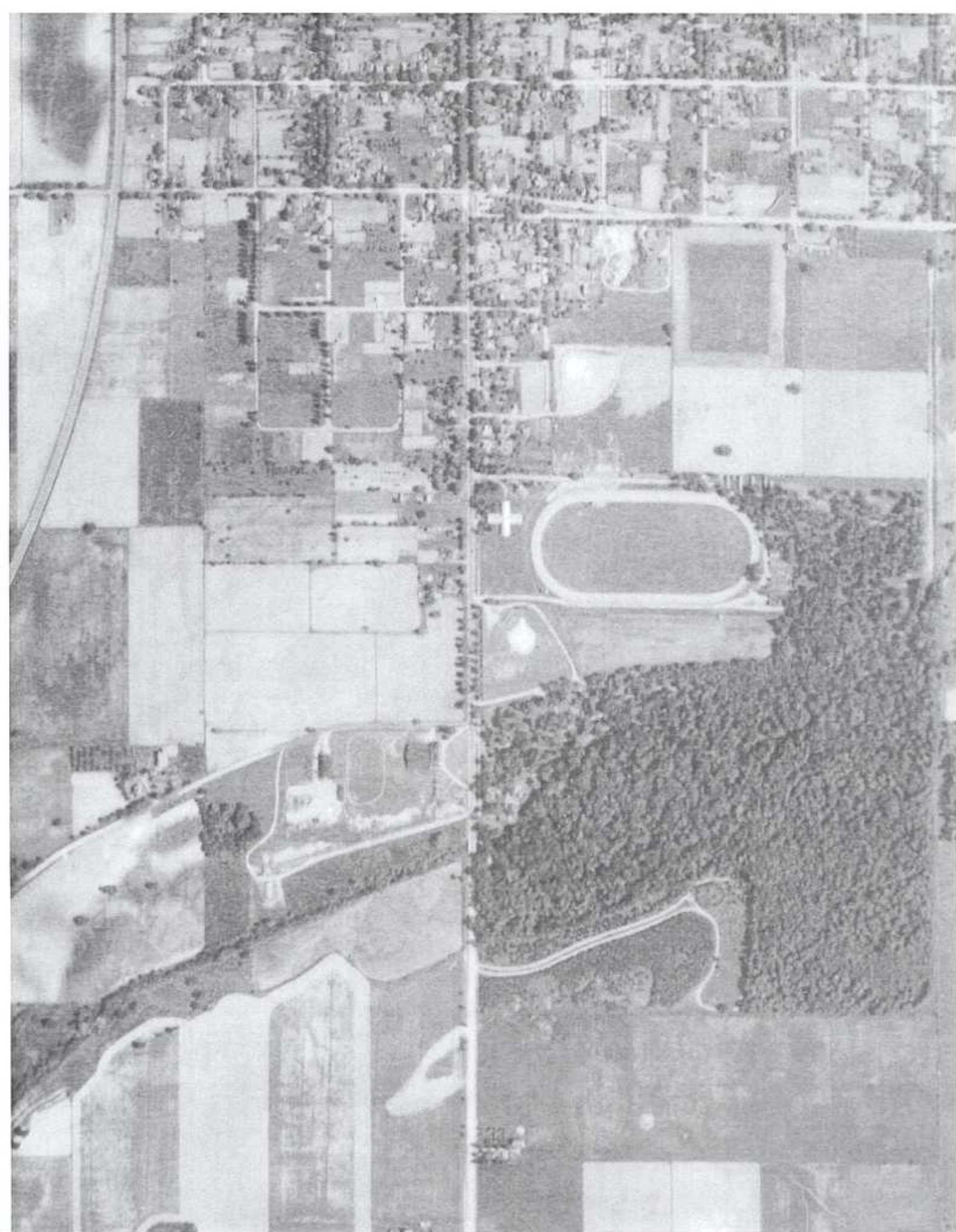
440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050

Fax: 1-800-231-6802

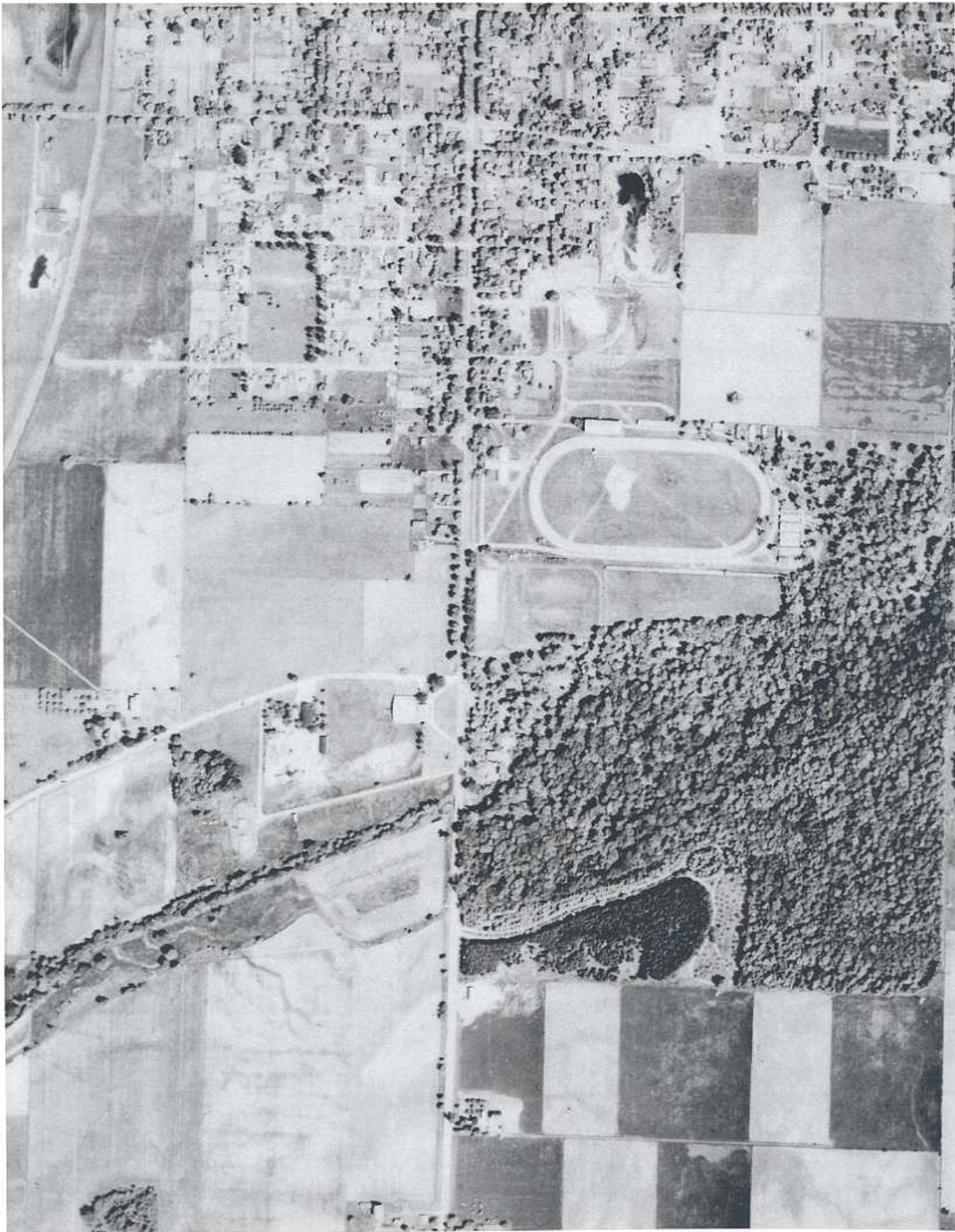
Internet: www.edrmet.com



CHARLOTTE ARMORY

YEAR 1938

SCALE: 1" = 555.6'



CHARLOTTE ARMORY

YEAR 1950

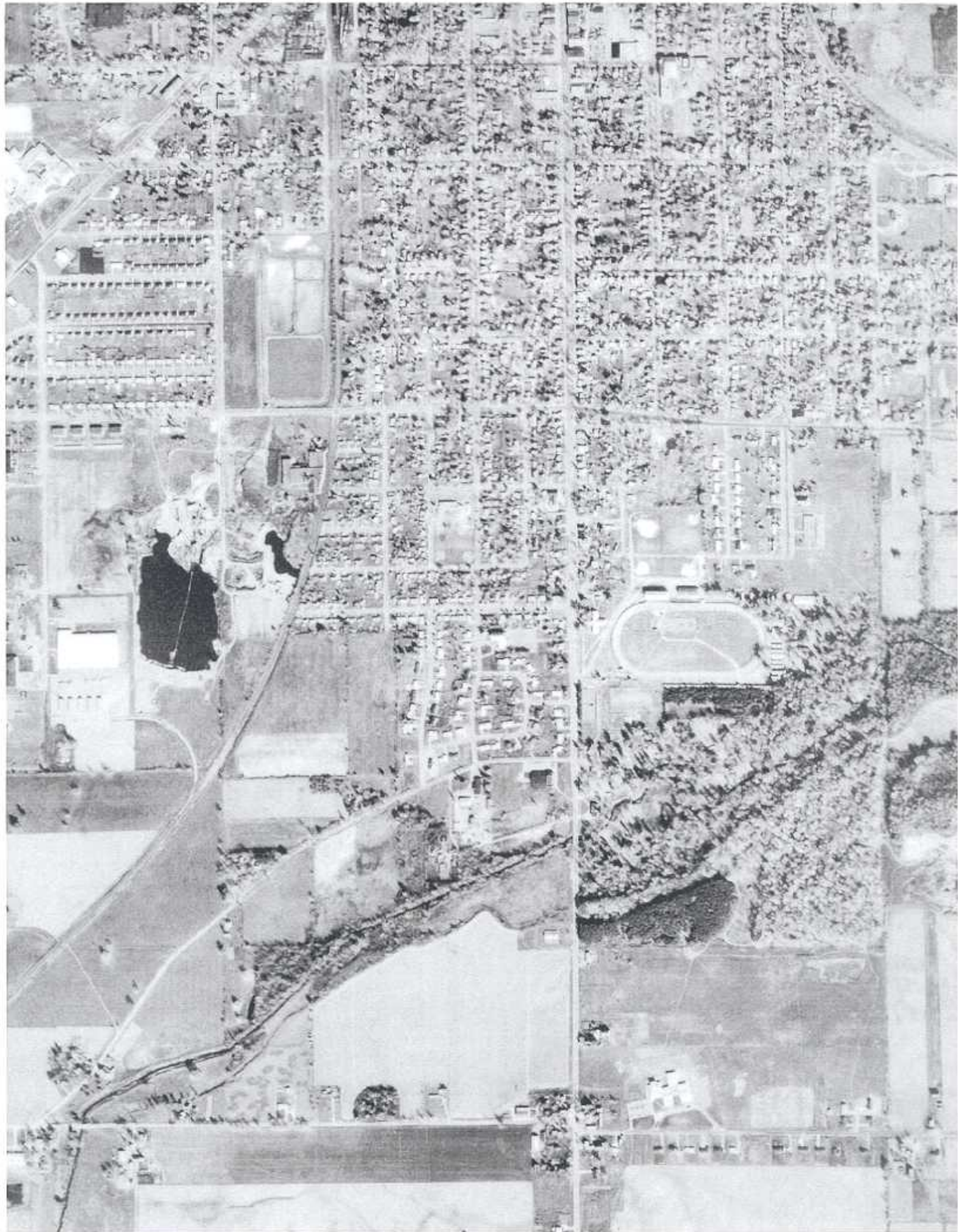
SCALE: 1" = 555.6'



CHARLOTTE ARMORY

YEAR 1967

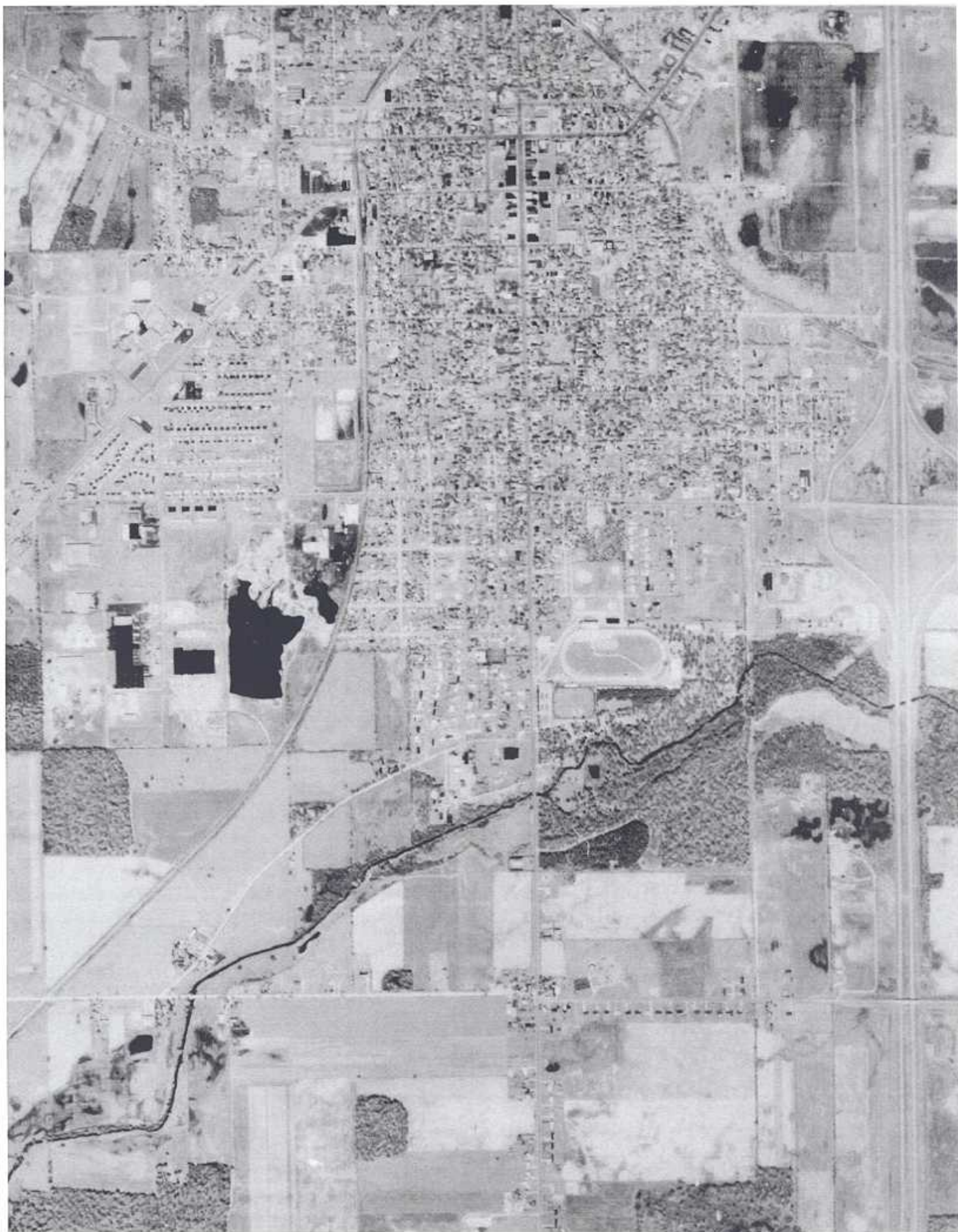
SCALE: 1" = 555.6'



CHARLOTTE ARMORY

YEAR 1974

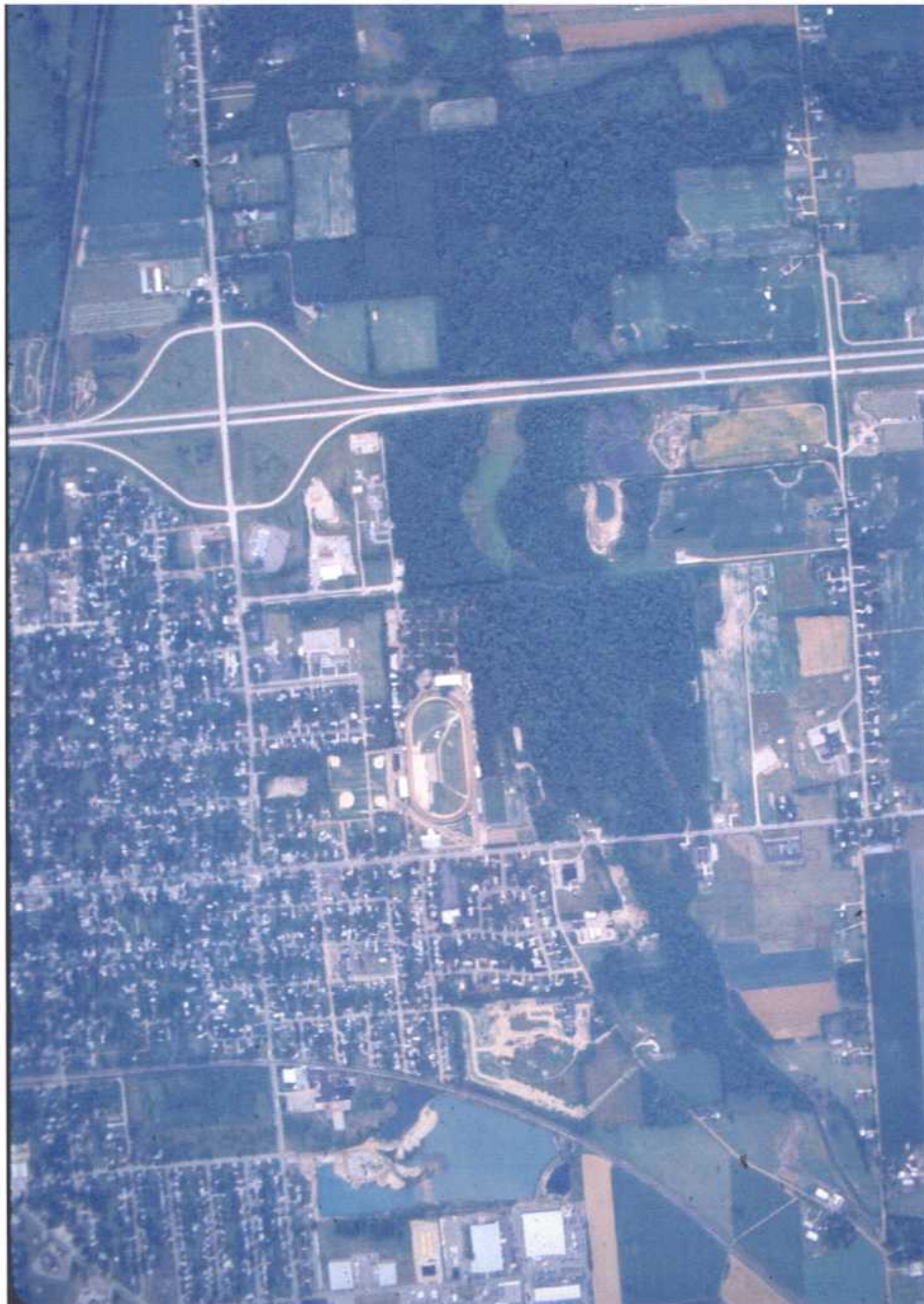
SCALE: 1" = 833'



CHARLOTTE ARMORY

YEAR 1981

SCALE: 1" = 1,208'



CHARLOTTE ARMORY

YEAR 1997

SCALE: UNKNOWN

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SANBORN FIRE INSURANCE MAPS



"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Manasi Koushik

Altech Env.

17350 West 10 Mile Road

Southfield, MI 48075

Order Date: 7/8/2005 **Completion Date:** 7/11/2005

Inquiry #: 1461870.3S

P.O. #: NA

Site Name: Charlotte Armory

Address: 1310 South Cochran Street

City/State: Charlotte, MI 48813

Cross Streets:

Customer Project: 9201-4012

1011348DPM 248-559-5500

Based on client-supplied information, fire insurance maps for the following years were identified

1927 - 1 Map

1950 - 1 Map

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Total Maps: 2

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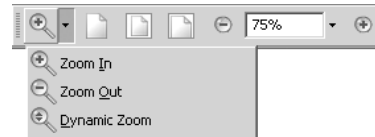
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- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

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2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
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 - B. Or, use the magnifying tool and drag a box around the TP

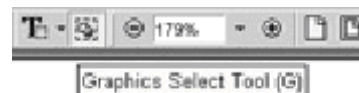


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- To print only the TP area, cut and paste from Acrobat to your word processor application.

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2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.



1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.



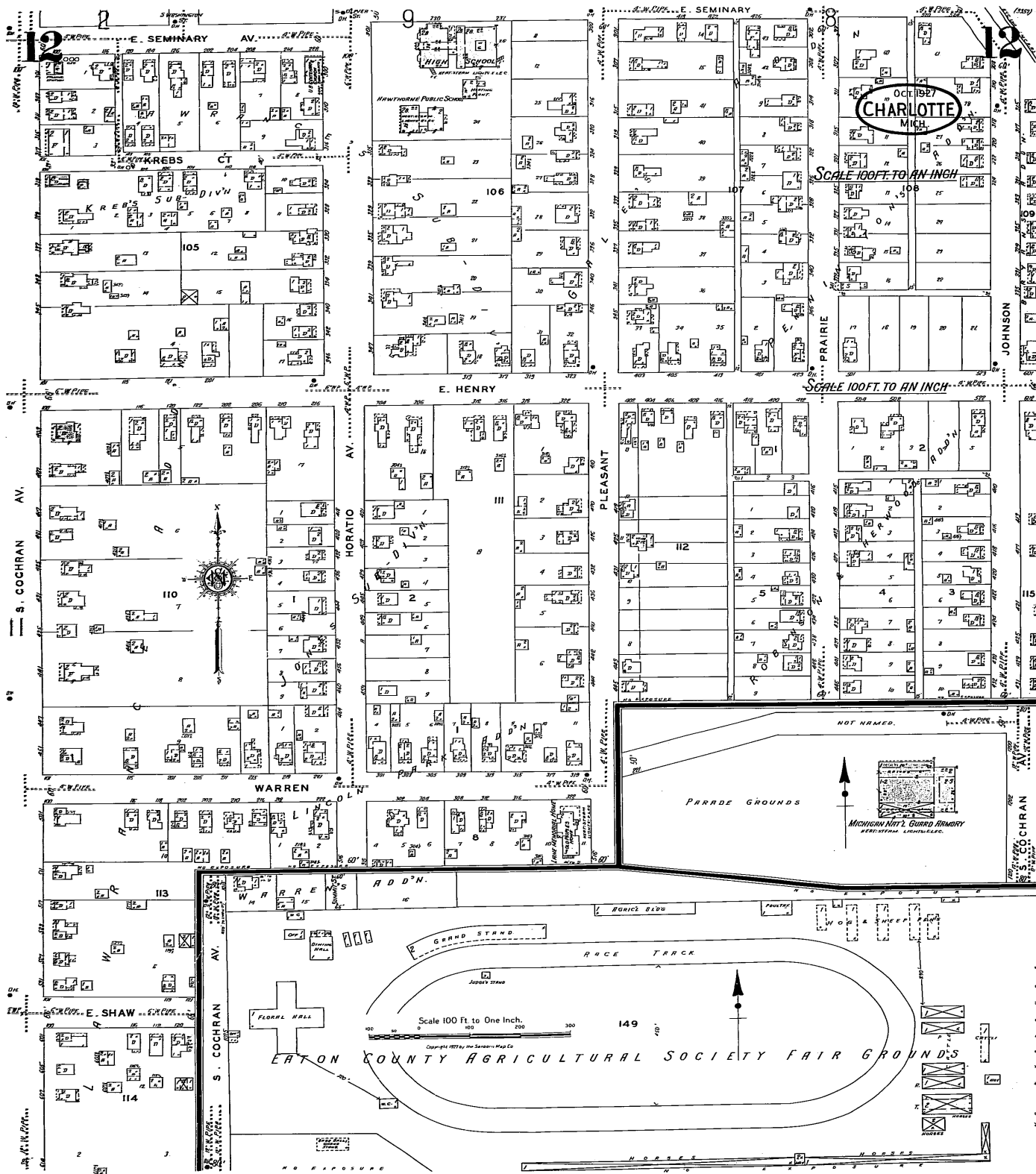
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EDR Research Associate

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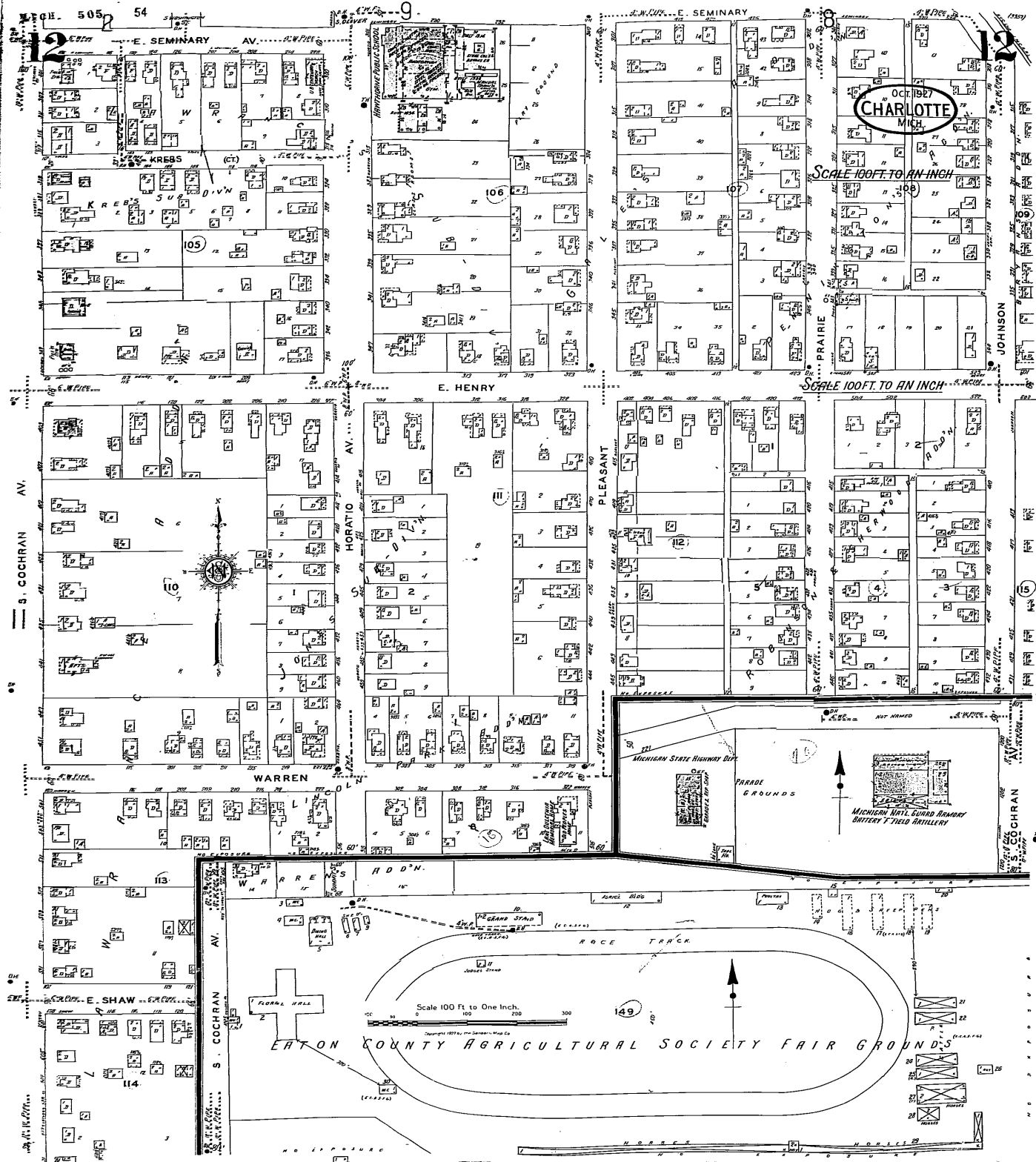




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Year EDR Research Associate

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APPENDIX O

EDR CITY DIRECTORY SEARCH



EDR™ Environmental
Data Resources Inc

The EDR-City Directory
Abstract

**Charlotte Armory
1310 South Cochran Street
Charlotte, MI 48813**

July 11, 2005

Inquiry Number: 1461870-7

**The Standard
In Environmental
Risk Management
Information**

440 Wheelers Farms Road
Milford, Connecticut 06460

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802

Environmental Data Resources, Inc.

City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist professionals in evaluating potential liability on a target property resulting from past activities. ASTM E 1527-00, 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 means 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 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-00 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 1527-00, Section 7.3.2, page 12.)

EDR's City Directory Abstract includes a search and abstract of available city directory data.

City Directories

City directories have been published for cities and towns across the U.S. since the 1700s. Originally a list of residents, the city directory developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, and a street index. With each address, the directory lists the name of the resident or, if a business is operated from this address, the name and type of business (if unclear from the name). While city directory coverage is comprehensive for major cities, it may be spotty for rural areas and small towns. ASTM E 1527-00 specifies that a *"review of city directories (standard historical sources) at less than approximately five year intervals is not required by this practice."* (ASTM E 1527-00, Section 7.3.2.1, page 12.)

NAICS (North American Industry Classification System) Codes

NAICS is a unique, all-new system for classifying business establishments. Adopted in 1997 to replace the prior Standard Industry Classification (SIC) system, it is the system used by the statistical agencies of the United States. It is the first economic classification system to be constructed based on a single economic concept. To learn more about the background, the development and difference between NAICS and SIC, visit the following Census website: <http://www.census.gov/epcd/www/naicsdev.htm>.

Please call EDR Nationwide Customer Service at
1-800-352-0050 (8am-8pm EST)
with questions or comments about your report.
Thank you for your business!

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4. SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1929 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources:
City Directories Jul 11, 2005

Target Property:
1310 South Cochran Street
Charlotte, MI 48813

<u>PUR ID</u>			
<u>Year</u>	<u>Uses</u>	<u>NAICS</u>	<u>Source</u>
-- 1929	Address not Listed in Research Source	N/A	Polk's City Directory
-- 1944	Address not Listed in Research Source	N/A	Polk's City Directory
-- 1947	Address not Listed in Research Source	N/A	Polk's City Directory
-- 1951	Address not Listed in Research Source	N/A	Polk's City Directory
-- 1957	Address not Listed in Research Source	N/A	Robinson's City Directory
-- 1962	Address not Listed in Research Source	N/A	Robinson's City Directory
-- 1968	119th Artillery Armory		Robinson's City Directory
-- 1972	119th Artillery Armory		Robinson's City Directory
-- 1976	119th Artillery Armory		Robinson's City Directory
-- 1981	119th Artillery Armory Unemployment Insurance		Robinson's City Directory
-- 1985	Charlotte Armory National Guard		Bresser's Criss-Cross Directory
-- 1990	Charlotte Armory USNG Recruiting		Bresser's Criss-Cross Directory
-- 1995	Charlotte Armory Michigan Army National Guard		Bresser's Criss-Cross Directory
-- 2000	Charlotte Armory Michigan Army National Guard		Bresser's Criss-Cross Directory
-- 2005	Charlotte Armory Michigan Army National Guard		Bresser's Criss-Cross Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Charlotte, MI 48813

PUR ID

<i>Year</i>	<i>Uses</i>	<i>NAICS</i>	<i>Source</i>
1929	<u>**SOUTH COCHRAN STREET**</u>	.	Polk's City Directory
	Address not listed in research source (1208)	N/A	
	Address not listed in research source (1212)	N/A	
	Address not listed in research source (1214)	N/A	
	Armory (ws) (Unnumbered)		
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (1225)	N/A	
	Address not listed in research source (1305)	N/A	
	Address not listed in research source (1325)	N/A	
	-All Addresses Beyond 1000 Block S. Cochran are Unnumbered		
	<u>**TIRRELL ROAD**</u>	.	
	Street not listed in research source		
1944	<u>**SOUTH COCHRAN STREET**</u>	.	Polk's City Directory
	Address not listed in research source (1208)	N/A	
	Address not listed in research source (1212)	N/A	
	Address not listed in research source (1214)	N/A	
	Armory (ws) (Unnumbered)		
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (1225)	N/A	
	Address not listed in research source (1305)	N/A	
	Address not listed in research source (1325)	N/A	
	-No Other Addresses Listed Beyond 1000 Block South Cochran		
	<u>**TIRRELL ROAD**</u>	.	
	Street not listed in research source		
1947	<u>**SOUTH COCHRAN STREET**</u>	.	Polk's City Directory
	Address not listed in research source (1208)	N/A	
	Address not listed in research source (1212)	N/A	
	Address not listed in research source (1214)	N/A	
	Armory (ws) (Unnumbered)		
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (Unnumbered)	N/A	
	Address not listed in research source (1225)	N/A	

<i>PUR ID</i>	<i>Year</i>	<i>Uses</i>	<i>NAICS</i>	<i>Source</i>
	1947 (continued)	Address not listed in research source (1305)	N/A	
		Address not listed in research source (1325)	N/A	
		-No Other Addresses Listed Beyond 1000 Block South Cochran		
		<u>**TIRRELL ROAD**</u>		
		Street not listed in research source		
	1951	<u>**SOUTH COCHRAN STREET**</u>		Polk's City Directory
		Address not listed in research source (1208)	N/A	
		Address not listed in research source (1212)	N/A	
		Address not listed in research source (1214)	N/A	
		Armory (ws) (Unnumbered)		
		Address not listed in research source (Unnumbered)	N/A	
		Address not listed in research source (Unnumbered)	N/A	
		Address not listed in research source (1225)	N/A	
		Address not listed in research source (1305)	N/A	
		Address not listed in research source (1325)	N/A	
		-No Other Addresses Listed Beyond 1000 Block South Cochran		
		<u>**TIRRELL ROAD**</u>		
		Street not listed in research source		
	1957	<u>**SOUTH COCHRAN STREET**</u>		Robinson's City Directory
		Nelson Auto Finance (1208)		
		Residence (1212)		
		Residence (1214)		
		National Guard Armory (Unnumbered)		
		Water Works (Unnumbered)		
		Bennett Park (Unnumbered)		
		Address not listed in research source (1225)	N/A	
		Address not listed in research source (1305)	N/A	
		Address not listed in research source (1325)	N/A	
		-No Other Addresses Listed 1300-1400 Block South Cochran St.		
		<u>**TIRRELL ROAD**</u>		
		Address not listed in research source (301)	N/A	
	1962	<u>**SOUTH COCHRAN STREET**</u>		Robinson's City Directory
		Residence (1208)		
		Residence (1212)		
		Residence (1214)		
		119th Artillery (Unnumbered)		
		Charlotte Waterworks (1225)		
		Address not listed in research source (1305)	N/A	
		Address not listed in research source (1325)	N/A	

<i>PUR ID</i>	<i>Year</i>	<i>Uses</i>	<i>NAICS</i>	<i>Source</i>
	1962 (continued)	-No Other Addresses Listed 1300-1400 Block South Cochran St. <u>**TIRRELL ROAD**</u> Address not listed in research source (301)	N/A	
	1968	<u>**SOUTH COCHRAN STREET**</u> Residence (1208) Residence (1212) Residence (1214) Bennett Park (1305) Charlotte Waterworks (1325) -No Other Addresses Listed 1300-1400 Block South Cochran St. <u>**TIRRELL ROAD**</u> Mich. State Dept. Highway Maint. Div. (301)		Robinson's City Directory
	1972	<u>**SOUTH COCHRAN STREET**</u> Residence (1208) Residence (1212) Residence (1214) Maple City Concession Stand (1305) Bennett Park (1305) Charlotte Waterworks (1325) -No Other Addresses Listed 1300-1400 Block South Cochran St. <u>**TIRRELL ROAD**</u> Mich. State Dept. Highway Maint. Div. (301)		Robinson's City Directory
	1976	<u>**SOUTH COCHRAN STREET**</u> Residence (1208) Residence (1212) Residence (1214) Maple City Concession Stand (1305) Bennett Park (1305) Charlotte Waterworks (1325) -No Other Addresses Listed 1300-1400 Block South Cochran St. <u>**TIRRELL ROAD**</u> Mich. State Dept. Highway Maint. Div. (301)		Robinson's City Directory
	1981	<u>**SOUTH COCHRAN STREET**</u> Residence (1208) Residence (1212) Residence (1214) Bennett Park (1305) -No Other Addresses Listed 1300-1400 Block South Cochran St.		Robinson's City Directory

<i>PUR ID</i>	<i>Year</i>	<i>Uses</i>	<i>NAICS</i>	<i>Source</i>
	1981 (continued)	<p><u>**TIRRELL ROAD**</u></p> <p>Charlotte Dept. of Public Works Garage (301)</p>		
	1985	<p><u>**SOUTH COCHRAN STREET**</u></p> <p>Residence (1208)</p> <p>Residence (1212)</p> <p>Residence (1214)</p> <p>Cty. Bennett Park (1305)</p> <p>-No Other Addresses Listed 1300-1400 Block South Cochran St.</p> <p><u>**TIRRELL ROAD**</u></p> <p>Charlotte City Garage & Warehouse (301)</p>		Bresser''s Criss-Cross Directory
	1990	<p><u>**SOUTH COCHRAN STREET**</u></p> <p>Residence (1208)</p> <p>No Return (1212)</p> <p>Residence (1214)</p> <p>-No Other Addresses Listed 1300-1400 Block South Cochran St.</p> <p><u>**TIRRELL ROAD**</u></p> <p>Charlotte City Garage & Warehouse (301)</p>		Bresser''s Criss-Cross Directory
	1995	<p><u>**SOUTH COCHRAN STREET**</u></p> <p>Residence (1208)</p> <p>No Return (1212)</p> <p>Residence (1214)</p> <p>-No Other Addresses Listed 1300-1400 Block South Cochran St.</p> <p><u>**TIRRELL ROAD**</u></p> <p>Charlotte City Garage & Warehouse (301)</p>		Bresser''s Criss-Cross Directory
	2000	<p><u>**SOUTH COCHRAN STREET**</u></p> <p>Residence (1208)</p> <p>No Return (1212)</p> <p>Residence (1214)</p> <p>-No Other Addresses Listed Beyond 1310 South Cochran Street</p> <p><u>**TIRRELL ROAD**</u></p> <p>Charlotte City Garage & Warehouse (301)</p>		Bresser''s Criss-Cross Directory
	2005	<p><u>**SOUTH COCHRAN STREET**</u></p> <p>Residence (1208)</p> <p>Residence (1212)</p> <p>Residence (1214)</p> <p>-No Other Addresses Listed Beyond 1310 South Cochran Street</p> <p><u>**TIRRELL ROAD**</u></p>		Bresser''s Criss-Cross Directory

<i>PUR ID</i>			
<u><i>Year</i></u>	<u><i>Uses</i></u>	<u><i>NAICS</i></u>	<u><i>Source</i></u>
2005 (continued)	Charlotte City Garage & Warehouse (301)		