

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

H57
SE
1/8-1/4
0.240 mi.
1269 ft.

FED EX FREIGHT
3740 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548

Site 27 of 38 in cluster H

RCRA-CESQG
FINDS
UST

1000465296
MID985599281

Relative:
Higher

RCRA-CESQG:

Actual:
679 ft.

Date form received by agency: 08/04/2003
Facility name: FED EX FREIGHT
Facility address: 3740 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MID985599281
Contact: KIM BANOTCHEN
Contact address: 3740 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 475-9985
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: FED EX FREIGHT EAST
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/04/2003
Owner/Op end date: Not reported

Owner/operator name: FED EX FREIGHT EAST
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/04/2003
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FED EX FREIGHT (Continued)

1000465296

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 11/19/1990
Facility name: FED EX FREIGHT
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110003647974

Environmental Interest/Information System

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FED EX FREIGHT (Continued)

1000465296

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

UST:

Facility ID: 00000465
Facility Type: CLOSED
Latitude: 42.8965930000
Longitude: -85.6699230000
Owner Name: David L Toering
Owner Address: 3714 Buchanan Ave SW
Owner City,St,Zip: Grand Rapids, MI 49548-3110
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 245-0271
Contact: DAVID L. TOERING
Contact Phone: (616) 245-0271
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Mar 17 1966
Product: Diesel
Remove Date: Sep 27 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 15000
Install Date: Mar 17 1966
Product: Gasoline
Remove Date: Sep 27 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H58 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 28 of 38 in cluster H	HMIRS	9999061281 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H59	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 29 of 38 in cluster H	HMIRS	9900017056 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H60	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 30 of 38 in cluster H	HMIRS	2003126833 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H61	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 31 of 38 in cluster H	HMIRS	2003124986 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H62	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 32 of 38 in cluster H	HMIRS	9900003834 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H63	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 33 of 38 in cluster H	HMIRS	200110659 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft.			

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
H64 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 34 of 38 in cluster H	HMIRS	9998110292 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H65 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 35 of 38 in cluster H	HMIRS	9900014609 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H66 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SW 3740 BUCHANAN SW WYOMING, MI 49548 Site 36 of 38 in cluster H	ERNS	93307552 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.		
Actual: 679 ft. H67 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 37 of 38 in cluster H	HMIRS	9999081164 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. H68 SE 1/8-1/4 0.240 mi. 1269 ft.	3740 BUCHANAN SOUTHWEST WYOMING, MI Site 38 of 38 in cluster H	HMIRS	20011009 N/A
Relative: Higher	Click this hyperlink while viewing on your computer to access additional HMIRS detail in the EDR Site Report.		
Actual: 679 ft. G69 East 1/4-1/2 0.253 mi. 1336 ft.	GODWIN HEIGHTS SCHOOLS 111 36TH ST SW GRAND RAPIDS, MI 49548 Site 3 of 4 in cluster G	RCRA-CESQG	1007096995 MIK283969483
Relative: Higher	RCRA-CESQG: Date form received by agency: 07/26/2001 Facility name: GODWIN HEIGHTS SCHOOLS Facility address: 111 36TH ST SW GRAND RAPIDS, MI 49548		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS SCHOOLS (Continued)

1007096995

EPA ID: MIK283969483
Contact: BRIAN SARTIN
Contact address: 111 36TH ST SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-0375
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: GODWIN HEIGHTS PUBLIC SCHOOLS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 07/26/2001
Owner/Op end date: Not reported

Owner/operator name: GODWIN HEIGHTS PUBLIC SCHOOLS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: 07/26/2001
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GODWIN HEIGHTS SCHOOLS (Continued)

1007096995

User oil refiner: No
 Used oil fuel marketer to burner: No
 Used oil Specification marketer: No
 Used oil transfer facility: No
 Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Lamps
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Pesticides
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Thermostats
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY SWITCHES
 Accumulated waste on-site: No
 Generated waste on-site: No

Violation Status: No violations found

G70
East
1/4-1/2
0.253 mi.
1336 ft.

GODWIN HEIGHTS SCHOOLS
111 36TH ST SW
GRAND RAPIDS, MI 49548
Site 4 of 4 in cluster G

FINDS 1007137017
N/A

Relative:
Higher

FINDS:

Registry ID: 110015851112

Actual:
680 ft.

Environmental Interest/Information System

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

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

I71 SSW 1/4-1/2 0.285 mi. 1506 ft.	3773 CLAY AVE SW 3773 CLAY AVE SW GRAND RAPIDS, MI Site 1 of 3 in cluster I	HMIRS	2008435092 N/A
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Relative: [Click this hyperlink](#) while viewing on your computer to access additional HMIRS detail in the EDR Site Report.

Lower

Actual: 664 ft. I72 SSW 1/4-1/2 0.285 mi. 1506 ft.	VITRAN EXPRESS 3773 CLAY AVE SW GRAND RAPIDS, MI 49548 Site 2 of 3 in cluster I	RCRA-CESQG FINDS LUST UST	1001077825 MIR000007930
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Relative: RCRA-CESQG:
Lower Date form received by agency: 12/31/2001
Facility name: VITRAN EXPRESS
Facility address: 3773 CLAY AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MIR000007930
Mailing address: PO BOX 7004
INDIANAPOLIS, IN 46207
Contact: STEVE AMAN
Contact address: 3773 CLAY AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (317) 803-4060
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: VITRAN EXPRESS MIR000007930
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/05/1999
Owner/Op end date: Not reported

Owner/operator name: VITRAN EXPRESS MIR000007930
Owner/operator address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VITRAN EXPRESS (Continued)

1001077825

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 06/05/1999
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VITRAN EXPRESS (Continued)

1001077825

Historical Generators:

Date form received by agency: 08/19/2001
Facility name: VITRAN EXPRESS
Classification: Small Quantity Generator

Date form received by agency: 12/21/2000
Facility name: VITRAN EXPRESS
Classification: Not a generator, verified

Date form received by agency: 10/31/1995
Facility name: VITRAN EXPRESS
Classification: Small Quantity Generator

Date form received by agency: 09/12/1995
Facility name: VITRAN EXPRESS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/09/1980
Facility name: VITRAN EXPRESS
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/01/1980
Facility name: VITRAN EXPRESS
Classification: Not a generator, verified

Date form received by agency: 01/01/1980
Facility name: VITRAN EXPRESS
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 10/24/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003691434

Environmental Interest/Information System

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LUST:

Facility ID: 00016761
Source: STATE OF MICHIGAN
Owner Name: Overland Trans
Owner Address: 3773 CLAY S W

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VITRAN EXPRESS (Continued)

1001077825

Owner City,St,Zip: GRAND RAPIDS, MI 49548
Owner Contact: Not reported
Owner Phone: (616) 249-9060
Country: USA
District: Grand Rapids District Office
Site Name: Overland Transportation
Latitude: 42.8967170000
Longitude: -85.6760280000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1543-90
Release Date: Aug 16 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Jul 19 1995

UST:

Facility ID: 00016761
Facility Type: CLOSED
Latitude: 42.8967170000
Longitude: -85.6760280000
Owner Name: Overland Trans
Owner Address: 3773 CLAY S W
Owner City,St,Zip: GRAND RAPIDS, MI 49548
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 249-9060
Contact: JOHN DEPIETRO
Contact Phone: (616) 249-9060
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Apr 18 1972
Product: Diesel
Remove Date: Aug 17 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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I73 SSW 1/4-1/2 0.285 mi. 1506 ft.	3773 CLAY AVE SW 3773 CLAY AVE SW GRAND RAPIDS, MI Site 3 of 3 in cluster I	HMIRS	2008443941 N/A
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Relative: [Click this hyperlink](#) while viewing on your computer to access additional HMIRS detail in the EDR Site Report.
Lower

Actual: 664 ft. 74 NE 1/4-1/2 0.300 mi. 1582 ft.	NORTH GODWIN ELEMENTARY SCHOOL 161 34TH STREET SW WYOMING, MI 49548	FINDS	1008286150 N/A
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Relative: FINDS:
Higher

Registry ID: 110036844467

Environmental Interest/Information System
 NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education sciences.

75 West 1/4-1/2 0.316 mi. 1670 ft.	WYOMING SELF STORAGE 533 36TH ST SW WYOMING, MI 49509	RCRA-NonGen FINDS	1006808467 MIK715885711
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Relative: RCRA-NonGen:
Higher

Date form received by agency: 12/31/2002
 Facility name: WYOMING SELF STORAGE
 Facility address: 533 36TH ST SW
 WYOMING, MI 49509
 EPA ID: MIK715885711
 Contact: TONY MANGIONE
 Contact address: 533 36TH ST SW
 WYOMING, MI 49509
 Contact country: Not reported
 Contact telephone: (616) 531-7560
 Contact email: Not reported
 EPA Region: 05
 Land type: Private
 Classification: Non-Generator
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CREMCO LLC
 Owner/operator address: Not reported
 Not reported
 Owner/operator country: Not reported
 Owner/operator telephone: Not reported
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: 01/01/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WYOMING SELF STORAGE (Continued)

1006808467

Owner/Op end date: Not reported

Owner/operator name: CREMCO LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2000
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WYOMING SELF STORAGE (Continued)

1006808467

Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 06/21/2002
Facility name: WYOMING SELF STORAGE
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: TSD - Container Use and Management
Date violation determined: 04/23/2002
Date achieved compliance: 11/13/2002
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 04/23/2002
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - Container Use and Management
Date achieved compliance: 11/13/2002
Evaluation lead agency: State

FINDS:

Registry ID: 110013385121

Environmental Interest/Information System

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

J76
SSE
1/4-1/2
0.321 mi.
1698 ft.

3818 BUCHANAN AVENUE
3818 BUCHANAN AVENUE
WYOMING, MI
Site 1 of 4 in cluster J

ERNS 2008861832
N/A

Relative:
Higher

[Click this hyperlink](#) while viewing on your computer to access additional ERNS detail in the EDR Site Report.

Actual:
679 ft.

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

K77 ENE 1/4-1/2 0.329 mi. 1739 ft.	GODWIN HEIGHTS SENIOR HIGH SCHOOL 50 35TH STREET SW WYOMING, MI 49548 Site 1 of 2 in cluster K	FINDS	1008286149 N/A
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Relative: Higher Actual: 677 ft.	<p>Relative: FINDS:</p> <p>Registry ID: 110021772991</p> <p>Environmental Interest/Information System</p> <p>NCES (National Center for Education Statistics) is the primary federal entity for collecting and analyzing data related to education in the United States and other nations and the institute of education sciences.</p> <p>RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.</p>
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K78 ENE 1/4-1/2 0.329 mi. 1739 ft.	GODWIN HEIGHTS SCHOOLS 50 35TH ST SW WYOMING, MI 49548 Site 2 of 2 in cluster K	RCRA-CESQG	1004723866 MID985650365
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Relative: Higher Actual: 677 ft.	<p>Relative: RCRA-CESQG:</p> <p>Date form received by agency: 08/24/1992</p> <p>Facility name: GODWIN HEIGHTS SCHOOLS</p> <p>Facility address: 50 35TH ST SW WYOMING, MI 49548</p> <p>EPA ID: MID985650365</p> <p>Contact: BRIAN SARTUB</p> <p>Contact address: 50 35TH ST SW WYOMING, MI 49548</p> <p>Contact country: Not reported</p> <p>Contact telephone: (616) 245-0375</p> <p>Contact email: Not reported</p> <p>EPA Region: 05</p> <p>Classification: Conditionally Exempt Small Quantity Generator</p> <p>Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste</p>
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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS SCHOOLS (Continued)

1004723866

Owner/Operator Summary:

Owner/operator name: GODWIN HEIGHTS PUBLIC HS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1972
Owner/Op end date: Not reported

Owner/operator name: GODWIN HEIGHTS PUBLIC HS
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1972
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

GODWIN HEIGHTS SCHOOLS (Continued)

1004723866

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY SWITCHES
 Accumulated waste on-site: No
 Generated waste on-site: No

Historical Generators:

Date form received by agency: 01/01/1980
 Facility name: GODWIN HEIGHTS SCHOOLS
 Classification: Not a generator, verified

Violation Status: No violations found

J79
SSE
 1/4-1/2
 0.337 mi.
 1780 ft.

GRAND RAPIDS COMMERCIAL HEAT
3832 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548

Site 2 of 4 in cluster J

UST U003329134
N/A

Relative:
Higher

UST:
 Facility ID: 00032880
 Facility Type: CLOSED
 Latitude: 42.8945990000
 Longitude: -85.6698670000
 Owner Name: Grand Rapids Commercial Heat
 Owner Address: 2199 15 Mile Rd Se
 Owner City, St, Zip: Sparta, MI 49548-8556
 Owner Country: USA
 Owner Contact: Not reported
 Owner Phone: (616) 698-3209
 Contact: John Hickey
 Contact Phone: (616) 696-3209
 Date of Collection: 01-11-2001
 Accuracy: 100
 Accuracy Value Unit: FEET
 Horizontal Datum: NAD83
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)
 Method of Collection: Address Matching-House Number

Actual:
679 ft.

Tank ID: 1
Tank Status: Removed from Ground
 Capacity: 8000
 Install Date: Jun 23 1980
 Product: QUENCH OIL
 Remove Date: Feb 7 2001
 Tank Release Detection: Not reported
 Pipe Release Detection: Not reported
 Piping Material: Galvanized Steel
 Piping Type: Not reported
 Constr Material: Asphalt Coated or Bare Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND RAPIDS COMMERCIAL HEAT (Continued)

U003329134

Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 100
Install Date: Not reported
Product: Gasoline
Remove Date: Feb 7 2001
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

J80
SSE
1/4-1/2
0.337 mi.
1780 ft.

3832 BUCHANAN AVE.
3832 BUCHANAN AVE.
WYOMING, MI
Site 3 of 4 in cluster J

BEA S105094880
N/A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 938
District: Grand Rapids
Date Received: 8/31/2001 12:59:00 AM
Submitter Name: 3832 Buchanan Properties, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: obrient1
Division Assigned: Environmental Response Division

Actual:
679 ft.

J81
SSE
1/4-1/2
0.346 mi.
1827 ft.

COMMERCIAL HEAT TREATING CO
3840 BUCHANAN SW
WYOMING, MI 49548
Site 4 of 4 in cluster J

UST U003790707
N/A

Relative:
Higher

UST:
Facility ID: 00040617
Facility Type: CLOSED
Latitude: 42.8959590000
Longitude: -85.6694410000
Owner Name: Grand Rapids Commercial Heat
Owner Address: 2199 15 Mile Rd Se
Owner City,St,Zip: Sparta, MI 49548-8556
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 698-3209
Contact: MR JOHN HICKEY
Contact Phone: (616) 696-3209
Date of Collection: 07-03-2006
Accuracy: 15

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COMMERCIAL HEAT TREATING CO (Continued)

U003790707

Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Gasoline
Remove Date: Feb 7 2001
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

82
SW
1/4-1/2
0.364 mi.
1924 ft.

MODERN MOLDS, INC
3831 CLAY AVE
WYOMING, MI 49508

UST U003866459
N/A

Relative:
Lower

UST:
Facility ID: 00003756
Facility Type: CLOSED
Latitude: 42.8958800000
Longitude: -85.6760450000
Owner Name: Modern Molds, Inc
Owner Address: 3831 CLAY AVE
Owner City,St,Zip: WYOMING, MI 49508
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 538-3190
Contact: T. KUSMIERSKI
Contact Phone: (616) 538-3190
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Actual:
670 ft.

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Apr 22 1972
Product: Gasoline
Remove Date: Jan 3 1992
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MODERN MOLDS, INC (Continued)

U003866459

Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

L83
West
1/4-1/2
0.385 mi.
2031 ft.

PRO-GAS SALES & SERVICE CO
601 36TH ST SW
WYOMING, MI 49509
Site 1 of 2 in cluster L

AST A100206860
N/A

Relative:
Higher

AST:
Type: CLOSED
Owner Name: Pro-Gas Sales & Service Co
Owner Address: 0-13751 Ironwood Dr
Owner City,St,Zip: Grand Rapids, MI 49504
Owner County: USA
Owner Contact: Not reported
Owner Telephone: (616) 677-5227
Facility ID: 92041162
District: Grand Rapids District Office
Contact: TIM MEDENDORP
Facility Phone: (616) 531-2700
Tank ID: 1
Tank Status: Removed from Premises
Capacity: 1850
Install Date: Dec 6 1982
Close Date: May 16 1995
Content: Liquid Propane Gas
Latitude: 42.8988450000
Longitude: -85.6802960000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

M84
SSE
1/4-1/2
0.403 mi.
2128 ft.

CONICAL TOOL COMPANY
3890 BUCHANAN AVENUE SW
WYOMING, MI 49548
Site 1 of 3 in cluster M

BEA S106425655
N/A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 1428
District: Grand Rapids
Date Received: 5/19/2004 12:59:00 AM
Submitter Name: Conical Real Estate, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: pawlosj2
Division Assigned: Environmental Response Division

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONICAL TOOL COMPANY (Continued)

S106425655

Secondary Address: Not reported
BEA Number: 1427
District: Grand Rapids
Date Received: 5/19/2004 12:59:00 AM
Submitter Name: Cut Above Tool Company, Inc.
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: pawlosj2
Division Assigned: Environmental Response Division

**M85
SSE
1/4-1/2
0.403 mi.
2128 ft.**

**CONICAL TOLL CO
3890 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548**

**RCRA-CESQG 1004722281
FINDS MI0000264929**

Site 2 of 3 in cluster M

**Relative:
Higher**

RCRA-CESQG:

Date form received by agency: 05/02/1994
Facility name: CONICAL TOLL CO
Facility address: 3890 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MI0000264929
Contact: HARRIET STANABACK
Contact address: 3890 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 531-8500
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Actual:
679 ft.**

Owner/Operator Summary:

Owner/operator name: STANBACK HARRIET
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONICAL TOLL CO (Continued)

1004722281

Owner/operator name: STANBACK HARRIET
Owner/operator address: Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CONICAL TOLL CO (Continued)

1004722281

Violation Status: No violations found
 FINDS:

Registry ID: 110003564768

Environmental Interest/Information System

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

N86
East
1/4-1/2
0.404 mi.
2132 ft.

3603 SOUTH DIVISION
GRAND RAPIDS, MI

SPILLS S105977329
N/A

Site 1 of 4 in cluster N

Relative:
Higher

MI PEAS:

Incident Date: 06/15/2001
 Date Of PEAS Call: 06/15/2001
 Complainant / Company: Cheryl w/Consumers Energy
 Complainant Address: 4000 Clay Ave.
 Company Involved: Cheryl w/Consumers Energy
 DEQ Division Involved: ERD
 Incident Description: Transformer overheated and released mineral oil onto the pavement.
 Clean-up has been completed.
 Description: Not reported

Actual:
679 ft.

N87
East
1/4-1/2
0.404 mi.
2132 ft.

TIMMERS SERVICE CENTER
3600 DIVISION AVE S
GRAND RAPIDS, MI 49548

LUST U003867943
UST N/A

Site 2 of 4 in cluster N

Relative:
Higher

LUST:

Facility ID: 00034055
 Source: STATE OF MICHIGAN
 Owner Name: Charles C. Saur
 Owner Address: 1415 Forrester St SE
 Owner City,St,Zip: Grand Rapids, MI 49508-1427
 Owner Contact: Not reported
 Owner Phone: (616) 245-7552
 Country: USA
 District: Grand Rapids District Office
 Site Name: Timmer's Service
 Latitude: 42.8983610000
 Longitude: -85.6650630000
 Date of Collection: 01-11-2001
 Method of Collection: Address Matching-House Number
 Accuracy: 100
 Accuracy Value Unit: FEET
 Horizontal Data: NAD83
 Point Line Area: POINT

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TIMMERS SERVICE CENTER (Continued)

U003867943

Desc Category: Plant Entrance (Freight)

Leak Number: C-1128-90
Release Date: Jun 20 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00034055
Facility Type: CLOSED
Latitude: 42.8983610000
Longitude: -85.6650630000
Owner Name: Charles C. Saur
Owner Address: 1415 Forrester St SE
Owner City,St,Zip: Grand Rapids, MI 49508-1427
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 245-7552
Contact: GERALD B. TIMMER
Contact Phone: (616) 245-3688
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Not reported
Product: Gasoline
Remove Date: Jun 19 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

N88
East
1/4-1/2
0.405 mi.
2136 ft.

ENAMELITE INDUSTRIES INC
3610 DIVISION AVE S
GRAND RAPIDS, MI 49548
Site 3 of 4 in cluster N

RCRA-NonGen **1000297421**
FINDS **MID006409403**

Relative:
Higher

RCRA-NonGen:
Date form received by agency: 04/06/1983
Facility name: ENAMELITE INDUSTRIES INC
Facility address: 3610 DIVISION AVE S
GRAND RAPIDS, MI 49548
EPA ID: MID006409403
Contact: EDWARD NASH
Contact address: 3610 DIVISION AVE S
GRAND RAPIDS, MI 49548

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENAMELITE INDUSTRIES INC (Continued)

1000297421

Contact country: Not reported
Contact telephone: (616) 452-1591
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/03/1970
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/03/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENAMELITE INDUSTRIES INC (Continued)

1000297421

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/02/1994
Date achieved compliance: 04/01/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/02/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/11/1989
Date achieved compliance: 01/24/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/12/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/11/1989
Date achieved compliance: 01/24/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/12/1989
Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENAMELITE INDUSTRIES INC (Continued)

1000297421

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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/30/1987
Date achieved compliance: 09/04/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 07/30/1987
Date achieved compliance: 09/04/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/07/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 07/08/1986
Date achieved compliance: 09/10/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/08/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 01/31/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/01/1994
Evaluation lead agency: State

Evaluation date: 01/11/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ENAMELITE INDUSTRIES INC (Continued)

1000297421

Area of violation: Generators - General
Date achieved compliance: 01/24/1989
Evaluation lead agency: State

Evaluation date: 01/11/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 01/24/1989
Evaluation lead agency: State

Evaluation date: 02/19/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/30/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/04/1987
Evaluation lead agency: State

Evaluation date: 07/30/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/04/1987
Evaluation lead agency: State

Evaluation date: 07/08/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/10/1986
Evaluation lead agency: State

FINDS:

Registry ID: 110003584283

Environmental Interest/Information System

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

N89 RITE AID #1823
East 3617 DIVISION AVE S
1/4-1/2 GRAND RAPIDS, MI 49548
0.408 mi.
2153 ft. Site 4 of 4 in cluster N

LUST U003329613
UST N/A

Relative:
Higher

LUST:
Facility ID: 00039023
Source: STATE OF MICHIGAN
Owner Name: Rite Aid of Michigan
Owner Address: Po Box 3165

Actual:
680 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RITE AID #1823 (Continued)

U003329613

Owner City,St,Zip: Harrisburg, PA 17105-3165
Owner Contact: Not reported
Owner Phone: (419) 578-2757
Country: USA
District: Grand Rapids District Office
Site Name: Rite Aid #1823
Latitude: 42.8979650000
Longitude: -85.6654180000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0302-96
Release Date: May 13 1996
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00039023
Facility Type: CLOSED
Latitude: 42.8979650000
Longitude: -85.6654180000
Owner Name: Rite Aid of Michigan
Owner Address: Po Box 3165
Owner City,St,Zip: Harrisburg, PA 17105-3165
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (419) 578-2757
Contact: KAREN SMITH
Contact Phone: (717) 731-4700
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Not reported
Product: Gasoline
Remove Date: May 2 1996
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel,Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Unknown
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RITE AID #1823 (Continued)

U003329613

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

90
East
1/4-1/2
0.414 mi.
2183 ft.

GODWIN HEIGHTS BODY SHOP
3622 DIVISION AVE S
GRAND RAPIDS, MI 49548

RCRA-CESQG **1004722925**
FINDS **MID982426744**
MANIFEST

Relative:
Higher

RCRA-CESQG:

Date form received by agency: 12/02/1991
Facility name: GODWIN HEIGHTS BODY SHOP
Facility address: 3622 DIVISION AVE S
GRAND RAPIDS, MI 49548
EPA ID: MID982426744
Contact: MARVIN TE SLAA
Contact address: 3622 DIVISION AVE S
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-1231
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Actual:
680 ft.

Owner/Operator Summary:

Owner/operator name: ROBERT YANDER PLOEG
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/03/1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS BODY SHOP (Continued)

1004722925

Owner/Op end date: Not reported

Owner/operator name: ROBERT YANDER PLOEG

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 12/03/1991

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Used oil transporter: No

Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: Lamps

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: Pesticides

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY SWITCHES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS BODY SHOP (Continued)

1004722925

Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

FINDS:

Registry ID: 110003629360

Environmental Interest/Information System

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

WI MANIFEST:

Year: 04
EPA ID: MID982426744
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS BODY SHOP (Continued)

1004722925

TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 07
EPA ID: MID982426744
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: 0
Contact Telephone: 0
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -
Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN HEIGHTS BODY SHOP (Continued)

1004722925

Waste LBS: Not reported

L91
West
1/4-1/2
0.419 mi.
2215 ft.

FOXCROFT APARTMENTS
636 36 N STREET
WYOMING, MI 49509
Site 2 of 2 in cluster L

FTTS 1008154968
HIST FTTS N/A
FINDS

Relative:
Higher

FTTS INSP:
Inspection Number: 20020709FAH13 2
Region: 05
Inspection Date: 07/09/02
Inspector: PATRONIK
Violation occurred: No
Investigation Type: Lead, Section 1018, SEE
Investigation Reason: For Cause, Government
Legislation Code: TSCA
Facility Function: Landlord/Renter Facility

Actual:
676 ft.

HIST FTTS INSP:
Inspection Number: 20020709FAH13 2
Region: 05
Inspection Date: Not reported
Inspector: PATRONIK
Violation occurred: No
Investigation Type: Lead, Section 1018, SEE
Investigation Reason: For Cause, Government
Legislation Code: TSCA
Facility Function: Landlord/Renter Facility

FINDS:

Registry ID: 110020511882

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

O92
ENE
1/4-1/2
0.433 mi.
2284 ft.

VALUE MKT EXPRESS #0476
3470 DIVISION AVE
GRAND RAPIDS, MI 49090
Site 1 of 4 in cluster O

LUST U003330586
UST N/A

Relative:
Higher

LUST:
Facility ID: 00012334
Source: STATE OF MICHIGAN
Owner Name: Fleming Brothers Oil Co

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALUE MKT EXPRESS #0476 (Continued)

U003330586

Owner Address: 6912 109th Avenue
Owner City,St,Zip: South Haven, MI 49090-9544
Owner Contact: Not reported
Owner Phone: (616) 637-5255
Country: USA
District: Grand Rapids District Office
Site Name: Clark Store #476
Latitude: 42.9006240000
Longitude: -85.6648960000
Date of Collection: 16-04-2001
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0144-04
Release Date: Apr 15 2004
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1158-97
Release Date: Nov 20 1997
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00012334
Facility Type: ACTIVE
Latitude: 42.9006240000
Longitude: -85.6648960000
Owner Name: Fleming Brothers Oil Co
Owner Address: 6912 109th Avenue
Owner City,St,Zip: South Haven, MI 49090-9544
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 637-5255
Contact: Eric O'Connor
Contact Phone: (616) 742-0950
Date of Collection: 16-04-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 6000
Install Date: May 2 1957
Product: Gasoline
Remove Date: Nov 19 1997
Tank Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALUE MKT EXPRESS #0476 (Continued)

U003330586

Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 2 1957
Product: Gasoline
Remove Date: Nov 19 1997
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 8000
Install Date: May 3 1971
Product: Gasoline
Remove Date: Nov 19 1997
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Currently In Use
Capacity: 12000
Install Date: Nov 21 1997
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: Fiberglass Reinforced Plastic, Double Walled
Impressed Device: No

Tank ID: 5
Tank Status: Currently In Use
Capacity: 12000
Install Date: Nov 21 1997
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors, Line Tightness Testing

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALUE MKT EXPRESS #0476 (Continued)

U003330586

Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: Fiberglass Reinforced Plastic, Double Walled
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

O93
ENE
1/4-1/2
0.433 mi.
2284 ft.

CLARK OIL CO
3470 S DIVISION AVE
GRAND RAPIDS, MI 49548

RCRA-CESQG **1000909302**
FINDS **MI0000858860**

Site 2 of 4 in cluster O

Relative:
Higher

RCRA-CESQG:

Date form received by agency: 12/31/2001

Facility name: CLARK OIL CO

Facility address: 3470 S DIVISION AVE
GRAND RAPIDS, MI 49548

EPA ID: MI0000858860

Mailing address: 3003 BUTTERFIELD ROAD
OAK BROOK, IL 60523

Contact: ERIC LARSON

Contact address: 3470 S DIVISION AVE
GRAND RAPIDS, MI 49548

Contact country: Not reported

Contact telephone: (734) 669-6155

Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLARK OIL CO (Continued)

1000909302

Owner/operator name: CLARK REFINING AND MARKETING INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: CLARK RETAIL ENTERPRISES, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 04/23/2003
Owner/Op end date: Not reported

Owner/operator name: CLARK RETAIL ENTERPRISES, INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 04/23/2003
Owner/Op end date: Not reported

Owner/operator name: CLARK REFINING AND MARKETING INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CLARK OIL CO (Continued)

1000909302

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 09/27/1994
Facility name: CLARK OIL CO
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003568461

Environmental Interest/Information System

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

M94
SSE
1/4-1/2
0.434 mi.
2289 ft.

TRAVIS TRUCK & AUTO COLLISION INC
148 39TH ST SW
WYOMING, MI 49548

RCRA-NonGen 1000324433
FINDS MID985577857

Site 3 of 3 in cluster M

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 12/31/2001

Facility name: TRAVIS TRUCK & AUTO COLLISION INC

Facility address: 148 39TH ST SW
WYOMING, MI 49548

EPA ID: MID985577857

Contact: SCOTT TRAVIS

Contact address: 148 39TH ST SW
WYOMING, MI 49548

Contact country: Not reported

Contact telephone: (616) 532-2286

Contact email: Not reported

EPA Region: 05

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
679 ft.

Owner/Operator Summary:

Owner/operator name: SCOTT C TRAVIS

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 12/01/1998

Owner/Op end date: Not reported

Owner/operator name: SCOTT C TRAVIS

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 12/01/1998

Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Mixed waste (haz. and radioactive): No

Recycler of hazardous waste: No

Transporter of hazardous waste: No

Treater, storer or disposer of HW: No

Underground injection activity: No

On-site burner exemption: No

Furnace exemption: No

Used oil fuel burner: No

Used oil processor: No

User oil refiner: No

Used oil fuel marketer to burner: No

Used oil Specification marketer: No

Used oil transfer facility: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TRAVIS TRUCK & AUTO COLLISION INC (Continued)

1000324433

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 04/16/1990
Facility name: TRAVIS TRUCK & AUTO COLLISION INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110006517242

Environmental Interest/Information System

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

O95
ENE
1/4-1/2
0.436 mi.
2304 ft.

3462 SOUTH DIVISION AVENUE
3462 SOUTH DIVISION AVENUE
WYOMING, MI 49548

BEA **S110055407**
N/A

Site 3 of 4 in cluster O

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 2608
District: Grand Rapids
Date Received: 11/10/2009 12:59:00 AM
Submitter Name: Swerbs Motors Inc
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: colesb
Division Assigned: Environmental Response Division

Actual:
679 ft.

P96
ESE
1/4-1/2
0.440 mi.
2326 ft.

GODWIN PLUMBING INC
3703 DIVISION AVE S
GRAND RAPIDS, MI 49548

LUST **U003866750**
UST **N/A**

Site 1 of 4 in cluster P

Relative:
Higher

LUST:
Facility ID: 00007787
Source: STATE OF MICHIGAN
Owner Name: Godwin Plumbing Inc
Owner Address: 3703 Division Ave S
Owner City,St,Zip: Grand Rapids, MI 49548-3249
Owner Contact: Not reported
Owner Phone: (616) 243-3131
Country: USA
District: Grand Rapids District Office
Site Name: Godwin Plumbing Inc
Latitude: 42.8966750000
Longitude: -85.6653740000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Actual:
679 ft.

Leak Number: C-0274-98
Release Date: Apr 15 1998
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: Jun 8 1999

UST:
Facility ID: 00007787
Facility Type: CLOSED
Latitude: 42.8966750000
Longitude: -85.6653740000
Owner Name: Godwin Plumbing Inc
Owner Address: 3703 Division Ave S
Owner City,St,Zip: Grand Rapids, MI 49548-3249

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GODWIN PLUMBING INC (Continued)

U003866750

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 243-3131
Contact: WALT DEVRIES
Contact Phone: (616) 243-3131
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Mar 27 1974
Product: Gasoline
Remove Date: Apr 14 1998
Tank Release Detection: Tank Tightness Testing
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: Yes

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

O97
ENE
1/4-1/2
0.443 mi.
2338 ft.

CRYSTAL FLASH ENERGY
3449 DIVISION AVE S
GRAND RAPIDS, MI 49548

AST A100172226
N/A

Site 4 of 4 in cluster O

Relative:
Higher

AST:
Type: CLOSED
Owner Name: Crystal Flash Energy
Owner Address: 1754 Alpine Ave NW
Owner City,St,Zip: Grand Rapids, MI 49504-2810
Owner County: USA
Owner Contact: Not reported
Owner Telephone: (616) 363-4851
Facility ID: 92041170
District: Grand Rapids District Office
Contact: AL REURINK

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CRYSTAL FLASH ENERGY (Continued)

A100172226

Facility Phone: (616) 241-2925
Tank ID: 1
Tank Status: Removed from Premises
Capacity: Not reported
Install Date: Not reported
Close Date: Sep 4 1991
Content: Liquid Propane Gas
Latitude: 42.9015310000
Longitude: -85.6655780000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: CLOSED
Owner Name: Crystal Flash Energy
Owner Address: 1754 Alpine Ave NW
Owner City,St,Zip: Grand Rapids, MI 49504-2810
Owner County: USA
Owner Contact: Not reported
Owner Telephone: (616) 363-4851
Facility ID: 92041170
District: Grand Rapids District Office
Contact: AL REURINK
Facility Phone: (616) 241-2925
Tank ID: 2
Tank Status: Removed from Premises
Capacity: 1000
Install Date: Sep 4 1991
Close Date: Apr 25 2000
Content: Liquid Propane Gas
Latitude: 42.9015310000
Longitude: -85.6655780000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

Type: CLOSED
Owner Name: Crystal Flash Energy
Owner Address: 1754 Alpine Ave NW
Owner City,St,Zip: Grand Rapids, MI 49504-2810
Owner County: USA
Owner Contact: Not reported
Owner Telephone: (616) 363-4851
Facility ID: 92041170
District: Grand Rapids District Office
Contact: AL REURINK
Facility Phone: (616) 241-2925

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CRYSTAL FLASH ENERGY (Continued)

A100172226

Tank ID: 3
Tank Status: Removed from Premises
Capacity: 1000
Install Date: Apr 27 2000
Close Date: Jan 10 2003
Content: Liquid Propane Gas
Latitude: 42.9015310000
Longitude: -85.6655780000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Nu

P98
ESE
1/4-1/2
0.446 mi.
2353 ft.

GODWIN HEIGHTS
3712 S DIVISION
WYOMING, MI 99999
Site 2 of 4 in cluster P

LUST **U000257377**
N/A

Relative:
Higher

LUST:

Actual:
679 ft.

Facility ID: 00014553
Source: STATE OF MICHIGAN
Owner Name: OWNER ADDRESS UNKNOWN
Owner Address: Not Recorded
Owner City,St,Zip: Not Recorded, XX 99999
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Grand Rapids District Office
Site Name: Godwin Heights Service Station (
Latitude: 42.8965800000
Longitude: -85.6649960000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0262-89
Release Date: Jun 14 1989
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

P99
ESE
1/4-1/2
0.446 mi.
2353 ft.

B AND R AUTOMOTIVE CENTER INC
3712 DIVISION AVE S
GRAND RAPIDS, MI 49548

RCRA-NonGen **1000529249**
FINDS **MID985616853**

Site 3 of 4 in cluster P

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 12/31/2001
Facility name: B AND R AUTOMOTIVE CENTER INC
Facility address: 3712 DIVISION AVE S
GRAND RAPIDS, MI 49548
EPA ID: MID985616853
Contact: RANDY GILLO
Contact address: 3712 DIVISION AVE S
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-8833
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
679 ft.

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B AND R AUTOMOTIVE CENTER INC (Continued)

1000529249

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 06/14/1991
Facility name: B AND R AUTOMOTIVE CENTER INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003659755

Environmental Interest/Information System

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

P100
ESE
1/4-1/2
0.446 mi.
2354 ft.

NAPA AUTO PARTS
3746 DIVISION AVE S
GRAND RAPIDS, MI 49548

Site 4 of 4 in cluster P

RCRA-NonGen **1000465220**
FINDS **MID985598499**

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 12/15/1995
Facility name: NAPA AUTO PARTS
Facility address: 3746 DIVISION AVE S
GRAND RAPIDS, MI 49548
EPA ID: MID985598499
Contact: MIKE BRAAT
Contact address: 3746 DIVISION AVE S
GRAND RAPIDS, MI 49548

Actual:
679 ft.

Contact country: Not reported
Contact telephone: (616) 241-4486
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: GENUINE PARTS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: GENUINE PARTS INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NAPA AUTO PARTS (Continued)

1000465220

Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 11/02/1990
Facility name: NAPA AUTO PARTS
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 11/22/1995
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003647439

Environmental Interest/Information System

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NAPA AUTO PARTS (Continued)

1000465220

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

101
SE
1/4-1/2
0.460 mi.
2429 ft.

MORALES AUTO BODY
100 39TH ST SW
WYOMING, MI 49548

RCRA-NonGen 1000299946
FINDS MID982625139

Relative:
Higher

RCRA-NonGen:

Actual:
679 ft.

Date form received by agency: 11/17/2008
Facility name: MORALES AUTO BODY
Facility address: 100 39TH ST SW
WYOMING, MI 49548
EPA ID: MID982625139
Contact: JOSE MORALES
Contact address: 100 39TH ST SW
WYOMING, MI 49548
Contact country: Not reported
Contact telephone: (616) 726-8022
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JOSE L MORALES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 11/17/2008
Owner/Op end date: Not reported

Owner/operator name: JOSE L MORALES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 11/17/2008
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MORALES AUTO BODY (Continued)

1000299946

Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Historical Generators:

Date form received by agency: 09/02/2003
Facility name: MORALES AUTO BODY
Classification: Not a generator, verified

Date form received by agency: 04/20/1989
Facility name: MORALES AUTO BODY
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003631703

Environmental Interest/Information System

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

Q102 **SUN PLASTIC COATING CO**
North **3000 HILLCROFT AVE SW**
1/4-1/2 **GRAND RAPIDS, MI 49548**
0.466 mi.
2462 ft. **Site 1 of 2 in cluster Q**

RCRA-NonGen **1000127961**
FINDS **MID080345127**

Relative:
Equal

RCRA-NonGen:
Date form received by agency: 08/19/1980
Facility name: SUN PLASTIC COATING CO
Facility address: 3000 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548

Actual:
672 ft.

EPA ID: MID080345127
Contact: GEORGE OSTERHOUT
Contact address: 3000 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (313) 453-0822
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SUN PLASTIC COATING CO (Continued)

1000127961

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/20/1980
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/20/1980
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SUN PLASTIC COATING CO (Continued)

1000127961

Generated waste on-site: No

 Waste type: MERCURY THERMOMETERS
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY SWITCHES
 Accumulated waste on-site: No
 Generated waste on-site: No

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 06/24/1997
 Evaluation: FOCUSED COMPLIANCE INSPECTION
 Area of violation: Not reported
 Date achieved compliance: Not reported
 Evaluation lead agency: State

FINDS:

Registry ID: 110003605055

Environmental Interest/Information System

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

R103
SSW
1/4-1/2
0.479 mi.
2527 ft.

RYDER TRUCK RENTAL
3663 CLAY AVE SW
GRAND RAPIDS, MI 49548

RCRA-NonGen **1000465709**
FINDS **MID985603505**

Site 1 of 2 in cluster R

Relative:
Higher

RCRA-NonGen:
 Date form received by agency: 12/01/2008
 Facility name: RYDER TRUCK RENTAL
 Facility address: 3663 CLAY AVE SW
 GRAND RAPIDS, MI 49548

Actual:
688 ft.

EPA ID: MID985603505
 Contact: JAMES LADNER
 Contact address: 3663 CLAY AVE SW
 GRAND RAPIDS, MI 49548

Contact country: Not reported
 Contact telephone: (616) 538-2800
 Contact email: Not reported

EPA Region: 05
 Land type: Private
 Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: RYDER TRUCK RENTAL INC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RYDER TRUCK RENTAL (Continued)

1000465709

Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/31/1990
Owner/Op end date: Not reported

Owner/operator name: RYDER TRUCK RENTAL INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/31/1990
Owner/Op end date: Not reported

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 10/21/2008
Facility name: RYDER TRUCK RENTAL
Classification: Large Quantity Generator

Date form received by agency: 08/29/2002
Facility name: RYDER TRUCK RENTAL
Classification: Small Quantity Generator

Date form received by agency: 12/31/1990
Facility name: RYDER TRUCK RENTAL
Classification: Small Quantity Generator

Date form received by agency: 01/01/1980
Facility name: RYDER TRUCK RENTAL
Classification: Not a generator, verified

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RYDER TRUCK RENTAL (Continued)

1000465709

Evaluation Action Summary:

Evaluation date: 01/31/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/30/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003651539

Environmental Interest/Information System

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

R104
SSW
1/4-1/2
0.479 mi.
2531 ft.

**3940 CLAY AVENUE SW
3940 CLAY AVENUE SW
WYOMING, MI**

**BEA S109171379
N/A**

Site 2 of 2 in cluster R

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 2325
District: Grand Rapids
Date Received: 6/27/2008 12:59:00 AM
Submitter Name: K&B Property Holdings LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: wierzbid
Division Assigned: Environmental Response Division

Actual:
688 ft.

Q105
North
1/4-1/2
0.480 mi.
2535 ft.

**EMCO MILLWORK INC
3117 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548**

**RCRA-NonGen 1000326250
FINDS MID006012884**

Site 2 of 2 in cluster Q

Relative:
Equal

RCRA-NonGen:
Date form received by agency: 03/19/1996
Facility name: EMCO MILLWORK INC
Facility address: 3117 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548

Actual:
672 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMCO MILLWORK INC (Continued)

1000326250

EPA ID: MID006012884
Contact: RICHARD LEMSON
Contact address: 3117 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 452-2244
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/03/1970
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/03/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

EMCO MILLWORK INC (Continued)

1000326250

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 10/02/1989
Facility name: EMCO MILLWORK INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 07/11/2008
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003583186

Environmental Interest/Information System

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

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

S106
NE
1/4-1/2
0.491 mi.
2592 ft.

3364 SOUTH DIVISION AVENUE
3364 SOUTH DIVISION AVENUE
WYOMING, MI 49548

BEA **S110055406**
N/A

Site 1 of 4 in cluster S

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 2609
District: Grand Rapids
Date Received: 11/10/2009 12:59:00 AM
Submitter Name: Swerbs Motors Inc.
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: heytg
Division Assigned: Environmental Response Division

Actual:
678 ft.

S107
NE
1/4-1/2
0.498 mi.
2627 ft.

AUTO BARN INC
3355 DIVISION AVE S
WYOMING, MI 49548

FINDS **1007136624**
N/A

Site 2 of 4 in cluster S

Relative:
Higher

FINDS:
Registry ID: 110015847020

Actual:
678 ft.

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

S108
NE
1/4-1/2
0.498 mi.
2627 ft.

AUTO BARN INC
3355 DIVISION AVE S
WYOMING, MI 49548

RCRA-CESQG **1007097185**
MIK319411278

Site 3 of 4 in cluster S

Relative:
Higher

RCRA-CESQG:
Date form received by agency: 01/30/2002
Facility name: AUTO BARN INC
Facility address: 3355 DIVISION AVE S
WYOMING, MI 49548
EPA ID: MIK319411278
Contact: TOM JACOB
Contact address: 3355 DIVISION AVE S
WYOMING, MI 49548
Contact country: Not reported
Contact telephone: (616) 247-1106
Contact email: Not reported
EPA Region: 05
Land type: Private

Actual:
678 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUTO BARN INC (Continued)

1007097185

Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: AUTO BARN INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/29/2002
Owner/Op end date: Not reported

Owner/operator name: H & H MGMT
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/29/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUTO BARN INC (Continued)

1007097185

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 09/06/2006
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

S109
NE
1/2-1
0.503 mi.
2655 ft.

FOX MOTOR GROUP LLC DBA FOX SAAB
3340 DIVISION AVE S
WYOMING, MI 49548
Site 4 of 4 in cluster S

RCRA-NonGen **1004722899**
FINDS **MID982204604**
LUST
UST

Relative:
Higher

RCRA-NonGen:
Date form received by agency: 07/10/2001
Facility name: FOX MOTOR GROUP LLC DBA FOX SAAB
Facility address: 3340 DIVISION AVE S
WYOMING, MI 49548
EPA ID: MID982204604
Contact: JOSEPH NIEWIEK
Contact address: 3340 DIVISION AVE S
WYOMING, MI 49548
Contact country: Not reported
Contact telephone: (616) 241-5623
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator

Actual:
678 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOX MOTOR GROUP LLC DBA FOX SAAB (Continued)

1004722899

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/18/2001
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/18/2001
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOX MOTOR GROUP LLC DBA FOX SAAB (Continued)

1004722899

Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 06/08/1987
Facility name: FOX MOTOR GROUP LLC DBA FOX SAAB
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003627754

Environmental Interest/Information System

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LUST:

Facility ID: 00002507
Source: STATE OF MICHIGAN
Owner Name: Green Castle Properties LLC
Owner Address: 200 Ottawa Avenue NW
Owner City, St, Zip: Grand Rapids, MI 49503
Owner Contact: Not reported
Owner Phone: (616) 774-4044
Country: USA
District: Grand Rapids District Office
Site Name: Fox Motor Group Llc
Latitude: 42.9032260000
Longitude: -85.6652670000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0831-00
Release Date: Oct 6 2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOX MOTOR GROUP LLC DBA FOX SAAB (Continued)

1004722899

Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00002507
Facility Type: CLOSED
Latitude: 42.9032260000
Longitude: -85.6652670000
Owner Name: Green Castle Properties LLC
Owner Address: 200 Ottawa Avenue NW
Owner City,St,Zip: Grand Rapids, MI 49503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 774-4044
Contact: JOE NIEWICK
Contact Phone: (616) 241-5623
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 500
Install Date: Jun 23 1972
Product: Used Oil
Remove Date: Oct 20 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Galvanized Steel
Piping Type: Gravity Fed?
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 250
Install Date: Not reported
Product: Used Oil
Remove Date: Oct 6 2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOX MOTOR GROUP LLC DBA FOX SAAB (Continued)

1004722899

Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

110
West
1/2-1
0.507 mi.
2675 ft.

PILGRIM CLEANERS
725 36TH ST SW
GRAND RAPIDS, MI 49509

RCRA-NonGen **1000375068**
FINDS **MID020884854**

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 10/23/1986
Facility name: PILGRIM CLEANERS
Facility address: 725 36TH ST SW
GRAND RAPIDS, MI 49509
EPA ID: MID020884854
Contact: HENRY ROMEYN
Contact address: 725 36TH ST SW
GRAND RAPIDS, MI 49509
Contact country: Not reported
Contact telephone: (616) 532-5868
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
680 ft.

Owner/Operator Summary:

Owner/operator name: ROWE MANAGEMENT CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/19/1994
Owner/Op end date: Not reported

Owner/operator name: ROWE MANAGEMENT CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/19/1994
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PILGRIM CLEANERS (Continued)

1000375068

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

FINDS:

Registry ID: 110003591355

Environmental Interest/Information System

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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

111
SE
1/2-1
0.511 mi.
2696 ft.

JIM WILLIAMS MOTEL
3821 DIVISION AVE S
GRAND RAPIDS, MI 49548

RCRA-NonGen **1007100533**
MIK845298397

Relative:
Higher

RCRA-NonGen:

Actual:
678 ft.

Date form received by agency: 05/16/2001
Facility name: JIM WILLIAMS MOTEL
Facility address: 3821 DIVISION AVE S
GRAND RAPIDS, MI 49548
EPA ID: MIK845298397
Contact: RAJ PATEL
Contact address: 3821 DIVISION AVE S
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 241-5461
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: JIM WILLIAMS MOTEL
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/16/2001
Owner/Op end date: Not reported

Owner/operator name: JIM WILLIAMS MOTEL
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/16/2001
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

JIM WILLIAMS MOTEL (Continued)

1007100533

Used oil transporter: No
 Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Lamps
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Pesticides
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Thermostats
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY SWITCHES
 Accumulated waste on-site: No
 Generated waste on-site: No

Violation Status: No violations found

T112
North
1/2-1
0.512 mi.
2703 ft.

METAL SOURCE
440 32ND ST SW
WYOMING, MI 60633
Site 1 of 2 in cluster T

UST U003329161
N/A

Relative:
Lower

UST:
 Facility ID: 00033195
 Facility Type: CLOSED
 Latitude: 42.9057640000
 Longitude: -85.6756240000
 Owner Name: US Steel Supply
 Owner Address: 13535 S Torrence
 Owner City,St,Zip: Chicago, IL 60633
 Owner Country: USA
 Owner Contact: Not reported
 Owner Phone: (312) 646-3211
 Contact: DAVID POTTS
 Contact Phone: (616) 241-4425
 Date of Collection: 01-11-2001
 Accuracy: 100
 Accuracy Value Unit: FEET
 Horizontal Datum: NAD83
 Source: STATE OF MICHIGAN

Actual:
661 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METAL SOURCE (Continued)

U003329161

Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 002
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Diesel
Remove Date: Jan 2 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 003
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Not reported
Product: COOLANT
Remove Date: Jan 2 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Concrete
Impressed Device: No

Tank ID: 005
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Not reported
Product: COOLANT
Remove Date: Jan 2 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Concrete
Impressed Device: No

Tank ID: 004
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Not reported
Product: COOLANT
Remove Date: Jan 2 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Concrete

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

METAL SOURCE (Continued)

U003329161

Impressed Device: No

Tank ID: 001
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Diesel
Remove Date: Jan 2 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

T113
NNW
1/2-1
0.515 mi.
2718 ft.

AMERICAN METAL AND PLASTICS INC
450 32ND ST SW
GRAND RAPIDS, MI 49548
Site 2 of 2 in cluster T

RCRA-CESQG 1000359454
FINDS MID004950846

Relative:
Lower

RCRA-CESQG:

Date form received by agency: 04/29/2003
Facility name: AMERICAN METAL AND PLASTICS INC
Facility address: 450 32ND ST SW
GRAND RAPIDS, MI 49548
EPA ID: MID004950846
Contact: JONAH BRYANT
Contact address: 450 32ND ST SW
GRAND RAPIDS, MI 49548

Actual:
660 ft.

Contact country: Not reported
Contact telephone: (616) 452-6061
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: COOK THOMAS M
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMERICAN METAL AND PLASTICS INC (Continued)

1000359454

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: COOK THOMAS M
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AMERICAN METAL AND PLASTICS INC (Continued)

1000359454

Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 12/31/2002
Facility name: AMERICAN METAL AND PLASTICS INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 01/27/1988
Facility name: AMERICAN METAL AND PLASTICS INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/21/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/08/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003578209

Environmental Interest/Information System

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

114
NE
1/2-1
0.524 mi.
2769 ft.

**SPEEDWAY #3571
3315 DIVISION AVE S
WYOMING, MI 49548**

**LUST U003867027
UST N/A**

**Relative:
Higher**

LUST:

Facility ID: 00011072
Source: STATE OF MICHIGAN
Owner Name: Speedway SuperAmerica LLC
Owner Address: PO Box 1500
Owner City, St, Zip: Springfield, OH 45501-1500
Owner Contact: Not reported

**Actual:
678 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #3571 (Continued)

U003867027

Owner Phone: (937) 864-3000
Country: USA
District: Grand Rapids District Office
Site Name: Crystal Flash-s. Division
Latitude: 42.9038430000
Longitude: -85.6660490000
Date of Collection: 16-04-2001
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1915-90
Release Date: Sep 28 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Aug 27 1998

UST:

Facility ID: 00011072
Facility Type: ACTIVE
Latitude: 42.9038430000
Longitude: -85.6660490000
Owner Name: Speedway SuperAmerica LLC
Owner Address: PO Box 1500
Owner City,St,Zip: Springfield, OH 45501-1500
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (937) 864-3000
Contact: Sean Cole
Contact Phone: (616) 452-1933
Date of Collection: 16-04-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: Currently In Use
Capacity: 12000
Install Date: Nov 1 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: ATG, Inventory Control, Automatic Tank Gauging
Pipe Release Detection: ALLD, Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: CLAD, Composite (Steel with Fiberglass)
Impressed Device: No

Tank ID: 3
Tank Status: Currently In Use

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #3571 (Continued)

U003867027

Capacity: 10000
Install Date: Nov 1 1990
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Inventory Control, Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: Composite (Steel with Fiberglass)
Impressed Device: No

Tank ID: 2
Tank Status: Currently In Use
Capacity: 10000
Install Date: Nov 1 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: ATG, Inventory Control, Automatic Tank Gauging
Pipe Release Detection: ALLD, Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: Composite (Steel with Fiberglass)
Impressed Device: No

Tank ID: 1401
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 7 1974
Product: Gasoline
Remove Date: Oct 30 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1403
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 7 1966
Product: Gasoline
Remove Date: Oct 30 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Currently In Use
Capacity: 4000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #3571 (Continued)

U003867027

Install Date: May 7 1985
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inventory Control, Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass Reinforced Plastic, Double Walled
Piping Type: Pressure
Constr Material: Cathodically Protected Steel
Impressed Device: No

Tank ID: 1404
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 7 1984
Product: Gasoline
Remove Date: Oct 30 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

U115
SSW
1/2-1
0.544 mi.
2874 ft.

GRAND RAPIDS SERVICE CENTER
4000 CLAY AVE
WYOMING, MI 49201

LUST **U000257428**
UST **N/A**

Site 1 of 2 in cluster U

Relative:
Higher

LUST:

Actual:
689 ft.

Facility ID: 00017429
Source: STATE OF MICHIGAN
Owner Name: Consumers Energy Co
Owner Address: 1945 W Parnall Rd P-24-501A
Owner City,St,Zip: Jackson, MI 49201
Owner Contact: Robert Newman
Owner Phone: (517) 788-0350
Country: USA
District: Grand Rapids District Office
Site Name: Consumers Power- Ser.center - G.
Latitude: 42.8894130000
Longitude: -85.6764780000
Date of Collection: 19-10-2001
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0577-94
Release Date: Jun 9 1994
Substance Released: Other
Release Status: Closed
Release Closed Date: Jan 20 1995

Leak Number: C-1037-90

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND RAPIDS SERVICE CENTER (Continued)

U000257428

Release Date: Jun 11 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Jun 15 1993

Leak Number: C-1363-01
Release Date: Nov 2 2001
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: Feb 7 2002

Leak Number: C-1423-92
Release Date: Aug 24 1992
Substance Released: Used Oil
Release Status: Closed
Release Closed Date: Dec 4 1992

Leak Number: C-2735-90
Release Date: Dec 18 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Dec 20 1991

UST:

Facility ID: 00017429
Facility Type: CLOSED
Latitude: 42.8894130000
Longitude: -85.6764780000
Owner Name: Consumers Energy Co
Owner Address: 1945 W Parnall Rd P-24-501A
Owner City,St,Zip: Jackson, MI 49201
Owner Country: USA
Owner Contact: Robert Newman
Owner Phone: (517) 788-0350
Contact: ROBERT G NEUMANN
Contact Phone: 517-788-0350
Date of Collection: 19-10-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 15000
Install Date: Apr 24 1967
Product: Gasoline
Remove Date: Oct 18 2001
Tank Release Detection: Automatic Tank Gauging,Tank Tightness Testing
Pipe Release Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND RAPIDS SERVICE CENTER (Continued)

U000257428

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 500
Install Date: Apr 24 1967
Product: Used Oil
Remove Date: Aug 19 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 500
Install Date: Apr 24 1967
Product: Used Oil
Remove Date: Aug 19 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Tank ID: 4
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 23 1980
Product: Diesel
Remove Date: Oct 18 2001
Tank Release Detection: Automatic Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material: Double Walled,Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel
Impressed Device: No

Tank ID: 5
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 23 1976
Product: USED TRANS OIL
Remove Date: Aug 17 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Gravity Fed?
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND RAPIDS SERVICE CENTER (Continued)

U000257428

Tank ID: 6
Tank Status: **Removed from Ground**
Capacity: 1200
Install Date: Apr 24 1967
Product: Diesel
Remove Date: Oct 25 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Tank ID: 7
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 23 1980
Product: TRANS OIL
Remove Date: Oct 12 1994
Tank Release Detection: Automatic Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material: Double Walled,Fiberglass reinforced plastic,Secondary Containment
Piping Type: Gravity Fed?,Pressure
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Tank ID: 8
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 23 1980
Product: TRANS OIL
Remove Date: Oct 13 1994
Tank Release Detection: Automatic Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material: Double Walled,Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Tank ID: 9
Tank Status: **Removed from Ground**
Capacity: 500
Install Date: Apr 24 1967
Product: Kerosene
Remove Date: Sep 30 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Cathodically Protected
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND RAPIDS SERVICE CENTER (Continued)

U000257428

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

U116
SSW
1/2-1
0.544 mi.
2874 ft.

CONSUMERS ENERGY CO
4000 CLAY AVE SW
GRAND RAPIDS, MI 49548

RCRA-CESQG
FINDS
MANIFEST

1000390278
MID079297453

Site 2 of 2 in cluster U

Relative:
Higher

RCRA-CESQG:

Date form received by agency: 03/12/2009
Facility name: CONSUMERS ENERGY CO
Facility address: 4000 CLAY AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MID079297453
Mailing address: 1945 W PARNALL RD
JACKSON, MI 49201
Contact: PATRICK ZOMBO
Contact address: 4000 CLAY AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (517) 788-0647
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Actual:
689 ft.

Owner/Operator Summary:

Owner/operator name: CONSUMERS ENERGY CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY CO (Continued)

1000390278

Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: CONSUMERS ENERGY CO
Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 07/28/2008
Facility name: CONSUMERS ENERGY CO
Classification: Small Quantity Generator

Date form received by agency: 09/30/2006
Facility name: CONSUMERS ENERGY CO
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 09/30/2005
Facility name: CONSUMERS ENERGY CO
Classification: Small Quantity Generator

Date form received by agency: 04/17/2003
Facility name: CONSUMERS ENERGY CO
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 12/31/2001
Facility name: CONSUMERS ENERGY CO
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/14/1998
Facility name: CONSUMERS ENERGY CO
Site name: CONSUMERS ENERGY CO., GRAND RAPIDS SERVI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY CO (Continued)

1000390278

Classification: Large Quantity Generator

Date form received by agency: 12/15/1993
Facility name: CONSUMERS ENERGY CO
Classification: Small Quantity Generator

Date form received by agency: 08/12/1985
Facility name: CONSUMERS ENERGY CO
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003604939

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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

NY MANIFEST:

EPA ID: MID079297453
Country: USA
Mailing Name: CONSUMERS POWER COPANY-GRAND RAPIDS
Mailing Contact: CONSUMERS POWER COPANY-GRAND RAPIDS
Mailing Address: SERVICE CTR - 4000 CLAY AVE SW
Mailing Address 2: Not reported
Mailing City: GRAND RAPIDS
Mailing State: MI
Mailing Zip: 49508
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 616-538-7000

Document ID: NYA5912874
Manifest Status: Completed copy
Trans1 State ID: 12418NMI
Trans2 State ID: Not reported
Generator Ship Date: 870618
Trans1 Recv Date: 870618
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870629
Part A Recv Date: 870625
Part B Recv Date: 870707
Generator EPA ID: MID079297453

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CONSUMERS ENERGY CO (Continued)

1000390278

Trans1 EPA ID: MID072790710
Trans2 EPA ID: Not reported
TSDf ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00015
Units: Y - Cubic yards* (.85 tons)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 100
Year: 87
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

V117
SE
1/2-1
0.556 mi.
2934 ft.

**MR EASY CLEANERS
3887 DIVISION AVE S
GRAND RAPIDS, MI 49548**

**RCRA-CESQG 1000200269
FINDS MID049246374**

Site 1 of 5 in cluster V

**Relative:
Higher**

RCRA-CESQG:

Date form received by agency: 12/21/1995

Facility name: MR EASY CLEANERS

Facility address: 3887 DIVISION AVE S
GRAND RAPIDS, MI 49548

EPA ID: MID049246374

Contact: DONNA KIMBLE

Contact address: 3887 DIVISION AVE S
GRAND RAPIDS, MI 49548

Contact country: Not reported

Contact telephone: (616) 534-3110

Contact email: Not reported

EPA Region: 05

Land type: Private

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MR EASY CLEANERS (Continued)

1000200269

hazardous waste

Owner/Operator Summary:

Owner/operator name: HARRP CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 09/02/1986
Owner/Op end date: Not reported

Owner/operator name: HARRP CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/02/1986
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MR EASY CLEANERS (Continued)

1000200269

Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 09/02/1986
Facility name: MR EASY CLEANERS
Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 12/08/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003595440

Environmental Interest/Information System

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

V118 3887 S. DIVISION AVE
SE 3887 S. DIVISION
1/2-1 WYOMING, MI 49548
0.562 mi.
2970 ft. Site 2 of 5 in cluster V

SHWS S108632572
N/A

Relative:
Higher

SHWS:

Facility ID: 41001048
Facility Status: Inactive - no actions taken to address contamination
Source: Not reported
SAM Score: 31
SAM Score Date: 5/2/2007
Township: 6N
Range: 12W
Section: 24
Quarter: NE

Actual:
678 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

3887 S. DIVISION AVE (Continued)

S108632572

Quarter/Quarter: SE
Pollutants: PCE

W119
NNW
1/2-1
0.573 mi.
3027 ft.

ETNA SUPPLY CO
529 32ND ST
WYOMING, MI 49508
Site 1 of 2 in cluster W

LUST U003327885
UST N/A

Relative:
Higher

Actual:
681 ft.

LUST:
Facility ID: 00005170
Source: STATE OF MICHIGAN
Owner Name: Potgeter Rental Property
Owner Address: 529 32ND ST
Owner City,St,Zip: WYOMING, MI 49508
Owner Contact: Not reported
Owner Phone: (616) 241-5414
Country: USA
District: Grand Rapids District Office
Site Name: Potgeter Rental Property
Latitude: 42.9061230000
Longitude: -85.6792430000
Date of Collection: 10-05-2004
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-2200-92
Release Date: Dec 14 1992
Substance Released: Diesel,Gasoline
Release Status: Closed
Release Closed Date: Sep 24 1996

UST:
Facility ID: 00005170
Facility Type: CLOSED
Latitude: 42.9061230000
Longitude: -85.6792430000
Owner Name: Potgeter Rental Property
Owner Address: 529 32ND ST
Owner City,St,Zip: WYOMING, MI 49508
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 241-5414
Contact: RUSSELL VISNER
Contact Phone: (616) 241-5414
Date of Collection: 10-05-2004
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ETNA SUPPLY CO (Continued)

U003327885

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 2000
Install Date: Apr 15 1980
Product: Diesel
Remove Date: Dec 14 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 1500
Install Date: Apr 15 1980
Product: Gasoline
Remove Date: Dec 14 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: **Non-Registered Tank**
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

W120
NNW
1/2-1
0.576 mi.
3039 ft.

M & E MANUFACTURING INC
530 32ND ST SE
GRAND RAPIDS, MI 49548

RCRA-NonGen 1000866205
FINDS MID985663533

Site 2 of 2 in cluster W

Relative:
Higher

RCRA-NonGen:
Date form received by agency: 08/14/2002
Facility name: M & E MANUFACTURING INC
Facility address: 530 32ND ST SE
GRAND RAPIDS, MI 49548
EPA ID: MID985663533
Contact: MIKE MAC FARLANE
Contact address: 530 32ND ST SE
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 241-2001

Actual:
681 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

M & E MANUFACTURING INC (Continued)

1000866205

Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 08/15/2002
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 08/15/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

M & E MANUFACTURING INC (Continued)

1000866205

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 12/31/2001
Facility name: M & E MANUFACTURING INC
Classification: Not a generator, verified

Date form received by agency: 06/29/1993
Facility name: M & E MANUFACTURING INC
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003683880

Environmental Interest/Information System

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

V121
SE
1/2-1
0.580 mi.
3062 ft.

DWAR OIL CO
3910 DIVISION AVE S
GRAND RAPIDS, MI 49548
Site 3 of 5 in cluster V

LUST U003328541
UST N/A

Relative:
Higher

LUST:

Actual:
678 ft.

Facility ID: 00013770
Source: STATE OF MICHIGAN
Owner Name: Dwar Oil Co
Owner Address: PO Box 146
Owner City,St,Zip: Martin, MI 49070-0146
Owner Contact: Not reported
Owner Phone: (616) 458-8243
Country: USA
District: Grand Rapids District Office
Site Name: Dwar Oil Co
Latitude: 42.8924250000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DWAR OIL CO (Continued)

U003328541

Longitude: -85.6648400000
Date of Collection: 01-12-1998
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0596-98
Release Date: Jul 8 1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00013770
Facility Type: CLOSED
Latitude: 42.8924250000
Longitude: -85.6648400000
Owner Name: Dwar Oil Co
Owner Address: PO Box 146
Owner City,St,Zip: Martin, MI 49070-0146
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 458-8243
Contact: MR RON VANDENBERG
Contact Phone: (616) 458-8243
Date of Collection: 01-12-1998
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: May 7 1971
Product: Gasoline
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: May 7 1971
Product: Gasoline
Remove Date: Oct 14 1999
Tank Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DWAR OIL CO (Continued)

U003328541

Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 7 1971
Product: Gasoline
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 7 1971
Product: Kerosene
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 7 1971
Product: Diesel
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 6
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 7 1971
Product: Diesel
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DWAR OIL CO (Continued)

U003328541

Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 7
Tank Status: Removed from Ground
Capacity: 2000
Install Date: May 7 1971
Product: Diesel
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 8
Tank Status: Removed from Ground
Capacity: 1000
Install Date: May 7 1971
Product: Used Oil
Remove Date: Oct 14 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Gravity Fed?
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

V122
SE
1/2-1
0.580 mi.
3062 ft.

DWAR OIL CO
3910 DIVISION AVE S
WYOMING, MI 49548
Site 4 of 5 in cluster V

SHWS S109029639
N/A

Relative:
Higher

SHWS:
Facility ID: 41000977
Facility Status: See Leaking Underground Storage Tank Site Database
Source: Not reported
SAM Score: 35

Actual:
678 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DWAR OIL CO (Continued)

S109029639

SAM Score Date: 8/29/2006
Township: 6N
Range: 11W
Section: 19
Quarter: NW
Quarter/Quarter: SW
Pollutants: 1,2,4 TMB; 1,3,5 TMB; Benzene; Benzo(a)pyrene; Ethylbenzene; MTBE;
Naphthalene; Xylenes; n-Propylbenzene

V123
SE
1/2-1
0.580 mi.
3062 ft.

**DWAR OIL CO.
3910 DIVISION AVE S
GRAND RAPIDS, MI**
Site 5 of 5 in cluster V

**BROWNFIELDS S107135986
N/A**

**Relative:
Higher**

BROWNFIELD:

Facility ID: 00013770
Region: 1
Status: Monitoring
Property Use: Not reported
BEA: No
Ernie Id Number: 41000977
Redevelop Status: Not reported
Before Redevelopment: [Photo](images/13770 before 1.jpg target=photoviewer)
After Redevelopment: Not reported

**Actual:
678 ft.**

X124
West
1/2-1
0.591 mi.
3119 ft.

**THRIFTY PETROLEUM - CLYDE PARK
3600 CLYDE PARK AVE., SW
WYOMING, MI 49509**
Site 1 of 3 in cluster X

**AUL S108986944
N/A**

**Relative:
Higher**

AUL:

Status: Pending
Site Name: Not reported
Property: 3600 Clyde Park Ave., SW, Wyoming
Land Use Restriction Type: RC
Program Type: Part 213
Program Support Assigned User: Not reported
Program Support Assigned Date: Not reported
Legal Description Of Property: Not reported
Based On The Deq Ref #: 11121308019
MDEQ Reference Number: RC-RRD-213-08-019
Property Or Description Restricted Area: Not reported
Lead Division: RRD
File Name Of Hyperlinked Legal Doc: Not reported
Mapped Polygon S Area In Acres: Not reported
Mapped Polygon S Area In Square Miles: Not reported
Date Data Entry Started: Not reported
Date Data Entry Finished: Not reported
Individual Or Staff Assoc With The Mapping: Not reported
Program Used To Map Restricted Features: Not reported
Map Comments: Not reported
Comment: 2/8/08, QC requested reference number.
Date Legal Paperwork Stamped/Filed/Register Of Deeds: Not reported
Commercial I Land Use Restriction: 0

**Actual:
681 ft.**

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

THRIFTY PETROLEUM - CLYDE PARK (Continued)

S108986944

Commercial Ii Land Use Restriction: 0
 Commercial Iii Land Use Restriction: 0
 Commercial Iv Land Use Restriction: 0
 Industrial Land Use Restriction: 0
 Residential Land Use Restriction: 0
 Recreational Land Use Restriction: 0
 Multiple Land-Use Restrictions: 0
 Site Specific Restrictions: 0
 Groundwater Consumption Restrictions: 0
 Groundwater Contact Restrictions: 0
 Special Well Construction Requirements: 0
 Special Building Restrictions: 0
 Excavation And Soil Movement Restrictions: 0
 Soil Movement Requirements: 0
 There Is A Restriction On All Construction: 0
 Monitoring Well Protected, No Tampering Or Removal: 0
 There Is An Exposure Barrier In Place: 0
 There Is A Health And Safety Plan: 0
 There Is A Permanent Marker On The Site: 0

X125 SDP CORP
West 3600 CLYDE PARK AVE SW
1/2-1 WYOMING, MI 49509
0.591 mi.
3119 ft. Site 2 of 3 in cluster X

LUST U000257353
UST N/A

**Relative:
 Higher**

LUST:

Facility ID: 00004192
 Source: STATE OF MICHIGAN
 Owner Name: Sdp Corporation
 Owner Address: 3600 Clyde Park Ave SW
 Owner City,St,Zip: Wyoming, MI 49509-4024
 Owner Contact: Not reported
 Owner Phone: (616) 532-7431
 Country: USA
 District: Grand Rapids District Office
 Site Name: Thrifty Petroleum-clyde Park/36t
 Latitude: 42.8985700000
 Longitude: -85.6845300000
 Date of Collection: 19-04-2001
 Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
 Accuracy: 10
 Accuracy Value Unit: METERS
 Horizontal Data: NAD83
 Point Line Area: POINT
 Desc Category: Plant Entrance (Freight)

**Actual:
 681 ft.**

Leak Number: C-0149-90
 Release Date: Jan 23 1990
 Substance Released: Not reported
 Release Status: Closed
 Release Closed Date: May 29 2008

UST:

Facility ID: 00004192
 Facility Type: ACTIVE
 Latitude: 42.8985700000
 Longitude: -85.6845300000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SDP CORP (Continued)

U000257353

Owner Name: Sdp Corporation
Owner Address: 3600 Clyde Park Ave SW
Owner City,St,Zip: Wyoming, MI 49509-4024
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 532-7431
Contact: PAVAN OR DALVAR
Contact Phone: (616) 522-7431
Date of Collection: 19-04-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 2500
Install Date: Apr 16 1976
Product: Gasoline
Remove Date: Nov 11 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 7
Tank Status: **Currently In Use**
Capacity: 12000
Install Date: Nov 15 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Tank ID: 8
Tank Status: **Currently In Use**
Capacity: 10000
Install Date: Nov 15 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SDP CORP (Continued)

U000257353

Tank ID: 5
Tank Status: **Removed from Ground**
Capacity: 5000
Install Date: Apr 16 1976
Product: Gasoline
Remove Date: Nov 11 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 9
Tank Status: **Currently In Use**
Capacity: 4000
Install Date: Nov 15 1990
Product: Gasohol
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Tank ID: 10
Tank Status: **Currently In Use**
Capacity: 4000
Install Date: Nov 15 1990
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 1000
Install Date: Apr 16 1976
Product: Kerosene
Remove Date: Nov 11 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SDP CORP (Continued)

U000257353

Tank Status: Removed from Ground
Capacity: 4000
Install Date: Apr 16 1976
Product: Gasoline
Remove Date: Nov 11 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 4000
Install Date: Apr 16 1976
Product: Gasoline
Remove Date: Nov 11 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 6
Tank Status: Currently In Use
Capacity: 12000
Install Date: Nov 15 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Tank ID: 11
Tank Status: Currently In Use
Capacity: 4000
Install Date: Nov 15 1990
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic,Secondary Containment
Piping Type: Pressure
Constr Material: Cathodically Protected Steel,Epoxy Coated Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

126
West
1/2-1
0.592 mi.
3126 ft.

DAVID DEYOUNG INC
3662 CLYDE PARK AVE SW
WYOMING, MI 49509

RCRA-CESQG 1000343323
FINDS MID985572965

Relative:
Higher

RCRA-CESQG:

Actual:
683 ft.

Date form received by agency: 04/24/2007
Facility name: DAVID DEYOUNG INC
Facility address: 3662 CLYDE PARK AVE SW
WYOMING, MI 49509
EPA ID: MID985572965
Contact: DAVID DEYOUNG
Contact address: 3662 CLYDE PARK AVE SW
WYOMING, MI 49509
Contact country: Not reported
Contact telephone: (616) 534-1142
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: DAVID DEYOUNG INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/16/1989
Owner/Op end date: Not reported

Owner/operator name: DAVID DEYOUNG INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/16/1989
Owner/Op end date: Not reported

Handler Activities Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVID DEYOUNG INC (Continued)

1000343323

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 10/16/1989
Facility name: DAVID DEYOUNG INC
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 04/24/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DAVID DEYOUNG INC (Continued)

1000343323

Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/12/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110006517126

Environmental Interest/Information System

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

**Y127
NE
1/2-1
0.600 mi.
3166 ft.**

**ADMIRAL PETROLEUM #23
3221 S DIVISION
WYOMING, MI 49404**

**LUST U003330516
UST N/A**

Site 1 of 2 in cluster Y

**Relative:
Higher**

LUST:

Facility ID: 00005993
Source: STATE OF MICHIGAN
Owner Name: Admiral Petroleum Co
Owner Address: 13 E Randall St
Owner City,St,Zip: Coopersville, MI 49404-1422
Owner Contact: Not reported
Owner Phone: (616) 837-6218
Country: USA
District: Grand Rapids District Office
Site Name: Action Auto #57
Latitude: 42.9054900000
Longitude: -85.6658830000
Date of Collection: 02-08-2001
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

**Actual:
680 ft.**

Leak Number: C-0541-92
Release Date: Apr 7 1992
Substance Released: Gasoline
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00005993
Facility Type: ACTIVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADMIRAL PETROLEUM #23 (Continued)

U003330516

Latitude: 42.9054900000
Longitude: -85.6658830000
Owner Name: Admiral Petroleum Co
Owner Address: 13 E Randall St
Owner City,St,Zip: Coopersville, MI 49404-1422
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 837-6218
Contact: Dennis Lemmen
Contact Phone: (616) 837-6218
Date of Collection: 02-08-2001
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 1
Tank Status: Currently In Use
Capacity: 10000
Install Date: May 6 1987
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inventory Control,Manual Tank Gauging,Vapor Monitoring
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 2
Tank Status: Currently In Use
Capacity: 8000
Install Date: May 6 1987
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inventory Control,Manual Tank Gauging,Vapor Monitoring
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 3
Tank Status: Currently In Use
Capacity: 8000
Install Date: May 6 1987
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inventory Control,Manual Tank Gauging,Vapor Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADMIRAL PETROLEUM #23 (Continued)

U003330516

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 4
Tank Status: Currently In Use
Capacity: 6000
Install Date: May 6 1987
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inter Monitoring/Second Containment, Inventory Control, Manual Tank Gauging, Vapor Monitoring

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 5
Tank Status: Currently In Use
Capacity: 6000
Install Date: May 6 1987
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inventory Control, Manual Tank Gauging, Vapor Monitoring

Pipe Release Detection: Automatic Line Leak Detectors, Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 6
Tank Status: Removed from Ground
Capacity: 1000
Install Date: May 6 1987
Product: Used Oil
Remove Date: Jul 19 1995
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Cathodically Protected, Fiberglass reinforced plastic, Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 7
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Jun 1 1988
Product: BULK OIL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADMIRAL PETROLEUM #23 (Continued)

U003330516

Remove Date: Jul 19 1995
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure,Suction: No Valve At Tank
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

Y128
NE
1/2-1
0.600 mi.
3166 ft.

ACTION AUTO STORE
3221 DIVISION AVE S
WYOMING, MI 49548
Site 2 of 2 in cluster Y

RCRA-NonGen 1000828536
FINDS MID985656073

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 09/15/1995
Facility name: ACTION AUTO STORE
Facility address: 3221 DIVISION AVE S
WYOMING, MI 49548
EPA ID: MID985656073
Mailing address: 1 WOODWARD AVE
DETROIT, MI 48226
Contact: JEFFREY CHIMOVITZ
Contact address: 3221 DIVISION AVE S
WYOMING, MI 49548
Contact country: Not reported
Contact telephone: (313) 961-8380
Contact email: Not reported
EPA Region: 05
Land type: Other land type
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
680 ft.

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 05/16/1995
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ACTION AUTO STORE (Continued)

1000828536

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 05/16/1995
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ACTION AUTO STORE (Continued)

1000828536

Historical Generators:

Date form received by agency: 01/14/1993
Facility name: ACTION AUTO STORE
Classification: Small Quantity Generator

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 09/13/1995
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003678529

Environmental Interest/Information System

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

X129
West
1/2-1
0.600 mi.
3167 ft.

CVS CLYDE PARK INC/MICHIGAN CORP
3601 CLYDE PARK AVE SW
WYOMING, MI 49509
Site 3 of 3 in cluster X

LUST U003758863
UST N/A

Relative:
Higher

LUST:

Facility ID: 00040405
Source: STATE OF MICHIGAN
Owner Name: CVS 8141 Michigan LLC
Owner Address: One Cvs Drive
Owner City,St,Zip: Woonsocket, RI 02875
Owner Contact: Not reported
Owner Phone: (330) 487-6965
Country: USA
District: Grand Rapids District Office
Site Name: Cvs Clyde Park Inc/michigan Corp
Latitude: 42.8985710000
Longitude: -85.6857710000
Date of Collection: 10-05-2004
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Actual:
681 ft.

Leak Number: C-0695-00
Release Date: Jul 28 2000
Substance Released: Unknown

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CVS CLYDE PARK INC/MICHIGAN CORP (Continued)

U003758863

Release Status: Open
Release Closed Date: Not reported

Leak Number: C-4032-85
Release Date: Aug 12 1988
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00040405
Facility Type: CLOSED
Latitude: 42.8985710000
Longitude: -85.6857710000
Owner Name: CVS 8141 Michigan LLC
Owner Address: One Cvs Drive
Owner City,St,Zip: Woonsocket, RI 02875
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (330) 487-6965
Contact: BRATT SHONFF
Contact Phone: (734) 994-4000
Date of Collection: 10-05-2004
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 500
Install Date: Not reported
Product: Used Oil
Remove Date: May 1 2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

Z130
East
1/2-1
0.613 mi.
3235 ft.

GRANTEX INC.
3560 JEFFERSON AVE S.E.
WYOMING, MI 49548

SHWS **S105144247**
N/A

Site 1 of 2 in cluster Z

Relative:
Higher

SHWS:
Facility ID: 41000862
Facility Status: Interim Response in progress
Source: Dry Cleaning Plants
SAM Score: 36
SAM Score Date: 8/18/2004
Township: 41
Range: 6N
Section: 11
Quarter: Not reported
Quarter/Quarter: Not reported
Pollutants: PCE

Actual:
680 ft.

AA131
North
1/2-1
0.613 mi.
3237 ft.

UNIVERSAL ELECTRIC COATERS
3059 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548

RCRA-CESQG **1004722174**
FINDS **MI0000072009**

Site 1 of 3 in cluster AA

Relative:
Higher

RCRA-CESQG:
Date form received by agency: 12/03/1993
Facility name: UNIVERSAL ELECTRIC COATERS
Facility address: 3059 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MI0000072009
Contact: JESSICA EDWARDS
Contact address: 3059 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 452-9110
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Actual:
680 ft.

Owner/Operator Summary:
Owner/operator name: LOSEY CHARLES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSAL ELECTRIC COATERS (Continued)

1004722174

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: LOSEY CHARLES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSAL ELECTRIC COATERS (Continued)

1004722174

Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

FINDS:

Registry ID: 110003560931

Environmental Interest/Information System

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

Z132
East
1/2-1
0.613 mi.
3238 ft.

NORTHTOWN CENTER
3540 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

LUST U000715362
UST N/A

Site 2 of 2 in cluster Z

Relative:
Higher

LUST:

Facility ID: 00035735
Source: STATE OF MICHIGAN
Owner Name: H & H Development
Owner Address: 2920 FULLER NE
Owner City,St,Zip: GRAND RAPIDS, MI 49505
Owner Contact: Not reported
Owner Phone: (616) 363-9064
Country: USA
District: Grand Rapids District Office
Site Name: Pestka And Rogers
Latitude: 42.8996080000
Longitude: -85.6609800000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Actual:
679 ft.

Leak Number: C-2151-91
Release Date: Oct 14 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Dec 5 1991

UST:

Facility ID: 00035735
Facility Type: CLOSED
Latitude: 42.8996080000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTHTOWN CENTER (Continued)

U000715362

Longitude: -85.6609800000
Owner Name: H & H Development
Owner Address: 2920 FULLER NE
Owner City,St,Zip: GRAND RAPIDS, MI 49505
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 363-9064
Contact: HENRY PESTKA
Contact Phone: (616) 363-9064
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 550
Install Date: Not reported
Product: Gasoline
Remove Date: Nov 7 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Galvanized Steel
Piping Type: Suction: No Valve At Tank,Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

133
East
1/2-1
0.620 mi.
3273 ft.

TOWN CLUB PLANT
3650 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

UST U003329211
N/A

Relative:
Higher

UST:
Facility ID: 00033694
Facility Type: CLOSED
Latitude: 42.8976340000
Longitude: -85.6609030000
Owner Name: First National Bank of America (FNBA)
Owner Address: 241 E Saginaw

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TOWN CLUB PLANT (Continued)

U003329211

Owner City,St,Zip: East Lansing, MI 48823
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (517) 333-7719
Contact: DONALD W. GRANT
Contact Phone: (616) 351-5351
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 6000
Install Date: Jan 1 1970
Product: Gasoline
Remove Date: Mar 22 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

134
ENE
1/2-1
0.624 mi.
3295 ft.

GRANTEX INC
3560 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

RCRA-NonGen 1000988474
FINDS MIT270013055

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 01/24/1995
Facility name: GRANTEX INC
Facility address: 3560 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548
EPA ID: MIT270013055
Contact: DOUGLAS SINGER
Contact address: 3560 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-1191
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
680 ft.

Owner/Operator Summary:

Owner/operator name: GRANTEX CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRANTEX INC (Continued)

1000988474

Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: GRANTEX CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRANTEX INC (Continued)

1000988474

Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No

Generated waste on-site: No

Historical Generators:

Date form received by agency: 01/10/1994

Facility name: GRANTEX INC

Site name: GRANTEX

Classification: Large Quantity Generator

Date form received by agency: 01/06/1992

Facility name: GRANTEX INC

Site name: GRANTEX

Classification: Large Quantity Generator

Date form received by agency: 04/24/1981

Facility name: GRANTEX INC

Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 06/17/1993

Date achieved compliance: 06/17/1993

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 06/17/1993

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 08/14/1989

Date achieved compliance: 12/19/1989

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 08/22/1989

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 06/06/1994

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Area of violation: Not reported

Date achieved compliance: Not reported

Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRANTEX INC (Continued)

1000988474

Evaluation date: 06/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/17/1993
Evaluation lead agency: State

Evaluation date: 04/14/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/22/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/19/1989
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/14/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/19/1989
Evaluation lead agency: State

FINDS:

Registry ID: 110003718941

Environmental Interest/Information System

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135
ESE
1/2-1
0.629 mi.
3324 ft.

RIVERSHORES BUILDING PRODUCTS INC
3690 JEFFERSON SE
GRAND RAPIDS, MI 49548

RCRA-SQG 1001202385
FINDS MIR000025809

Relative:
Higher

RCRA-SQG:
Date form received by agency: 04/28/2009
Facility name: RIVERSHORES BUILDING PRODUCTS INC
Facility address: 3690 JEFFERSON SE
GRAND RAPIDS, MI 49548
EPA ID: MIR000025809
Contact: DARLA MIKITA
Contact address: 3690 JEFFERSON SE
GRAND RAPIDS, MI 49548

Actual:
679 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RIVERSHORES BUILDING PRODUCTS INC (Continued)

1001202385

Contact country: Not reported
Contact telephone: (616) 243-7000
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: STEVEN C VANDER WEIDE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/01/1992
Owner/Op end date: Not reported

Owner/operator name: STEVEN C VANDER WEIDE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/1992
Owner/Op end date: Not reported

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 04/16/2008
Facility name: RIVERSHORES BUILDING PRODUCTS INC
Classification: Small Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RIVERSHORES BUILDING PRODUCTS INC (Continued)

1001202385

Date form received by agency: 04/29/2004
Facility name: RIVERSHORES BUILDING PRODUCTS INC
Classification: Small Quantity Generator

Date form received by agency: 04/23/2003
Facility name: RIVERSHORES BUILDING PRODUCTS INC
Classification: Small Quantity Generator

Date form received by agency: 07/17/1997
Facility name: RIVERSHORES BUILDING PRODUCTS INC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/17/1998
Date achieved compliance: 09/24/1998
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/17/1998
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/05/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/24/1998
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/24/1998
Evaluation lead agency: State

Evaluation date: 08/12/1998
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/24/1998
Evaluation lead agency: State

FINDS:

Registry ID: 110003702191

Environmental Interest/Information System

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

136
ENE
1/2-1
0.648 mi.
3421 ft.

WIKOFF COLOR CORP
3410 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

RCRA-CESQG 1004722172
FINDS MI0000066746

Relative:
Higher

RCRA-CESQG:

Actual:
680 ft.

Date form received by agency: 11/24/1993
Facility name: WIKOFF COLOR CORP
Facility address: 3410 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548
EPA ID: MI0000066746
Contact: CLIFFORD PARKS
Contact address: 3410 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-3930
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: WIKOFF COLOR CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: WIKOFF COLOR CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WIKOFF COLOR CORP (Continued)

1004722172

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Violation Status: No violations found

FINDS:

Registry ID: 110003560799

Environmental Interest/Information System

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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WIKOFF COLOR CORP (Continued)

1004722172

corrective action activities required under RCRA.

AA137
North
1/2-1
0.652 mi.
3440 ft.

INTERNAL GRINDING ABRASIVE
3011 HILLCROFT AVE
GRAND RAPIDS, MI 49548

RCRA-CESQG 1000216805
FINDS MID006014237

Site 2 of 3 in cluster AA

Relative:
Higher

RCRA-CESQG:

Actual:
679 ft.

Date form received by agency: 03/16/2004
Facility name: INTERNAL GRINDING ABRASIVES
Facility address: 3011 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
EPA ID: MID006014237
Contact: JAMES MENERICK
Contact address: 3011 HILLCROFT AVE SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 243-5566
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: INTERNAL GRINDING ABRASIVES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/01/1958
Owner/Op end date: Not reported

Owner/operator name: INTERNAL GRINDING ABRASIVES
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERNAL GRINDING ABRASIVE (Continued)

1000216805

Owner/Op start date: 12/01/1958
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 08/04/1980
Facility name: INTERNAL GRINDING ABRASIVES
Classification: Small Quantity Generator

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERNAL GRINDING ABRASIVE (Continued)

1000216805

Evaluation Action Summary:

Evaluation date: 06/22/2000
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/16/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110001679078

Environmental Interest/Information System

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

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

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AA138
North
1/2-1
0.652 mi.
3440 ft.

3011 HILLCROFT SW
3011 HILLCROFT SW
WYOMING, MI 49548
Site 3 of 3 in cluster AA

SHWS S108632577
N/A

Relative:
Higher

SHWS:

Facility ID: 41001053
Facility Status: Inactive - no actions taken to address contamination
Source: Not reported
SAM Score: 30
SAM Score Date: 5/4/2007
Township: 6N
Range: 12W
Section: 13
Quarter: NE
Quarter/Quarter: SW
Pollutants: PCE

Actual:
679 ft.

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

AB139 **FORMER NORTHERN LIGHT PROPERTY**
NE **3158 DIVISION AVE S**
1/2-1 **WYOMING, MI 49548**
0.663 mi.
3503 ft. **Site 1 of 4 in cluster AB**

UST **U003758985**
N/A

Relative:
Higher

UST:

Actual:
681 ft.

Facility ID: 00040585
 Facility Type: CLOSED
 Latitude: 42.9074000000
 Longitude: -85.7673820000
 Owner Name: Etta Lassman Trust
 Owner Address: 264 Rogan Rd
 Owner City,St,Zip: Chula Vista, CA 91910-3021
 Owner Country: USA
 Owner Contact: Not reported
 Owner Phone: (619) 422-4066
 Contact: ESTHER LASSMAN
 Contact Phone: (619) 674-5554
 Date of Collection: 07-03-2006
 Accuracy: 15
 Accuracy Value Unit: METERS
 Horizontal Datum: NAD83
 Source: STATE OF MICHIGAN
 Point Line Area: POINT
 Desc Category: Not reported
 Method of Collection: Interpolation-Map

Tank ID: 1
Tank Status: Removed from Ground
 Capacity: 1000
 Install Date: Jan 1 1930
 Product: Gasoline
 Remove Date: Dec 6 2000
 Tank Release Detection: Not reported
 Pipe Realease Detection: Not reported
 Piping Material: Bare Steel
 Piping Type: Not reported
 Constr Material: Asphalt Coated or Bare Steel
 Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
 Capacity: 2000
 Install Date: Jan 1 1930
 Product: Gasoline
 Remove Date: Dec 6 2000
 Tank Release Detection: Not reported
 Pipe Realease Detection: Not reported
 Piping Material: Bare Steel
 Piping Type: Not reported
 Constr Material: Asphalt Coated or Bare Steel
 Impressed Device: No

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

AB140 **SPEEDWAY #6275**
NE **3155 S DIVISION**
1/2-1 **WYOMING, MI 45501**
0.667 mi.
3522 ft. **Site 2 of 4 in cluster AB**

LUST **U002301855**
UST **N/A**

Relative:
Higher

LUST:

Facility ID: 00011831
Source: STATE OF MICHIGAN
Owner Name: Speedway SuperAmerica LLC
Owner Address: PO Box 1500
Owner City,St,Zip: Springfield, OH 45501-1500
Owner Contact: Not reported
Owner Phone: (937) 864-3000
Country: USA
District: Grand Rapids District Office
Site Name: United Station #6275
Latitude: 42.9063520000
Longitude: -85.6657830000
Date of Collection: 01-12-1998
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Actual:
680 ft.

Leak Number: C-0321-91
Release Date: Mar 4 1991
Substance Released: Not reported
Release Status: Closed
Release Closed Date: May 1 1996

UST:

Facility ID: 00011831
Facility Type: ACTIVE
Latitude: 42.9063520000
Longitude: -85.6657830000
Owner Name: Speedway SuperAmerica LLC
Owner Address: PO Box 1500
Owner City,St,Zip: Springfield, OH 45501-1500
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (937) 864-3000
Contact: Sandy Vickie
Contact Phone: 616-247-7725
Date of Collection: 01-12-1998
Accuracy: 10
Accuracy Value Unit: METERS
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off

Tank ID: 6
Tank Status: **Removed from Ground**
Capacity: 8000
Install Date: May 2 1968
Product: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #6275 (Continued)

U002301855

Remove Date: Apr 11 1995
Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 7
Tank Status: Removed from Ground
Capacity: 8000
Install Date: May 2 1968
Product: EMPTY
Remove Date: Apr 11 1995
Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 2 1968
Product: Kerosene
Remove Date: Apr 12 1995
Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 8000
Install Date: May 2 1968
Product: Gasoline
Remove Date: Apr 11 1995
Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 8000
Install Date: May 2 1968
Product: Diesel
Remove Date: Apr 11 1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #6275 (Continued)

U002301855

Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground

Capacity: 8000
Install Date: May 2 1968
Product: Gasoline
Remove Date: Apr 11 1995

Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground

Capacity: 8000
Install Date: May 2 1968
Product: Gasoline
Remove Date: Apr 11 1995

Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 9
Tank Status: Currently In Use

Capacity: 10000
Install Date: Jul 14 1995
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 10
Tank Status: Currently In Use

Capacity: 4000
Install Date: Jul 17 1995
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY #6275 (Continued)

U002301855

Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 11
Tank Status: Currently In Use
Capacity: 4000
Install Date: Jul 17 1995
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Inventory Control
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Suction: No Valve At Tank
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 8
Tank Status: Currently In Use
Capacity: 15000
Install Date: Jul 14 1995
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

**AB141
NE
1/2-1
0.667 mi.
3522 ft.**

**SPEEDWAY SUPERAMERICA LLC
3155 S DIVISION
GRAND RAPIDS, MI 49548
Site 3 of 4 in cluster AB**

**RCRA-CESQG 1004723060
FINDS MID985576875**

**Relative:
Higher**

RCRA-CESQG:
Date form received by agency: 05/25/2005
Facility name: SPEEDWAY SUPERAMERICA LLC
Facility address: 3155 S DIVISION
GRAND RAPIDS, MI 49548
EPA ID: MID985576875
Mailing address: PO BOX 1500
SPRINGFIELD, OH 45501
Contact: CHARLES BESSE
Contact address: 3155 S DIVISION
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (937) 863-6272
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time;

**Actual:
680 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SPEEDWAY SUPERAMERICA LLC (Continued)

1004723060

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

Owner/Operator Summary:

Owner/operator name: SPEEDWAY/SUPERAMERICA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1998
Owner/Op end date: Not reported

Owner/operator name: SPEEDWAY/SUPERAMERICA LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1998
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SPEEDWAY SUPERAMERICA LLC (Continued)

1004723060

Waste type: Lamps
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Pesticides
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: Thermostats
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
 Accumulated waste on-site: No
 Generated waste on-site: No

Waste type: MERCURY SWITCHES
 Accumulated waste on-site: No
 Generated waste on-site: No

Historical Generators:

Date form received by agency: 03/27/1990
 Facility name: SPEEDWAY SUPERAMERICA LLC
 Classification: Conditionally Exempt Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003638458

Environmental Interest/Information System

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

AC142
 North
 1/2-1
 0.676 mi.
 3568 ft.

CHEM CENTRAL
2940 STAFFORD AVE SW
GRAND RAPIDS, MI

BROWNFIELDS S108417474
N/A

Site 1 of 4 in cluster AC

Relative:
Lower

BROWNFIELD:
 Facility ID: Not reported
 Region: 1

Actual:
655 ft.

Status: PLP
 Property Use: Not reported
 BEA: No
 Ernie Id Number: 41000011
 Redevelop Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEM CENTRAL (Continued)

S108417474

Before Redevelopment: Not reported
After Redevelopment: Not reported

AC143
North
1/2-1
0.676 mi.
3568 ft.

CHEMCENTRAL GRAND RAPIDS
2940 STAFFORD AVENUE
WYOMING, MI 49548

RCRA-LQG **1000296944**
FINDS **MID017108192**

Site 2 of 4 in cluster AC

Relative:
Lower

RCRA-LQG:

Actual:
655 ft.

Date form received by agency: 04/23/2009
Facility name: UNIVAR USA INC
Facility address: 2940 STAFFORD AVE SW
WYOMING, MI 49548
EPA ID: MID017108192
Contact: BOB MIDDENDORP
Contact address: 2940 STAFFORD AVE SW
WYOMING, MI 49548
Contact country: Not reported
Contact telephone: (616) 245-9112
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name: UNIVAR USA INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/2007
Owner/Op end date: Not reported

Owner/operator name: UNIVAR USA INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 10/01/2007
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 02/18/2009
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2008
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 02/26/2008
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 09/10/2007
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 03/19/2007
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 03/14/2006
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL
Classification: Large Quantity Generator

Date form received by agency: 03/23/2004
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL
Classification: Large Quantity Generator

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Date form received by agency: 03/01/2002
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL/GRAND RAPIDS
Classification: Large Quantity Generator

Date form received by agency: 02/26/2002
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 02/08/2000
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL/GRAND RAPIDS
Classification: Large Quantity Generator

Date form received by agency: 02/22/1996
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL/GRAND RAPIDS
Classification: Large Quantity Generator

Date form received by agency: 09/06/1995
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Date form received by agency: 02/17/1994
Facility name: UNIVAR USA INC
Site name: CHEMCENTRAL/GRAND RAPIDS
Classification: Large Quantity Generator

Date form received by agency: 06/09/1992
Facility name: UNIVAR USA INC
Site name: CHEM CENTRAL/GRAND RAPIDS
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Facility name: UNIVAR USA INC
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2007

Annual Waste Handled:

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

Amount (Lbs): 41542.9

Waste code: D008
Waste name: LEAD
Amount (Lbs): 1369.5

Waste code: D009
Waste name: MERCURY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Amount (Lbs): 1369.5

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 1369.5

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 05/14/2007
Date achieved compliance: 07/24/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/14/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 05/14/2007
Date achieved compliance: 07/24/2007
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/14/2007
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 07/29/2003
Date achieved compliance: 09/22/2003
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/29/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 08/29/1995
Date achieved compliance: 09/13/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1995

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

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

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/29/1995
Date achieved compliance: 09/13/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 08/29/1995
Date achieved compliance: 09/13/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 11/29/1993
Date achieved compliance: 12/17/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/02/1993
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 11/29/1993
Date achieved compliance: 12/17/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/02/1993
Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/20/1992
Date achieved compliance: 09/01/1992
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/29/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/02/1991
Date achieved compliance: 04/16/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/03/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 08/12/1987
Date achieved compliance: 08/28/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/17/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/12/1987
Date achieved compliance: 08/28/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/17/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 05/14/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 07/24/2007
Evaluation lead agency: State

Evaluation date: 05/14/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/24/2007
Evaluation lead agency: State

Evaluation date: 07/29/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/22/2003
Evaluation lead agency: State

Evaluation date: 11/16/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/19/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/13/1995
Evaluation lead agency: State

Evaluation date: 08/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/13/1995
Evaluation lead agency: State

Evaluation date: 08/29/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 09/13/1995
Evaluation lead agency: State

Evaluation date: 11/29/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Date achieved compliance: 12/17/1993
Evaluation lead agency: State

Evaluation date: 11/29/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 12/17/1993
Evaluation lead agency: State

Evaluation date: 09/01/1992
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/20/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/01/1992
Evaluation lead agency: State

Evaluation date: 04/16/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/02/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/16/1991
Evaluation lead agency: State

Evaluation date: 01/24/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/12/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/28/1987
Evaluation lead agency: State

Evaluation date: 08/12/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 08/28/1987
Evaluation lead agency: State

Evaluation date: 06/18/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

Evaluation date: 03/18/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110000411901

Environmental Interest/Information System

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

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

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

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

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CHEMCENTRAL GRAND RAPIDS (Continued)

1000296944

that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

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

AC144
North
1/2-1
0.676 mi.
3568 ft.

CHEM CENTRAL
2940 STAFFORD AVENUE SW
WYOMING, MI 49508
Site 3 of 4 in cluster AC

SHWS S103084954
N/A

Relative:
Lower

SHWS:

Facility ID: 41000011

Facility Status: Interim Response in progress

Actual:
655 ft.

Source: Chemicals and Allied Products

SAM Score: 38

SAM Score Date: 11/8/2006

Township: 06N

Range: 12W

Section: 13

Quarter: NE

Quarter/Quarter: NW

Pollutants: 1,1,1 TCA; 1,1 DCA; Ethylbenzene; PCE; TCE; VC; Xylenes; cis-1,2 DCE

AC145
North
1/2-1
0.676 mi.
3568 ft.

UNIVAR USA
2940 STAFFORD AVE
WYOMING, MI 49548
Site 4 of 4 in cluster AC

AST 1005551418
N/A

Relative:
Lower

AST:

Type: ACTIVE

Owner Name: Univar USA

Actual:
655 ft.

Owner Address: PO Box 34325

Owner City,St,Zip: Seattle, WA 98124-1325

Owner County: USA

Owner Contact: Account's Payable

Owner Telephone: (425) 889-3677

Facility ID: 91041051

District: Grand Rapids District Office

Contact: Bob Middendorp

Facility Phone: (616) 245-9112

Tank ID: 1

Tank Status: Currently In Use

Capacity: 12000

Install Date: Not reported

Close Date: Not reported

Content: Flammable Liquid

Latitude: 42.9106450000

Longitude: -85.6753450000

Date of Collection: 19-06-2006

Accuracy: 100

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 2
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 3
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 4
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 5
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 6
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 7
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 8
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 9
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 10
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 11
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 12
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 13
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 14
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 15
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 16
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 17
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 18
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 19
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVAR USA (Continued)

1005551418

Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 20
Tank Status: Currently In Use
Capacity: 12000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

Type: ACTIVE
Owner Name: Univar USA
Owner Address: PO Box 34325
Owner City,St,Zip: Seattle, WA 98124-1325
Owner County: USA
Owner Contact: Account's Payable
Owner Telephone: (425) 889-3677
Facility ID: 91041051
District: Grand Rapids District Office
Contact: Bob Middendorp
Facility Phone: (616) 245-9112
Tank ID: 37
Tank Status: Currently In Use
Capacity: 10000
Install Date: Not reported
Close Date: Not reported
Content: Flammable Liquid
Latitude: 42.9106450000
Longitude: -85.6753450000
Date of Collection: 19-06-2006
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

AB146 NE 1/2-1 0.684 mi. 3611 ft.	C.D. FORTUIN 3130 S DIVISION WYOMING, MI 49508 Site 4 of 4 in cluster AB	UST	U003327727 N/A
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Relative: Higher Actual: 680 ft.	<p>UST:</p> <p>Facility ID: 00003053 Facility Type: CLOSED Latitude: 42.9068010000 Longitude: -85.6654300000 Owner Name: C.D. Fortuin Owner Address: 3130 S DIVISION Owner City,St,Zip: WYOMING, MI 49508 Owner Country: USA Owner Contact: Not reported Owner Phone: (616) 243-4441 Contact: C.D. FORTUIN Contact Phone: (616) 243-4441 Date of Collection: 01-11-2001 Accuracy: 100 Accuracy Value Unit: FEET Horizontal Datum: NAD83 Source: STATE OF MICHIGAN Point Line Area: POINT Desc Category: Plant Entrance (Freight) Method of Collection: Address Matching-House Number</p> <p>Tank ID: 1 Tank Status: Removed from Ground Capacity: 1000 Install Date: Not reported Product: Used Oil Remove Date: Jan 1 1986 Tank Release Detection: Not reported Pipe Realease Detection: Not reported Piping Material: Unknown Piping Type: Not reported Constr Material: Unknown Impressed Device: No</p>
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147 ENE 1/2-1 0.684 mi. 3612 ft.	THE SHERWIN WILLIAMS CO 3380 JEFFERSON AVE SE GRAND RAPIDS, MI 49548	RCRA-NonGen FINDS	1000451953 MID985586619
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Relative: Higher Actual: 681 ft.	<p>RCRA-NonGen:</p> <p>Date form received by agency: 12/31/1990 Facility name: THE SHERWIN WILLIAMS CO Facility address: 3380 JEFFERSON AVE SE GRAND RAPIDS, MI 49548</p> <p>EPA ID: MID985586619 Contact: TOM SHIRA Contact address: 3380 JEFFERSON AVE SE GRAND RAPIDS, MI 49548</p> <p>Contact country: Not reported Contact telephone: (616) 241-6553 Contact email: Not reported EPA Region: 05</p>
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Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE SHERWIN WILLIAMS CO (Continued)

1000451953

Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1991
Owner/Op end date: Not reported

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1991
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THE SHERWIN WILLIAMS CO (Continued)

1000451953

Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 09/17/1990
Facility name: THE SHERWIN WILLIAMS CO
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110003645002

Environmental Interest/Information System

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

148
North
1/2-1
0.696 mi.
3673 ft.

LARKO CHEMICAL CO
2954 HILLCROFT SW
WYOMING, MI 49418

UST U003328513
N/A

Relative:
Higher

UST:

Actual:
677 ft.

Facility ID: 00013506
Facility Type: CLOSED
Latitude: 42.9101170000
Longitude: -85.6732730000
Owner Name: Larko Chemical Co
Owner Address: 3181 Prairie St SW Ste 110
Owner City,St,Zip: Grandville, MI 49418-2076
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 534-0507
Contact: RICHARD SLAGTER
Contact Phone: (616) 245-6722
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LARKO CHEMICAL CO (Continued)

U003328513

Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 7 1971
Product: LACQUER
Remove Date: Jul 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 2000
Install Date: May 7 1971
Product: THINNER
Remove Date: Jul 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

AD149
ENE
1/2-1
0.713 mi.
3765 ft.

COFFMAN ELECTRICAL EQUIPMENT CO
3300 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

RCRA-SQG 1007099100
MIK622738979

Site 1 of 2 in cluster AD

Relative:
Higher

RCRA-SQG:
Date form received by agency: 02/21/2002
Facility name: COFFMAN ELECTRICAL EQUIPMENT CO
Facility address: 3300 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

Actual:
681 ft.

EPA ID: MIK622738979
Contact: LARRY BRUGEL
Contact address: 3300 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 452-8708
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COFFMAN ELECTRICAL EQUIPMENT CO (Continued)

1007099100

Owner/Operator Summary:

Owner/operator name: COFFMAN ELECTRICAL EQUIP CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/21/2002
Owner/Op end date: Not reported

Owner/operator name: COFFMAN ELECTRICAL EQUIP CO
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/21/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COFFMAN ELECTRICAL EQUIPMENT CO (Continued)

1007099100

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 12/16/2008
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/21/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 12/16/2008
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: State Statute or Regulation
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/05/2002
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

AE150
SE
1/2-1
0.716 mi.
3779 ft.

INERGY PROPANE LLC (DBA) PROGAS PROPANE
4044 DIVISION AVE S
GRAND RAPIDS, MI 49548
Site 1 of 2 in cluster AE

AST A100172223
N/A

Relative:
Higher

AST:
Type: CLOSED
Owner Name: Inergy Propane LLC (dba) ProGas Propane
Owner Address: 1535 S Walker Rd
Owner City,St,Zip: Muskegon, MI 49441
Owner County: USA
Owner Contact: Not reported
Owner Telephone: 231-773-3261
Facility ID: 92041135
District: Grand Rapids District Office
Contact: William Groundman
Facility Phone: (616) 534-4965

Actual:
677 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INERGY PROPANE LLC (DBA) PROGAS PROPANE (Continued)

A100172223

Tank ID: 2
Tank Status: Removed from Premises
Capacity: 1850
Install Date: Jul 2 1985
Close Date: Mar 30 2009
Content: Liquid Propane Gas
Latitude: 42.8902170000
Longitude: -85.6647030000
Date of Collection: 21-10-2003
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description of Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard P

**AD151
NE
1/2-1
0.735 mi.
3882 ft.**

**INTERSTATE BRANDS CORP
3230 JEFFERSON AVE SE
GRAND RAPIDS, MI 49548

Site 2 of 2 in cluster AD**

**UST U003328727
N/A**

**Relative:
Higher**

UST:
Facility ID: 00015893
Facility Type: CLOSED
Latitude: 42.9046020000
Longitude: -85.6611610000
Owner Name: Interstate Brands Corp
Owner Address: 1100 Oakman Blvd
Owner City,St,Zip: Detroit, MI 48238-2949
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 868-5600
Contact: Scott Razier
Contact Phone: (313) 963-2332
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

**Actual:
681 ft.**

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Apr 2 1981
Product: Diesel
Remove Date: May 6 1996
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERSTATE BRANDS CORP (Continued)

U003328727

Tank ID: SA-02
Tank Status: NON-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Not reported
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

**AE152
SE
1/2-1
0.740 mi.
3906 ft.**

**HOBART SALES & SERVICE
4064 DIVISION AVE S
GRAND RAPIDS, MI 49548**

**LUST U000257440
UST N/A**

Site 2 of 2 in cluster AE

**Relative:
Higher**

LUST:
Facility ID: 00008170
Source: STATE OF MICHIGAN
Owner Name: Hobart Sales & Serv
Owner Address: 4064 Division Ave S
Owner City,St,Zip: Grand Rapids, MI 49548-3369
Owner Contact: Not reported
Owner Phone: (616) 538-1470
Country: USA
District: Grand Rapids District Office
Site Name: Hobart Food Equipment
Latitude: 42.8896830000
Longitude: -85.6647200000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

**Actual:
677 ft.**

Leak Number: C-1897-92
Release Date: Oct 26 1992
Substance Released: Gasoline
Release Status: Closed
Release Closed Date: Oct 18 2001

UST:
Facility ID: 00008170
Facility Type: CLOSED
Latitude: 42.8896830000
Longitude: -85.6647200000
Owner Name: Hobart Sales & Serv
Owner Address: 4064 Division Ave S
Owner City,St,Zip: Grand Rapids, MI 49548-3369
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 538-1470
Contact: ED VERBURG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HOBART SALES & SERVICE (Continued)

U000257440

Contact Phone: (616) 538-1470
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 550
Install Date: Mar 31 1969
Product: Gasoline
Remove Date: Oct 26 1992
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel, Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

153
East
1/2-1
0.748 mi.
3951 ft.

GUARDMANS CHEMICAL CO INC
3503 LOUSMA DR SE
GRAND RAPIDS, MI 49548

RCRA-NonGen 1000354774
FINDS MID980568661

Relative:
Higher

RCRA-NonGen:
Date form received by agency: 02/21/2001
Facility name: GUARDMANS CHEMICAL CO INC
Facility address: 3503 LOUSMA DR SE
GRAND RAPIDS, MI 49548
EPA ID: MID980568661
Contact: DAVID BOCKHEIM
Contact address: 3503 LOUSMA DR SE
GRAND RAPIDS, MI 49548

Actual:
680 ft.

Contact country: Not reported
Contact telephone: (616) 247-7651
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GUARDMANS CHEMICAL CO INC (Continued)

1000354774

Owner/Operator Summary:

Owner/operator name: GUARDSMAN CHEMICAL CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: GUARDMANS CHEMICAL CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: GUARDSMAN CHEMICAL CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: GUARDMANS CHEMICAL CO INC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GUARDMANS CHEMICAL CO INC (Continued)

1000354774

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 02/13/2001
Facility name: GUARDMANS CHEMICAL CO INC
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 02/13/2001
Facility name: GUARDMANS CHEMICAL CO INC
Classification: Not a generator, verified

Date form received by agency: 11/14/1980
Facility name: GUARDMANS CHEMICAL CO INC
Classification: Not a generator, verified

Date form received by agency: 08/07/1980
Facility name: GUARDMANS CHEMICAL CO INC
Classification: Not a generator, verified

Date form received by agency: 01/01/1980
Facility name: GUARDMANS CHEMICAL CO INC
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GUARDMANS CHEMICAL CO INC (Continued)

1000354774

Registry ID: 110009396162

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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

154
SSE
1/2-1
0.817 mi.
4316 ft.

**PONY EXPRESS COURIER CORP
4130 S DIVISION
WYOMING, MI 48216**

**LUST U003328761
UST N/A**

**Relative:
Higher**

LUST:

Facility ID: 00016455
Source: STATE OF MICHIGAN
Owner Name: Pony Express Courier Corp
Owner Address: 2950 Rosa Parks Blvd
Owner City,St,Zip: Detroit, MI 48216-1217
Owner Contact: Not reported
Owner Phone: (313) 965-7420
Country: USA
District: Grand Rapids District Office
Site Name: Pony Express Courier Corp.
Latitude: 42.8888000000
Longitude: -85.6646800000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

**Actual:
677 ft.**

Leak Number: C-1088-98
Release Date: Nov 2 1998
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00016455
Facility Type: CLOSED
Latitude: 42.8888000000
Longitude: -85.6646800000
Owner Name: Pony Express Courier Corp
Owner Address: 2950 Rosa Parks Blvd
Owner City,St,Zip: Detroit, MI 48216-1217

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONY EXPRESS COURIER CORP (Continued)

U003328761

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 965-7420
Contact: GEORGE HUNTER
Contact Phone: (616) 531-2910
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 4000
Install Date: Apr 13 1966
Product: Gasoline
Remove Date: Nov 2 1998
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: Phantom
Tank Status: Non-Registered Tank
Capacity: Not reported
Install Date: Not reported
Product: Unknown
Remove Date: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

155
North
1/2-1
0.834 mi.
4402 ft.

PKG CORP OF AMERICA
200 COLRAIN SW
WYOMING, MI 49509

LUST U000257071
UST N/A

Relative:
Higher

LUST:
Facility ID: 00015454
Source: STATE OF MICHIGAN
Owner Name: Kenneth M Faber
Owner Address: 2550 Oaklane St SW
Owner City,St,Zip: Wyoming, MI 49509-3129
Owner Contact: Not reported
Owner Phone: (616) 774-2031
Country: USA
District: Grand Rapids District Office
Site Name: Ken Faber

Actual:
673 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PKG CORP OF AMERICA (Continued)

U000257071

Latitude: 42.9104130000
Longitude: -85.6708700000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0871-91
Release Date: May 6 1991
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Jun 10 1994

UST:

Facility ID: 00015454
Facility Type: CLOSED
Latitude: 42.9104130000
Longitude: -85.6708700000
Owner Name: Kenneth M Faber
Owner Address: 2550 Oaklane St SW
Owner City,St,Zip: Wyoming, MI 49509-3129
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 774-2031
Contact: KENNETH M FABER
Contact Phone: (616) 774-2031
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 10000
Install Date: Apr 16 1976
Product: Diesel
Remove Date: Jun 5 1991
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 5000
Install Date: Apr 16 1976
Product: Diesel
Remove Date: Jun 5 1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PKG CORP OF AMERICA (Continued)

U000257071

Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

156
East
1/2-1
0.846 mi.
4464 ft.

BENTELER INDUSTRIES
3721 HAGEN DRIVE SOUTHEAST
WYOMING, MI 49548

CERC-NFRAP **1000400112**
CORRACTS **MID000776104**
RCRA-SQG
FINDS
MANIFEST

Relative:
Higher

CERC-NFRAP:
Site ID: 0506892
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

Actual:
680 ft.

CERCLIS-NFRAP Site Contact Name(s):

Contact Title: RESPONSIBLE PARTY INVESTIGATOR
Contact Name: JANET PFUNDHELLER
Contact Tel: (312) 353-5821

Program Priority:

Description: Great Lakes
Description: RCRA Deferral Audit
Description: RCRA Deferral - Lead Confirmed

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 01/28/1992
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 09/11/1992
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 12/18/1995
Priority Level: Not reported

CORRACTS:

EPA ID: MID000776104
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 3/31/1992
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTELER INDUSTRIES (Continued)

1000400112

NAICS Code(s): 336312
Gasoline Engine and Engine Parts Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID000776104
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 5/29/1992
Action: CA050 - RFA Completed
NAICS Code(s): 336312
Gasoline Engine and Engine Parts Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

RCRA-SQG:

Date form received by agency: 04/13/2009
Facility name: BENTELER AUTOMOTIVE
Facility address: 3721 HAGEN DR SE
WYOMING, MI 49548

EPA ID: MID000776104
Contact: NICK MIEDEMA
Contact address: 3721 HAGEN DR SE
WYOMING, MI 49548

Contact country: Not reported
Contact telephone: (616) 475-5935
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: MIKE CORNELL
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2005
Owner/Op end date: Not reported

Owner/operator name: BENTELER CORP
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1987
Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTELER INDUSTRIES (Continued)

1000400112

Handler Activities Summary:

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

Historical Generators:

Date form received by agency: 02/10/2009
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 01/12/2009
Facility name: BENTELER AUTOMOTIVE
Classification: Large Quantity Generator

Date form received by agency: 06/24/2008
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 06/02/2008
Facility name: BENTELER AUTOMOTIVE
Classification: Large Quantity Generator

Date form received by agency: 03/25/2008
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 03/09/2007
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 03/06/2006
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 02/23/2004
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 07/28/2003
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Date form received by agency: 12/21/2000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTELER INDUSTRIES (Continued)

1000400112

Facility name: BENTELER AUTOMOTIVE
Classification: Not a generator, verified

Date form received by agency: 08/20/1980
Facility name: BENTELER AUTOMOTIVE
Classification: Small Quantity Generator

Corrective Action Summary:

Event date: 03/31/1992
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 05/29/1992
Event: RFA Completed

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 11/08/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/30/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/12/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003577157

Environmental Interest/Information System

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTELER INDUSTRIES (Continued)

1000400112

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

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

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

NY MANIFEST:

EPA ID: MID000776104
Country: USA
Mailing Name: WILSON SPORTING GOODS COMPANY
Mailing Contact: WILSON SPORTING GOODS COMPANY
Mailing Address: 3721 HAGEN DRIVE
Mailing Address 2: Not reported
Mailing City: GRAND RAPIDS
Mailing State: MI
Mailing Zip: 49508
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 616-245-0451

Document ID: NYA3933358
Manifest Status: Completed copy
Trans1 State ID: 199196STI
Trans2 State ID: Not reported
Generator Ship Date: 860609
Trans1 Recv Date: 860609
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860611
Part A Recv Date: 860612
Part B Recv Date: 860620
Generator EPA ID: MID000776104
Trans1 EPA ID: ILD980682728
Trans2 EPA ID: Not reported
TSD ID: NYD043815703

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

BENTELER INDUSTRIES (Continued)

1000400112

Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 86
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYA3933180
Manifest Status: Completed copy
Trans1 State ID: 1034
Trans2 State ID: Not reported
Generator Ship Date: 860410
Trans1 Recv Date: 860410
Trans2 Recv Date: Not reported
TSD Site Recv Date: 860412
Part A Recv Date: 860415
Part B Recv Date: 860418
Generator EPA ID: MID000776104
Trans1 EPA ID: ILD980682728
Trans2 EPA ID: Not reported
TSD ID: NYD043815703
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 04400
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 008
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 100
Year: 86
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

AF157
SSW
1/2-1
0.931 mi.
4918 ft.

ICS MI LLC
4336 HANSEN AVE SW
GRAND RAPIDS, MI 49548

Site 1 of 2 in cluster AF

CERC-NFRAP
RCRA-NonGen
FINDS

1000228215
MID017073222

Relative:
Higher

CERC-NFRAP:
Site ID: 0502418
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

Actual:
675 ft.

CERCLIS-NFRAP Site Contact Name(s):
Contact Title: RESPONSIBLE PARTY INVESTIGATOR
Contact Name: JANET PFUNDHELLER
Contact Tel: (312) 353-5821

Program Priority:
Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/26/1986
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 12/31/1986
Priority Level: Higher priority for further assessment

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 08/21/1990
Priority Level: NFRAP: No further Remedial Action planned

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 09/28/1994
Priority Level: Not reported

Action: SH
Date Started: Not reported
Date Completed: 09/28/1994
Priority Level: Not reported

RCRA-NonGen:
Date form received by agency: 08/07/2003
Facility name: ICS MI LLC
Facility address: 4336 HANSEN AVE SW
GRAND RAPIDS, MI 49548

EPA ID: MID017073222
Contact: DAN BELFER
Contact address: 4336 HANSEN AVE SW
GRAND RAPIDS, MI 49548

Contact country: Not reported
Contact telephone: (616) 534-9668

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ICS MI LLC (Continued)

1000228215

Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: ICS MI LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 02/01/2002
Owner/Op end date: Not reported

Owner/operator name: ICS MI LLC
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/01/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ICS MI LLC (Continued)

1000228215

Generated waste on-site: No

Waste type: Thermostats

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY THERMOMETERS

Accumulated waste on-site: No

Generated waste on-site: No

Waste type: MERCURY SWITCHES

Accumulated waste on-site: No

Generated waste on-site: No

Historical Generators:

Date form received by agency: 01/07/1992

Facility name: ICS MI LLC

Site name: BELFER GEORGE DRUM & BARREL CO

Classification: Large Quantity Generator

Date form received by agency: 02/26/1990

Facility name: ICS MI LLC

Site name: BELFER GEORGE DRUM & BARREL CO

Classification: Large Quantity Generator

Date form received by agency: 08/18/1980

Facility name: ICS MI LLC

Classification: Not a generator, verified

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Area of violation: LDR - General

Date violation determined: 05/13/1991

Date achieved compliance: 05/21/1991

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 05/14/1991

Enf. disposition status: Not reported

Enf. disp. status date: Not reported

Enforcement lead agency: State

Proposed penalty amount: Not reported

Final penalty amount: Not reported

Paid penalty amount: Not reported

Regulation violated: Not reported

Area of violation: Generators - General

Date violation determined: 11/13/1989

Date achieved compliance: 12/04/1989

Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Enforcement action date: 11/21/1989

Enf. disposition status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ICS MI LLC (Continued)

1000228215

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

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 02/01/1988
Date achieved compliance: 05/05/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/01/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/30/1987
Date achieved compliance: 02/19/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/02/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/23/1985
Date achieved compliance: 02/06/1985
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/25/1985
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 05/19/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/13/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ICS MI LLC (Continued)

1000228215

Area of violation: LDR - General
Date achieved compliance: 05/21/1991
Evaluation lead agency: State

Evaluation date: 11/13/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/04/1989
Evaluation lead agency: State

Evaluation date: 05/05/1988
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/05/1988
Evaluation lead agency: State

Evaluation date: 02/18/1987
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/30/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/19/1987
Evaluation lead agency: State

Evaluation date: 02/03/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/23/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 02/06/1985
Evaluation lead agency: State

FINDS:

Registry ID: 110001295018

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ICS MI LLC (Continued)

1000228215

to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

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

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

AF158
SSW
1/2-1
0.931 mi.
4918 ft.

BELFER DRUM AND BARREL
4336 HANSEN AVENUE
WYOMING, MI 49509

SHWS S105144206
N/A

Site 2 of 2 in cluster AF

Relative:
Higher

SHWS:
 Facility ID: 41000006
Facility Status: Interim Response in progress
 Source: Misc Services
 SAM Score: 19
 SAM Score Date: 10/12/2004
 Township: 06N
 Range: 12W
 Section: 24
 Quarter: SW
 Quarter/Quarter: SE
 Pollutants: PCB's

Actual:
675 ft.

159
North
1/2-1
0.932 mi.
4919 ft.

MANSCO/LAKESHORE
2851 BUCHANAN AVE SW
GRAND RAPIDS, MI 49548

LUST U000257230
UST N/A

Relative:
Lower

LUST:
 Facility ID: 00033447
 Source: STATE OF MICHIGAN
 Owner Name: Jacob C. Mol
 Owner Address: 2851 Buchanan Ave SW
 Owner City,St,Zip: Grand Rapids, MI 49548-1025
 Owner Contact: Not reported
 Owner Phone: (616) 241-2611
 Country: USA
 District: Grand Rapids District Office
 Site Name: Mansco/lakeshore
 Latitude: 42.9119270000
 Longitude: -85.6709370000
 Date of Collection: 01-11-2001

Actual:
657 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANSOCO/LAKESHORE (Continued)

U000257230

Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0549-90
Release Date: Mar 29 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Aug 26 1991

UST:

Facility ID: 00033447
Facility Type: CLOSED
Latitude: 42.9119270000
Longitude: -85.6709370000
Owner Name: Jacob C. Mol
Owner Address: 2851 Buchanan Ave SW
Owner City,St,Zip: Grand Rapids, MI 49548-1025
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (616) 241-2611
Contact: JACOB C. MOL
Contact Phone: (616) 241-2611
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 550
Install Date: Mar 14 1982
Product: Gasoline
Remove Date: Mar 14 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Used Oil
Remove Date: Mar 19 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: CLAY TILE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MANSKO/LAKESHORE (Continued)

U000257230

Piping Type: Not reported
Constr Material: Concrete
Impressed Device: No

160
NNE
1/2-1
0.988 mi.
5218 ft.

ERB LUMBER CO INC
2850 DIVISION AVE S
GRAND RAPIDS, MI 49548

LUST **U003867001**
UST **N/A**

Relative:
Lower

LUST:

Facility ID: 00010848
Source: STATE OF MICHIGAN
Owner Name: Erb Lumber Co
Owner Address: 2155 Butterfield Dr Ste 300
Owner City,St,Zip: Troy, MI 48084-3452
Owner Contact: Not reported
Owner Phone: (248) 614-6200
Country: USA
District: Grand Rapids District Office
Site Name: Erb Lumber Co Inc
Latitude: 42.9117560000
Longitude: -85.6656380000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0147-91
Release Date: Jan 31 1991
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Jul 2 1991

Actual:
655 ft.

UST:

Facility ID: 00010848
Facility Type: CLOSED
Latitude: 42.9117560000
Longitude: -85.6656380000
Owner Name: Erb Lumber Co
Owner Address: 2155 Butterfield Dr Ste 300
Owner City,St,Zip: Troy, MI 48084-3452
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 614-6200
Contact: JOHN DOROSZ
Contact Phone: (313) 644-5300
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ERB LUMBER CO INC (Continued)

U003867001

Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 2000
Install Date: May 2 1985
Product: Diesel
Remove Date: Sep 30 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 1000
Install Date: May 2 1986
Product: Gasoline
Remove Date: Sep 30 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
Tank Status: **Removed from Ground**
Capacity: 1000
Install Date: May 3 1971
Product: Gasoline
Remove Date: Jun 1 1987
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

161
NE
> 1
1.141 mi.
6022 ft.

RAPID PATTERN & PLASTICS INC
2935 MADISON SE
GRAND RAPIDS, MI 49548

DEL SHWS S105965944
N/A

Relative:
Lower

Actual:
670 ft.

DELETED HWS:
Facility ID: 41000214
Status: Delisted - no longer meets criteria specified in rules

MAP FINDINGS

Map ID			EDR ID Number
Direction			EPA ID Number
Distance			
Elevation	Site	Database(s)	

162 North > 1 1.231 mi. 6501 ft.	2610 BUCHANAN AVENUE SW 2610 BUCHANAN AVENUE SW GRAND RAPIDS, MI 49548	DEL SHWS	S105965953 N/A
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Relative: DELETED HWS:
Lower Facility ID: 41000944
 Status: Delisted - no longer meets criteria specified in rules

Actual:
 641 ft.

163 NW > 1 1.361 mi. 7185 ft.	1021 28TH STREET SW 1021 28TH STREET SW WYOMING, MI 49509	DEL SHWS BEA	S106174342 N/A
--	--	-------------------------------	--------------------------

Relative: DELETED HWS:
Higher Facility ID: 41001008
 Status: Deleted - available documentation does not support listing

Actual:
 677 ft.

BEA:

Secondary Address: Not reported
 BEA Number: 1346
 District: Grand Rapids
 Date Received: 1/26/2004 12:59:00 AM
 Submitter Name: Wright & Filippis, Inc.
 Petition Determination: Affirmed
 Petition Disclosure: 1
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: monetd
 Division Assigned: Environmental Response Division

Secondary Address: Not reported
 BEA Number: 1345
 District: Grand Rapids
 Date Received: 1/26/2004 12:59:00 AM
 Submitter Name: G R Investments, LLC
 Petition Determination: Affirmed
 Petition Disclosure: 1
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: monetd
 Division Assigned: Environmental Response Division

164 East > 1 1.383 mi. 7302 ft.	3664 EASTERN AVE. SE 3664 EASTERN AVE. SE GRAND RAPIDS, MI 49508	DEL SHWS	S109029667 N/A
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Relative: DELETED HWS:
Higher Facility ID: 41001058
 Status: Deleted - available documentation does not support listing

Actual:
 693 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
GRAND RAPIDS	1001960970	GRAND AUTO SALES AND LEASING	3105 DIVISION AVE S	49548	FINDS,RCRA-CESQG
GRAND RAPIDS	1004533845	CADILLAC PLASTIC & CHEMICAL CO	3015 S DIVISION	49508	FTTS,FINDS,HIST FTTS INSP
GRAND RAPIDS	1004722117	CHRISTIAN MUSIC CTR	2145 DIVISION AVE S	49507	FINDS,RCRA-CESQG
GRAND RAPIDS	1004723738	FLOYDS ELECTRIC SERVICE	3781 CLAY CT SW	49548	FINDS,RCRA-CESQG
GRAND RAPIDS	1004724554	PARIS MOTORS	4112 DIVISION AVE S	49548	FINDS,RCRA-CESQG
WYOMING	1007098453	MIDWAY ENTERPRISES INC	5039 DIVISION AVE S	49548	RCRA-NLR
GRAND RAPIDS	1007100429	FASTENERS INC	2909 BUCHANAN AVE SW	49548	RCRA-CESQG
WYOMING	1007100889	SPEEDWAY SUPERAMERICA LLC	3315 S DIVISION	49508	RCRA-CESQG
GRAND RAPIDS	1007880589	MI DEPT/TRANSPORTATION	US-131 UNDER BURTON STREET	49509	RCRA-CESQG
WYOMING	1007880734	MCGRAW TIRE CO	4359 DIVISION AVE S	49548	RCRA-CESQG
WYOMING	1008193151	WYOMING PUBLIC SCHOOLS	3575 GLADIOLA S.W.	49505	HIST FTTS INSP
GRAND RAPIDS	1008373451	HANKS TIRE & AUTO REPAIR LLC	6600 DIVISION AVE S	49548	RCRA-CESQG
KENTWOOD	1008880929	ADVANCE AUTO PARTS	4424 DIVISION AVE S	49548	RCRA-CESQG
WYOMING	1010012068	WYOMING PUBLIC SCHOOLS	3575 GLADIOLA S.W.	49505	FTTS
WYOMING	1010038339	WYOMING	3647 LINDEN	49509	FINDS
WYOMING	1010320209	SDP CORP	3600 CLYDE PARK AVE SW	49509	RCRA-CESQG
WYOMING	1010320793	MI DEPT/TRANSPORTATION	LAT:42.88417 LONG:85.68061	49550	RCRA-CESQG
GRAND RAPIDS	1010438390	MI DEPT/TRANSPORTATION	LAT:42.88417 LONG:85.68061	49550	FINDS
WYOMING	1010785793	MI DEPT/ENVIRONMENTAL QUALITY	T 06N R 12W WYOMING TWP	49509	RCRA-NLR
TRAVERSE CITY	U003319450	PARKER MOTOR FREIGHT	211 SOUTH US-31 211 S MEMORIAL	49508	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.

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/02/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/02/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 03/01/2010
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/31/2010
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 03/31/2010	Source: EPA
Date Data Arrived at EDR: 04/02/2010	Telephone: N/A
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/02/2010
Number of Days to Update: 10	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 01/29/2010	Source: EPA
Date Data Arrived at EDR: 02/09/2010	Telephone: 703-412-9810
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 03/30/2010
Number of Days to Update: 62	Next Scheduled EDR Contact: 07/12/2010
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realignment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 06/23/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 703-603-8704
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 04/14/2010
Number of Days to Update: 26	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

Date of Government Version: 06/23/2009	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 03/11/2010
Number of Days to Update: 19	Next Scheduled EDR Contact: 06/14/2010
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/11/2009	Source: EPA
Date Data Arrived at EDR: 12/29/2009	Telephone: 800-424-9346
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 02/15/2010
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/31/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 312-886-6186
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 04/16/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 312-886-6186
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 04/16/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 312-886-6186
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 04/16/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 312-886-6186
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 04/16/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 03/15/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/28/2010
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 12/20/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/20/2010	Telephone: 703-603-0695
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 03/15/2010
Number of Days to Update: 82	Next Scheduled EDR Contact: 06/28/2010
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 12/31/2009	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/22/2010	Telephone: 202-267-2180
Date Made Active in Reports: 02/11/2010	Last EDR Contact: 04/07/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

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: 02/01/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/03/2010	Telephone: 517-373-9541
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 02/03/2010
Number of Days to Update: 23	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

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

SWF/LF: Solid Waste Facilities Database

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: 02/03/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/04/2010	Telephone: 517-335-4035
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 04/05/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

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: 03/29/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 04/01/2010	Telephone: 517-373-9837
Date Made Active in Reports: 04/13/2010	Last EDR Contact: 04/01/2010
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/07/2010
	Data Release Frequency: Annually

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

Date of Government Version: 02/01/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2010	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

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

Date of Government Version: 03/10/2010	Source: EPA Region 4
Date Data Arrived at EDR: 03/16/2010	Telephone: 404-562-8677
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

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

Date of Government Version: 02/02/2010	Source: EPA Region 10
Date Data Arrived at EDR: 02/03/2010	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

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

Date of Government Version: 02/19/2009	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 03/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

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

Date of Government Version: 03/05/2010	Source: EPA Region 6
Date Data Arrived at EDR: 03/05/2010	Telephone: 214-665-6597
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 38	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/24/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 28

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 02/25/2010
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 46

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Quarterly

State and tribal registered storage tank lists

UST: Underground Storage Tank Facility List

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

Date of Government Version: 03/29/2010
Date Data Arrived at EDR: 04/01/2010
Date Made Active in Reports: 04/14/2010
Number of Days to Update: 13

Source: Department of Natural Resources & Environment
Telephone: 517-335-4035
Last EDR Contact: 04/01/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 02/05/2010
Date Data Arrived at EDR: 03/12/2010
Date Made Active in Reports: 04/14/2010
Number of Days to Update: 33

Source: Department of Natural Resources & Environment
Telephone: 517-373-8168
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: No Update Planned

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/25/2010
Date Data Arrived at EDR: 02/25/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 46

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/19/2009	Source: EPA, Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 03/01/2010
Number of Days to Update: 25	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/01/2010	Source: EPA Region 9
Date Data Arrived at EDR: 03/03/2010	Telephone: 415-972-3368
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 03/10/2010	Source: EPA Region 4
Date Data Arrived at EDR: 03/16/2010	Telephone: 404-562-9424
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 27	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/02/2010	Source: EPA Region 10
Date Data Arrived at EDR: 02/03/2010	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/17/2010
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/08/2010	Source: EPA Region 6
Date Data Arrived at EDR: 02/09/2010	Telephone: 214-665-7591
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 9	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/11/2010	Source: EPA Region 5
Date Data Arrived at EDR: 02/11/2010	Telephone: 312-886-6136
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/19/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place.

Date of Government Version: 03/26/2010
Date Data Arrived at EDR: 03/26/2010
Date Made Active in Reports: 04/13/2010
Number of Days to Update: 18

Source: Department of Natural Resources & Environment
Telephone: 517-373-4828
Last EDR Contact: 03/08/2010
Next Scheduled EDR Contact: 06/21/2010
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/05/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

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

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 02/12/2010
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/26/2010
Number of Days to Update: 14

Source: Department of Natural Resources & Environment
Telephone: 517-373-4805
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 03/08/2010
Next Scheduled EDR Contact: 06/21/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 10/01/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/04/2009	Telephone: 202-566-2777
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 03/23/2010
Number of Days to Update: 42	Next Scheduled EDR Contact: 07/12/2010
	Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

ODI: Open Dump Inventory

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

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-972-3336
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 03/22/2010
Number of Days to Update: 137	Next Scheduled EDR Contact: 06/21/2010
	Data Release Frequency: Varies

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/28/2003	Telephone: 517-335-4034
Date Made Active in Reports: 03/06/2003	Last EDR Contact: 02/28/2003
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 02/08/2010
Number of Days to Update: 52	Next Scheduled EDR Contact: 05/24/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

Date of Government Version: 08/19/2009	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/29/2009	Telephone: 202-307-1000
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 12/14/2009
Number of Days to Update: 43	Next Scheduled EDR Contact: 03/22/2010
	Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

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: 02/04/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/04/2010	Telephone: 517-373-9541
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008	Source: Department of Community Health
Date Data Arrived at EDR: 11/18/2008	Telephone: 517-373-3740
Date Made Active in Reports: 11/21/2008	Last EDR Contact: 02/02/2010
Number of Days to Update: 3	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/22/2009
	Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 02/05/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/11/2010	Telephone: 202-564-6023
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 60	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUCIS: Land Use Control Information System

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

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 03/17/2010
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/07/2010
	Data Release Frequency: Varies

LIENS: Lien List

An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 01/05/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 01/29/2010	Telephone: 517-373-9837
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 01/27/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/10/2010
	Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 12/31/2009	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/06/2010	Telephone: 202-366-4555
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 04/07/2010
Number of Days to Update: 35	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Annually

PEAS: Pollution Emergency Alerting System

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: 12/08/2009	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 03/12/2010	Telephone: 517-373-8427
Date Made Active in Reports: 03/23/2010	Last EDR Contact: 03/15/2010
Number of Days to Update: 11	Next Scheduled EDR Contact: 06/28/2010
	Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

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

Date of Government Version: 01/13/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/15/2010	Telephone: 312-886-6186
Date Made Active in Reports: 02/18/2010	Last EDR Contact: 04/16/2010
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 02/09/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 62

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/09/2010
Next Scheduled EDR Contact: 05/24/2010
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/18/2010
Next Scheduled EDR Contact: 06/28/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 08/03/2009
Date Data Arrived at EDR: 10/27/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2010
Next Scheduled EDR Contact: 07/19/2010
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 12/01/2009
Date Data Arrived at EDR: 12/15/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/02/2010
Next Scheduled EDR Contact: 06/28/2010
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 01/21/2010
Next Scheduled EDR Contact: 06/14/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MINES: Mines Master Index File

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

Date of Government Version: 11/17/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 42

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/10/2010
Next Scheduled EDR Contact: 06/21/2010
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 02/18/2010
Number of Days to Update: 36

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 03/02/2010
Next Scheduled EDR Contact: 06/14/2010
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 07/12/2010
Data Release Frequency: Every 4 Years

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

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

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 03/01/2010
Next Scheduled EDR Contact: 06/14/2010
Data Release Frequency: Quarterly

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

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

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

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 03/01/2010
Next Scheduled EDR Contact: 06/14/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

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

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

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

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 01/06/2010
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 02/01/2010
Next Scheduled EDR Contact: 05/17/2010
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/10/2009
Date Data Arrived at EDR: 11/18/2009
Date Made Active in Reports: 01/19/2010
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 03/29/2010
Next Scheduled EDR Contact: 07/12/2010
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 09/01/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 41

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 02/16/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 12/24/2009
Date Data Arrived at EDR: 12/31/2009
Date Made Active in Reports: 02/10/2010
Number of Days to Update: 41

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 03/15/2010
Next Scheduled EDR Contact: 06/28/2010
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

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

Date of Government Version: 01/12/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/13/2010	Telephone: 202-343-9775
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 04/14/2010
Number of Days to Update: 28	Next Scheduled EDR Contact: 07/26/2010
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 10/19/2009	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (312) 353-2000
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 03/15/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/28/2010
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2007	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 02/25/2010
Number of Days to Update: 92	Next Scheduled EDR Contact: 06/07/2010
	Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 02/02/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 03/03/2010	Telephone: 517-241-1515
Date Made Active in Reports: 03/23/2010	Last EDR Contact: 02/01/2010
Number of Days to Update: 20	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/26/2010
Date Data Arrived at EDR: 02/05/2010
Date Made Active in Reports: 02/26/2010
Number of Days to Update: 21

Source: Department of Natural Resources & Environment
Telephone: 517-335-4586
Last EDR Contact: 01/25/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 01/12/2010
Date Data Arrived at EDR: 01/13/2010
Date Made Active in Reports: 01/27/2010
Number of Days to Update: 14

Source: Department of Natural Resources & Environment
Telephone: 517-241-1300
Last EDR Contact: 04/14/2010
Next Scheduled EDR Contact: 07/26/2010
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 39

Source: Department of Natural Resources & Environment
Telephone: 517-373-7074
Last EDR Contact: 04/02/2010
Next Scheduled EDR Contact: 07/12/2010
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 03/01/2010
Date Data Arrived at EDR: 03/02/2010
Date Made Active in Reports: 03/23/2010
Number of Days to Update: 21

Source: Department of Natural Resources & Environment
Telephone: 517-373-9541
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: Semi-Annually

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/21/2010
Next Scheduled EDR Contact: 08/02/2010
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

Date of Government Version: 02/10/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 60

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2010
Next Scheduled EDR Contact: 05/10/2010
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDLAND: Federal and Indian Lands

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

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/21/2010
Number of Days to Update: 339	Next Scheduled EDR Contact: 08/02/2010
	Data Release Frequency: N/A

FINANCIAL ASSURANCE: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/28/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/03/2010	Telephone: 517-335-6610
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 04/12/2010
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Varies

FINANCIAL ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/03/2010	Source: Department of Natural Resources & Environment
Date Data Arrived at EDR: 02/04/2010	Telephone: 517-335-4034
Date Made Active in Reports: 02/26/2010	Last EDR Contact: 04/05/2010
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/19/2010
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

Date of Government Version: 11/09/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2009	Telephone: N/A
Date Made Active in Reports: 02/10/2010	Last EDR Contact: 03/16/2010
Number of Days to Update: 54	Next Scheduled EDR Contact: 06/28/2010
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 01/01/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/18/2009	Telephone: 202-566-0517
Date Made Active in Reports: 05/29/2009	Last EDR Contact: 02/24/2010
Number of Days to Update: 100	Next Scheduled EDR Contact: 05/17/2010
	Data Release Frequency: Varies

COAL ASH DOE: Steam-Electric Plan Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/27/2010
Number of Days to Update: 76	Next Scheduled EDR Contact: 05/03/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 01/25/2010
Date Data Arrived at EDR: 01/25/2010
Date Made Active in Reports: 01/27/2010
Number of Days to Update: 2

Source: Department of Natural Resources & Environment
Telephone: 586-753-3754
Last EDR Contact: 04/12/2010
Next Scheduled EDR Contact: 07/26/2010
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

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

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

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

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

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

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 03/02/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 01/20/2010
Date Made Active in Reports: 02/05/2010
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/20/2010
Next Scheduled EDR Contact: 05/03/2010
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/04/2010
Date Data Arrived at EDR: 02/11/2010
Date Made Active in Reports: 03/17/2010
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/11/2010
Next Scheduled EDR Contact: 05/24/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

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

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 02/23/2010
Next Scheduled EDR Contact: 06/07/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 02/12/2010
Date Made Active in Reports: 02/22/2010
Number of Days to Update: 10

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 03/01/2010
Next Scheduled EDR Contact: 06/14/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/22/2010
Next Scheduled EDR Contact: 07/05/2010
Data Release Frequency: Annually

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

Electric Power Transmission Line Data

Source: 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

070195 - WYOMING, MI
300 36TH STREET SW
WYOMING, MI 49548

TARGET PROPERTY COORDINATES

Latitude (North):	42.89870 - 42° 53' 55.3"
Longitude (West):	85.6733 - 85° 40' 23.9"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	608318.4
UTM Y (Meters):	4750204.5
Elevation:	672 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42085-H6 GRAND RAPIDS WEST, MI
Most Recent Revision:	1996

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

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

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

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

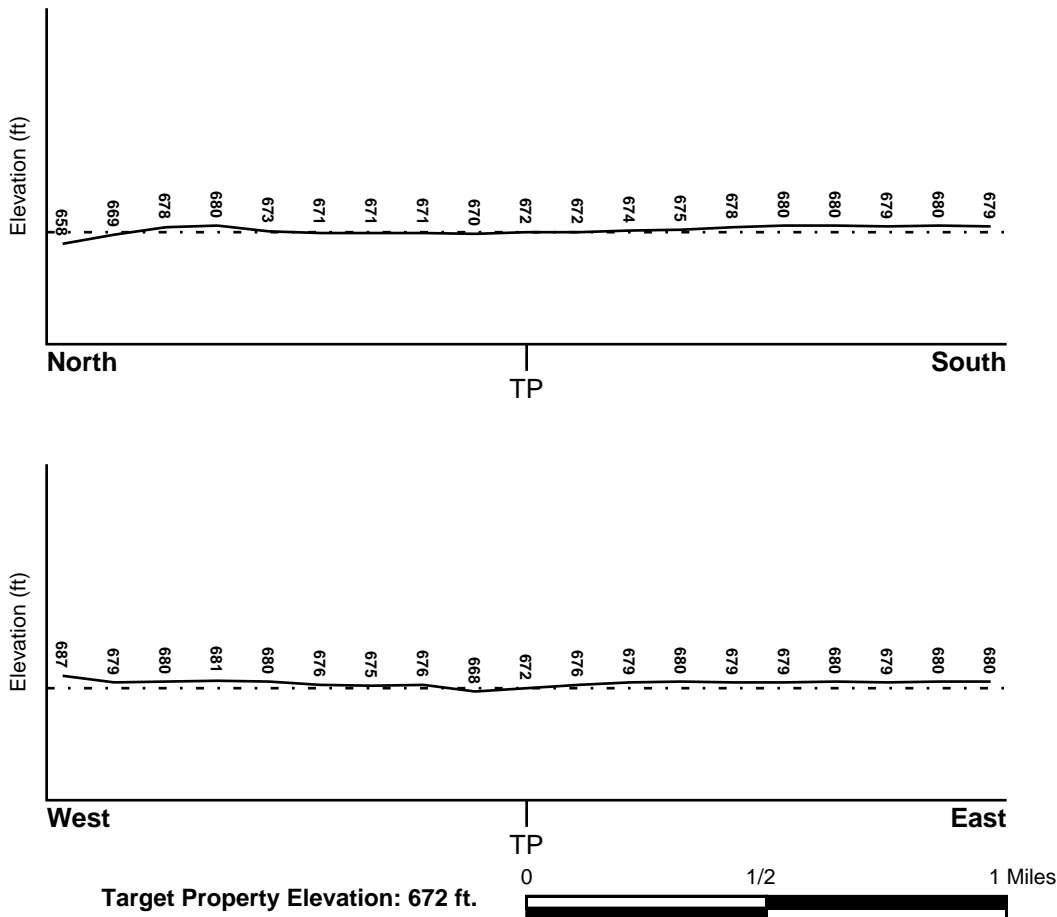
TOPOGRAPHIC INFORMATION

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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WNW

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> KENT, MI	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
---	--

Flood Plain Panel at Target Property: 2601110015C - FEMA Q3 Flood data

Additional Panels in search area:
 2601110005C - FEMA Q3 Flood data
 2601060025C - FEMA Q3 Flood data
 2601070005B - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> GRAND RAPIDS WEST	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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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 FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/8 - 1/4 Mile West	NE
2	1/8 - 1/4 Mile SW	Not Reported
3	1/4 - 1/2 Mile SW	NE
4	1/4 - 1/2 Mile East	NNW
5	1/4 - 1/2 Mile ENE	WNW
6	1/4 - 1/2 Mile ESE	Not Reported
7	1/2 - 1 Mile NE	W

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
A9	1/2 - 1 Mile West	E, ESE
A10	1/2 - 1 Mile West	NE
11	1/2 - 1 Mile NE	NW
12	1/2 - 1 Mile SE	SW
B16	1/2 - 1 Mile ENE	Not Reported
B17	1/2 - 1 Mile ENE	WNW
18	1/2 - 1 Mile South	E

For additional site information, refer to Physical Setting Source Map Findings.

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: Mississippian
Series: Meramecian Series
Code: M2 (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: PLAINFIELD

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

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

Corrosion Potential - Uncoated Steel: LOW

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	7 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.30 Min: 5.10
2	7 inches	36 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 4.50
3	36 inches	60 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 4.50

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 sand
loam

Surficial Soil Types: loamy sand
loam

Shallow Soil Types: sandy clay loam
loamy fine sand
sandy loam

Deeper Soil Types: loam
fine sand
sandy loam
silty clay loam
gravelly - sand

LOCAL / REGIONAL WATER AGENCY RECORDS

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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>
No Wells Found		

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>
13	MI20137610	1/2 - 1 Mile SSW
14	MI20137597	1/2 - 1 Mile North
15	MI20147308	1/2 - 1 Mile SE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

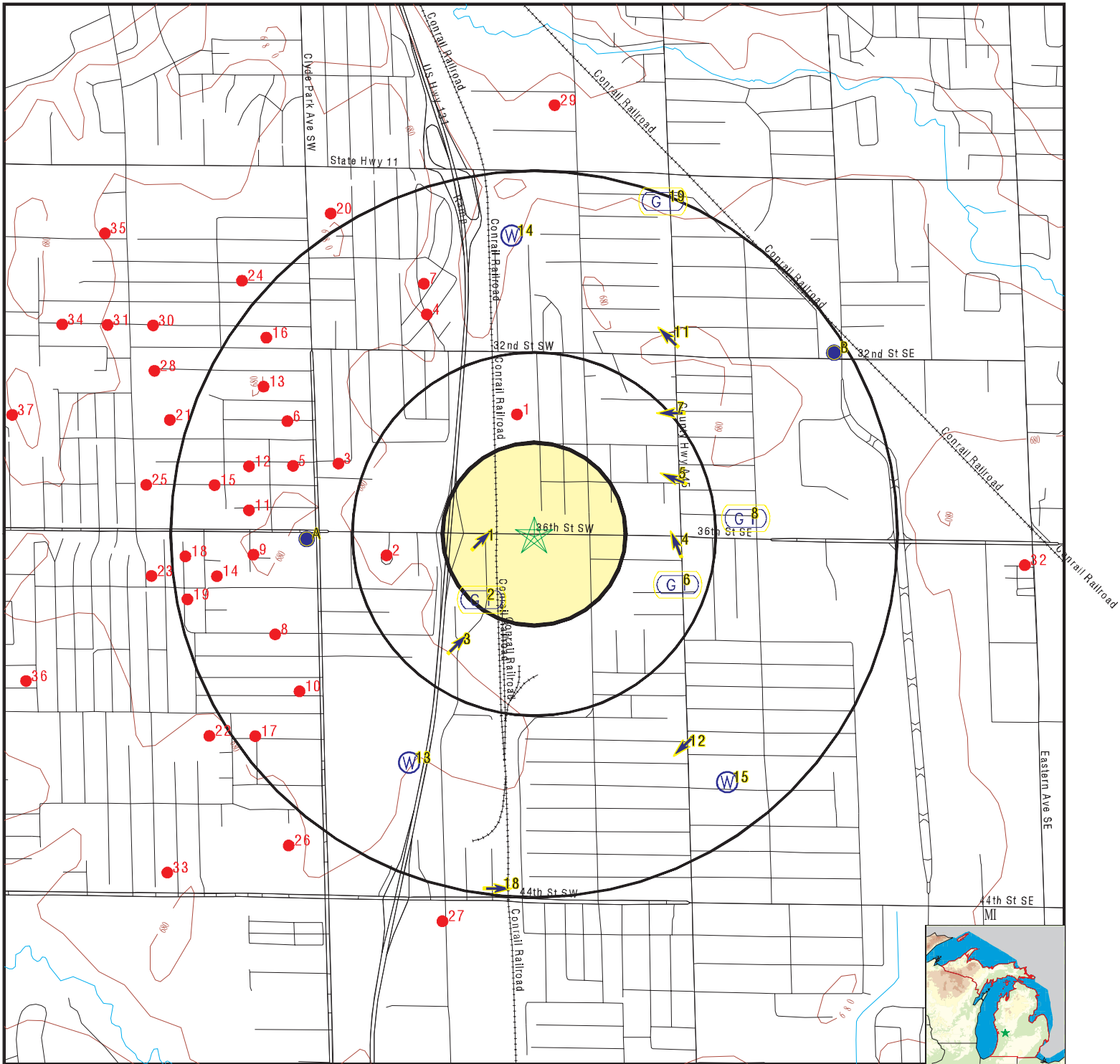
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MIOG40000015448	1/4 - 1/2 Mile North
2	MIOG40000015380	1/4 - 1/2 Mile West
3	MIOG40000015426	1/2 - 1 Mile WNW
4	MIOG40000015486	1/2 - 1 Mile NNW
5	MIOG40000015423	1/2 - 1 Mile WNW
6	MIOG40000015444	1/2 - 1 Mile WNW
7	MIOG40000015498	1/2 - 1 Mile NNW
8	MIOG40000015339	1/2 - 1 Mile WSW
9	MIOG40000015381	1/2 - 1 Mile West
10	MIOG40000015316	1/2 - 1 Mile SW
11	MIOG40000015398	1/2 - 1 Mile West
12	MIOG40000015422	1/2 - 1 Mile WNW
13	MIOG40000015460	1/2 - 1 Mile WNW
14	MIOG40000015364	1/2 - 1 Mile West
15	MIOG40000015409	1/2 - 1 Mile West
16	MIOG40000015472	1/2 - 1 Mile NW
17	MIOG40000015295	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
18	MIOG40000015378	1/2 - 1 Mile West
19	MIOG40000015353	1/2 - 1 Mile West
20	MIOG40000015514	1 - 2 Miles NNW
21	MIOG40000015446	1 - 2 Miles WNW
22	MIOG40000015296	1 - 2 Miles WSW
23	MIOG40000015365	1 - 2 Miles West
24	MIOG40000015500	1 - 2 Miles NW
25	MIOG40000015410	1 - 2 Miles West
26	MIOG40000015251	1 - 2 Miles SW
27	MIOG40000015228	1 - 2 Miles SSW
28	MIOG40000015467	1 - 2 Miles WNW
29	MIOG40000015540	1 - 2 Miles North
30	MIOG40000015479	1 - 2 Miles WNW
31	MIOG40000015480	1 - 2 Miles WNW
32	MIOG40000015373	1 - 2 Miles East
33	MIOG40000015241	1 - 2 Miles SW
34	MIOG40000015481	1 - 2 Miles WNW
35	MIOG40000015511	1 - 2 Miles NW
36	MIOG40000015317	1 - 2 Miles WSW
37	MIOG40000015447	1 - 2 Miles WNW

PHYSICAL SETTING SOURCE MAP - 2751676.2s



- 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

SITE NAME: 070195 - Wyoming, MI
 ADDRESS: 300 36th Street SW
 Wyoming MI 49548
 LAT/LONG: 42.8987 / 85.6733

CLIENT: Conestoga-Rovers & Associates
 CONTACT: Kelly F. Connolly
 INQUIRY #: 2751676.2s
 DATE: April 21, 2010 1:54 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
1	West	1/8 - 1/4 Mile	Lower		
	Site ID:	410172		AQUIFLOW	27773
	Groundwater Flow:	NE			
	Shallowest Water Table Depth:	9			
	Deepest Water Table Depth:	11			
	Average Water Table Depth:	Not Reported			
	Date:	04/28/1992			
2	SW	1/8 - 1/4 Mile	Lower		
	Site ID:	410226		AQUIFLOW	28546
	Groundwater Flow:	Not Reported			
	Shallowest Water Table Depth:	Not Reported			
	Deepest Water Table Depth:	Not Reported			
	Average Water Table Depth:	8-10			
	Date:	10/04/1995			
3	SW	1/4 - 1/2 Mile	Higher		
	Site ID:	410714		AQUIFLOW	28585
	Groundwater Flow:	NE			
	Shallowest Water Table Depth:	9			
	Deepest Water Table Depth:	13			
	Average Water Table Depth:	Not Reported			
	Date:	02/1995			
4	East	1/4 - 1/2 Mile	Higher		
	Site ID:	110751121		AQUIFLOW	28453
	Groundwater Flow:	NNW			
	Shallowest Water Table Depth:	Not Reported			
	Deepest Water Table Depth:	Not Reported			
	Average Water Table Depth:	Not Reported			
	Date:	11/05/1991			
5	ENE	1/4 - 1/2 Mile	Higher		
	Site ID:	Not Reported		AQUIFLOW	28050
	Groundwater Flow:	WNW			
	Shallowest Water Table Depth:	14			
	Deepest Water Table Depth:	19			
	Average Water Table Depth:	Not Reported			
	Date:	03/11/1998			
6	ESE	1/4 - 1/2 Mile	Higher		
	Site ID:	410087		AQUIFLOW	27997
	Groundwater Flow:	Not Reported			
	Shallowest Water Table Depth:	Not Reported			
	Deepest Water Table Depth:	Not Reported			
	Average Water Table Depth:	10			
	Date:	05/16/1997			
7	NE	1/2 - 1 Mile	Higher		
	Site ID:	0-011072		AQUIFLOW	27884
	Groundwater Flow:	W			
	Shallowest Water Table Depth:	Not Reported			
	Deepest Water Table Depth:	Not Reported			
	Average Water Table Depth:	Not Reported			
	Date:	04/28/1995			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A9 West 1/2 - 1 Mile Higher	Site ID: 410252 Groundwater Flow: E, ESE Shallowest Water Table Depth: 20 Deepest Water Table Depth: 30 Average Water Table Depth: Not Reported Date: 05/06/1997	AQUIFLOW	28541
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A10 West 1/2 - 1 Mile Higher	Site ID: 410582 Groundwater Flow: NE Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 10 Date: 02/22/1989	AQUIFLOW	28396
---	---	-----------------	--------------

11 NE 1/2 - 1 Mile Higher	Site ID: 0-011831 Groundwater Flow: NW Shallowest Water Table Depth: 22.61 Deepest Water Table Depth: 24.97 Average Water Table Depth: Not Reported Date: 05/30/1995	AQUIFLOW	28459
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12 SE 1/2 - 1 Mile Higher	Site ID: 410637 Groundwater Flow: SW Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 2.5-4 Date: 12/17/1993	AQUIFLOW	28022
--	--	-----------------	--------------

13 SSW 1/2 - 1 Mile Higher		MI WELLS	MI20137610
---	--	-----------------	-------------------

Wellid: 4100002613	Import id: 41061224001
County: Kent	Township: Wyoming
Town range: 06N 12W	Section: 24
Owner name: RESSURECTION CEMETERY	
Well addr: 4100 CLYDE PARK SE	
Well depth: 281	
Well type: Other	
Wssn: 0	
Well num: Not Reported	Driller id: 384
Const date: 1967-09-12 00:00:00.000	Case type: Unknown
Case dia: 4	
Case depth: 186.6	
Screen frm: 0	
Screen to: 0	
Swl: 45	
Test depth: 70	
Test hours: 5	
Test rate: 75	Test methd: Unknown
Grouted: 1	Pmp cpcity: 0
Latitude: 42.8895880309	
Longitude: -85.6800625462	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	680		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	679	Elev dif:	1
Elev niv:	680	Aq code:	Rock Well
Aq flag:	Not Reported	Pct aq:	35
Pct aq d:	0	Pct aq r:	49
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	37
Pct cm d:	0	Pct cm r:	51
Pct pcm:	28	Pct pcm d:	100
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	80
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	R		
Hit swl:	F		
Athk2:	0		
Horiz Conduct:	.01		
Vert Conduct:	.01		
T2:	.6		
D50plek:	.10361		

**14
North
1/2 - 1 Mile
Lower**

MI WELLS MI20137597

Wellid:	41000002539	Import id:	41061213001
County:	Kent	Township:	Wyoming
Town range:	06N 12W	Section:	13
Owner name:	OSBORN, C.D.		
Well addr:	2945 HILLCROFT		
Well depth:	45		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	1044
Const date:	1973-10-01 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	40		
Screen frm:	40		
Screen to:	45		
Swl:	15		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.9106021166		
Longitude:	-85.6745113094		
Methd coll:	Interpolation-Map		
Elevation:	658		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	656	Elev dif:	2
Elev miv:	658	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	100
Pct aq d:	100	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	30	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	30	A pct aq2:	100

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	30		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	3000		
D50plek:	147.92695		

15
SE
1/2 - 1 Mile
Higher

MI WELLS MI20147308

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	41000015994	Import id:	Not Reported
County:	Kent	Township:	Paris
Town range:	06N 11W	Section:	19
Owner name:	WYBIE VANDYKE		
Well addr:	111 BELLEVUE SE		
Well depth:	33		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1044
Const date:	1969-04-02 00:00:00.000	Case type:	Unknown
Case dia:	3		
Case depth:	30		
Screen frm:	30		
Screen to:	33		
Swl:	15		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.88880568		
Longitude:	-85.66281911		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	672	Elev dif:	672
Elev miv:	672	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Rock aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	18	A pct aq:	28
A pct maq:	72	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	18	A pct aq2:	28
A pct maq2:	72	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	N
Aq code 1:	D		
Hit swl:	T		
Athk2:	18		
Horiz Conduct:	55.56278		
Vert Conduct:	.01385		
T2:	1000.13		
D50plek:	31.32183		

B16 ENE 1/2 - 1 Mile Higher	Site ID: 0-013853 Groundwater Flow: Not Reported Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 15 Date: 05/29/1990	AQUIFLOW	28423
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B17 ENE 1/2 - 1 Mile Higher	Site ID: 0-019332 Groundwater Flow: WNW Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 10 Date: 09/17/1998	AQUIFLOW	28627
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18 South 1/2 - 1 Mile Higher	Site ID: 410702 Groundwater Flow: E Shallowest Water Table Depth: Not Reported Deepest Water Table Depth: Not Reported Average Water Table Depth: 15 Date: 02/27/1998	AQUIFLOW	27768
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

North

1/4 - 1/2 Mile

OIL_GAS

MIOG40000015448

Api wellno:	21081062560000		
Operator no:	4041		
Operator Name:	SWANSON CONSOLIDATED OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	GRAND RAPIDS	Operator State:	MI
Permit no:	6256		
Lease name:	RICHARDSON, C		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	2001	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	13
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	NW
Wh q:	SE		
Wh lat:	42.90347		
Wh long:	-85.67423		
Wh georef :	526465.5		
Wh georef1:	261448.2		
Bh georef :	526465.5		
Bh georef1:	261448.2		
Bh sourcel:	C		
Bh lat:	42.90347		
Bh long:	-85.67423		
Site id:	MIOG40000015448		

2

West

1/4 - 1/2 Mile

OIL_GAS

MIOG40000015380

Api wellno:	21081068560000		
Operator no:	3398		
Operator Name:	HARRIS OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	SOUTH HAVEN	Operator State:	MI
Permit no:	6856		
Lease name:	KAMMEN, LOUIS & SENA		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1972	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	24
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	NE	Wh qq:	NW
Wh q:	NW		
Wh lat:	42.89785		
Wh long:	-85.6813		
Wh georef :	525890.86		
Wh georef1:	260821.62		
Bh georef :	525890.86		
Bh georef1:	260821.62		
Bh sourcel:	C		
Bh lat:	42.89785		
Bh long:	-85.6813		
Site id:	MIOG40000015380		

3

WNW

1/2 - 1 Mile

OIL_GAS

MIOG40000015426

Api wellno:	21081060370000		
Operator no:	2343		
Operator Name:	SPRENGER BROTHERS		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6037		
Lease name:	MILLER, SEMPOSKI, MACNEAL COMM.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1930	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	13
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	SW
Wh q:	SW		
Wh lat:	42.90151		
Wh long:	-85.68391		
Wh georef :	525675.91		
Wh georef1:	261227.26		
Bh georef :	525675.91		
Bh georef1:	261227.26		
Bh sourcel:	C		
Bh lat:	42.90151		
Bh long:	-85.68391		
Site id:	MIOG40000015426		

4

NNW

1/2 - 1 Mile

OIL_GAS

MIOG40000015486

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081070520000		
Operator no:	1571		
Operator Name:	MARX AND SCHERER		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7052		
Lease name:	PECK, LEWIS		
Well no:	2		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1923	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	13
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	SE
Wh q:	NW		
Wh lat:	42.90746		
Wh long:	-85.67912		
Wh georef :	526063.98		
Wh georef1:	261889.78		
Bh georef :	526063.98		
Bh georef1:	261889.78		
Bh sourcel:	C		
Bh lat:	42.90746		
Bh long:	-85.67912		
Site id:	MIOG40000015486		

5

WNW

1/2 - 1 Mile

OIL_GAS

MIOG40000015423

Api wellno:	21081066840000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6684		
Lease name:	RODENHOUSE, A.		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	1901	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NE	Wh qq:	SE
Wh q:	SE		
Wh lat:	42.90142		
Wh long:	-85.68637		
Wh georef :	525475.12		
Wh georef1:	261216.12		
Bh georef :	525475.12		
Bh georef1:	261216.12		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.90142
 Bh long: -85.68637
 Site id: MIOG40000015423

6
WNW
 1/2 - 1 Mile

OIL_GAS **MIOG40000015444**

Api wellno:	21081062540000		
Operator no:	4041		
Operator Name:	SWANSON CONSOLIDATED OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	GRAND RAPIDS	Operator State:	MI
Permit no:	6254		
Lease name:	DECKER & JEAN		
Well no:	A-1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1926	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	SE	Wh qq:	NE
Wh q:	SE		
Wh lat:	42.9032		
Wh long:	-85.68668		
Wh georef :	525449.02		
Wh georef1:	261414.45		
Bh georef :	525449.02		
Bh georef1:	261414.45		
Bh sourcel:	C		
Bh lat:	42.9032		
Bh long:	-85.68668		
Site id:	MIOG40000015444		

7
NNW
 1/2 - 1 Mile

OIL_GAS **MIOG40000015498**

Api wellno:	21081065740000		
Operator no:	2060		
Operator Name:	ROSE LOUIS		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6574		
Lease name:	PECK, LEWIS		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	2000	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	13
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	SE
Wh q:	NW		
Wh lat:	42.90868		
Wh long:	-85.67928		
Wh georef :	526050.65		
Wh georef1:	262025.34		
Bh georef :	526050.65		
Bh georef1:	262025.34		
Bh sourcel:	C		
Bh lat:	42.90868		
Bh long:	-85.67928		
Site id:	MIOG40000015498		

8

WSW

1/2 - 1 Mile

OIL_GAS

MIOG40000015339

Api wellno:	21081071320000		
Operator no:	1227		
Operator Name:	JOHNSON NORMAN F		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7132		
Lease name:	MURPHY, MARY		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1884	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	N2	Wh qq:	SE
Wh q:	NE		
Wh lat:	42.8947		
Wh long:	-85.68734		
Wh georef :	525399.06		
Wh georef1:	260470.39		
Bh georef :	525399.06		
Bh georef1:	260470.39		
Bh sourcel:	C		
Bh lat:	42.8947		
Bh long:	-85.68734		
Site id:	MIOG40000015339		

9

West

1/2 - 1 Mile

OIL_GAS

MIOG40000015381

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081073960000		
Operator no:	769		
Operator Name:	ERBIN OIL AND GAS CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7396		
Lease name:	MICHELL PLAT		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1920	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	NE
Wh q:	NE		
Wh lat:	42.89788		
Wh long:	-85.68852		
Wh georef :	525301.04		
Wh georef1:	260822.44		
Bh georef :	525301.04		
Bh georef1:	260822.44		
Bh sourcel:	C		
Bh lat:	42.89788		
Bh long:	-85.68852		
Site id:	MIOG40000015381		

**10
SW
1/2 - 1 Mile**

OIL_GAS

MIOG40000015316

Api wellno:	21081068390000		
Operator no:	818		
Operator Name:	FISHER MCCALL OIL AND GAS INC AND SACKNER W E		
Operator Status:	Past claim against co bond		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6839		
Lease name:	PRATT, EVA		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1909	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SE	Wh qq:	SE
Wh q:	NE		
Wh lat:	42.89243		
Wh long:	-85.68602		
Wh georef :	525507.62		
Wh georef1:	260218.43		
Bh georef :	525507.62		
Bh georef1:	260218.43		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.89243
 Bh long: -85.68602
 Site id: MIOG40000015316

11
West
1/2 - 1 Mile

OIL_GAS MIOG40000015398

Api wellno:	21081072700000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7270		
Lease name:	HOP		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1907	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	SW	Wh qq:	SE
Wh q:	SE		
Wh lat:	42.89965		
Wh long:	-85.68876		
Wh georef :	525280.81		
Wh georef1:	261019.09		
Bh georef :	525280.81		
Bh georef1:	261019.09		
Bh sourcel:	C		
Bh lat:	42.89965		
Bh long:	-85.68876		
Site id:	MIOG40000015398		

12
WNW
1/2 - 1 Mile

OIL_GAS MIOG40000015422

Api wellno:	21081071670000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7167		
Lease name:	PLAT, G. M.		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	1910	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	SE
Wh q:	SE		
Wh lat:	42.9014		
Wh long:	-85.68876		
Wh georef :	525280.15		
Wh georef1:	261213.26		
Bh georef :	525280.15		
Bh georef1:	261213.26		
Bh sourcel:	C		
Bh lat:	42.9014		
Bh long:	-85.68876		
Site id:	MIOG40000015422		

13
WNW
1/2 - 1 Mile

OIL_GAS

MIOG40000015460

Api wellno:	21081075860000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7586		
Lease name:	PORTER, WILMA		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	1910	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	NE
Wh q:	SE		
Wh lat:	42.90458		
Wh long:	-85.68797		
Wh georef :	525342.82		
Wh georef1:	261567.1		
Bh georef :	525342.82		
Bh georef1:	261567.1		
Bh sourcel:	C		
Bh lat:	42.90458		
Bh long:	-85.68797		
Site id:	MIOG40000015460		

14
West
1/2 - 1 Mile

OIL_GAS

MIOG40000015364

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081068400000		
Operator no:	818		
Operator Name:	FISHER MCCALL OIL AND GAS INC AND SACKNER W E		
Operator Status:	Past claim against co bond		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6840		
Lease name:	KLAVER, JOHN		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	1916	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	E2	Wh qq:	NW
Wh q:	NE		
Wh lat:	42.89702		
Wh long:	-85.6905		
Wh georef :	525139.57		
Wh georef1:	260726.84		
Bh georef :	525139.57		
Bh georef1:	260726.84		
Bh sourcel:	C		
Bh lat:	42.89702		
Bh long:	-85.6905		
Site id:	MIOG40000015364		

15
West
1/2 - 1 Mile

OIL_GAS

MIOG40000015409

Api wellno:	21081071580000		
Operator no:	1643		
Operator Name:	MICHIGAN DEVONIAN PETROLEUM CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7158		
Lease name:	JANSMA, SIDNEY ET AL COMM.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1918	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SE	Wh qq:	SW
Wh q:	SE		
Wh lat:	42.90065		
Wh long:	-85.69063		
Wh georef :	525127.27		
Wh georef1:	261129.21		
Bh georef :	525127.27		
Bh georef1:	261129.21		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.90065
 Bh long: -85.69063
 Site id: MIOG40000015409

16
NW
1/2 - 1 Mile

OIL_GAS

MIOG40000015472

Api wellno:	21081069080000		
Operator no:	613		
Operator Name:	CROWN DEVELOPMENT CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6908		
Lease name:	ROGERS, E M EST		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1894	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	S2	Wh qq:	SE
Wh q:	NE		
Wh lat:	42.90653		
Wh long:	-85.68782		
Wh georef :	525354.8		
Wh georef1:	261783.44		
Bh georef :	525354.8		
Bh georef1:	261783.44		
Bh sourcel:	C		
Bh lat:	42.90653		
Bh long:	-85.68782		
Site id:	MIOG40000015472		

17
SW
1/2 - 1 Mile

OIL_GAS

MIOG40000015295

Api wellno:	21081070730000		
Operator no:	2668		
Operator Name:	WELSH OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7073		
Lease name:	GUARANTEE BOND AND MORTGAGE CO.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1890	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	NE
Wh q:	SE		
Wh lat:	42.89064		
Wh long:	-85.68842		
Wh georef :	525312.8		
Wh georef1:	260018.15		
Bh georef :	525312.8		
Bh georef1:	260018.15		
Bh sourcel:	C		
Bh lat:	42.89064		
Bh long:	-85.68842		
Site id:	MIOG40000015295		

18
West
1/2 - 1 Mile

OIL_GAS MIOG40000015378

Api wellno:	21081069720000		
Operator no:	4041		
Operator Name:	SWANSON CONSOLIDATED OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	GRAND RAPIDS	Operator State:	MI
Permit no:	6972		
Lease name:	COLLINS, H FRED		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1924	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NE	Wh qq:	NW
Wh q:	NE		
Wh lat:	42.89781		
Wh long:	-85.69221		
Wh georef :	525000.22		
Wh georef1:	260814.05		
Bh georef :	525000.22		
Bh georef1:	260814.05		
Bh sourcel:	C		
Bh lat:	42.89781		
Bh long:	-85.69221		
Site id:	MIOG40000015378		

19
West
1/2 - 1 Mile

OIL_GAS MIOG40000015353

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081070920000		
Operator no:	3455		
Operator Name:	CHRISTIAN OIL CO		
Operator Status:	Active-		
Operator City:	ALLEGAN	Operator State:	MI
Permit no:	7092		
Lease name:	COLLINS		
Well no:	2		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1903	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SE	Wh qq:	NW
Wh q:	NE		
Wh lat:	42.8961		
Wh long:	-85.6921		
Wh georef :	525009.9		
Wh georef1:	260624.14		
Bh georef :	525009.9		
Bh georef1:	260624.14		
Bh sourcel:	C		
Bh lat:	42.8961		
Bh long:	-85.6921		
Site id:	MIOG40000015353		

**20
NNW
1 - 2 Miles**

OIL_GAS

MIOG40000015514

Api wellno:	21081071080000		
Operator no:	613		
Operator Name:	CROWN DEVELOPMENT CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7108		
Lease name:	HERPOLSHEIMER, W. ESTATE		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	1892	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	13
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	W2	Wh qq:	NW
Wh q:	NW		
Wh lat:	42.91148		
Wh long:	-85.68433		
Wh georef :	525637.4		
Wh georef1:	262334.07		
Bh georef :	525637.4		
Bh georef1:	262334.07		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.91148
 Bh long: -85.68433
 Site id: MIOG40000015514

21
WNW
1 - 2 Miles

OIL_GAS MIOG40000015446

Api wellno:	21081063180000		
Operator no:	4041		
Operator Name:	SWANSON CONSOLIDATED OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	GRAND RAPIDS	Operator State:	MI
Permit no:	6318		
Lease name:	DECKER & JEAN		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1918	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	NW
Wh q:	SE		
Wh lat:	42.90325		
Wh long:	-85.69305		
Wh georef :	524928.58		
Wh georef1:	261417.15		
Bh georef :	524928.58		
Bh georef1:	261417.15		
Bh sourcel:	C		
Bh lat:	42.90325		
Bh long:	-85.69305		
Site id:	MIOG40000015446		

22
WSW
1 - 2 Miles

OIL_GAS MIOG40000015296

Api wellno:	21081069070000		
Operator no:	613		
Operator Name:	CROWN DEVELOPMENT CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6907		
Lease name:	LAND ASSOCIATION		
Well no:	3		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1900	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qqq:	NE	Wh qq:	NW
Wh q:	SE		
Wh lat:	42.89065		
Wh long:	-85.69091		
Wh georef :	525109.44		
Wh georef1:	260019.07		
Bh georef :	525109.44		
Bh georef1:	260019.07		
Bh sourcel:	C		
Bh lat:	42.89065		
Bh long:	-85.69091		
Site id:	MIOG40000015296		

23
West
1 - 2 Miles

OIL_GAS MIOG40000015365

Api wellno:	21081072580000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7258		
Lease name:	THOMASMA, HARRY		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1925	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqq:	W2	Wh qq:	NW
Wh q:	NE		
Wh lat:	42.89703		
Wh long:	-85.69405		
Wh georef :	524850.02		
Wh georef1:	260726.34		
Bh georef :	524850.02		
Bh georef1:	260726.34		
Bh sourcel:	C		
Bh lat:	42.89703		
Bh long:	-85.69405		
Site id:	MIOG40000015365		

24
NW
1 - 2 Miles

OIL_GAS MIOG40000015500

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081118690000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	11869		
Lease name:	ROGERS, E. M. EST.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1938	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	SE
Wh q:	NE		
Wh lat:	42.9088		
Wh long:	-85.68914		
Wh georef :	525245.45		
Wh georef1:	262035.47		
Bh georef :	525245.45		
Bh georef1:	262035.47		
Bh sourcel:	C		
Bh lat:	42.9088		
Bh long:	-85.68914		
Site id:	MIOG40000015500		

25
West
1 - 2 Miles

OIL_GAS

MIOG40000015410

Api wellno:	21081075040000		
Operator no:	190		
Operator Name:	ATHA JOHN R		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7504		
Lease name:	JELSMA, BERT		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1904	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	SW
Wh q:	SE		
Wh lat:	42.90066		
Wh long:	-85.69433		
Wh georef :	524825.49		
Wh georef1:	261129.96		
Bh georef :	524825.49		
Bh georef1:	261129.96		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.90066
 Bh long: -85.69433
 Site id: MIOG40000015410

26
SW
1 - 2 Miles

OIL_GAS MIOG40000015251

Api wellno:	21081070140000		
Operator no:	2711		
Operator Name:	WHITNEY AL AND FOLSOM JOHN P		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7014		
Lease name:	KING, MARGRET A. & ARTHUR L.		
Well no:	1		
Deepest fmt:	Not Reported	Obj fmtn:	Not Reported
Drillerstd:	0	Truetd:	0
County:	KENT	Slant:	V
Well type:	Location only	Well status:	Terminated Permit
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	NE	Wh qq:	SE
Wh q:	SE		
Wh lat:	42.88628		
Wh long:	-85.68661		
Wh georef :	525462.22		
Wh georef1:	259534.56		
Bh georef :	525462.22		
Bh georef1:	259534.56		
Bh sourcel:	C		
Bh lat:	42.88628		
Bh long:	-85.68661		
Site id:	MIOG40000015251		

27
SSW
1 - 2 Miles

OIL_GAS MIOG40000015228

Api wellno:	21081070440000		
Operator no:	1764		
Operator Name:	MUSKEGON OIL CORP		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7044		
Lease name:	GRAND RAPIDS INDUSTRIAL LAND ASSOCIATION		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1929	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	25
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	NE
Wh q:	NW		
Wh lat:	42.88326		
Wh long:	-85.67827		
Wh georef :	526144.57		
Wh georef1:	259202.97		
Bh georef :	526144.57		
Bh georef1:	259202.97		
Bh sourcel:	C		
Bh lat:	42.88326		
Bh long:	-85.67827		
Site id:	MIOG40000015228		

28
WNW
1 - 2 Miles

OIL_GAS MIOG40000015467

Api wellno:	21081075100000		
Operator no:	1221		
Operator Name:	JOHNSON CONRAD S		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7510		
Lease name:	BLASS ET AL COMM.		
Well no:	1		
Deepest fmt:	GCDF	Obj fmtn:	Not Reported
Drillerstd:	95	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NW	Wh qq:	NW
Wh q:	SE		
Wh lat:	42.90521		
Wh long:	-85.69389		
Wh georef :	524859.28		
Wh georef1:	261635.14		
Bh georef :	524859.28		
Bh georef1:	261635.14		
Bh sourcel:	C		
Bh lat:	42.90521		
Bh long:	-85.69389		
Site id:	MIOG40000015467		

29
North
1 - 2 Miles

OIL_GAS MIOG40000015540

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081072740000		
Operator no:	2668		
Operator Name:	WELSH OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7274		
Lease name:	PECK, L. T.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1908	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	12
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	NE	Wh qq:	SW
Wh q:	SE		
Wh lat:	42.9158		
Wh long:	-85.67219		
Wh georef :	526625.74		
Wh georef1:	262818.05		
Bh georef :	526625.74		
Bh georef1:	262818.05		
Bh sourcel:	C		
Bh lat:	42.9158		
Bh long:	-85.67219		
Site id:	MIOG40000015540		

30
WNW
1 - 2 Miles

OIL_GAS

MIOG40000015479

Api wellno:	21081076380000		
Operator no:	956		
Operator Name:	GORDON OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7638		
Lease name:	ROGERS, LEWIS C.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1974	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	SW
Wh q:	NE		
Wh lat:	42.90702		
Wh long:	-85.69396		
Wh georef :	524852.71		
Wh georef1:	261836.34		
Bh georef :	524852.71		
Bh georef1:	261836.34		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.90702
 Bh long: -85.69396
 Site id: MIOG40000015479

31
WNW
1 - 2 Miles

OIL_GAS MIOG40000015480

Api wellno:	21081074030000		
Operator no:	2608		
Operator Name:	VOORHEES DRILLING CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7403		
Lease name:	WHALEN, KRYON J.		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1904	Truetd:	0
County:	KENT	Slant:	V
Well type:	Oil	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	SE	Wh qq:	SE
Wh q:	NW		
Wh lat:	42.90704		
Wh long:	-85.69643		
Wh georef :	524651.5		
Wh georef1:	261837.39		
Bh georef :	524651.5		
Bh georef1:	261837.39		
Bh sourcel:	C		
Bh lat:	42.90704		
Bh long:	-85.69643		
Site id:	MIOG40000015480		

32
East
1 - 2 Miles

OIL_GAS MIOG40000015373

Api wellno:	21081001540000		
Operator no:	1663		
Operator Name:	MID CONTINENT DEVELOPMENT CO INC		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	154		
Lease name:	EARLEY, G.		
Well no:	1		
Deepest fmt:	Not Reported	Obj fmtn:	Not Reported
Drillerstd:	2467	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	19
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	11	Wh rngd:	W
Wh qq:	NE	Wh qq:	NE
Wh q:	NE		
Wh lat:	42.89746		
Wh long:	-85.64669		
Wh georef :	528716.36		
Wh georef1:	260790.69		
Bh georef :	528716.36		
Bh georef1:	260790.69		
Bh sourcel:	C		
Bh lat:	42.89746		
Bh long:	-85.64669		
Site id:	MIOG40000015373		

33
SW
1 - 2 Miles

OIL_GAS MIOG40000015241

Api wellno:	21081063280000		
Operator no:	865		
Operator Name:	FORTNEY OIL CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	6328		
Lease name:	GRAND RAPIDS INDUSTRIAL LAND ASSOCIATION		
Well no:	1		
Deepest fmt:	DRRV	Obj fmtn:	Not Reported
Drillerstd:	2211	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	SW
Wh q:	SE		
Wh lat:	42.8852		
Wh long:	-85.69319		
Wh georef :	524925.54		
Wh georef1:	259413.11		
Bh georef :	524925.54		
Bh georef1:	259413.11		
Bh sourcel:	C		
Bh lat:	42.8852		
Bh long:	-85.69319		
Site id:	MIOG40000015241		

34
WNW
1 - 2 Miles

OIL_GAS MIOG40000015481

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21081078690000		
Operator no:	2464		
Operator Name:	TEMPLE AND LINIGER		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7869		
Lease name:	WHALEN		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1914	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SW	Wh qq:	SE
Wh q:	NW		
Wh lat:	42.90706		
Wh long:	-85.69889		
Wh georef :	524450.3		
Wh georef1:	261838.43		
Bh georef :	524450.3		
Bh georef1:	261838.43		
Bh sourcel:	C		
Bh lat:	42.90706		
Bh long:	-85.69889		
Site id:	MIOG40000015481		

**35
NW
1 - 2 Miles**

OIL_GAS

MIOG40000015511

Api wellno:	21081059610000		
Operator no:	882		
Operator Name:	FREELAND AND ROGERS TRUSTEE		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	5961		
Lease name:	WHALEN		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	2255	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qq:	SE	Wh qq:	NE
Wh q:	NW		
Wh lat:	42.91069		
Wh long:	-85.69657		
Wh georef :	524638.27		
Wh georef1:	262242.59		
Bh georef :	524638.27		
Bh georef1:	262242.59		
Bh sourcel:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.91069
 Bh long: -85.69657
 Site id: MIOG40000015511

36
WSW
1 - 2 Miles

OIL_GAS MIOG40000015317

Api wellno:	21081070060000		
Operator no:	2608		
Operator Name:	VOORHEES DRILLING CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7006		
Lease name:	GLEASON, W.		
Well no:	1		
Deepest fmt:	TRVR	Obj fmtn:	Not Reported
Drillerstd:	2102	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	23
Wh twpn:	6	Wh twpd:	N
Wh rngn:	12	Wh rngd:	W
Wh qqg:	SE	Wh qq:	SW
Wh q:	NW		
Wh lat:	42.89284		
Wh long:	-85.70085		
Wh georef :	524296.51		
Wh georef1:	260258.97		
Bh georef :	524296.51		
Bh georef1:	260258.97		
Bh sourcel:	C		
Bh lat:	42.89284		
Bh long:	-85.70085		
Site id:	MIOG40000015317		

37
WNW
1 - 2 Miles

OIL_GAS MIOG40000015447

Api wellno:	21081071620000		
Operator no:	553		
Operator Name:	COLUMBIA OIL AND GAS CO		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	7162		
Lease name:	KROMER, HENRY		
Well no:	1		
Deepest fmt:	TRVR4	Obj fmtn:	Not Reported
Drillerstd:	1893	Truetd:	0
County:	KENT	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	14
Wh twpn:	6	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	12	Wh rngd:	W
Wh qq:	SE	Wh qq:	NW
Wh q:	SW		
Wh lat:	42.90345		
Wh long:	-85.7016		
Wh georef :	524230.51		
Wh georef1:	261437.23		
Bh georef :	524230.51		
Bh georef1:	261437.23		
Bh sourcel:	C		
Bh lat:	42.90345		
Bh long:	-85.7016		
Site id:	MIOG40000015447		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KENT 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 KENT COUNTY, MI

Number of sites tested: 72

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.797 pCi/L	93%	7%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

STREET AND ADDRESS INFORMATION

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300 36TH STREET
300 36TH STREET
GRAND RAPIDS, MI

Inquiry Number:
April 27, 2010

EDR Site Report™

TABLE OF CONTENTS

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Section 2: Facility Detail Reports Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. Page 7

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 300 36TH STREET 300 36TH STREET GRAND RAPIDS, MI EDR ID #2006795380
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	YES - p4
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported emergency releases to the soil

DATABASE: Emergency Response Notification System (ERNS)

300 36TH STREET
300 36TH STREET
GRAND RAPIDS, MI
EDR ID #2006795380

ERNS:

Site ID:	2006795380
Incident cause:	UNKNOWN
Incident desc:	THE MONITORING SYSTEM CONNECTED TO A LEVEL SENSOR ON A 3000 GALLON STORAGE TANK HAS GONE OFF. THERE IS CURRENTLY A POTENTIAL FOR A RELEASE OF GASOLINE ONTO THE SOIL. THE REPORTING PARTY SUSPECTS THAT THE LEVEL SENSOR IS FAULTY. AN INVESTIGATION IS UNDERW
Incident type:	STORAGE TANK
Incident date:	04/27/06
Incident TG:	OCCURRED
Inc location:	Not reported
Incident address:	300 36TH STREET GRAND RAPIDS, MI
Distance from city:	Not reported
Lat/Long:	0/0
Lat/Long quad:	/
Incident date:	04/27/06
Township/section/range://	
WMD flag:	Not reported
Bio flag:	Not reported
Oil flag:	Not reported
Potential:	Not reported
Amt material flag:	Not reported
Military:	Not reported
LNG flag:	Not reported
Fire involved:	No
Fire extinguished:	Unknown
Any evacuees:	No
Number of evacs:	Not reported
Who evacuated:	Not reported
Radius of evacuation:	Not reported
Any injuries:	No
Number injured:	Not reported
Number hospitalized:	Not reported
Any fatalities:	No
Any damage:	No
Damage amount:	Not reported
Air corridor desc:	Not reported
Air corridor closed:	Not reported
Water description:	Not reported
Water closed:	No
Water closed time:	Not reported
Road closed:	No
Road closed desc:	Not reported
Road closed time:	Not reported
Closure direction:	Not reported
Major artery:	No
Track closed:	Not reported
Track closed time:	Not reported
Tr. close direction:	N
Track description:	Not reported
Media interest:	NONE
Medium affected:	OTHER
Additional medium:	POTENTIAL SOIL RELEASE
Body of water:	Not reported
Tributary:	Not reported
Near river:	Not reported
Release secured:	Unknown
Est. duration of rel.:	Not reported
Release rate:	Not reported
Rel. rate units:	Not reported
Rel. per units:	Not reported
Remedial action:	INVESTIGATION UNDERWAY
Agency on scene:	Not reported
Other agency:	Not reported
State agency notified:	Not reported
State report #:	Not reported
Fed. agency notified:	Not reported
Structure name:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Structure type:	Not reported
Struct. operator:	Not reported
Weather:	CLEAR
Air temp:	Not reported
Wind speed:	Not reported
Wind speed unit:	Not reported
Wind direction:	Not reported
Water contaminated:	Unknown
Sheen size:	Not reported
Sheen size units:	Not reported
Sheen color:	Not reported
Sheen odor:	Not reported
Sheen length:	Not reported
Sheen len. units:	Not reported
Sheen width:	Not reported
Sheen wid. units:	Not reported
Wave condit:	Not reported
Current speed:	Not reported
Current speed units:	Not reported
Current direction:	Not reported
Water temp:	Not reported
Allision:	Not reported
Employees injured:	Not reported
Employee fatalities:	Not reported
Passengers injured:	Not reported
Passenger fatalities:	Not reported
Occupant fatalities:	Not reported
Community impact:	No
Offshore:	Not reported
Addition info:	NONE
Aircraft type:	Not reported
Aircraft model:	Not reported
Aircraft ID:	Not reported
Aircraft fuel cap:	Not reported
Capacity units:	Not reported
Fuel onboard:	Not reported
Fuel units:	Not reported
Spot number:	Not reported
AC hanger:	Not reported
AC runway:	Not reported
Mile marker:	Not reported
Building ID:	Not reported
Type fixed obj:	Not reported
Power gen facility:	Unknown
Generation capacity:	Not reported
Fuel type:	Not reported
NPDES:	Not reported
NPDES compliance:	Unknown
Pipe type:	Not reported
DOT regulated:	Unknown
Pipe above:	ABOVE
Exposed underwtr:	No
Pipe covered:	Unknown
Grade crossing:	No
Location subdivision:	Not reported
Railroad milepost:	Not reported
Vehicle type:	Not reported
Crossing device:	Not reported
Device operational:	Yes
DOT crossing #:	Not reported
Brakes failed:	No
Tank description:	GASOLINE STORAGE TANK
Above ground tank:	ABOVE
Tank regulated:	Unknown
Tank ID:	Not reported
Tank regulated by:	Not reported
Tank capacity:	3000
Capacity units:	GALLON(S)
Actual amount:	Not reported
Amount units:	Not reported
Transportable container:	Unknown
Platform rig name:	Not reported
Platform letter:	Not reported
Local area ID:	Not reported
Local block ID:	Not reported
OCSG number:	Not reported
State lease #:	Not reported
Pier dock #:	Not reported
Berth slip #:	Not reported
Initial continuous rel #:	Not reported
Cont. rel permit:	Not reported
Allision:	No
Structure type:	Not reported
Structure:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Structure operator: U
Air bag deployed: Not reported
Date time normal srv: Not reported
Service disruption time: Not reported
Transit bus flag: Not reported
Begin date: Not reported
End date: Not reported
Change date: Not reported

Call received date: 04/27/06
Complete date: 04/27/06
Call Type: INC
Responsible company: GENERAL MOTORS
RC organization type: STATE GOVERNMENT
GRAND RAPIDS, MI

Initial caller: Not reported
Initial caller tel: Not reported
Initially reported comp.: Not reported
On behalf: Not reported
Source: TELEPHONE

SECTION 3: DATABASES AND UPDATE DATES

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

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

DATABASES FOUND IN THIS REPORT

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

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

Date of Government Version: 12/31/2009

Database Release Frequency: Annually

Date of Last EDR Contact: 04/07/2010

Date of Next Scheduled Update: 07/19/2010

300 36TH STREET
300 36TH STREET
GRAND RAPIDS, MI

Inquiry Number:
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EDR Site Report™

TABLE OF CONTENTS

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Name, source, update dates, contact phone number and description of each of the databases for this report.

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 300 36TH STREET 300 36TH STREET GRAND RAPIDS, MI EDR ID #2003635949
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	YES - p4
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in a county/local unique database (LOCAL)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported emergency releases to the soil

DATABASE: Emergency Response Notification System (ERNS)

300 36TH STREET
300 36TH STREET
GRAND RAPIDS, MI
EDR ID #2003635949

ERNS:

Site ID:	2003635949
Incident cause:	OTHER
Incident desc:	MATERIALS RELEASED FROM A DRAINAGE DITCH DUE TO WEATHER CONDITIONS.
Incident type:	FIXED
Incident date:	20030203
Incident TG:	OCCURRED
Inc location:	Not reported
Incident address:	300 36TH STREET GRAND RAPIDS, MI
Distance from city:	Not reported
Lat/Long:	0/0
Lat/Long quad:	/
Incident date:	02/03/2003
Township/section/range://	
WMD flag:	Not reported
Rad flag:	Not reported
Bio flag:	Not reported
Amt material flag:	Not reported
Military:	Not reported
LNG flag:	Not reported
Fire involved:	No
Fire extinguished:	Unknown
Any evacuees:	No
Number of evacs:	Not reported
Who evacuated:	Not reported
Radius of evacuation:	Not reported
Any injuries:	No
Number injured:	Not reported
Number hospitalized:	Not reported
Any fatalities:	No
Any damage:	No
Damage amount:	Not reported
Air corridor desc:	Not reported
Air corridor closed:	Not reported
Water description:	Not reported
Water closed:	No
Water closed time:	Not reported
Road closed:	No
Road closed desc:	Not reported
Road closed time:	Not reported
Closure direction:	Not reported
Major artery:	No
Track closed:	No
Track closed time:	Not reported
Tr. close direction:	Not reported
Track description:	Not reported
Media interest:	NONE
Medium affected:	WATER
Additional medium:	DRAINAGE DITCH
Body of water:	DRAINAGE DITCH
Tributary:	PLASTER CREEK
Near river:	Not reported
Release secured:	Yes
Est. duration of rel.:	Not reported
Release rate:	Not reported
Rel. rate units:	Not reported
Rel. per units:	Not reported
Remedial action:	BOOMS APPLIED.
Agency on scene:	Not reported
Other agency:	Not reported
State agency notified:	Not reported
Fed. agency notified:	Not reported
Structure name:	Not reported
Structure type:	Not reported
Struct. operator:	Not reported
Weather:	RAINY
Air temp:	0
Wind speed:	0

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Wind speed unit: Not reported
Wind direction: Not reported
Water contaminated: No
Sheen size: Not reported
Sheen size units: Not reported
Sheen color: RAINBOW
Sheen direction: Not reported
Sheen odor: Not reported
Sheen length: 20
Sheen len. units: FEET
Sheen width: 4
Sheen wid. units: FEET
Wave condit: Not reported
Current speed: 0
Current speed units: Not reported
Current direction: Not reported
Water temp: Not reported
Allision: Not reported
Employees injured: Not reported
Employee fatalities: Not reported
Passengers injured: Not reported
Passenger fatalities: Not reported
Occupant fatalities: Not reported
Community impact: No
Offshore: No
Addition info: NO ADDITIONAL INFORMATION.

Aircraft type: Not reported
Aircraft model: Not reported
Aircraft ID: Not reported
Aircraft fuel cap: Not reported
Capacity units: Not reported
Fuel onboard: Not reported
Fuel units: Not reported
Spot number: Not reported
AC hanger: Not reported
AC runway: Not reported
Mile marker: Not reported
Building ID: Not reported
Type fixed obj: OTHER
Power gen facility: No
Generation capacity: Not reported
Fuel type: Not reported
NPDES: Not reported
NPDES compliance: Unknown
Pipe type: Not reported
DOT regulated: Unknown
Pipe above: ABOVE
Exposed underwtr: No
Pipe covered: Unknown
Railroad hotline: Not reported
Grade crossing: No
Location subdivision: Not reported
Railroad milepost: Not reported
Vehicle type: Not reported
Crossing device: Not reported
Device operational: Yes
DOT crossing #: Not reported
Brakes failed: No
Tank description: Not reported
Above ground tank: ABOVE
Tank regulated: Unknown
Tank ID: Not reported
Tank regulated by: Not reported
Tank capacity: Not reported
Capacity units: Not reported
Actual amount: Not reported
Amount units: Not reported
Transportable container: Unknown
Platform rig name: Not reported
Platform letter: Not reported
Local area ID: Not reported
Local block ID: 0
OCSG number: 0
State lease #: Not reported
Pier dock #: Not reported
Berth slip #: Not reported
Initial continuous rel #: Not reported
Cont. rel permit: Not reported
Allision: No
Structure type: Not reported
Structure: Not reported
Structure operator: U
Air bag deployed: Not reported
Date time normal srvc: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Service disruption time: Not reported
Transit bus flag: Not reported
Begin date: Not reported
End date: Not reported
Change date: Not reported

Call received date: 20030204
Complete date: 20030204
Call Taker: DXD8325
Call Type: INC
Responsible Party: BRIDGET LENNON
RP telephone: 6162462992
RP tel type: PRIMARY
RP telephone: 0
RP tel type: Not reported
Responsible company: GENERAL MOTORS
RC organization type: STATE GOVERNMENT
PR address: 300 36TH STREET
GRAND RAPIDS, MI
Initial caller: Not reported
Initial caller tel: Not reported
Initially reported comp.: Not reported
On behalf: Not reported
Source: TELEPHONE

Spilled material name: UNKNOWN OIL
Material CHRIS code: OUN
Mat. CAS number: 000000-00-0
Material UN #: Not reported
Amount of spilled mat.: 2
Mat. amount unit: GALLON(S)
Mat. reached water: YES
Amount in water: 2
Amount in water units: GALLON(S)

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

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

DATABASES FOUND IN THIS REPORT

ERNS: Emergency Response Notification System

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

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

Date of Government Version: 12/31/2009
Database Release Frequency: Annually

Date of Last EDR Contact: 04/07/2010
Date of Next Scheduled Update: 07/19/2010

GENERAL MOTORS CORPORATION

300 36TH ST SW

GRAND RAPIDS, MI 49548

Inquiry Number:

April 27, 2010

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TABLE OF CONTENTS

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SECTION 1: FACILITY SUMMARY

FACILITY	FACILITY 1 GENERAL MOTORS CORPORATION 300 36TH ST SW GRAND RAPIDS, MI 49548 EDR ID #1000116146 EPA #MID006020408
AREA	
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	YES - p4
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSD)	NO
Facility has received Notices of Violations (RCRA/VIOL)	YES - p7
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	YES - p8
Facility uses radioactive materials (MLTS)	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (CERCLIS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	YES - p9
Facility is listed in a county/local unique database (LOCAL)	YES - p11
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	5

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility generates hazardous waste

DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

GENERAL MOTORS CORPORATION
300 36TH ST SW
GRAND RAPIDS, MI 49548
EDR ID #1000116146

RCRA-SQG:

Date form received by agency: 05/04/2008
Facility name: GENERAL MOTORS CORPORATION
Facility address: 300 36TH ST SW
GRAND RAPIDS, MI 49548
EPA ID: MID006020408
Contact: SCOTT MURTO
Contact address: 300 36TH ST SW
GRAND RAPIDS, MI 49548
Contact country: Not reported
Contact telephone: (616) 246-2992
Contact email: Not reported
EPA Region: 05
Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: GENERAL MOTORS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/15/1935
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 12/15/1935
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No
Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:

Date form received by agency: 04/04/2006
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 03/01/2006
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 02/01/2005
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 01/01/2005
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 02/19/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 02/01/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 01/01/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 11/10/2003
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 03/01/2002
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC GRAND RAPIDS METAL PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/29/2000
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC GRAND RAPIDS METAL PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/20/1998
Facility name: GENERAL MOTORS CORPORATION
Site name: GM MFD GRAND RAPIDS METAL PLANT
Classification: Large Quantity Generator

Date form received by agency: 02/27/1996
Facility name: GENERAL MOTORS CORPORATION
Site name: GM MFD GRAND RAPIDS METAL PLANT
Classification: Large Quantity Generator

Date form received by agency: 08/23/1995
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Date form received by agency: 11/19/1980
Facility name: GENERAL MOTORS CORPORATION
Classification: Not a generator, verified

Date form received by agency: 08/15/1980
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/19/1994
Date achieved compliance: 06/13/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/25/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 11/25/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 12/01/1999
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/17/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/19/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/13/1994
Evaluation lead agency: State

Evaluation date: 11/08/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility Has Received Notices of Violations

DATABASE: Resource Conservation and Recovery Information (RCRAInfo)

GENERAL MOTORS CORPORATION
300 36TH ST SW
GRAND RAPIDS, MI 49548
EDR ID #1000116146

Regulation Violated:	Not reported
Area of Violation:	Generators - General
Date Violation Determined:	05/19/1994
Actual Date Achieved Compliance:	06/13/1994
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	05/25/1994

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

WASTE MANAGEMENT

Facility handles PCBs

DATABASE: PCB Activity Database System (PADS)

GENERAL MOTORS CORPORATION
300 36TH ST SW
GRAND RAPIDS, MI 49548
EDR ID #1000116146

PADS:

EPAID:	MID006020408
Facility name:	GMC CPC GRAND RAPIDS METAL PLT
Facility Address:	300 36TH ST SW GRAND RAPIDS, MI 49548
Facility country:	US
Generator:	Yes
Storer:	No
Transporter:	No
Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	GENERAL MOTORS
Contact title:	Not reported
Contact name:	PARCELL B
Contact tel:	(616)246-2870
Contact extension:	Not reported
Mailing address:	300 36TH ST SW GRAND RAPIDS, MI 49548
Mailing country:	US
Cert. title:	Not reported
Cert. name:	Not reported
Cert. date:	3/29/1990
Date received:	6/25/1990

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

GENERAL MOTORS CORPORATION
300 36TH ST SW
GRAND RAPIDS, MI 49548
EDR ID #1000116146

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.

Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID: 110001840615
Facility Name: GENERAL MOTORS CORPORATION
Facility Address: 300 36TH ST SW
GRAND RAPIDS, MI 49548
Facility County: KENT
EPA Region: 05
Fed. Gov. Facility: No
Indian Tribal Land: No
Environmental Interest/Information System

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

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

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

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

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

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

Prg. Sys. ID: 2608100109
Supplemental Interest: Not reported
Facility SIC Codes: 3465
Facility NAICS Codes: 336370

Prg. Sys. ID: NEIMIB1726
Supplemental Interest: Not reported
Facility SIC Codes: 3465
Facility NAICS Codes: 33637

Prg. Sys. ID: MI0043877
Supplemental Interest: Not reported
Facility SIC Codes: 3465
Facility NAICS Codes: Not reported

Prg. Sys. ID: 1443

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Supplemental Interest: Not reported
Facility SIC Codes: 3711
Facility NAICS Codes: Not reported

Prg. Sys. ID: MID006020408
Supplemental Interest: Not reported
Facility SIC Codes: Not reported
Facility NAICS Codes: 33637

Prg. Sys. ID: 49508CPCGR30036
Supplemental Interest: Not reported
Facility SIC Codes: 3465
Facility NAICS Codes: 336370

Alternative name: GENERAL MOTORS CORP
Alternative name: GM GRAND RAPIDS METAL CENTER
Alternative name: GM MFD GRAND RAPIDS METAL CENTER
Alternative name: GM-NAO-GRAND RAPIDS
Alternative name: GMC - CPC GRAND RAPIDS METAL PLANT
Alternative name: GMC GRAND RAPIDS METAL CENTER
Alternative name: GRAND RAPIDS METAL FABRICATION

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

MULTIMEDIA

Facility is listed in a county/local unique database

DATABASE: State/County (LOCAL)

GENERAL MOTORS CORPORATION
300 36TH ST SW
GRAND RAPIDS, MI 49548
EDR ID #1000116146

NY MANIFEST:

EPA ID: MID006020408
Country: USA
Mailing Name: GM-MFD GRAND RAPIDS
Mailing Contact: BRIDGET LENNON
Mailing Address: 300 36TH ST SW
Mailing Address 2: Not reported
Mailing City: GRAND RAPIDS
Mailing State: MI
Mailing Zip: 49548
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 616-246-2750

Document ID: NYB9556866
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 02/26/2003
Trans1 Recv Date: 02/26/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/27/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUC3607OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 05797
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9556875
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 03/26/2003
Trans1 Recv Date: 03/26/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 03/27/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUR4188OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 05561
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9556884
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 04/02/2003
Trans1 Recv Date: 04/02/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/03/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: TML8562OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 06296
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557091
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 12/17/2003
Trans1 Recv Date: 12/17/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 0629753ME
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00041
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557109
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 11/21/2003
Trans1 Recv Date: 11/21/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/24/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: ME0629746
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00090
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557118
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 10/30/2003
Trans1 Recv Date: 10/30/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/03/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: ME0629746
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00056
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557127
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 10/09/2003
Trans1 Recv Date: 10/09/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/14/2003

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 0629746ME
Waste Code: B004 - PCB ARTICLES WITH 50 PPM BUT < 500 PPM
Quantity: 00030
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557136
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 06/13/2003
Trans1 Recv Date: 06/13/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/17/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: 0629746ME
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00135
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557145
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 04/23/2003
Trans1 Recv Date: 04/23/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/24/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUL8814OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 06759
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557154
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 04/09/2003
Trans1 Recv Date: 04/09/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/10/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: OHTML8481
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 04718
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557163
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 04/09/2003
Trans1 Recv Date: 04/09/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/10/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUR4188OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07094
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 03
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Document ID: NYB9557082
Manifest Status: Not reported
Trans1 State ID: ME0629753
Trans2 State ID: Not reported
Generator Ship Date: 02/11/2004
Trans1 Recv Date: 02/11/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 02/16/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: OHD068913409
Trans2 EPA ID: Not reported
TSD ID: NYD049836
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00055
Units: G - Gallons (liquids only)* (8.3 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00090
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 04
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9557073
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/06/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: T117060TN
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B005 - PCB ARTICLES WITH 500 PPM OR > PCB
Quantity: 00090
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: Not reported
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569403
Manifest Status: Not reported
Trans1 State ID: OHD068013409
Trans2 State ID: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Generator Ship Date: 04/16/2002
Trans1 Recv Date: 04/16/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 04/19/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUR4188OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07421
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569421
Manifest Status: Not reported
Trans1 State ID: ALD067138891
Trans2 State ID: Not reported
Generator Ship Date: 06/25/2002
Trans1 Recv Date: 06/25/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/26/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: ITM1040AL
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 09625
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569547
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 12/20/2002
Trans1 Recv Date: 12/20/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUH3235
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 05489
Units: K - Kilograms (2.2 pounds)

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569556
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 11/14/2002
Trans1 Recv Date: 11/14/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/15/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUC3608OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 08419
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569565
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 10/02/2002
Trans1 Recv Date: 10/02/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 10/03/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: PUR4242OH
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 05888
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYB9569574
Manifest Status: Not reported
Trans1 State ID: MIR000014530
Trans2 State ID: Not reported
Generator Ship Date: 08/15/2002
Trans1 Recv Date: 08/15/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/16/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049836679
Trans2 EPA ID: Not reported
TSD ID: SC004
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07484
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

Document ID: NYG2988234
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 01/10/2002
Trans1 Recv Date: 01/10/2002
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/11/2002
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID006020408
Trans1 EPA ID: NYD049253719
Trans2 EPA ID: Not reported
TSD ID: OHD068913
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07711
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 02
Manifest Tracking Num: Not reported
Import Ind: Not reported
Export Ind: Not reported
Discr Quantity Ind: Not reported
Discr Type Ind: Not reported
Discr Residue Ind: Not reported
Discr Partial Reject Ind: Not reported
Discr Full Reject Ind: Not reported
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: Not reported

The NY_MANIFEST database contains 18 additional records for this site.
Please contact your EDR Account Executive for more information.

SECTION 3: DATABASES AND UPDATE DATES

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

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

DATABASES FOUND IN THIS REPORT

RCRA-SQG: RCRA - Small Quantity Generators

Source: Environmental Protection Agency

Telephone: 703-308-0035

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

Date of Government Version: 01/13/2010
Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/16/2010
Date of Next Scheduled Update: 07/19/2010

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-566-0500

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: 09/01/2009
Database Release Frequency: Annually

Date of Last EDR Contact: 04/22/2010
Date of Next Scheduled Update: 08/02/2010

FINDS: Facility Index System/Facility Registry System

Source: EPA

Telephone: Not reported

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: 10/19/2009
Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/15/2010
Date of Next Scheduled Update: 06/28/2010

NY NY MANIFEST: Facility and Manifest Data

Source: Department of Environmental Conservation

Telephone: 518-402-8651

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/04/2010
Database Release Frequency: Annually

Date of Last EDR Contact: 02/11/2010
Date of Next Scheduled Update: 05/24/2010

APPENDIX H
SANBORN FIRE INSURANCE MAPS



17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

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Certified Sanborn Results:

Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
Certification # F53F-488E-91E4



Sanborn® Library search results
Certification # F53F-488E-91E4

Maps Provided:

1950
1953
1966
1985

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- Library of Congress
- University Publications of America
- EDR Private Collection

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Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1985 Source Sheets



Volume 7, Sheet 823

1966 Source Sheets



Volume 7, Sheet 823

1953 Source Sheets



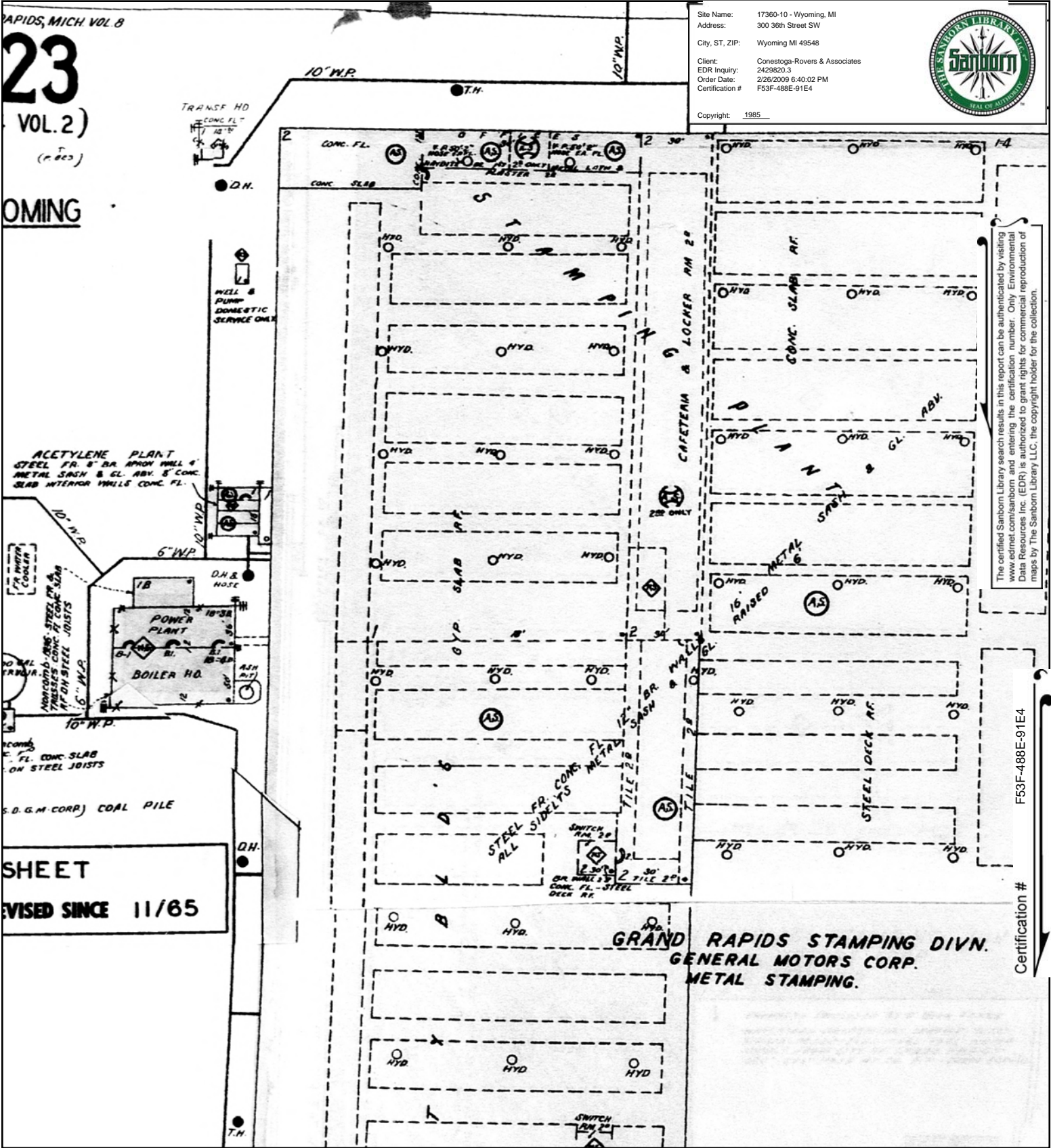
Volume 7, Sheet 823

1950 Source Sheets

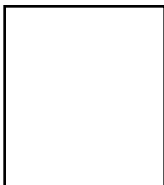
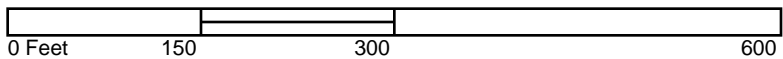


Volume 2, Sheet 244

1985 Certified Sanborn Map



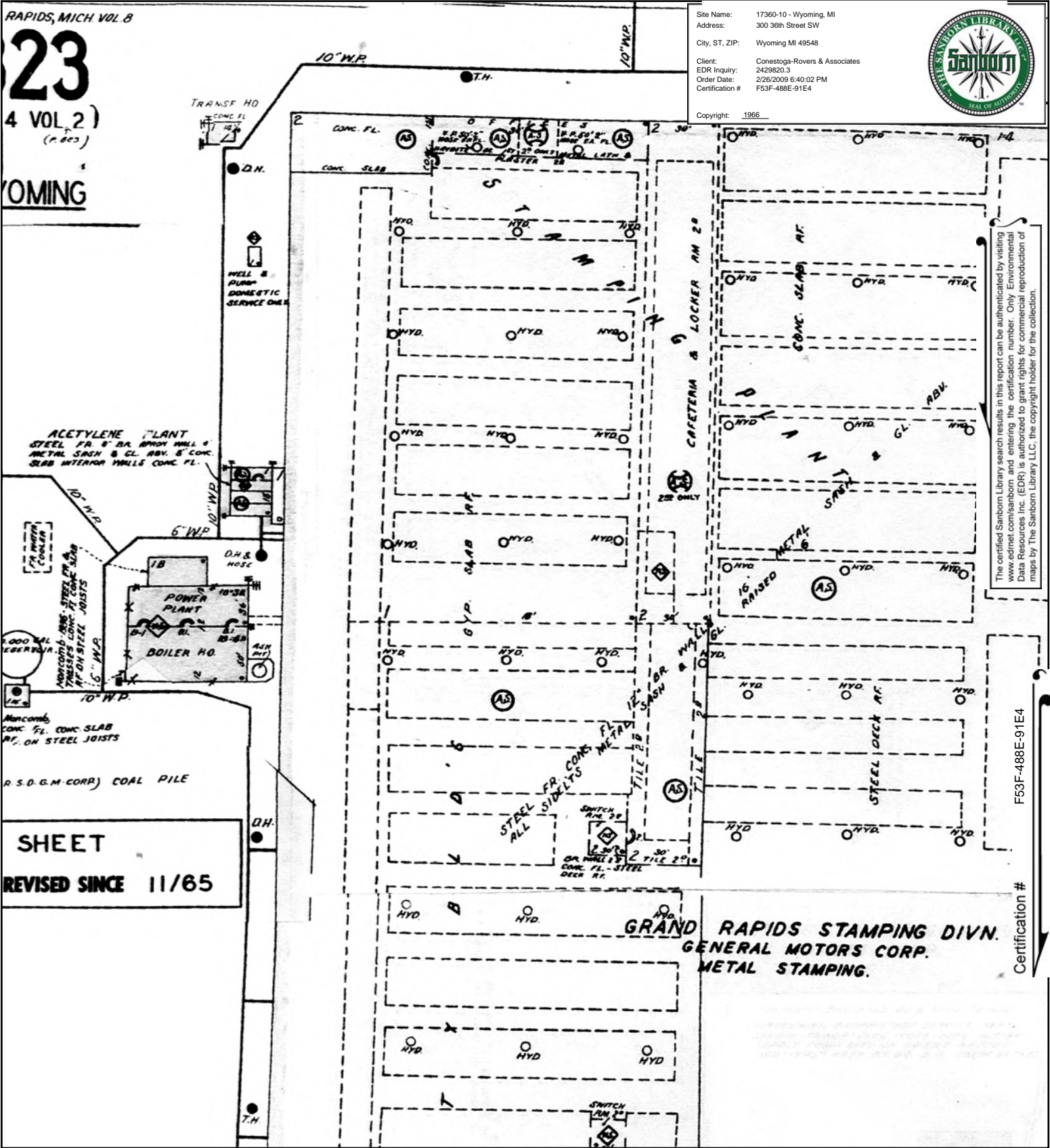
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



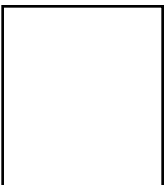
Volume 7, Sheet 823



1966 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 7, Sheet 823



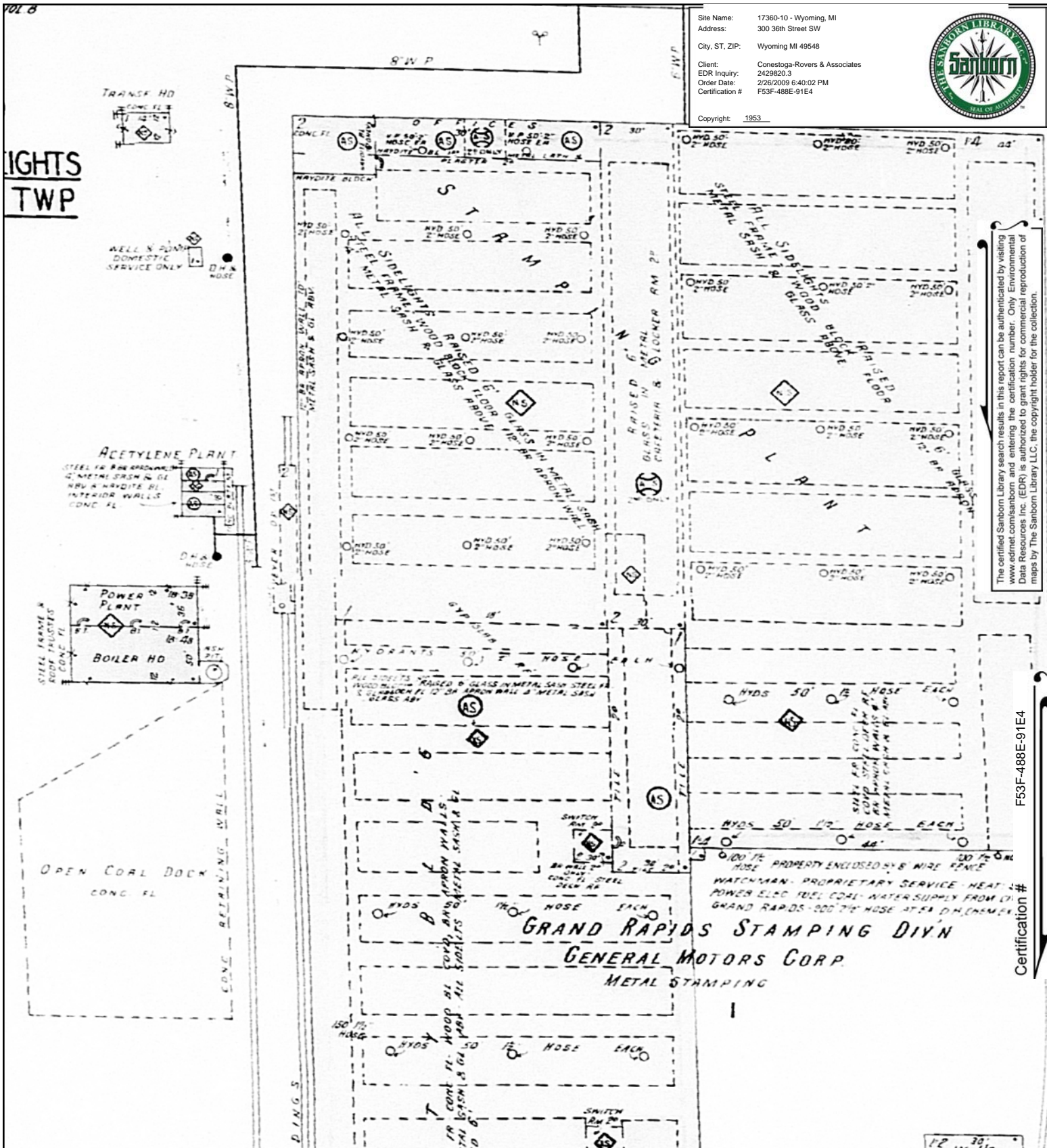
1953 Certified Sanborn Map

Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548



Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # F53F-488E-91E4

Copyright: 1953

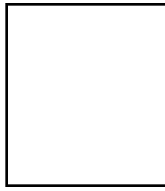
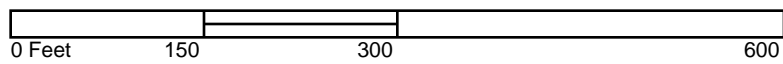


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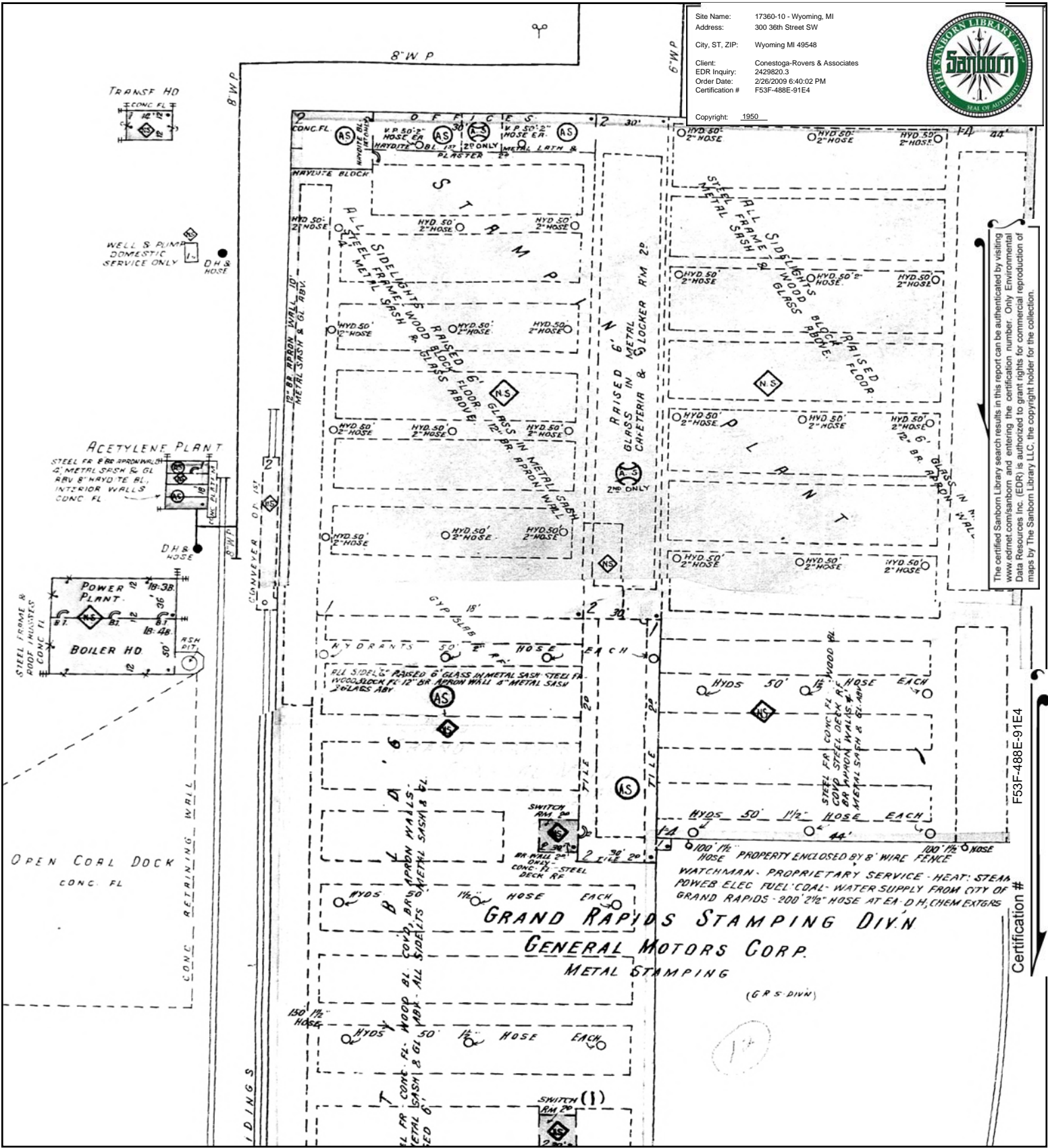
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 7, Sheet 823



1950 Certified Sanborn Map



Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification #: F53F-488E-91E4
 Copyright: 1950

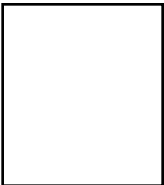
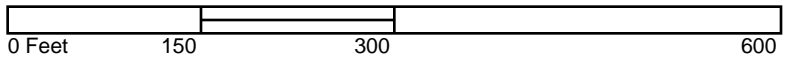


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Certification #

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Volume 2, Sheet 244





17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

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Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
Certification # F53F-488E-91E4



Sanborn® Library search results
Certification # F53F-488E-91E4

Maps Provided:

1950
1953
1966
1985

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For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1985 Source Sheets



Volume 7, Sheet 823

1966 Source Sheets

1953 Source Sheets



Volume 7, Sheet 823

1950 Source Sheets



Volume 2, Sheet 244

1985 Certified Sanborn Map

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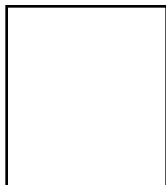
Certification # F53F-488E-91E4

Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # F53F-488E-91E4

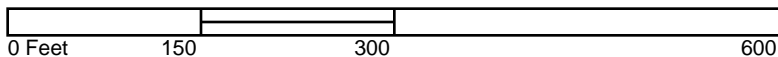


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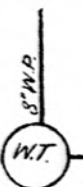
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Volume 7, Sheet 823



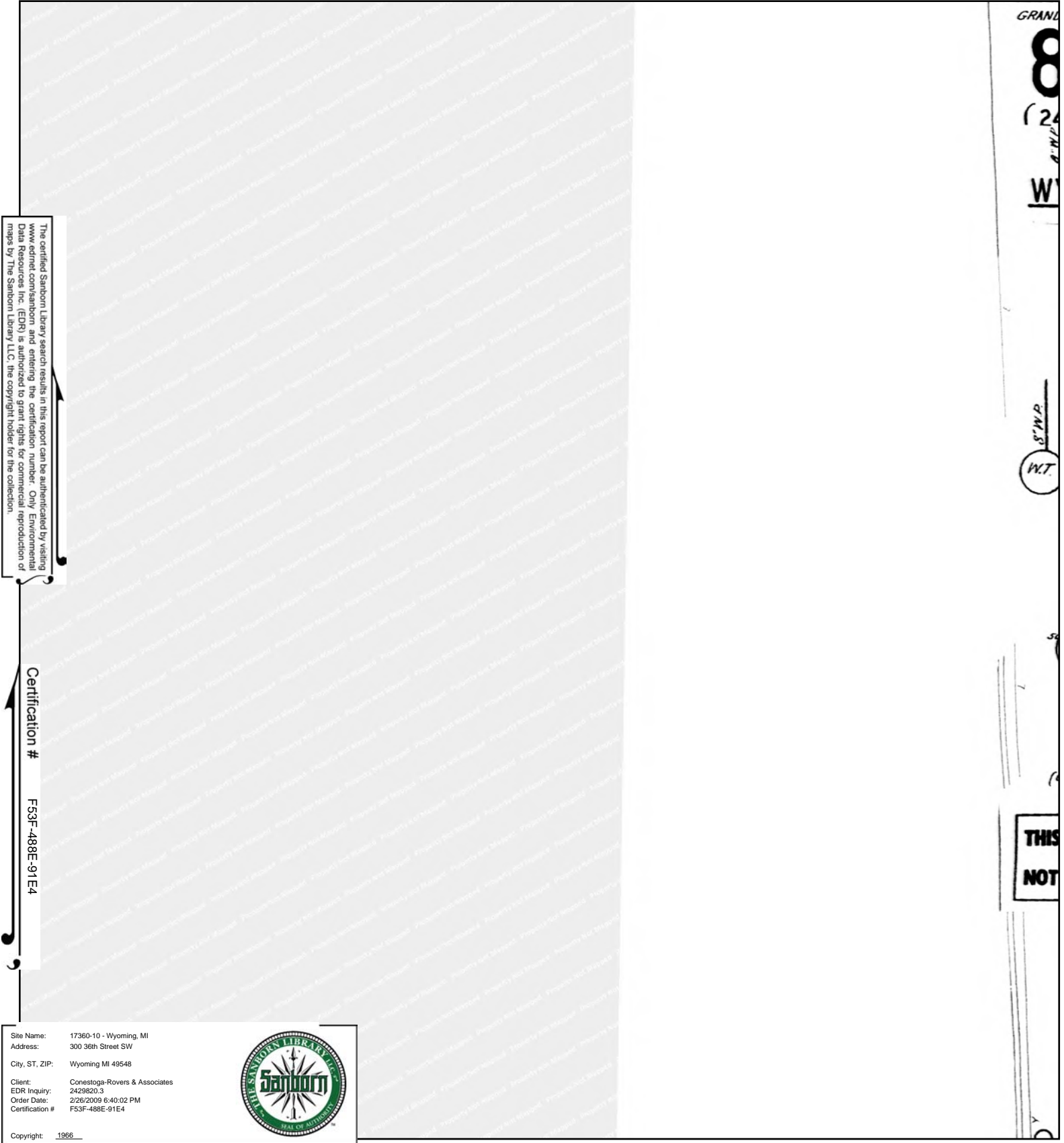
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1966 Certified Sanborn Map



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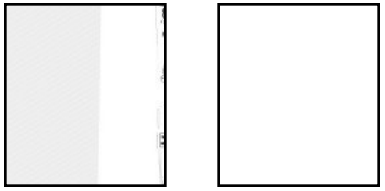
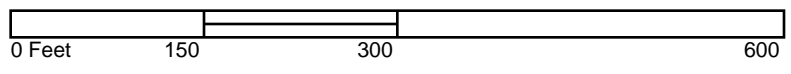
Certification # F53F-488E-91E4

Site Name:	17360-10 - Wyoming, MI
Address:	300 36th Street SW
City, ST, ZIP:	Wyoming MI 49548
Client:	Conestoga-Rovers & Associates
EDR Inquiry:	2429820-3
Order Date:	2/26/2009 6:40:02 PM
Certification #	F53F-488E-91E4

Copyright: 1966



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1953 Certified Sanborn Map

GRAND RAPIDS, MICH

823

(244 VOL. 2)

GODWIN HI

WYOMING

Cooling Pond
NO REF

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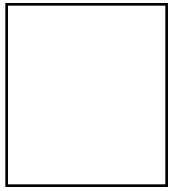
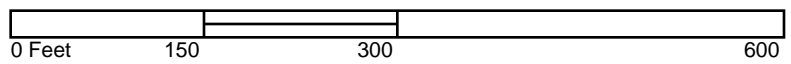
Certification # F53F-488E-91E4

Site Name:	17360-10 - Wyoming, MI
Address:	300 36th Street SW
City, ST, ZIP:	Wyoming MI 49548
Client:	Conestoga-Rovers & Associates
EDR Inquiry:	2429820-3
Order Date:	2/26/2009 6:40:02 PM
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Volume 7, Sheet 823



1950 Certified Sanborn Map

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Certification # F53F-488E-91E4

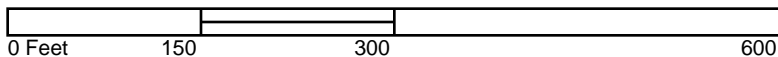
Cooling Pond
NO. 61

Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2429820-3
Order Date: 2/26/2009 6:40:02 PM
Certification # F53F-488E-91E4

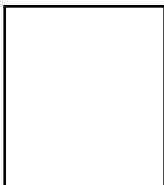


Copyright: 1950

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Volume 2, Sheet 244





17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

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Certified Sanborn Results:

Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
Certification # F53F-488E-91E4



Sanborn® Library search results
Certification # F53F-488E-91E4

Maps Provided:

1950
1953
1966
1985

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Sanborn Sheet Thumbnails

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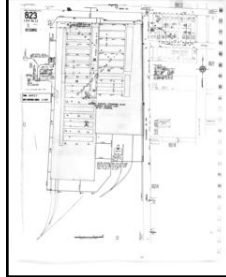
1985 Source Sheets



Volume 7, Sheet 821



Volume 7, Sheet 822

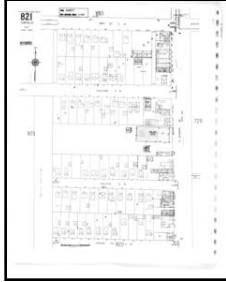


Volume 7, Sheet 823

1966 Source Sheets



Volume 7, Sheet 853



Volume 7, Sheet 821



Volume 7, Sheet 822

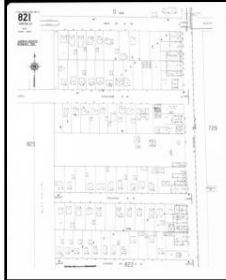


Volume 7, Sheet 823

1953 Source Sheets



Volume 7, Sheet 823



Volume 7, Sheet 821



Volume 7, Sheet 822

1950 Source Sheets

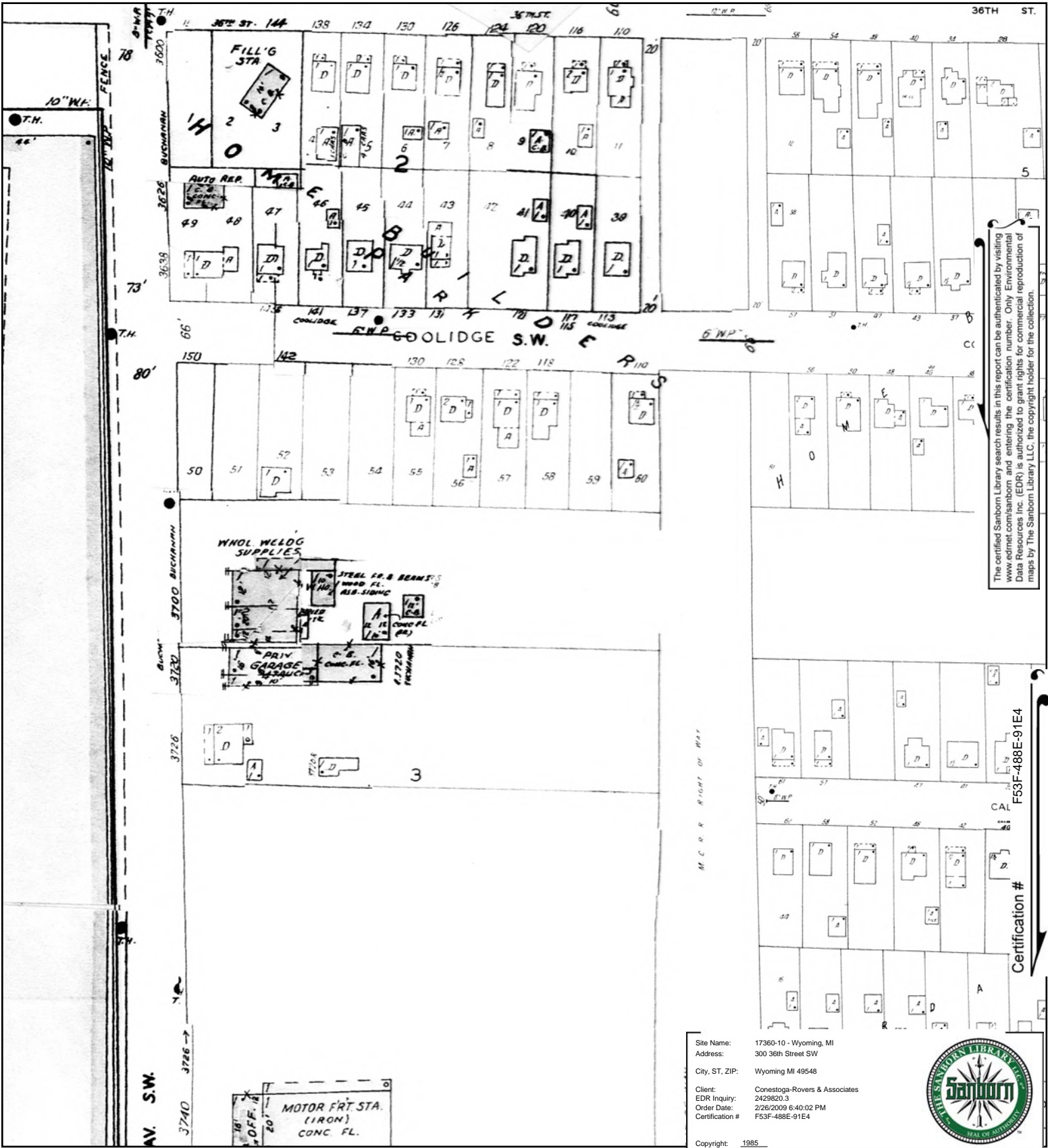


Volume 2, Sheet 244



Volume 2, Sheet 245

1985 Certified Sanborn Map



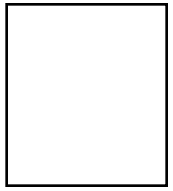
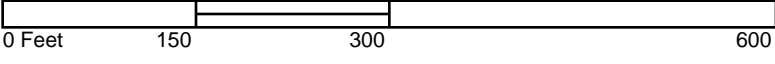
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 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820.3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # F53F-488E-91E4
 Copyright: 1985



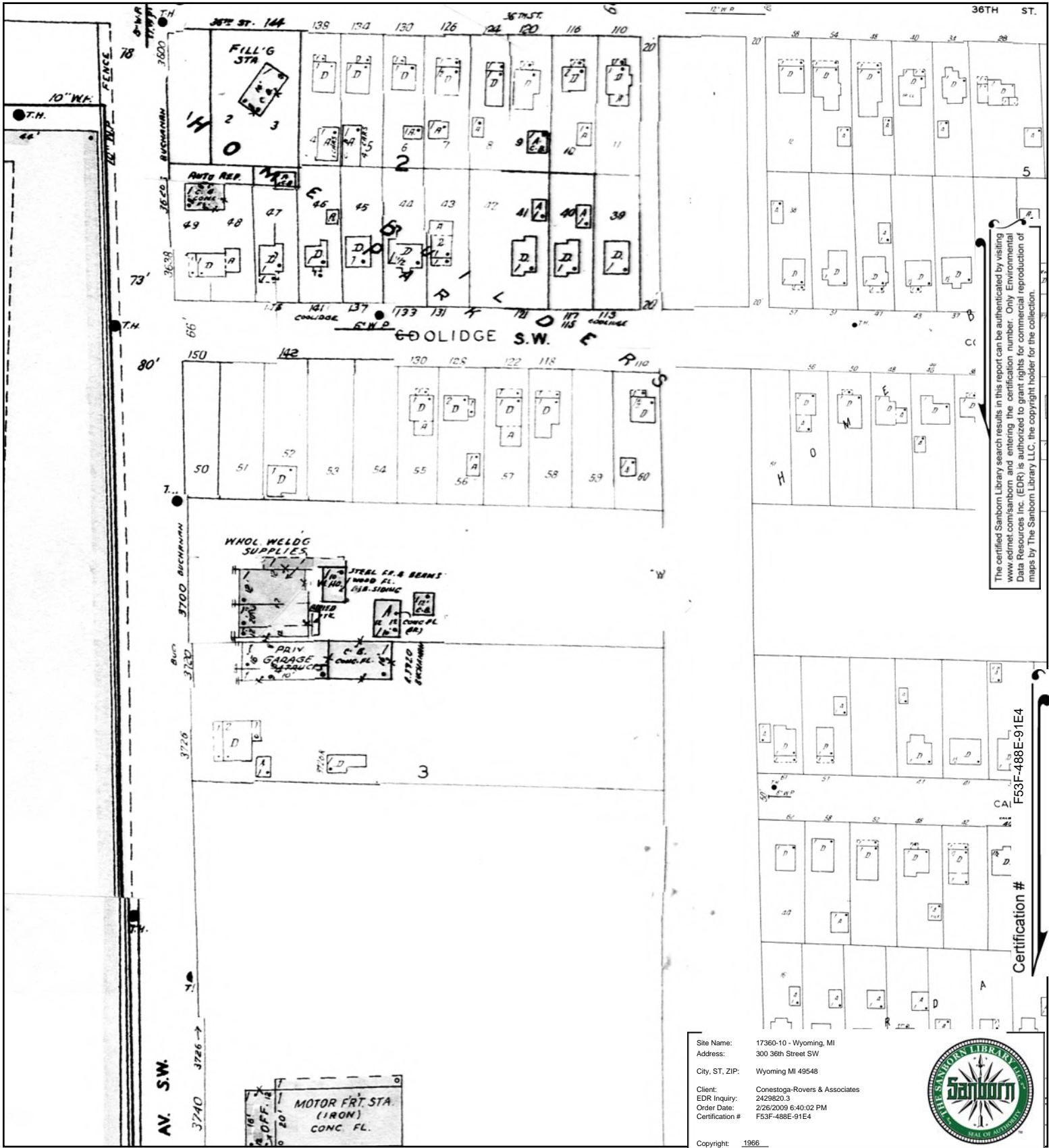
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Volume 7, Sheet 821
 Volume 7, Sheet 822
 Volume 7, Sheet 823



1966 Certified Sanborn Map



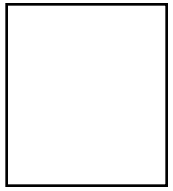
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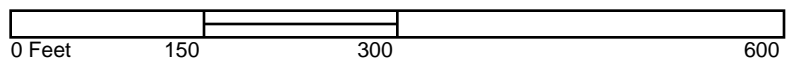
Site Name: 17360-10 - Wyoming, MI
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 Certification # F53F-488E-91E4
 Copyright: 1966



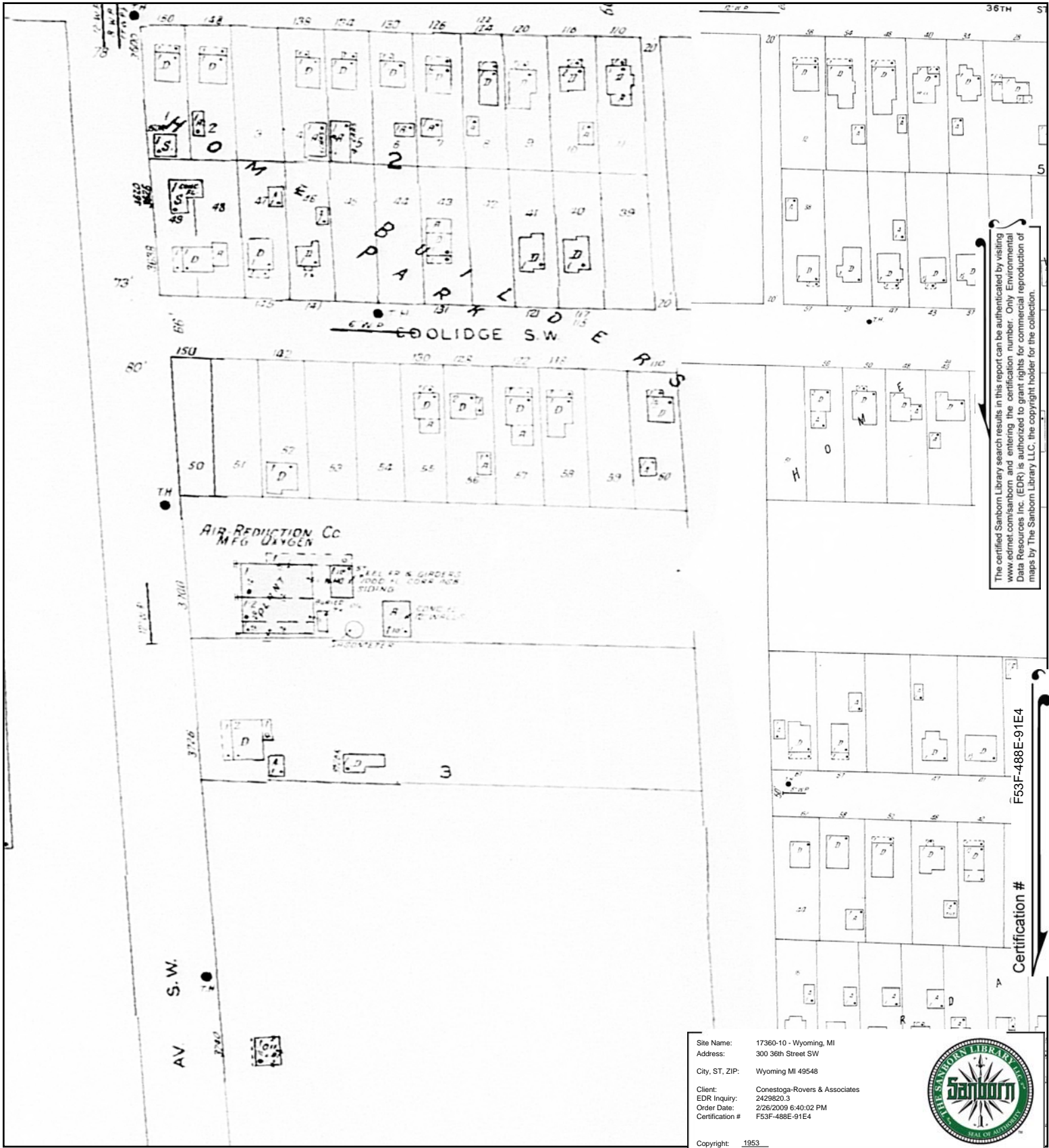
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



- Volume 7, Sheet 853
- Volume 7, Sheet 821
- Volume 7, Sheet 822
- Volume 7, Sheet 823



1953 Certified Sanborn Map

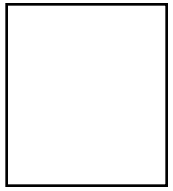


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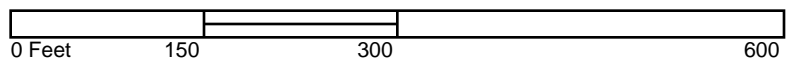
Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
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 EDR Inquiry: 2429820.3
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 Certification #: F53F-488E-91E4
 Copyright: 1953



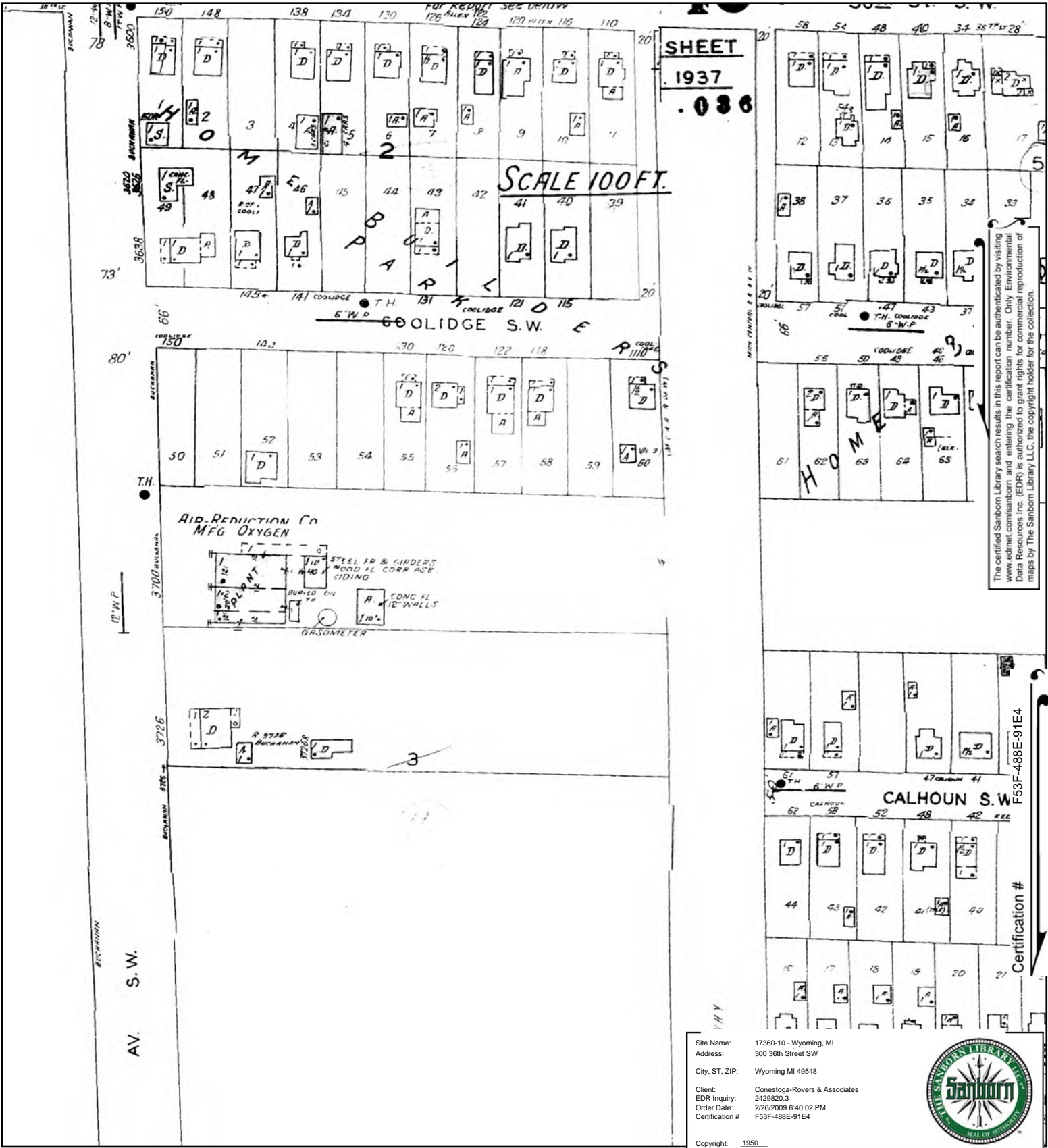
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



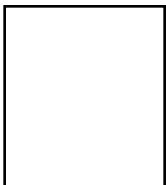
Volume 7, Sheet 823
 Volume 7, Sheet 821
 Volume 7, Sheet 822



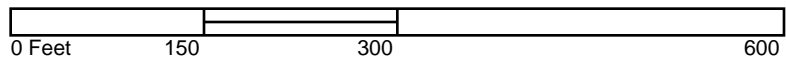
1950 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 2, Sheet 244
Volume 2, Sheet 245





17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

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Address: 300 36th Street SW
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Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
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Certification # F53F-488E-91E4

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- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

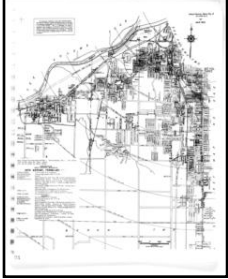
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Sanborn Sheet Thumbnails

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1985 Source Sheets



Volume 7, Sheet R

1966 Source Sheets

1953 Source Sheets

1985 Certified Sanborn Map

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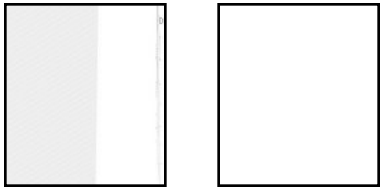
Certification # F53F-488E-91E4

Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2/26/2009 6:40:02 PM
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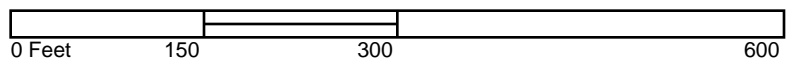


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Volume 7, Sheet R



1966 Certified Sanborn Map

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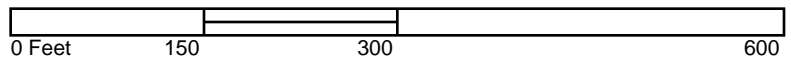
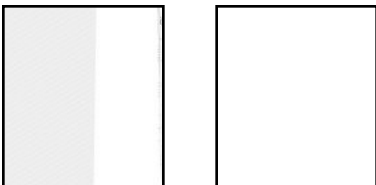
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Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2/26/2009 6:40:02 PM
Order Date: F53F-488E-91E4
Certification #



Copyright: 1966

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1953 Certified Sanborn Map

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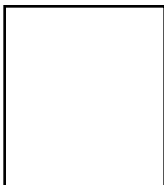
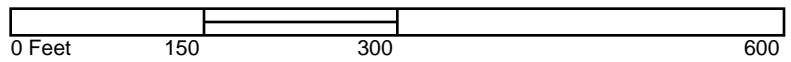
Certification # F53F-488E-91E4

Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2429820-3
Order Date: 2/26/2009 6:40:02 PM
Certification # F53F-488E-91E4



Copyright: 1953

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17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Conestoga-Rovers & Associates were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: 17360-10 - Wyoming, MI
Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
Certification # F53F-488E-91E4



Sanborn® Library search results
Certification # F53F-488E-91E4

Maps Provided:

1950
1953
1966
1985

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

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Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1985 Source Sheets



Volume 7, Sheet 823

1966 Source Sheets



Volume 7, Sheet 823

1953 Source Sheets



Volume 7, Sheet 823

1950 Source Sheets



Volume 2, Sheet 244

1985 Certified Sanborn Map

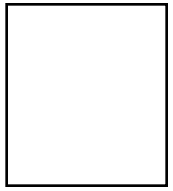
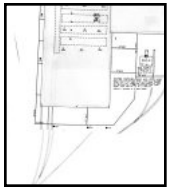
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Certification # F53F-488E-91E4

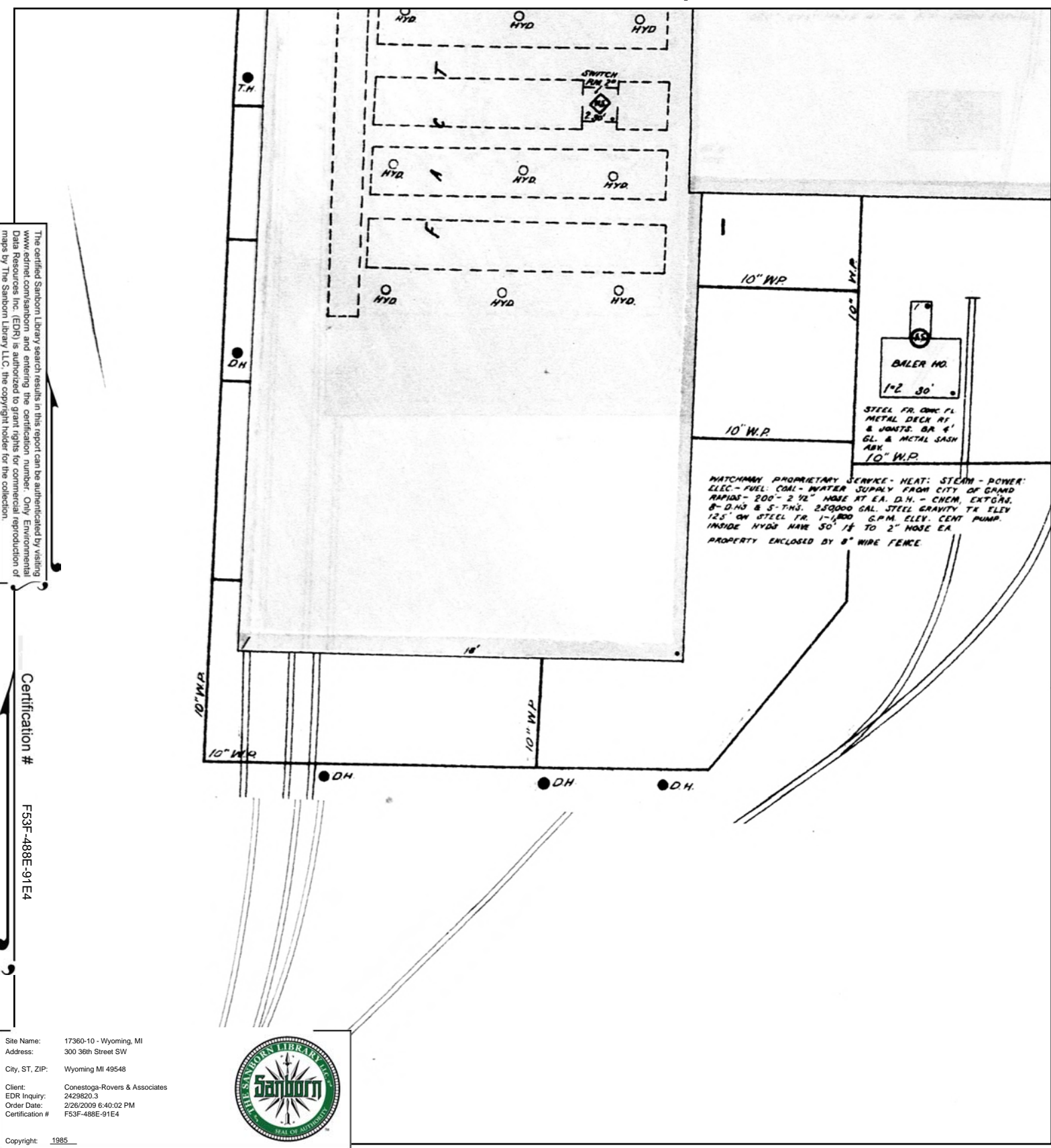
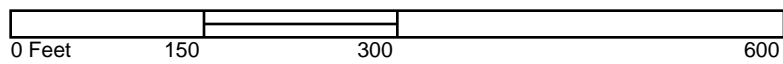
Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # F53F-488E-91E4



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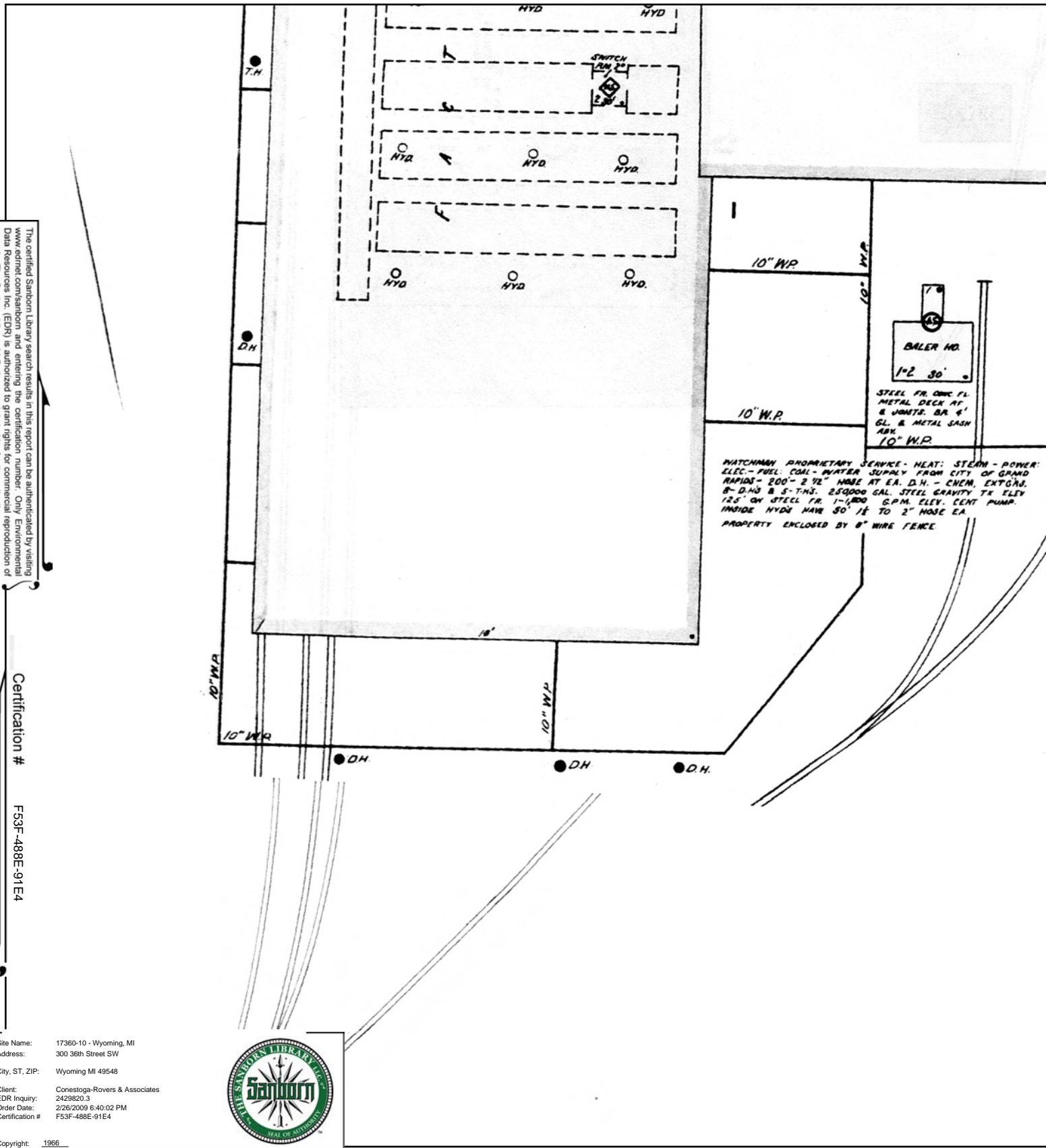
Volume 7, Sheet 823



WATCHMAN PROPRIETARY SERVICE - HEAT: STEAM - POWER: ELEC. - FUEL: COAL - WATER SUPPLY FROM CITY OF GRAND RAPIDS - 200' - 2 1/2" HOSE AT EA. D.H. - CEM. EXTGNS. 8" D.H. & 5" T.H.S. 250000 GAL. STEEL GRAVITY TK ELEV 125' ON STEEL TR. 1-1,000 G.P.M. ELEV. CENT PUMP. INSIDE HYDS HAVE 50' 1/4" TO 2" HOSE EA. PROPERTY ENCLOSED BY 8" WIRE FENCE.

BALER NO.
1-2 30'
STEEL FR. DWG. PL. METAL DECK AT 8 JOISTS. BA 6' GL. & METAL SASH AW. 10" W.P.

1966 Certified Sanborn Map



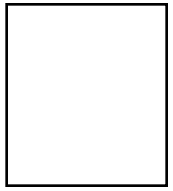
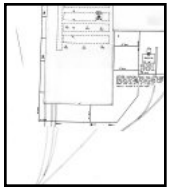
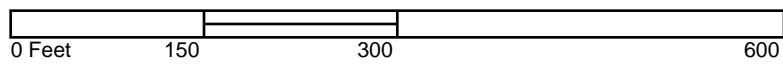
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 Certification # F53F-488E-91E4
 Copyright: 1966



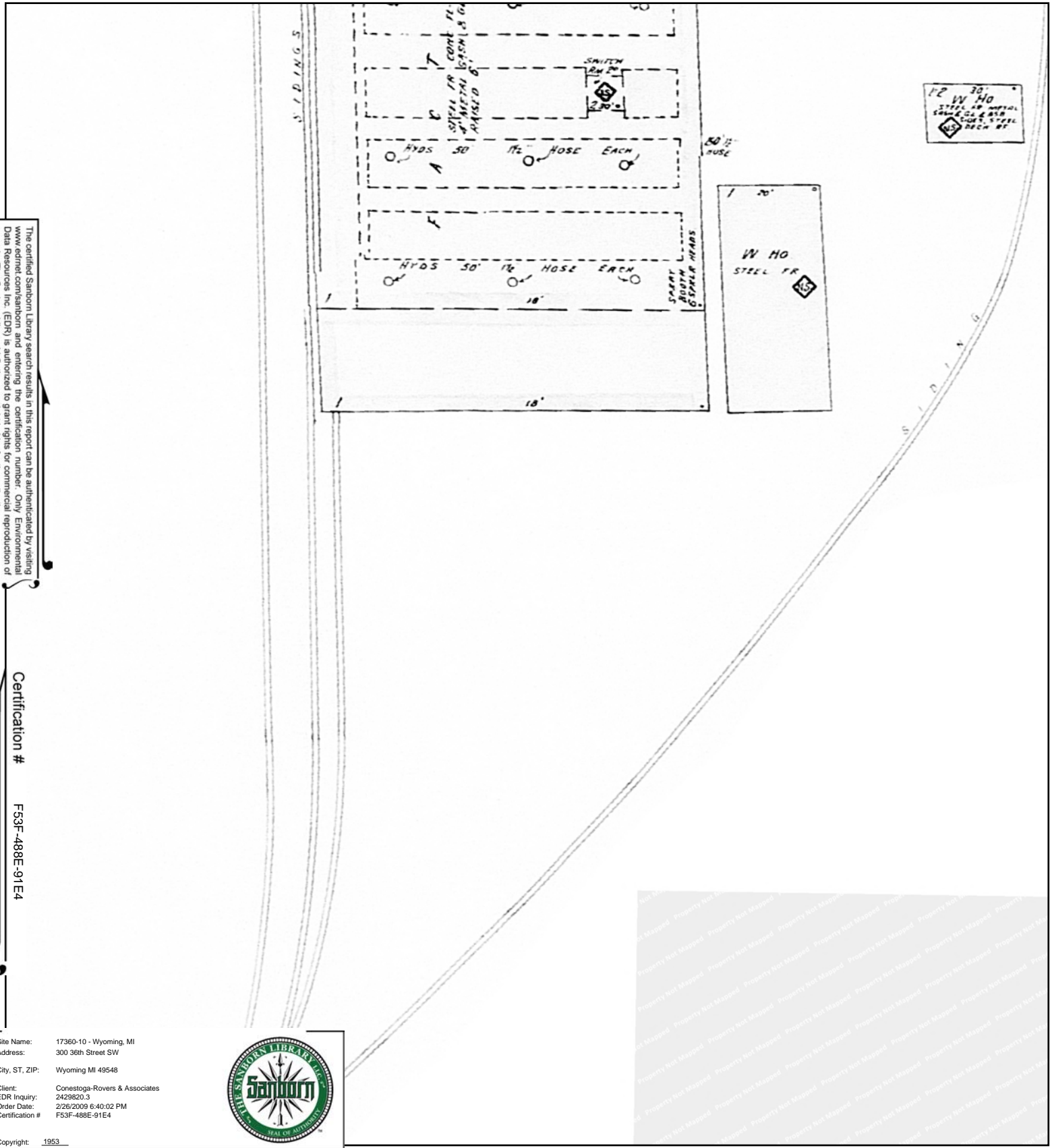
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Volume 7, Sheet 823



1953 Certified Sanborn Map



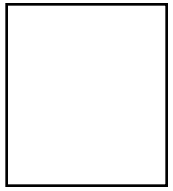
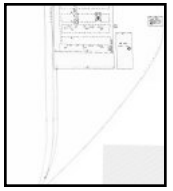
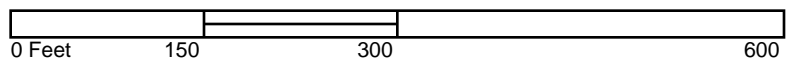
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 City, ST, ZIP: Wyoming MI 49548
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 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # F53F-488E-91E4



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Volume 7, Sheet 823



1950 Certified Sanborn Map

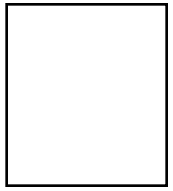
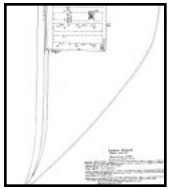
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Certification # FS3F-488E-91E4

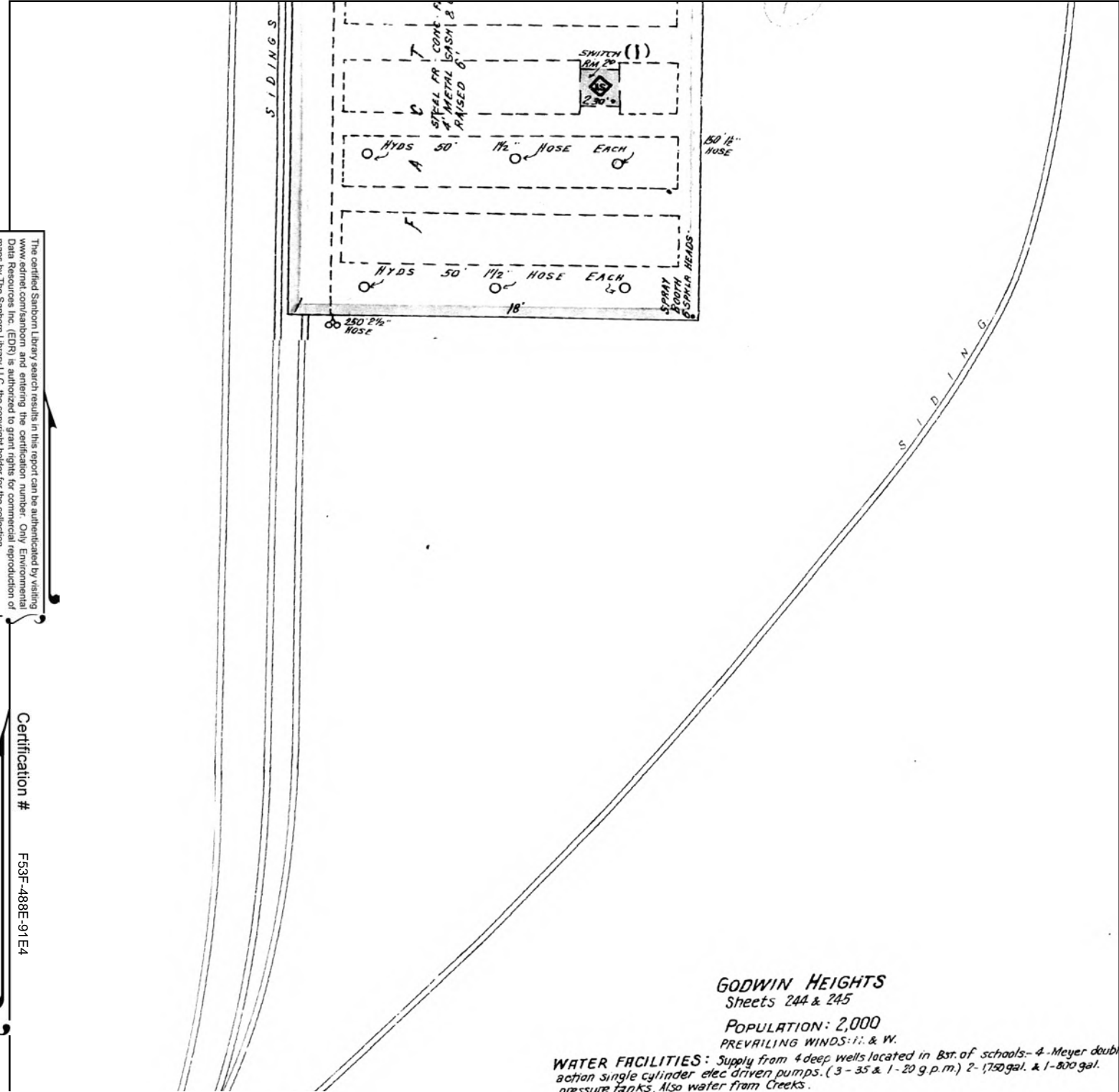
Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # FS3F-488E-91E4
 Copyright: 1950



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Volume 2, Sheet 244



GODWIN HEIGHTS Sheets 244 & 245

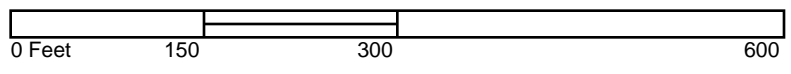
POPULATION: 2,000
 PREVAILING WINDS: N. & W.

WATER FACILITIES: Supply from 4 deep wells located in Bst. of schools- 4-Meyer double action single cylinder elec driven pumps. (3- 35 & 1- 20 g.p.m.) 2- 1750 gal. & 1- 800 gal. pressure tanks. Also water from Creeks.

FIRE DEPT: Two Stations.

Godwin Heights Sta. partly paid. 1-chief, 1-ass't chief & 12 men 1-International triple comb with 500 g.p.m. pump, 500 gal. W.T. 600'-1 1/2" & 400'-1" hose. 1-Ford model "A" comb. truck with 300 g.p. pump, 335 gal. W.T. & 350'-1" hose.

Home Acres & Kelloggsville sta: Volunteer, paid on calls 1-chief- 1-ass't chief & 12 men. One Dodge triple comb. with 500 g.p.m. pump, 500 gal. W.T. 700'-1 1/2" & 150'-1" hose. One truck from each station answers all calls. Alarm by telephone & Siren.





17360-10 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2429820.3

February 26, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

2/26/09

Site Name:

17360-10 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2429820.3

Contact: Kelly Connolly

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City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # 17360-10 - Wyoming,
Project: 17360-10 - Wyom
Certification # F53F-488E-91E4



Sanborn® Library search results
Certification # F53F-488E-91E4

Maps Provided:

1950
1953
1966
1985

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- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1985 Source Sheets



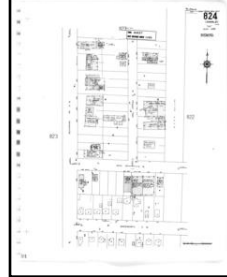
Volume 7, Sheet 821



Volume 7, Sheet 822



Volume 7, Sheet 823



Volume 7, Sheet 824

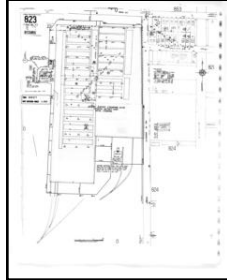
1966 Source Sheets



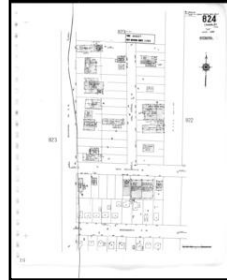
Volume 7, Sheet 821



Volume 7, Sheet 822

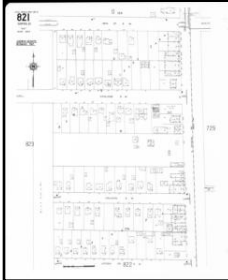


Volume 7, Sheet 823



Volume 7, Sheet 824

1953 Source Sheets



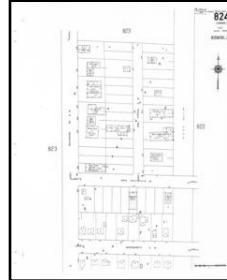
Volume 7, Sheet 821



Volume 7, Sheet 822



Volume 7, Sheet 823



Volume 7, Sheet 824

1950 Source Sheets

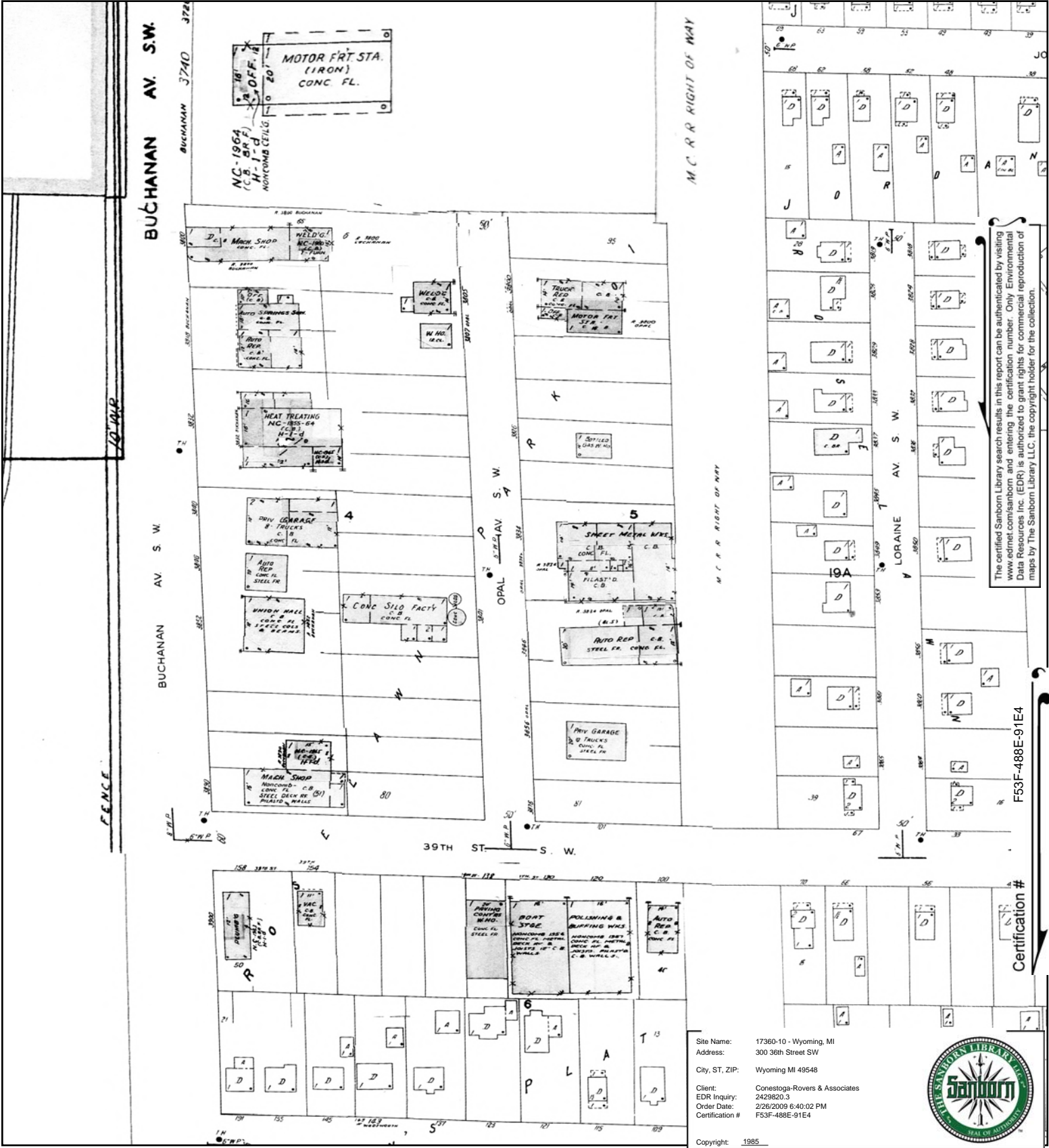


Volume 2, Sheet 244



Volume 2, Sheet 245

1985 Certified Sanborn Map



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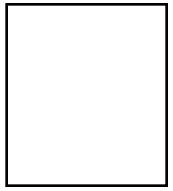
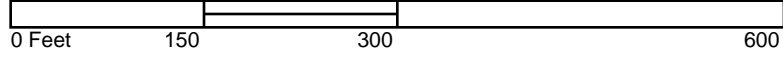
FG3F-488E-91E4

Certification #

Site Name: 17360-10 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification # FG3F-488E-91E4
 Copyright: 1985



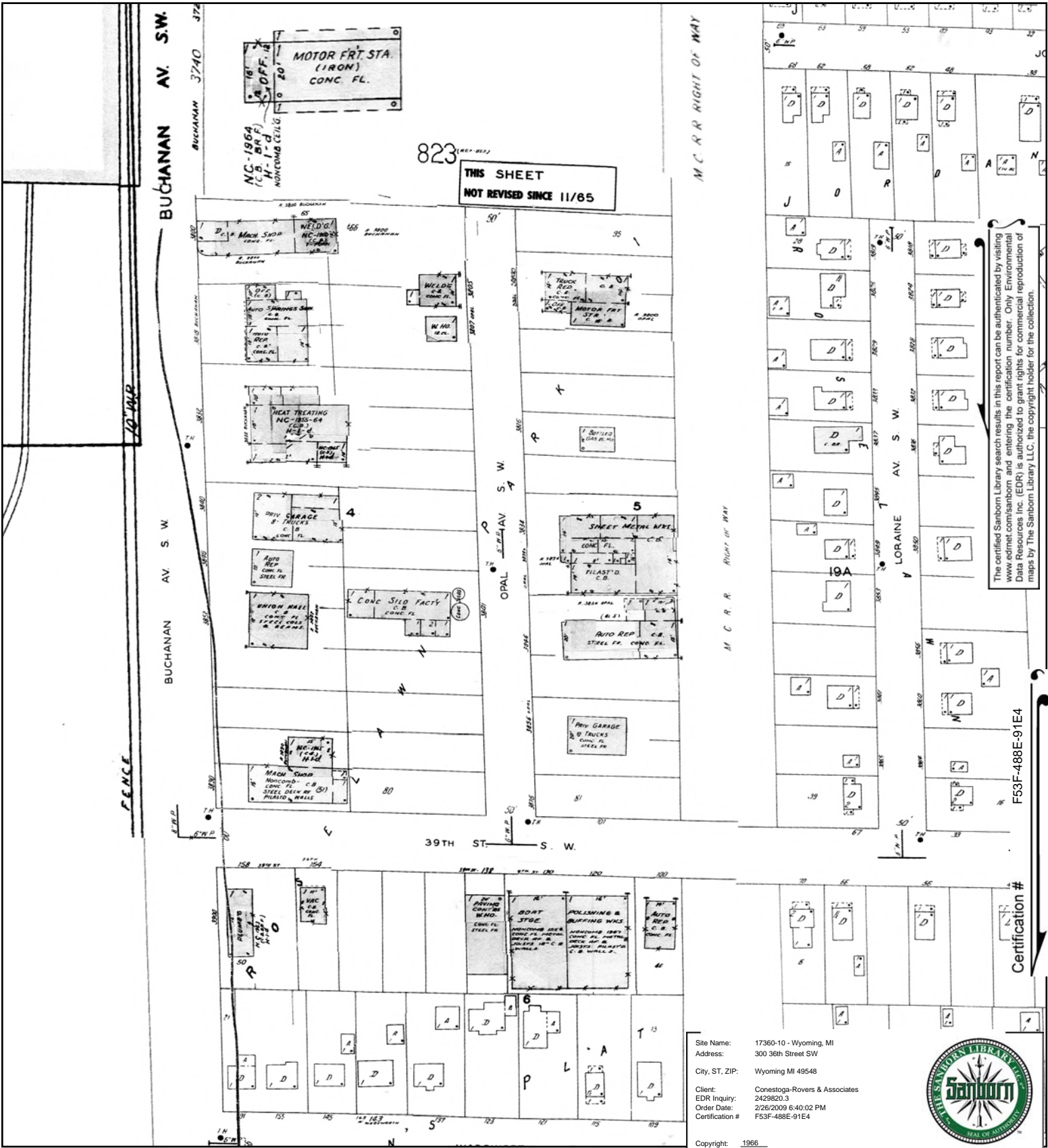
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



- Volume 7, Sheet 821
- Volume 7, Sheet 822
- Volume 7, Sheet 823
- Volume 7, Sheet 824



1966 Certified Sanborn Map



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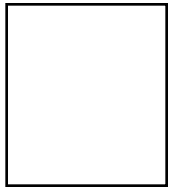
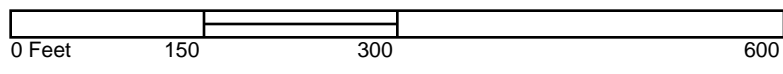
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 EDR Inquiry: 2429820.3
 Order Date: 2/26/2009 6:40:02 PM
 Certification #: FG3F-488E-91E4
 Copyright: 1966



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



- Volume 7, Sheet 821
- Volume 7, Sheet 822
- Volume 7, Sheet 823
- Volume 7, Sheet 824



1953 Certified Sanborn Map



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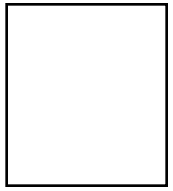
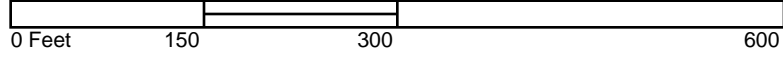
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 Certification # F53F-488E-91E4

Copyright: 1953



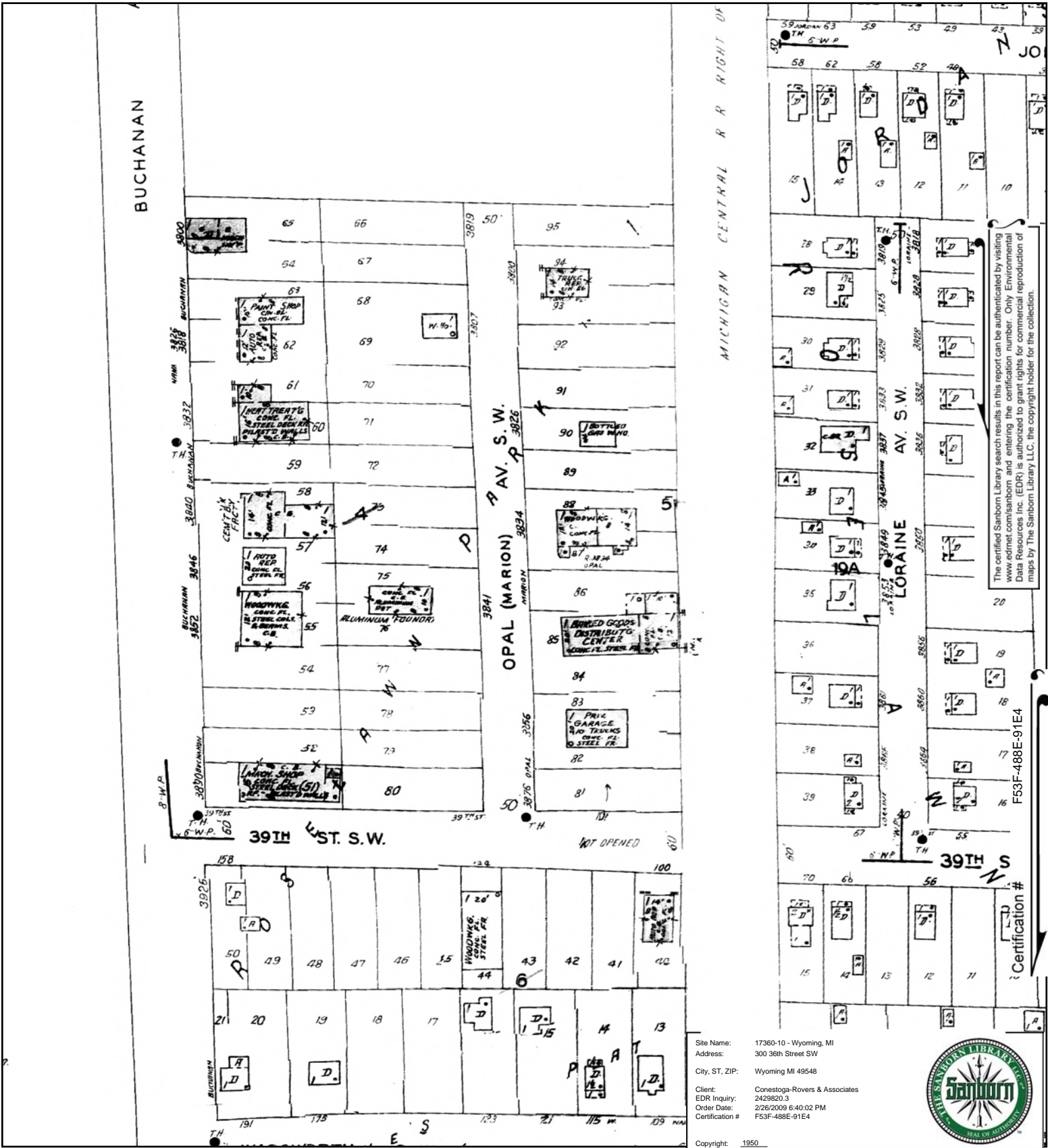
This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



- Volume 7, Sheet 821
- Volume 7, Sheet 822
- Volume 7, Sheet 823
- Volume 7, Sheet 824



1950 Certified Sanborn Map

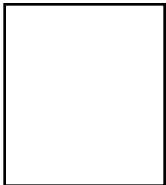
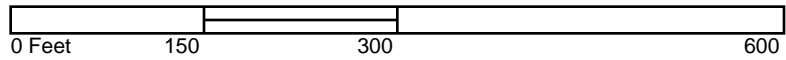


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 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2429820-3
 Order Date: 2/26/2009 6:40:02 PM
 Certification #: F53F-488E-91E4
 Copyright: 1950



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).



Volume 2, Sheet 244
 Volume 2, Sheet 245



070195 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2751676.3
April 21, 2010

Certified Sanborn® Map Report

Certified Sanborn® Map Report

4/21/10

Site Name:

070195 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2751676.3

Contact: Kelly F. Connolly

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Certified Sanborn Results:

Site Name: 070195 - Wyoming, MI
Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # NA
Project: NA
Certification # 2230-44CF-A60B



Sanborn® Library search results
Certification # 2230-44CF-A60B

Maps Provided:

1985
1966
1953
1950

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- Library of Congress
- University Publications of America
- EDR Private Collection

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1985 Source Sheets



Volume 7, Sheet 823

1966 Source Sheets



Volume 7, Sheet 823

1953 Source Sheets



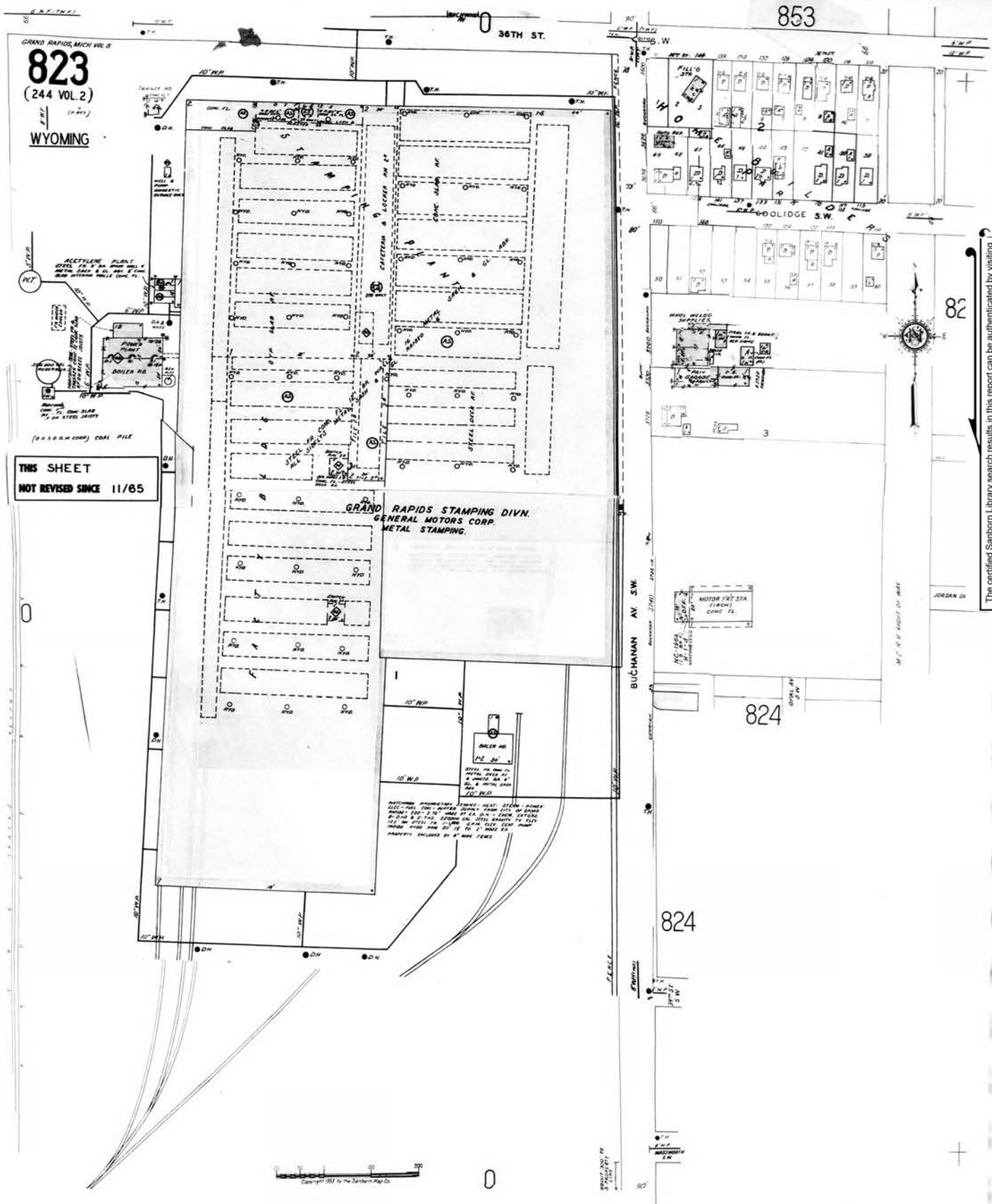
Volume 7, Sheet 823

1950 Source Sheets



Volume 2, Sheet 244

1985 Certified Sanborn Map



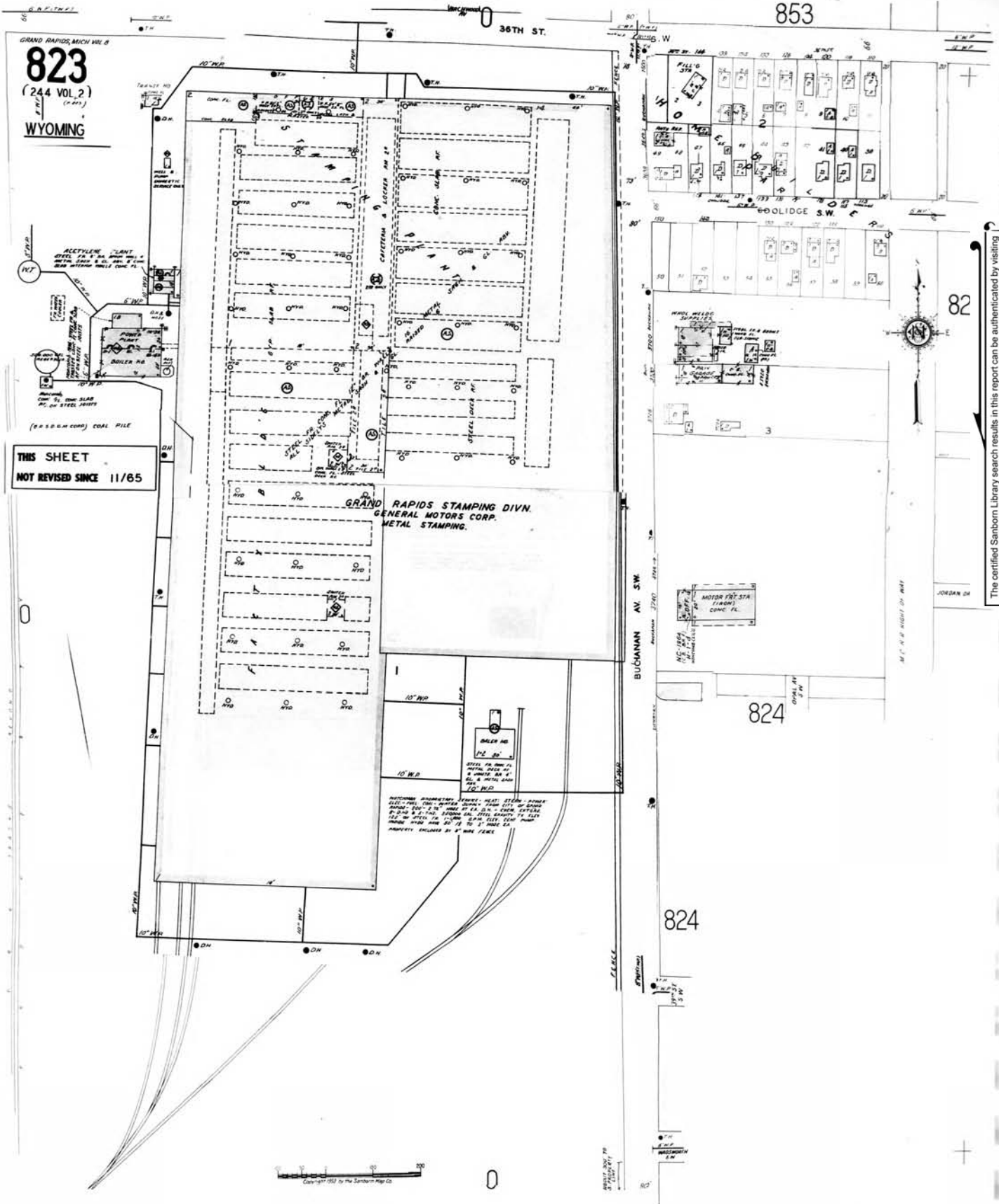
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Site Name: 070195 - Wyoming, MI
Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2751676.3
Order Date: 4/21/2010 1:58:00 PM
Certification #: 2230-44CF-A60B



Certification # 2230-44CF-A60B

1966 Certified Sanborn Map



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 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2751676.3
 Order Date: 4/21/2010 1:58:00 PM
 Certification #: 2230-44CF-A60B



1953 Certified Sanborn Map

GRAND RAPIDS, MICH VOL. #

823
(244 VOL. 2)

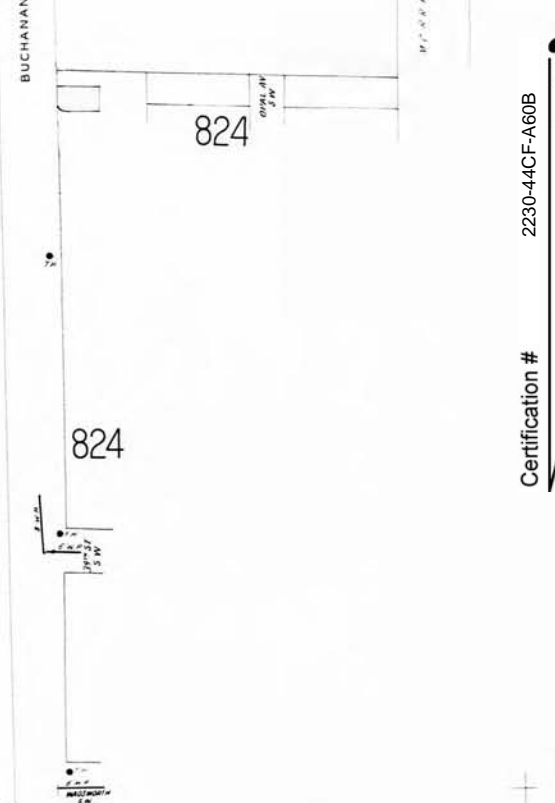
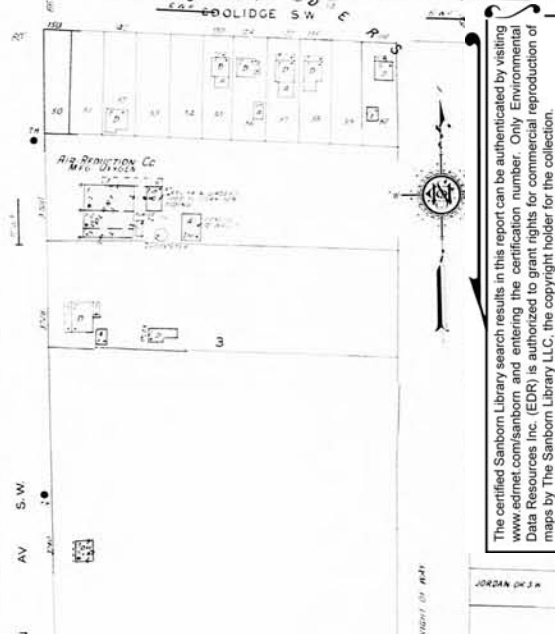
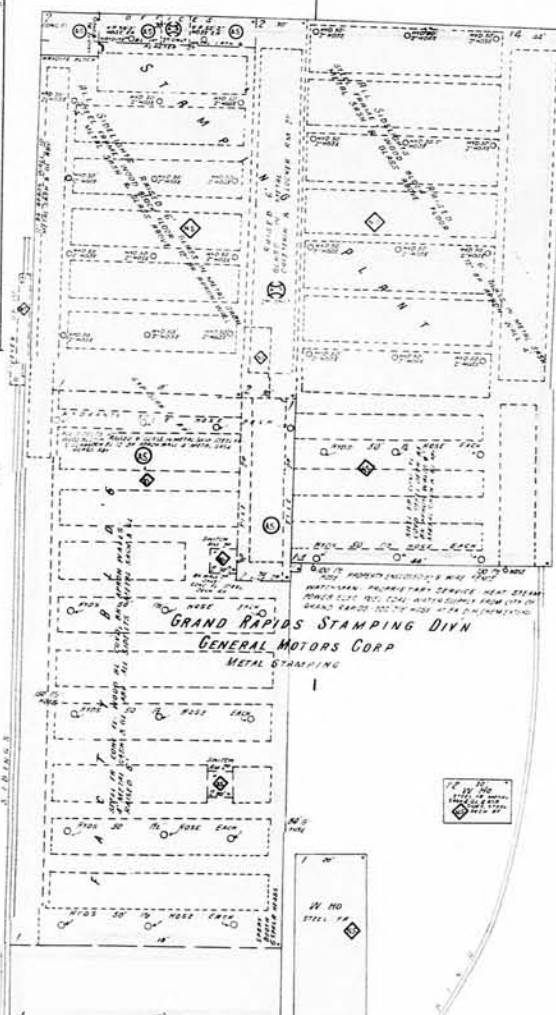
GODWIN HEIGHTS
WYOMING TWP

Coring Pond

RECYCLE PLANT
STEEL TO RECYCLE
STEEL TRUCKS
FROM WYOMING
INFORMATION
CONTACT #1

POWER PLANT
BOILER NO. 1
BOILER NO. 2

DEER CORP. BLDG.
CONG. 11



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Certification # 2230-44CF-A60B

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Client: Conestoga-Rovers & Associates
EDR Inquiry: 2751676.3
Order Date: 4/21/2010 1:58:00 PM
Certification #: 2230-44CF-A60B



070195 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2759189.1
May 04, 2010

Certified Sanborn® Map Report

Certified Sanborn® Map Report

5/04/10

Site Name:

070195 - Wyoming, MI
300 36th Street SW
Wyoming, MI 49548

Client Name:

Conestoga-Rovers &
8615 West Bryn Mawr Ave
Chicago, IL 60631



EDR Inquiry # 2759189.1

Contact: Kelly F. Connolly

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Address: 300 36th Street SW
City, State, Zip: Wyoming, MI 49548
Cross Street:
P.O. # NA
Project: NA
Certification # EE39-4F48-9377



Sanborn® Library search results
Certification # EE39-4F48-9377

Maps Provided:

1985
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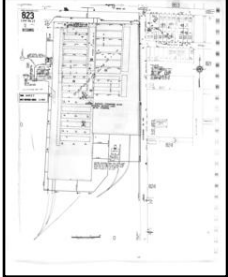
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Sanborn Sheet Thumbnails

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1985 Source Sheets



Volume 7, Sheet 823



Volume 7, Sheet 824



Volume 7, Sheet 853

1966 Source Sheets



Volume 7, Sheet 823



Volume 7, Sheet 824

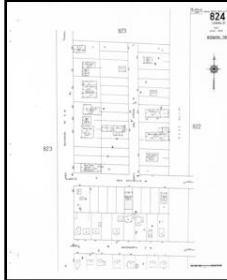


Volume 7, Sheet 853

1953 Source Sheets



Volume 7, Sheet 823



Volume 7, Sheet 824

1950 Source Sheets

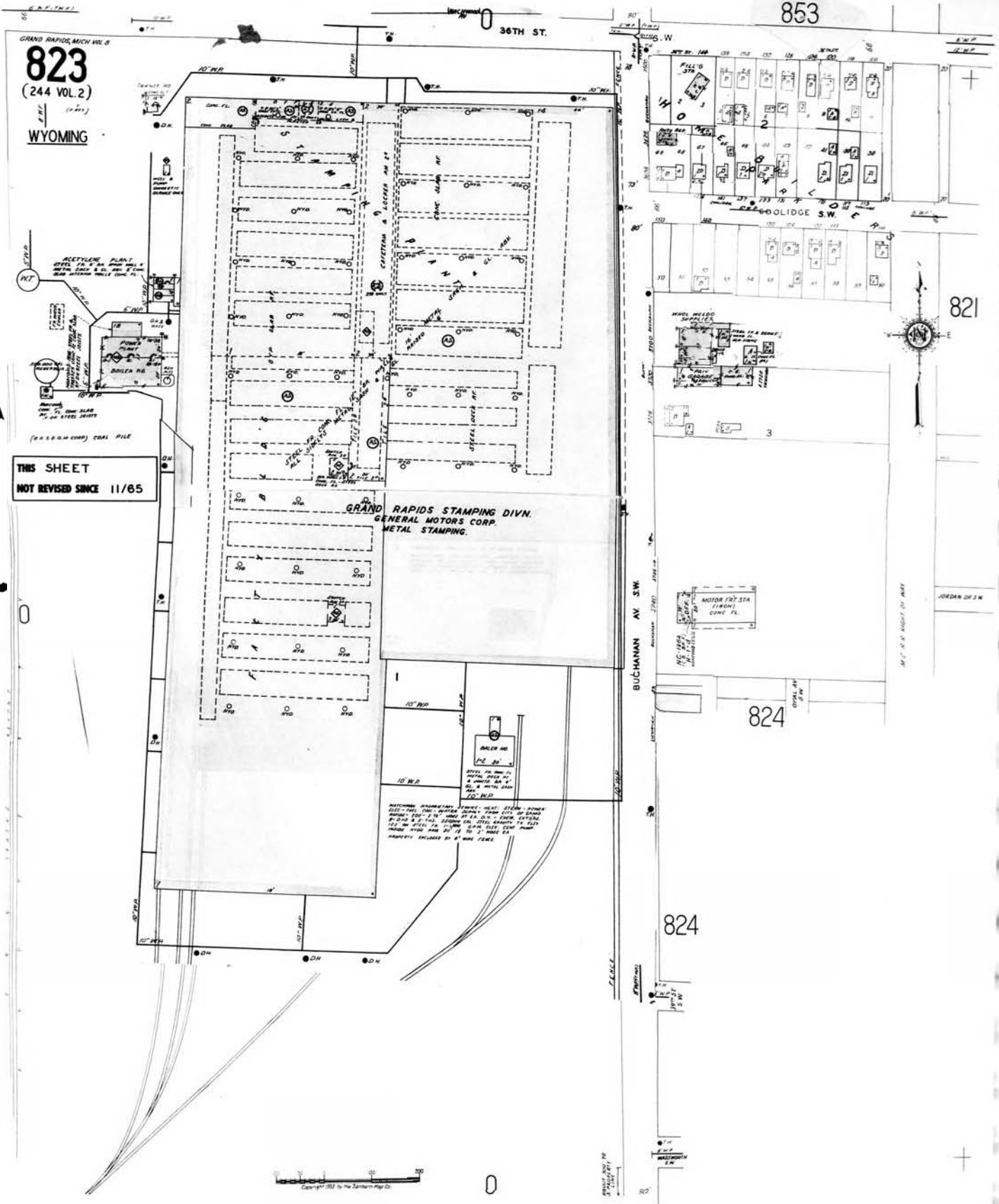


Volume 2, Sheet 244

1985 Certified Sanborn Map

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Certification # EE39-4F48-9377



Site Name: 070195 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2759189.1
 Order Date: 5/4/2010 6:12:01 PM
 Certification #: EE39-4F48-9377
 Copyright: 1985



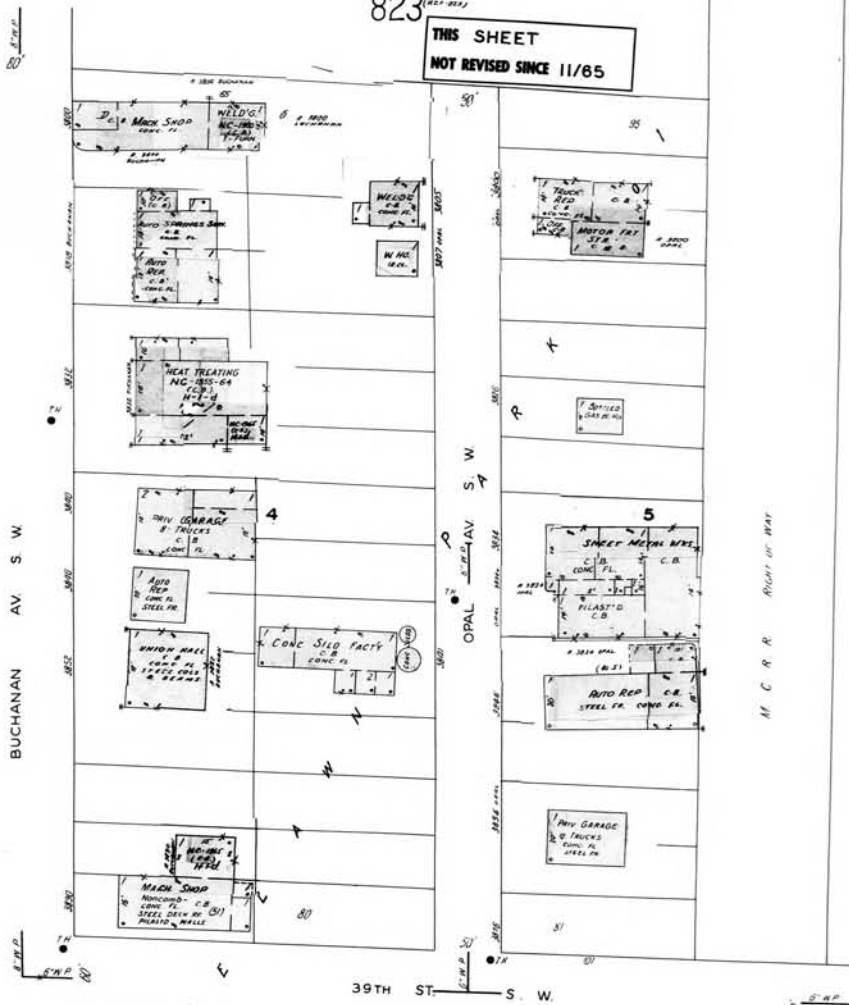
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GRAND RAPIDS, MICH. VOL. 3
824
(244VOL.2)
"NE"
MAR. 1953
WYOMING

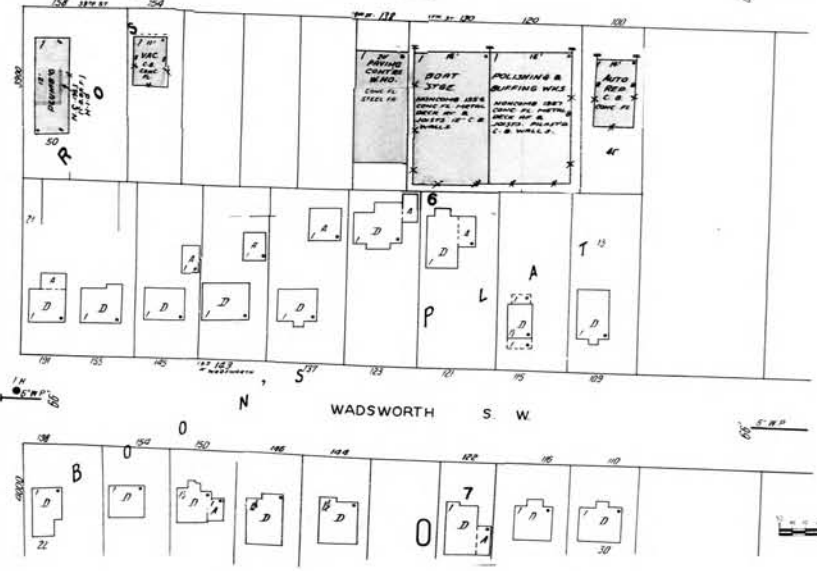


823

THIS SHEET
NOT REVISED SINCE 11/65



823



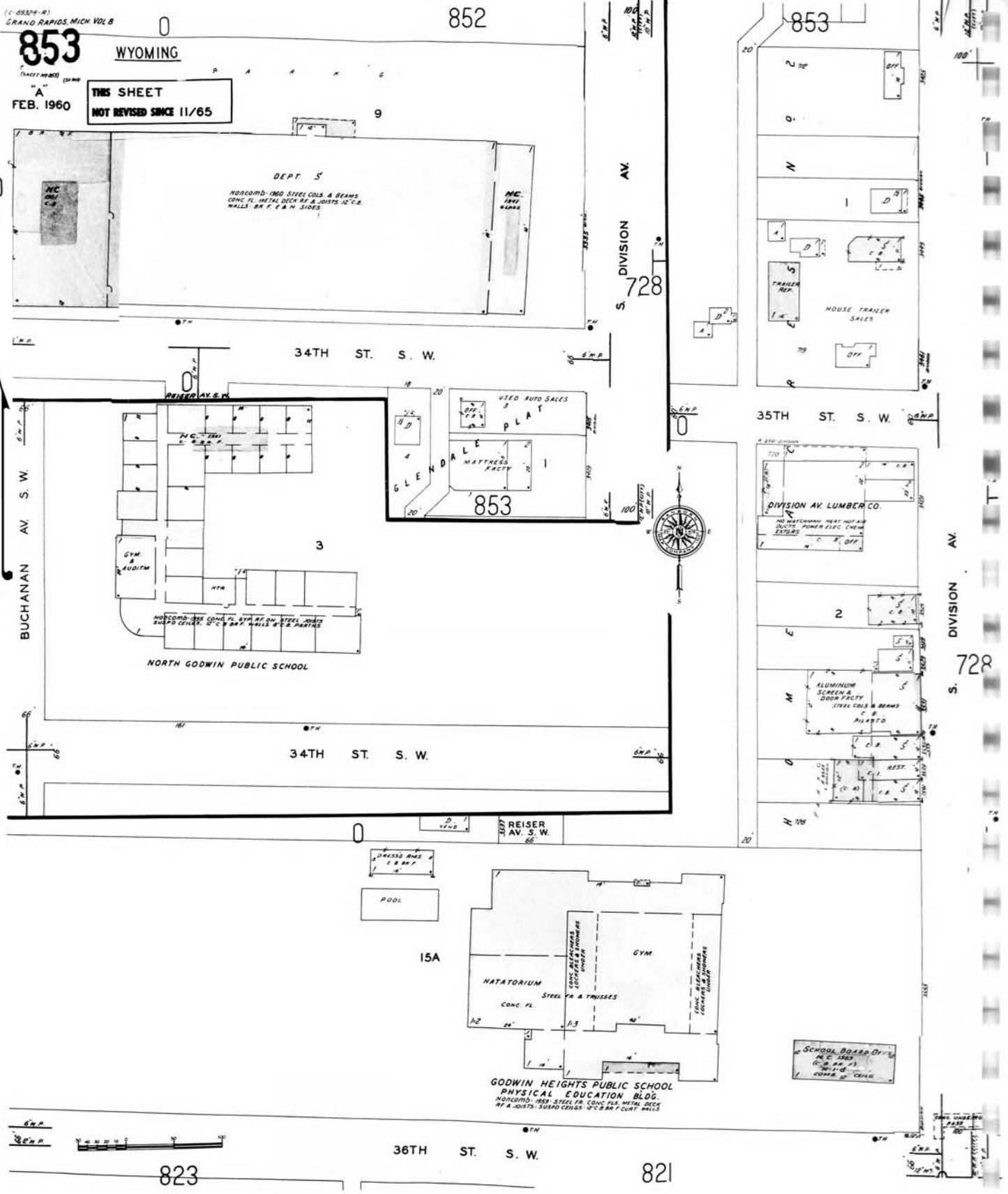
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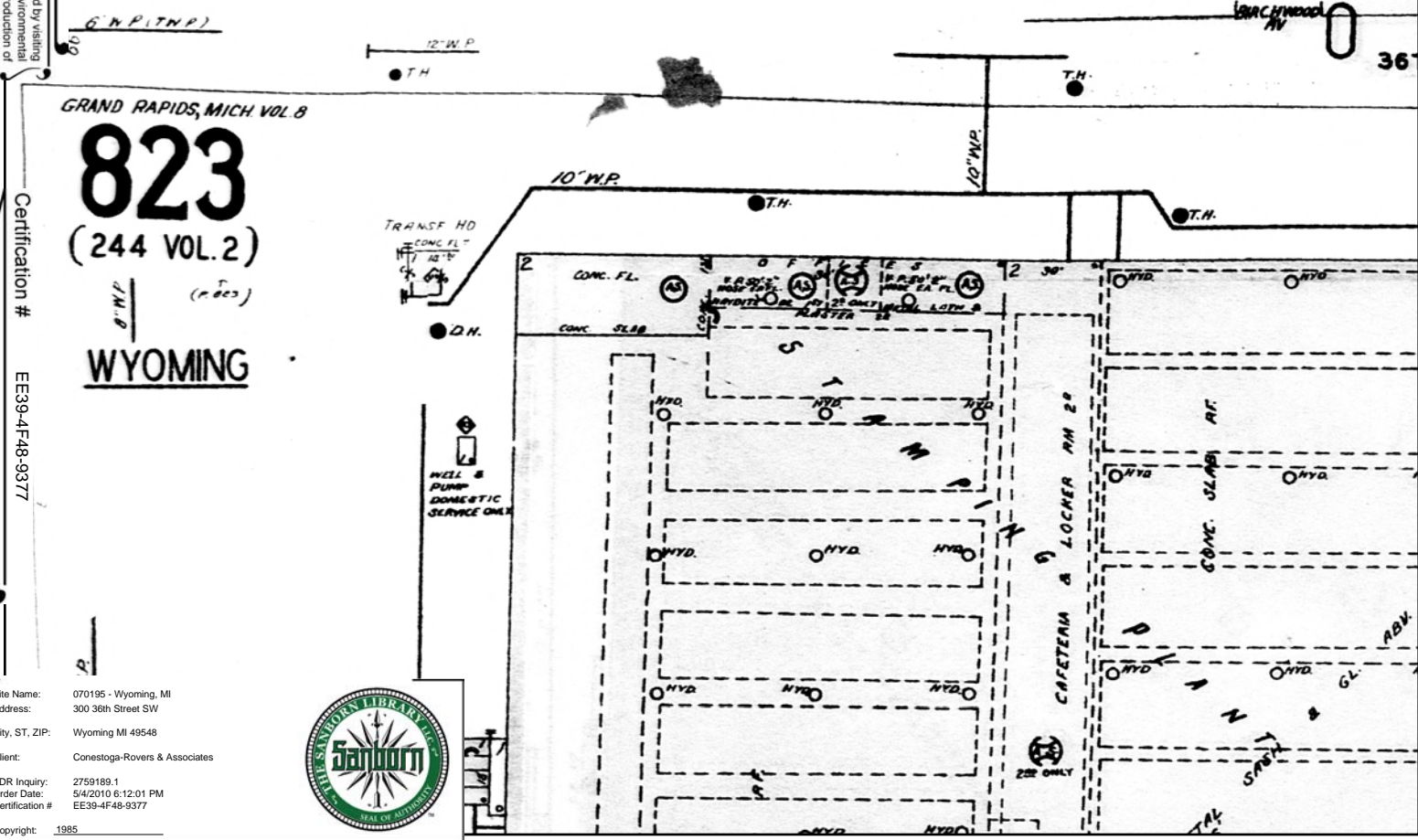
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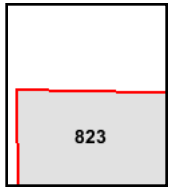
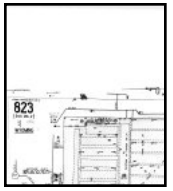
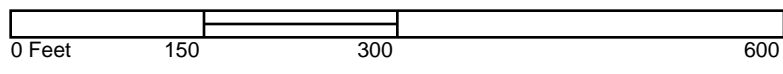
GRAND RAPIDS, MICH VOL 8
823
 (244 VOL. 2)
 WYOMING

Certification # EE39-4F48-9377

Site Name: 070195 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2759189.1
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 Copyright: 1985



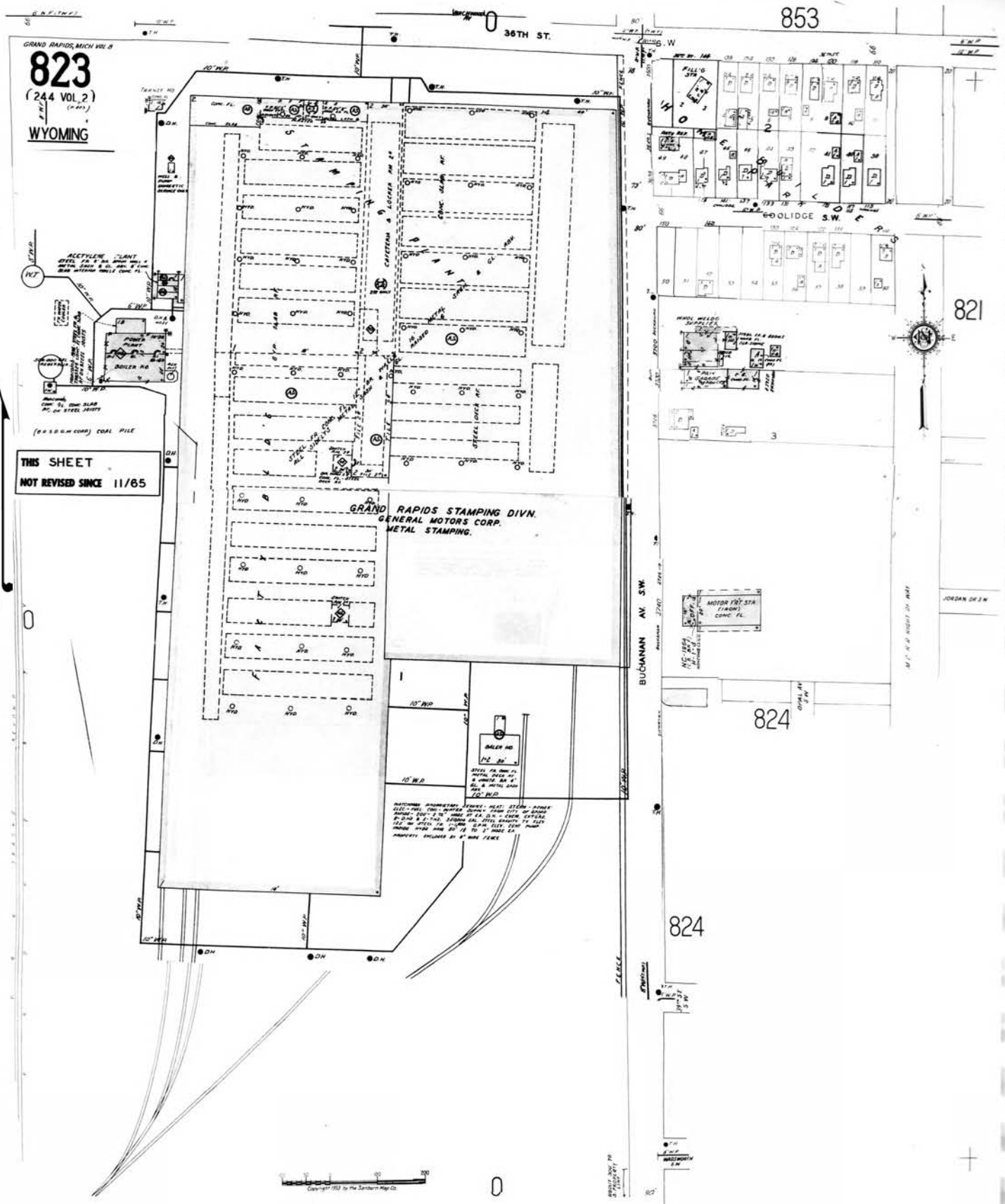
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Volume 7, Sheet 823
 Volume 7, Sheet 824
 Volume 7, Sheet 853



1966 Certified Sanborn Map



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 EDR Inquiry: 2759189.1
 Order Date: 5/4/2010 6:12:01 PM
 Certification #: EE39-4F48-9377
 Copyright: 1966



1966 Certified Sanborn Map

GRAND RAPIDS, MICH. VOL. 8
824
(244VOL.2)
"NE"
MAR. 1953

WYOMING T.W.E.



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823

822

BUCHANAN AV S.W.

OPAL AV S.W.

39TH ST S.W.

WADSWORTH S.W.

823

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Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2759189.1
Order Date: 5/4/2010 6:12:01 PM
Certification #: EE39-4F48-9377
Copyright: 1966



1966 Certified Sanborn Map

(C-8532-R)
GRAND RAPIDS, MICH. VOL. 8

853

WYOMING

FEB. 1960

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NOT REVISED SINCE 11/65

852

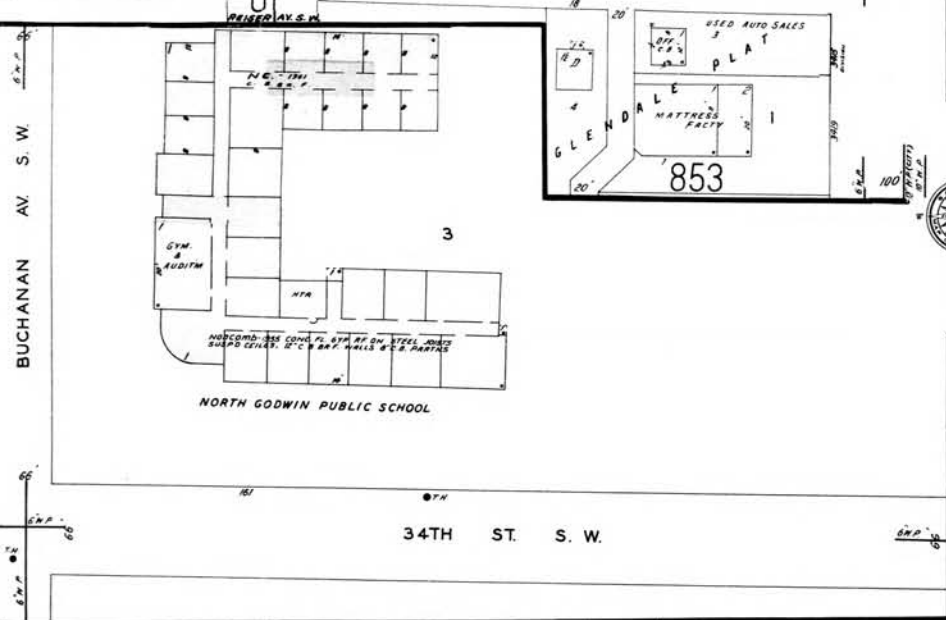
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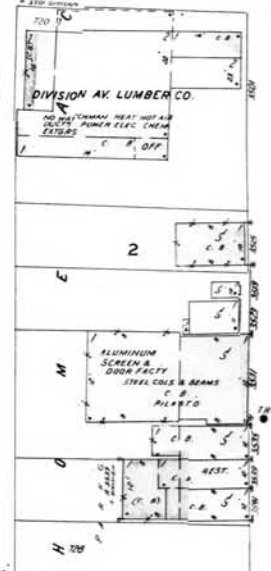
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S. DIVISION AV.
728

35TH ST. S. W.

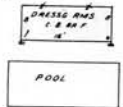


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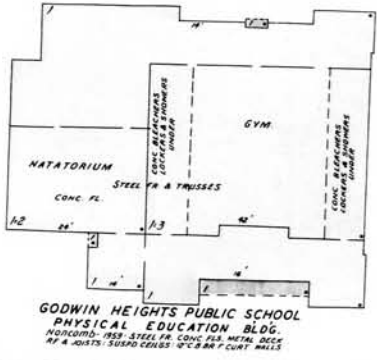


S. DIVISION AV.
728

REISER AV. S. W.



15A



GODWIN HEIGHTS PUBLIC SCHOOL
PHYSICAL EDUCATION BLDG.

SCHOOL BOARD OFFICE

36TH ST. S. W.

823

821

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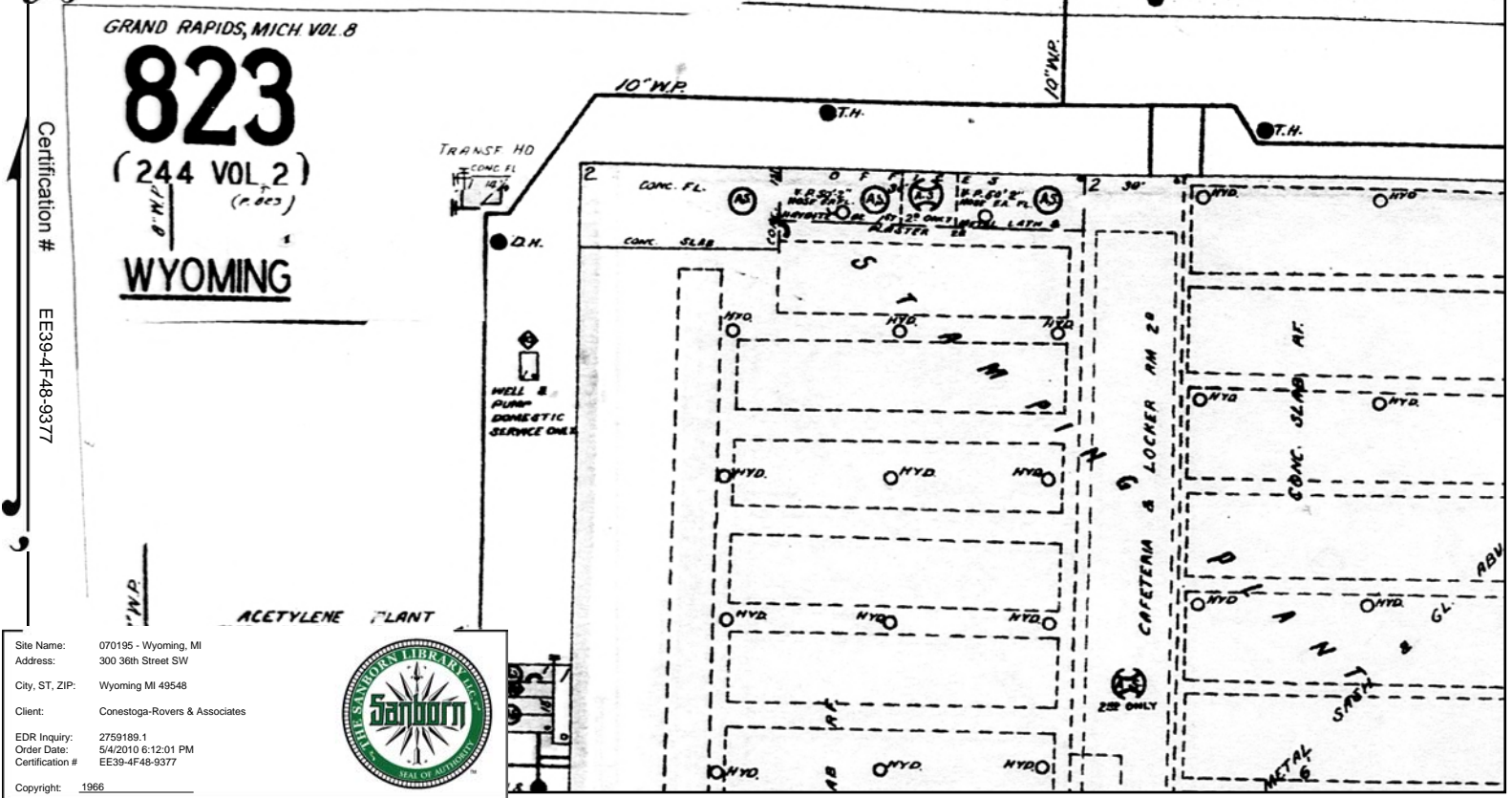
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Site Name: 070195 - Wyoming, MI
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City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2759189.1
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Copyright: 1966



1966 Certified Sanborn Map

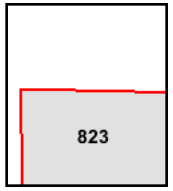
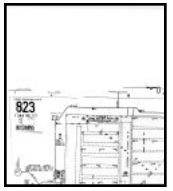
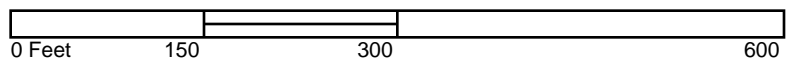
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 EDR Inquiry: 2759189.1
 Order Date: 5/4/2010 6:12:01 PM
 Certification #: EE39-4F48-9377
 Copyright: 1966



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Volume 7, Sheet 823
 Volume 7, Sheet 824
 Volume 7, Sheet 853



1953 Certified Sanborn Map

GRAND RAPIDS, MICH VOL #

823
(244 VOL. 2)

GODWIN HEIGHTS
WYOMING TWP

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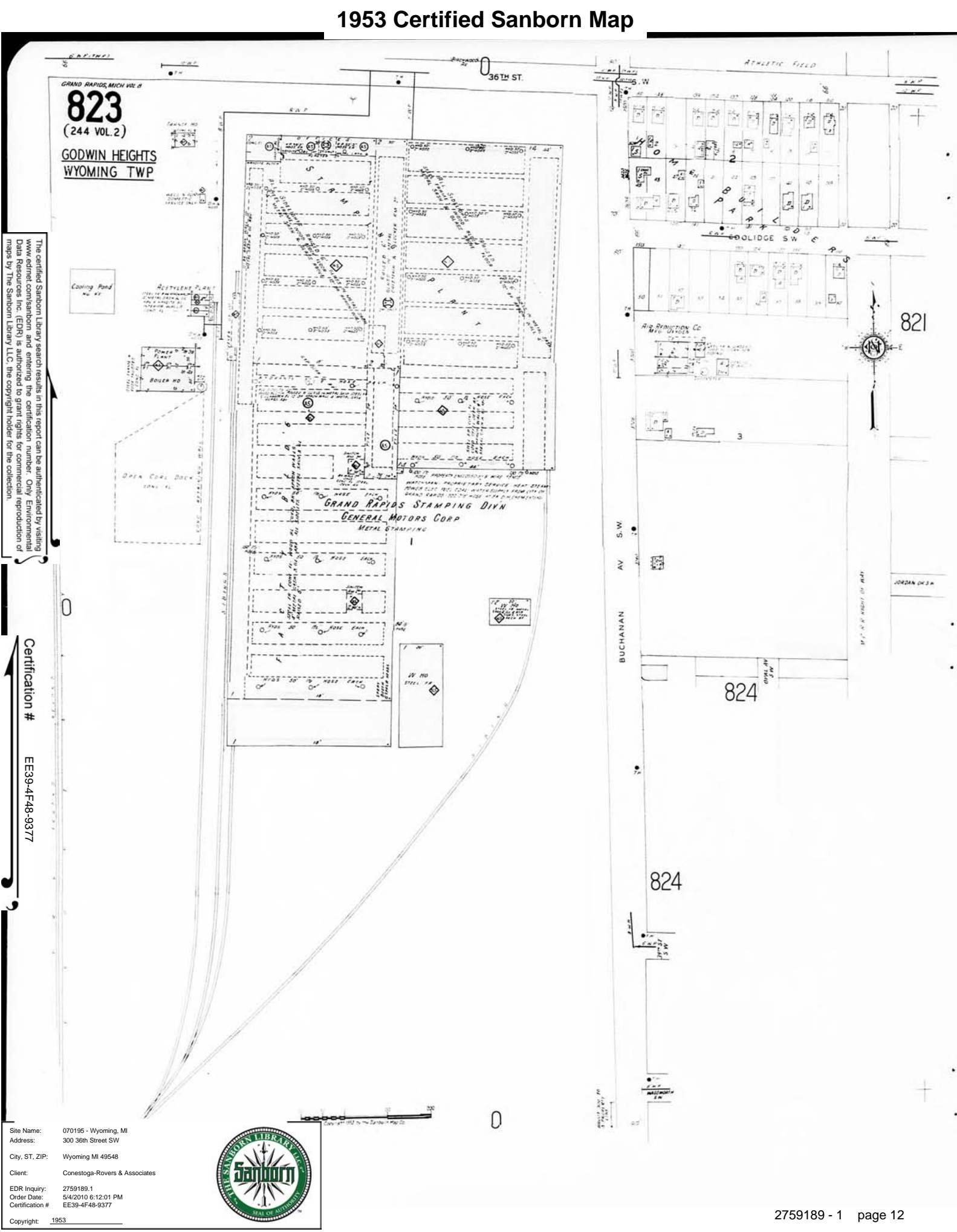
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Address: 300 36th Street SW
City, ST, ZIP: Wyoming MI 49548
Client: Conestoga-Rovers & Associates
EDR Inquiry: 2759189.1
Order Date: 5/4/2010 6:12:01 PM
Certification #: EE39-4F48-9377



Copyright: 1953



821

824

824

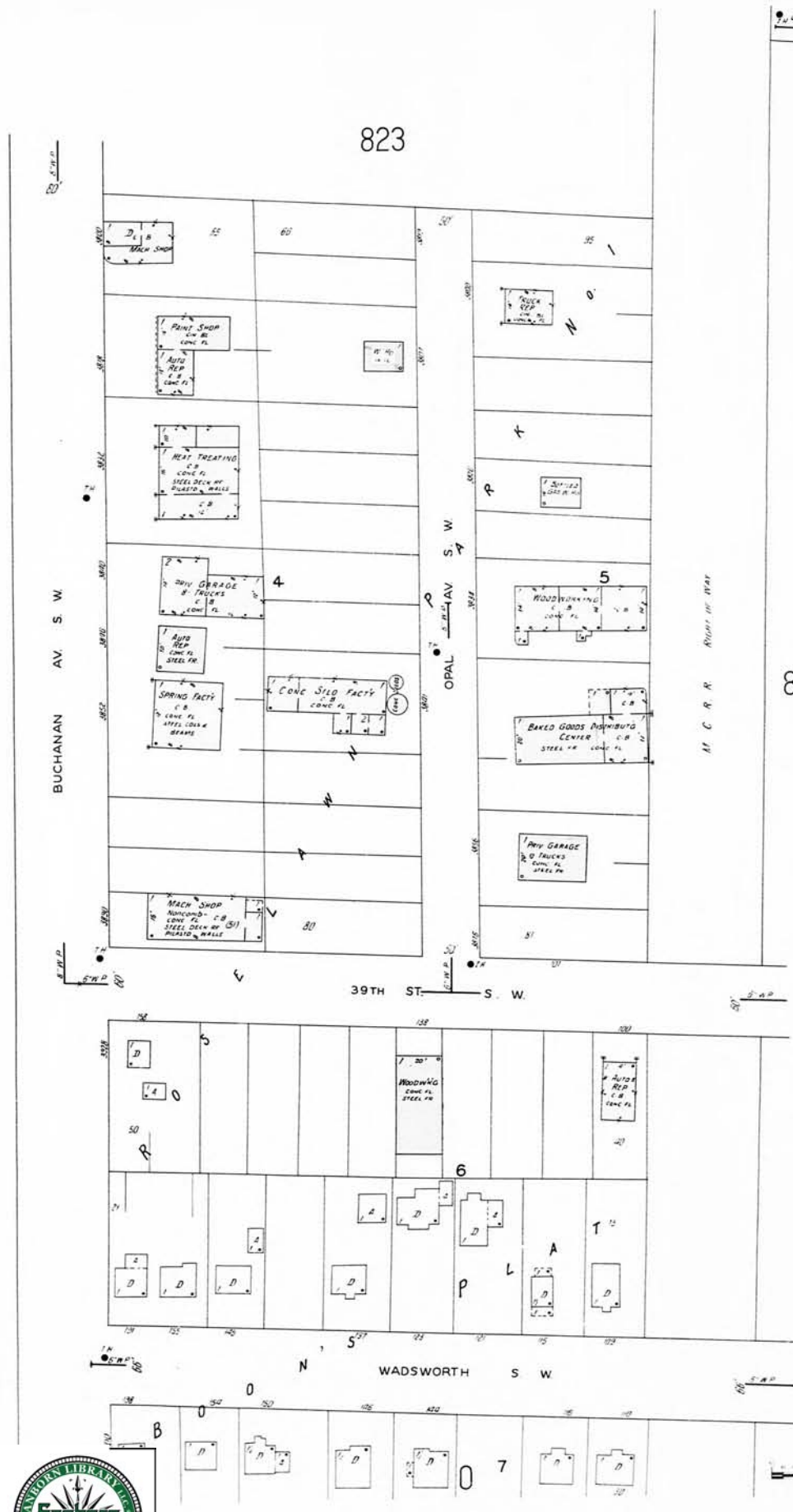
1953 Certified Sanborn Map

JORDAN DR
S W GRAND RAPIDS, MICH VOL 3
824
(244VOL.2)
"NE"
MAR. 1953
WYOMING TWP



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Certification # EE39-4F48-9377
Copyright: 1953

1953 Certified Sanborn Map

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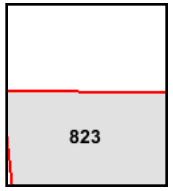
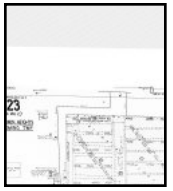
RAPIOS, MICH VOL 8
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 VOL. 2)
 Certification # **VIN HEIGHTS**
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EE39-4F48-9377

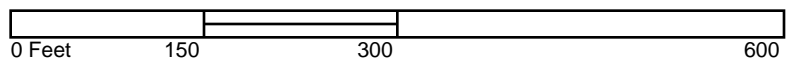
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 Copyright: 1953



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Volume 7, Sheet 823
 Volume 7, Sheet 824

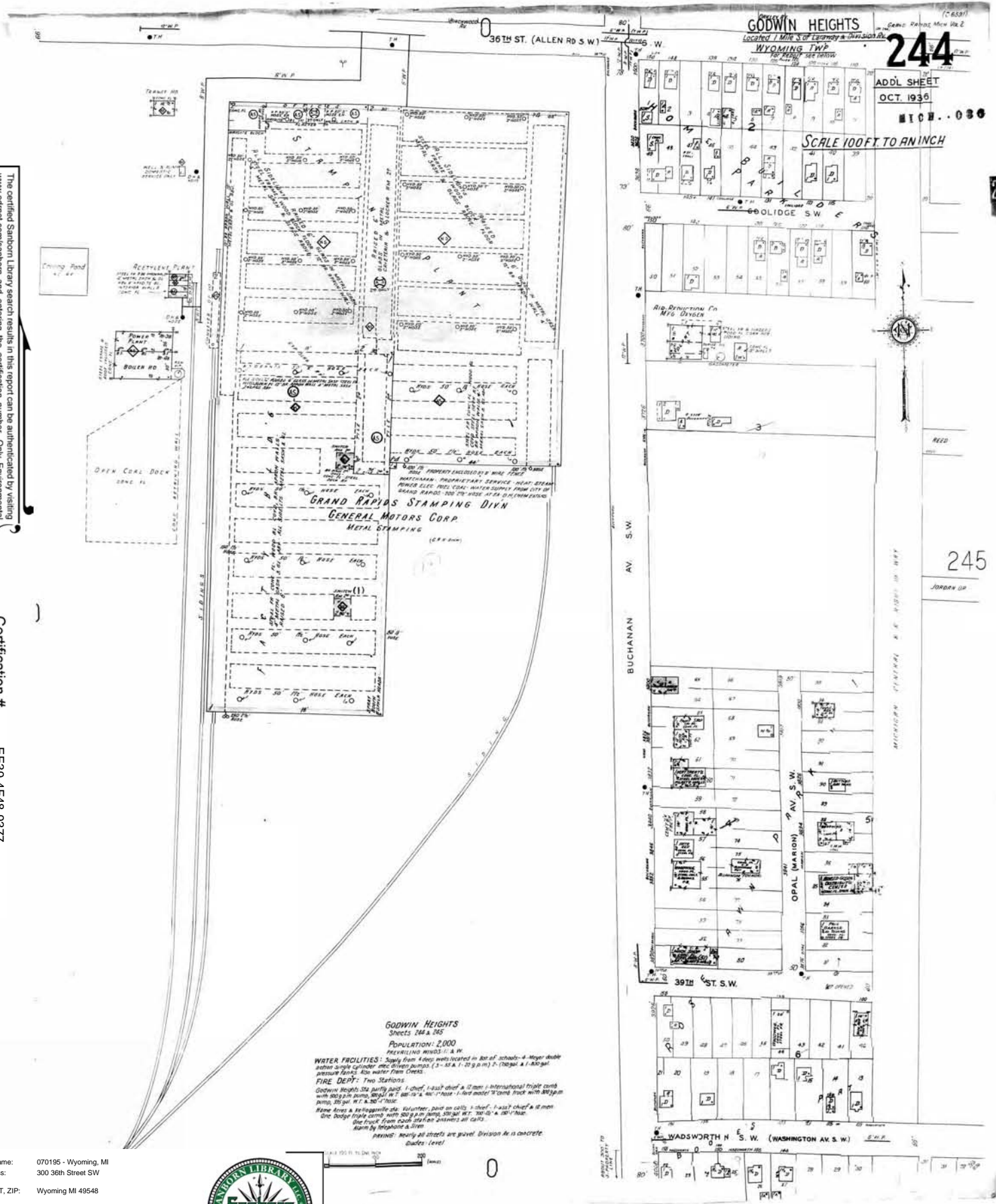


1950 Certified Sanborn Map

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Certification # EE39-4F48-9377

Site Name: 070195 - Wyoming, MI
 Address: 300 36th Street SW
 City, ST, ZIP: Wyoming MI 49548
 Client: Conestoga-Rovers & Associates
 EDR Inquiry: 2759189.1
 Order Date: 5/4/2010 6:12:01 PM
 Certification #: EE39-4F48-9377
 Copyright: 1950



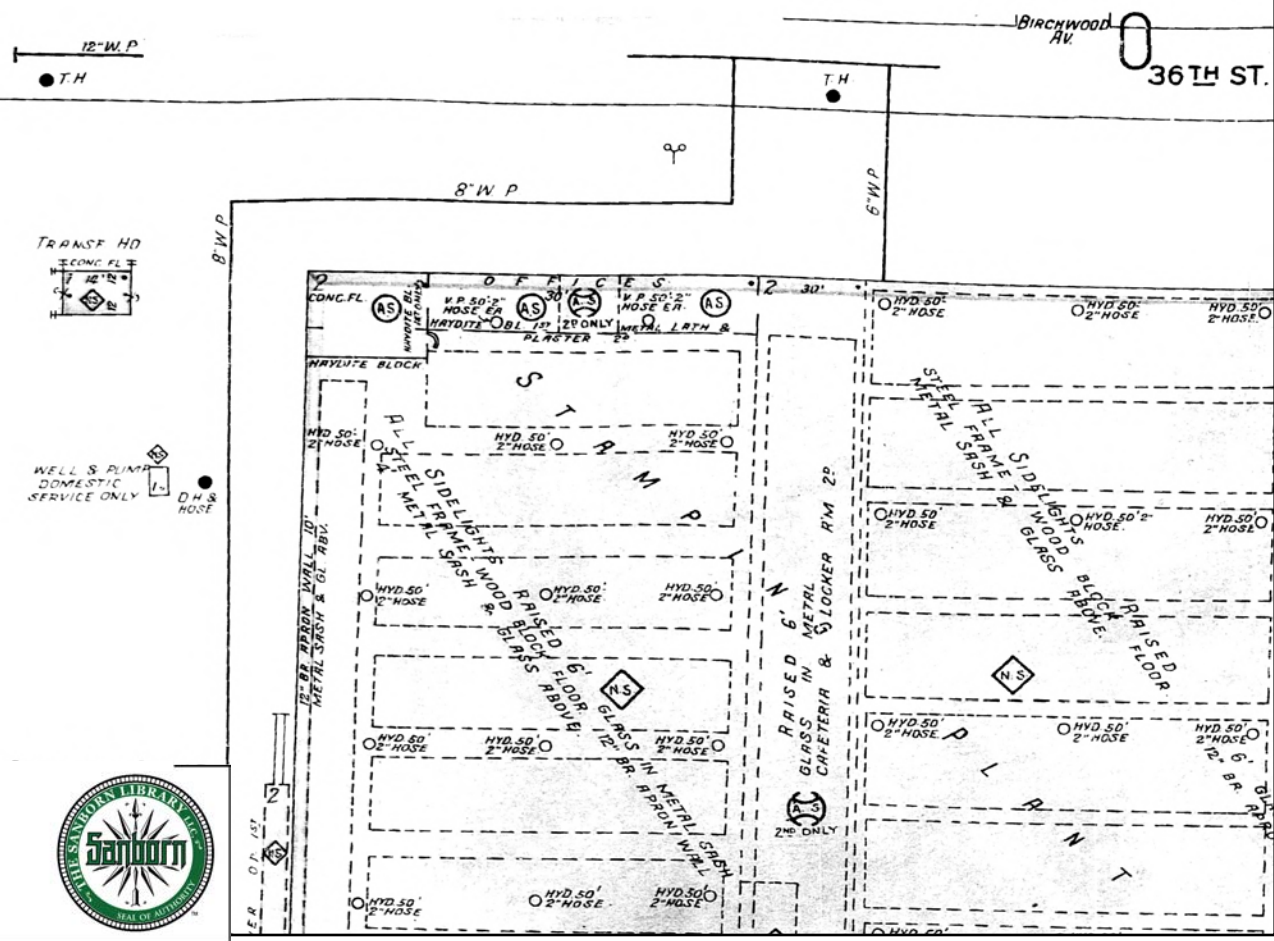
GODWIN HEIGHTS
 Sheets 244 & 245
 POPULATION: 2,000
 PREVIOUSLY MIXED U. & R.
WATER FACILITIES: Supply from 4 deep wells located in lot of school - 4 Meyer double action single cylinder mec driven pumps (3" x 8" A. 1-20 g.p.m.) 2-180 gal. & 1-80 gal. pressure tanks. Also water from Creek.
FIRE DEPT: Two Stations
 Godwin Heights Sta partly paid. 1 chief, 1 ass't chief & 12 men. 1 international triple comb with 300 g.p.m. pump, 300 gal. wt. 100' dia. & 100' high.
 Howe Ave & 24 Regentville sta. Volunteer, paid on call. 1 chief & 12 men.
 One Dodge triple comb with 300 g.p.m. pump, 300 gal. wt. 100' dia. & 100' high.
 One truck from each sta has 250 lbs. all caps.
 Alarm by telephone & siren.
 Streets: nearly all streets are gravel. Division A is concrete.
 Grades: Level

1950 Certified Sanborn Map

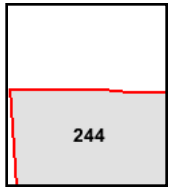
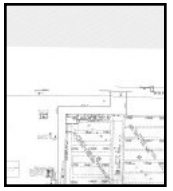
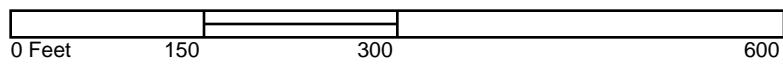
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 Copyright: 1950



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 2, Sheet 244



APPENDIX I
AERIAL PHOTOGRAPHS



070195 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2751676.5
April 26, 2010

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography April 26, 2010

Target Property:

300 36th Street SW

Wyoming, MI 49548

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	Aerial Photograph. Scale: 1"=500'	Flight Year: 1938	AAA
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950 Photo Not Available - Image missing from collection	PMA
1960	Aerial Photograph. Scale: 1"=500'	Flight Year: 1960	CSS
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	ASCS
1978	Aerial Photograph. Scale: 1"=600'	Flight Year: 1978	ASCS
1993	Aerial Photograph. Scale: 1"=600'	Flight Year: 1993	NAPP
1997	Aerial Photograph. Scale: unknown	Flight Year: 1997	FSA
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2751676.5

YEAR: 1938

| = 500'





INQUIRY #: 2751676.5

YEAR: 1960

| = 500'





INQUIRY #: 2751676.5

YEAR: 1967

|—————| = 500'





INQUIRY #: 2751676.5

YEAR: 1978

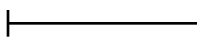
|—————| = 600'





INQUIRY #: 2751676.5

YEAR: 1993

 = 600'





INQUIRY #: 2751676.5

YEAR: 1997

| = unknown



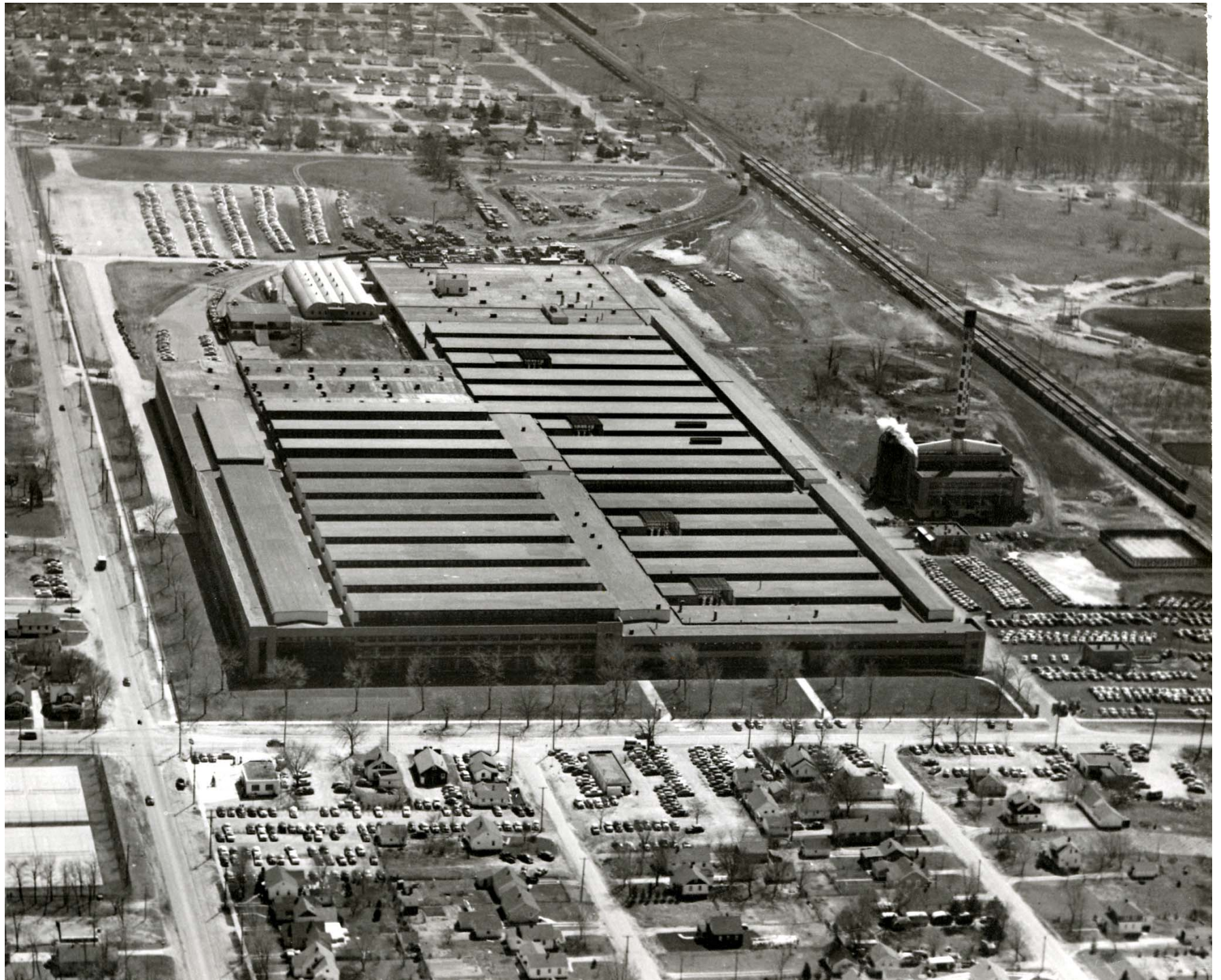


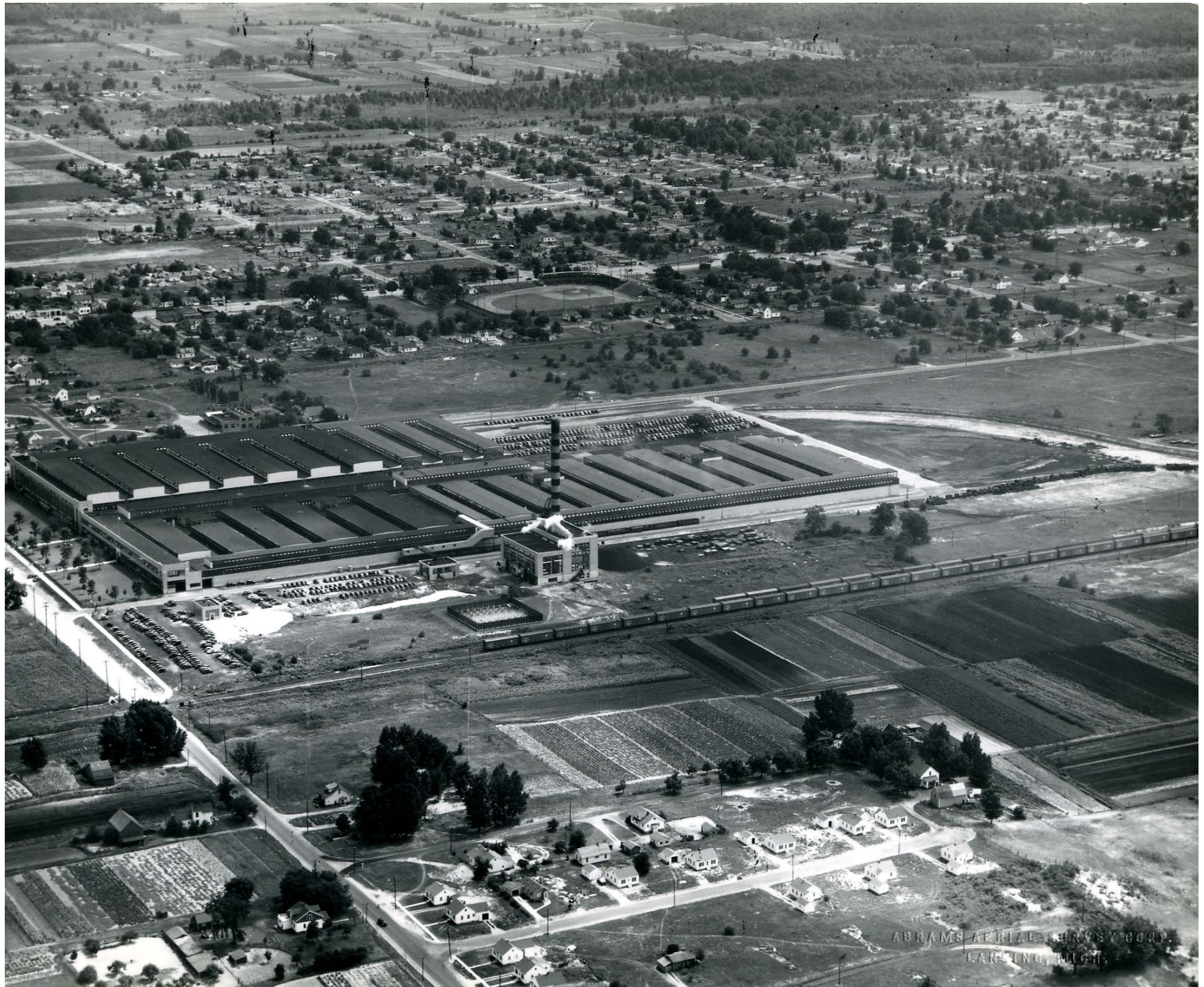
INQUIRY #: 2751676.5

YEAR: 2005

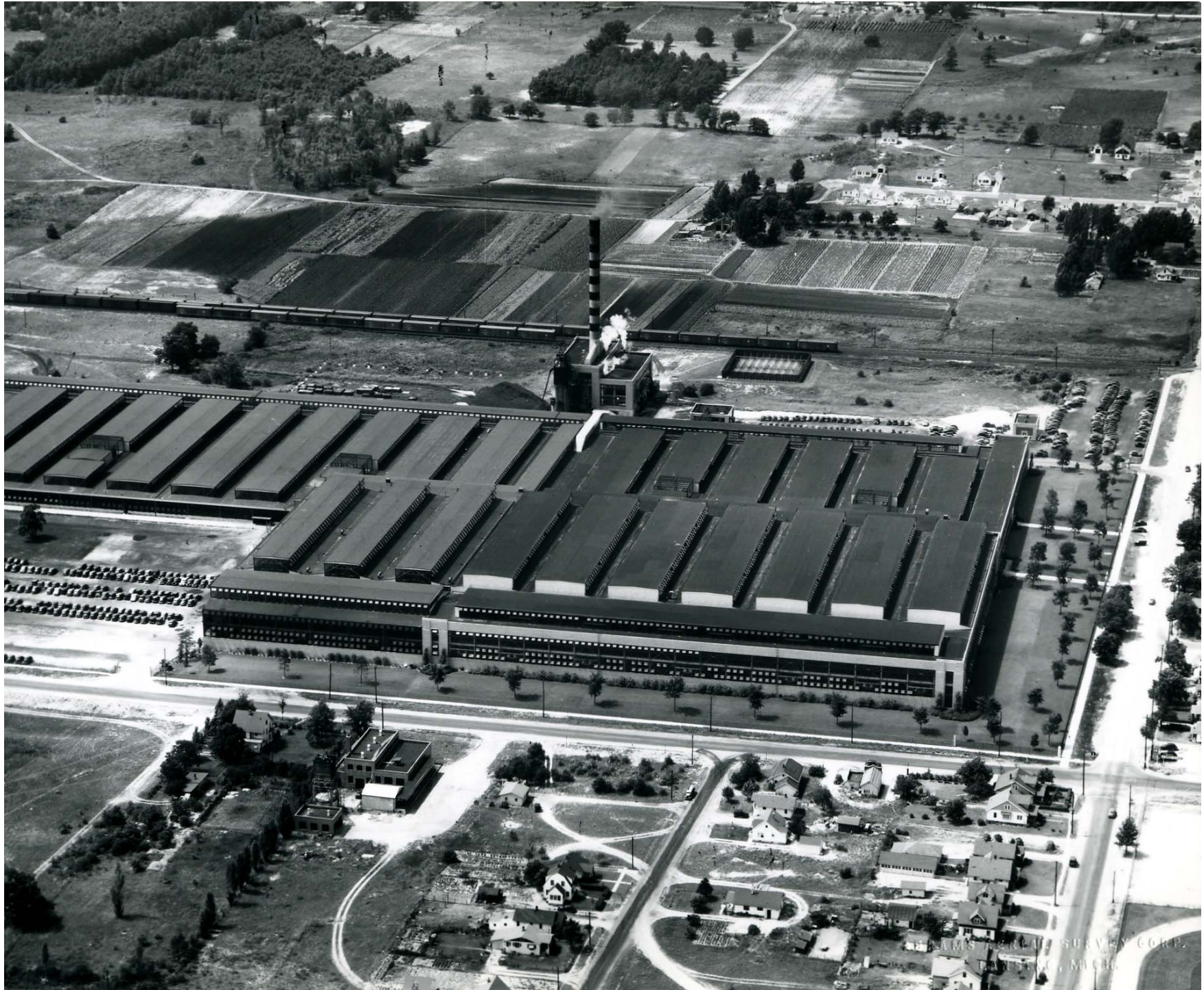
| = 604'







ABRAMS AERIAL SURVEY CORP.
LANSING, MICH.



AMERICAN SURVEYING CORP.
ANN ARBOR, MICH.



ADAMS AERIAL SURVEY CORP.
LANSING, MICH.

APPENDIX J
CITY DIRECTORY SEARCH

070195 - Wyoming, MI

300 36th Street SW
Wyoming, MI 49548

Inquiry Number: 2751676.6
April 26, 2010

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2009	Polk's City Directory	X	X	X	-
2004	Polk's City Directory	X	X	X	-
1999	Polk's City Directory	X	X	X	-
1995	Polk's City Directory	X	X	X	-
1990	Polk's City Directory	X	X	X	-
1985	Polk's City Directory	X	X	X	-
1980	Polk's City Directory	X	X	X	-
1975	Polk's City Directory	X	X	X	-
1971	Polk's City Directory	X	X	X	-
1966	Polk's City Directory	X	X	X	-
1961	Polk's City Directory	X	X	X	-
1957	Polk's City Directory	X	X	X	-
1953	Polk's City Directory	X	X	X	-
1948	Polk's City Directory	X	X	X	-
1943	Polk's City Directory	-	X	X	-
1938	Polk's City Directory	X	X	X	-
1933	Polk's City Directory	-	X	X	-
1928	Polk's City Directory	-	X	X	-
1923	Polk's City Directory	-	X	X	-
1919	Polk's City Directory	-	X	X	-
1914	Polk's City Directory	-	X	X	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

300 36th Street SW
Wyoming, MI 49548

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	American Food & Vending (vending mach.)	Polk's City Directory
	EDS (internet serv.)	Polk's City Directory
	GM Grand Rapids Metal Ctr. (auto stampings)	Polk's City Directory
	IV, Inc. (nonclassified)	Polk's City Directory
	Regional Personnel Workers Com (personal consultants)	Polk's City Directory
	UAW-GM Stamping (labor org.)	Polk's City Directory
2004	EDS (nonclassified)	Polk's City Directory
	General Motors Corp. (auto stampings)	Polk's City Directory
	Regional Personnel Workers Com (personal consultants)	Polk's City Directory
	UAW-GM Stamping (labor org.)	Polk's City Directory
1999	Electronic Data Systems Corp. (data proc.)	Polk's City Directory
	General Motors Corp. (mtr. vhcl. prts. acc.)	Polk's City Directory
	Restaura (eating place)	Polk's City Directory
	United Auto Aerospace Agriculture (labor org.)	Polk's City Directory
1995	Cadillac Luxury Car Division (auto parts mfrs.)	Polk's City Directory
1990	Chevrolet Pontiac Canada Group Div. General Motors (auto parts mfrs)	Polk's City Directory
1985	Fisher Body Div. General Motors Mtl. Fab. Plnt. (auto parts mfrs)	Polk's City Directory
1980	Fisher Body Div. General Motors Mtl. Fab. Plnt. (auto parts mfrs)	Polk's City Directory
1975	Fisher Body Div. General Motors GR Plant No. 1 (auto parts mfrs)	Polk's City Directory
1971	Fisher Body Div. General Motors GR Plant No. 1 (auto parts mfrs)	Polk's City Directory
1966	Fisher Body Div. General Motors GR Plant No. 1	Polk's City Directory
1961	Fisher Body Div. General Motors GR Plant No. 1	Polk's City Directory
1957	Fisher Body Div. General Motors Corp.	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1953	Fisher Body Div. General Motors Corp.	Polk's City Directory
1948	Fisher Body Div. General Motors Corp.	Polk's City Directory
1938	General Motors Corp. G.R. Stamping Div.	Polk's City Directory

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

36th Street SW

36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
2004	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1999	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1995	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1990	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1985	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1980	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1975	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1971	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1966	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1966	-No Other Addresses Listed 200-300 Block 36th Street SW	Polk's City Directory
1961	-No Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory
1957	-No Other Addresses Listed Between Railroad Crossing & Clay Avenue SW	Polk's City Directory

209 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	Residential	Polk's City Directory
1957	Residential	Polk's City Directory
1953	Residential	Polk's City Directory
1948	Residential	Polk's City Directory

211 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	Stamper's Federal Credit Union	Polk's City Directory
1999	Stamper's Federal Credit Union	Polk's City Directory
1995	Stamper's Federal Credit Union	Polk's City Directory
1990	Stamper's Federal Credit Union	Polk's City Directory
1985	Stamper's Federal Credit Union	Polk's City Directory
1980	Stamper's Federal Credit Union	Polk's City Directory
1975	Stamper's Federal Credit Union	Polk's City Directory
1971	Stamper's Federal Credit Union	Polk's City Directory
1966	Stamper's Federal Credit Union	Polk's City Directory
1961	Stamper's Federal Credit Union	Polk's City Directory
1957	Stamper's Federal Credit Union	Polk's City Directory
1953	UAW-CIO Lcl. 730	Polk's City Directory
1948	UAW-CIO Lcl. 730	Polk's City Directory

229 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1985	Residential	Polk's City Directory
1980	Vacant	Polk's City Directory
1975	Raenell Press (printers)	Polk's City Directory
1971	Raenell Press (printers)	Polk's City Directory
1966	Vacant Store	Polk's City Directory
1961	Gem Restr.	Polk's City Directory
1957	Gem Restr.	Polk's City Directory
1953	Leta Louks (restaurant)	Polk's City Directory
1948	Leta Louks (restaurant)	Polk's City Directory

FINDINGS

236 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1953	Residential	Polk's City Directory

237 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	Vacant	Polk's City Directory
1953	Campbell's Cafeteria	Polk's City Directory

239 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1948	Vacant	Polk's City Directory

241 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1948	Andrew Kacos (restr.)	Polk's City Directory

255 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1953	Residential	Polk's City Directory
1948	Residential	Polk's City Directory

259 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1953	Residential	Polk's City Directory
1948	Residential	Polk's City Directory

263 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	Residential	Polk's City Directory
1957	Residential	Polk's City Directory
1948	No Return	Polk's City Directory

333 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	CLCD (parking lot)	Polk's City Directory
1990	CPC Group (parking lot)	Polk's City Directory
1985	Fisher Body (parking lot)	Polk's City Directory
1980	Fisher Body (parking lot)	Polk's City Directory
1975	Fisher Body (parking lot)	Polk's City Directory
1971	Fisher Body (parking lot)	Polk's City Directory
1966	Helmus Garage & Body Shop	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	Helmus Garage & Body Shop	Polk's City Directory
1957	Helmus Garage & Body Shop	Polk's City Directory
1953	Helmus Garage & Body Shop	Polk's City Directory
1948	Helmus Garage & Body Shop	Polk's City Directory

415 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	Residential	Polk's City Directory
1953	Residential	Polk's City Directory
1948	Albert G. Hooyer (mkt. gardener)	Polk's City Directory

416 36th Street SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1953	Residential	Polk's City Directory
1948	Residential	Polk's City Directory

36th Street SW AKA Allen Road SW

205 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

207 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

209 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

229 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory
1928	Residential	Polk's City Directory

FINDINGS

239 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

241 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Andrew Kacos (restr.)	Polk's City Directory

245 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1928	Residential	Polk's City Directory

255 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory
1928	Residential	Polk's City Directory

259 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory
1928	Residential	Polk's City Directory

263 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

415 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory
1933	Residential	Polk's City Directory

416 36th Street SW AKA Allen Road SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1938	Residential	Polk's City Directory

FINDINGS

Buchanan Avenue SW

Buchanan Avenue SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1943	-No Addresses Listed Beyond 2700 Block Buchanan Avenue SW	Polk's City Directory
1923	-No Addresses Listed Beyond 2300 Block Buchanan Avenue SW	Polk's City Directory
1919	-No Addresses Listed Beyond 2300 Block Buchanan Avenue SW	Polk's City Directory
1914	-No Addresses Listed Beyond 2300 Block Buchanan Avenue SW	Polk's City Directory

3565 Buchanan Avenue SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1980	Vacant	Polk's City Directory
1975	Lang Service Center (gas station)	Polk's City Directory
1971	Groen's Car Care Center (gas station)	Polk's City Directory
1966	Lang's Service Center (gas station)	Polk's City Directory
1961	Lang's Standard Service (gas station)	Polk's City Directory
1957	Luke's Standard Service (gas station)	Polk's City Directory
1953	Moorhead Standard Service (gas station)	Polk's City Directory

3636 Buchanan Avenue SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Grand Rapids Solar Control (glass coating & tinting)	Polk's City Directory
	Tint Factory (glass coating & tinting)	Polk's City Directory
2004	All Car Wrecker Svc.	Polk's City Directory
	Tint Factory (glass coating & tinting)	Polk's City Directory
1999	Tint Factory (auto svcs.)	Polk's City Directory
1995	Tint Factory (window tinting)	Polk's City Directory
1980	Jack's Tune-Up Service (auto repairs)	Polk's City Directory
1975	Lang's Carburetor Service (auto repairs)	Polk's City Directory
1971	Lang's Carburetor Service (auto repairs)	Polk's City Directory
	Norm's Auto Service (auto repairs)	Polk's City Directory
1966	Lang's Carburetor Service (auto repairs)	Polk's City Directory
1961	Meyer Hydraulics	Polk's City Directory
1957	Hydraulic Jack Serv. Co. (machy.)	Polk's City Directory
1953	Hydraulic Jack Serv. Co. (machy.)	Polk's City Directory
1948	John Marsman (filling station)	Polk's City Directory
1938	Don's Service Sta. (filling station)	Polk's City Directory

FINDINGS

STREET NOT LISTED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not listed in the research source.

Street Researched

Street Not Listed in Research Source

36th Street SW	1943, 1923, 1919, 1914
36th Street SW AKA Allen Road SW	1923, 1919, 1914

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched

Address Not Listed in Research Source

300 36th Street SW	1933, 1928
--------------------	------------

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

Address Not Listed in Research Source

36th Street SW	No Years Found
Buchanan Avenue SW	No Years Found
205 36th Street SW AKA Allen Road SW	1928
207 36th Street SW AKA Allen Road SW	1928
209 36th Street SW	No Years Found
209 36th Street SW AKA Allen Road SW	1928
211 36th Street SW	No Years Found
211 36th Street SW AKA Allen Road SW	1938, 1933, 1928
229 36th Street SW	No Years Found
229 36th Street SW AKA Allen Road SW	No Years Found
236 36th Street SW	1948
236 36th Street SW AKA Allen Road SW	1938, 1933, 1928
237 36th Street SW	1948

FINDINGS

Address Researched

Address Not Listed in Research Source

237 36th Street SW AKA Allen Road SW	1938, 1933, 1928
239 36th Street SW	No Years Found
239 36th Street SW AKA Allen Road SW	1928
241 36th Street SW	No Years Found
241 36th Street SW AKA Allen Road SW	1933, 1928
245 36th Street SW AKA Allen Road SW	No Years Found
255 36th Street SW	No Years Found
255 36th Street SW AKA Allen Road SW	No Years Found
259 36th Street SW	No Years Found
259 36th Street SW AKA Allen Road SW	No Years Found
263 36th Street SW	1953
263 36th Street SW AKA Allen Road SW	1928
333 36th Street SW	No Years Found
333 36th Street SW AKA Allen Road SW	1938, 1933, 1928
3565 Buchanan Avenue SW	1948, 1943, 1938, 1933, 1928, 1923, 1919, 1914
3636 Buchanan Avenue SW	1990, 1985, 1943, 1933, 1928, 1923, 1919, 1914
415 36th Street SW	No Years Found
415 36th Street SW AKA Allen Road SW	1928
416 36th Street SW	No Years Found
416 36th Street SW AKA Allen Road SW	1933, 1928

070195 - Wyoming, MI

3838 Clay Avenue SW
Wyoming, MI 49548

Inquiry Number: 2759154.1
May 05, 2010

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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2009 Enhancements to EDR City Directory Abstract

New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2009	Polk's City Directory	-	X	X	-
2004	Polk's City Directory	-	X	X	-
1999	Polk's City Directory	-	X	X	-
1995	Polk's City Directory	-	X	X	-
1990	Polk's City Directory	-	X	X	-
1985	Polk's City Directory	-	X	X	-
1980	Polk's City Directory	-	X	X	-
1975	Polk's City Directory	-	X	X	-
1971	Polk's City Directory	-	X	X	-
1966	Polk's City Directory	-	X	X	-
1961	Polk's City Directory	-	X	X	-
1957	Polk's City Directory	-	X	X	-
1953	Polk's City Directory	-	X	X	-
1948	Polk's City Directory	-	X	X	-
1943	Polk's City Directory	-	-	-	-
1938	Polk's City Directory	-	-	-	-
1933	Polk's City Directory	-	-	-	-
1928	Polk's City Directory	-	-	-	-
1923	Polk's City Directory	-	-	-	-
1919	Polk's City Directory	-	-	-	-
1914	Polk's City Directory	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
3600 Buchanan Avenue SW	Client Entered	
3800 Buchanan Avenue SW	Client Entered	X
4100 Buchanan Avenue SW	Client Entered	
3600 Clay Avenue SW	Client Entered	
4100 Clay Avenue SW	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

3838 Clay Avenue SW
Wyoming, MI 49548

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Buchanan Avenue SW

3800 Buchanan Avenue SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Tracer Tool & Die Co. (molds)	Polk's City Directory
2004	Tracer Tool & Die Co. (molds)	Polk's City Directory
1999	No Return	Polk's City Directory
1995	Tracer Tool & Die Co., Inc.	Polk's City Directory
1990	Tracer Tool & Die Co., Inc.	Polk's City Directory
1985	Tracer Tool & Die Co., Inc.	Polk's City Directory
1980	Tracer Tool & Die Co., Inc.	Polk's City Directory
1975	Tracer Tool & Die Co., Inc.	Polk's City Directory
1971	Tracer Tool & Die Co., Inc.	Polk's City Directory
1966	Tracer Tool & Die Co., Inc.	Polk's City Directory
1961	Tracer Tool & Die Co., Inc. (mfrs.)	Polk's City Directory
1957	Concial Tool Co. (mfrs.)	Polk's City Directory
1953	Concial Tool Co. (mfrs.)	Polk's City Directory
1948	Conical Tool Co. (mfrs.)	Polk's City Directory

Clay Avenue SW

4000 Clay Avenue SW

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Consumers Power Co. (elec. companies)	Polk's City Directory
2004	24 Seven Tower Cleaning (janitor serv.)	Polk's City Directory
	Consumers Power Co. (mktg. program & serv.)	Polk's City Directory
1999	Consumers Power Co. (elec. svcs.)	Polk's City Directory
1995	Consumers Power Co.	Polk's City Directory
1990	Consumers Power Co.	Polk's City Directory
1985	Consumers Power Co.	Polk's City Directory
1980	Consumers Power Co.	Polk's City Directory
1975	Consumers Power Co.	Polk's City Directory
1971	Consumers Power Co.	Polk's City Directory

FINDINGS

STREET NOT LISTED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not listed in the research source.

Street Researched

Clay Avenue SW

Street Not Listed in Research Source

1943, 1938, 1933, 1928, 1923, 1919, 1914

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched

3838 Clay Avenue SW

Address Not Listed in Research Source

2009, 2004, 1999, 1995, 1990, 1985, 1980, 1975, 1971, 1966, 1961, 1957, 1953, 1948

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

3600 Buchanan Avenue SW

3600 Clay Avenue SW

3800 Buchanan Avenue SW

4000 Clay Avenue SW

4100 Buchanan Avenue SW

4100 Clay Avenue SW

Address Not Listed in Research Source

2009, 2004, 1999, 1995, 1990, 1985, 1980, 1975, 1971, 1966, 1961, 1957, 1953, 1948, 1943, 1938, 1933, 1928, 1923, 1919, 1914

2009, 2004, 1999, 1995, 1990, 1985, 1980, 1975, 1971, 1966, 1961, 1957, 1953, 1948

1943, 1938, 1933, 1928, 1923, 1919, 1914

1966, 1961, 1957, 1953, 1948

2009, 2004, 1999, 1995, 1990, 1985, 1980, 1975, 1971, 1966, 1961, 1957, 1953, 1948, 1943, 1938, 1933, 1928, 1923, 1919, 1914

2009, 2004, 1999, 1995, 1990, 1985, 1980, 1975, 1971, 1966, 1961, 1957, 1953, 1948

APPENDIX K
DOCUMENTATION



For DEQ Use Only	
ITS #	_____
Site ID #	_____

NOTICE OF MIGRATION OF CONTAMINATION (FORM EQP4482)

(Under the authority of Part 201, 1994 Act 451, as amended, and the Rules promulgated thereunder)

An owner or operator of property that is a facility who has knowledge that a hazardous substance is emanating from, has emanated from, or is likely to be emanating from the property and migrating beyond the boundaries of the property that he or she owns or operates is required under R 299.51017(1) to notify the Michigan Department of Environmental Quality ("DEQ"), unless he or she is exempt from MCL 324.20107a (see MCL 324.20107a(4) for exemptions). With regard to conditions known to the owner or operator prior to March 11, 1999 (the effective date of R 299.51017), this notice must be provided to the DEQ by June 9, 1999 (90 days after the effective date). With regard to conditions that were not known to the owner or operator prior to March 11, 1999, the report must be submitted to the DEQ within 45 days after the owner or operator has knowledge that hazardous substances have migrated, or are likely to have migrated, to or beyond the boundary of his or her property in reportable concentrations. Use of this form is mandatory for the notice required by R 299.51017(1). Completing this notice in no way relieves a person who is subject to MCL 324.20114 from the responsibility to undertake required response activities.

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is attached. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Rule 1017 Notice."

Please answer the following questions as completely as possible.

1. Name and address of owner or operator making the report. 2. Status relative to the property.
(Check one or both, as applicable.)

General Motors Corporation
100 Renaissance Center
PO Box 431301
Detroit, MI
48265

Owner
 Operator

3. Name and telephone number of contact person for owner or operator.

Mr. Tobe Allen
(616) 246-2870



4. Address/location of the property that is the subject of this notice (i.e., owned or operated by the person identified in item #1).

GM Grand Rapids Metal Fabrication Plant
300 36th Street SW
Grand Rapids, MI
49548

County Kent

SITE/CO General Motors /41
 FILE NAME IR/RA Report
 TITLE Notice of Migration
 DOCUMENT 6/9/99

5. Complete the Table on Page 3 of this Form for each hazardous substance which has migrated, or is likely to have migrated, up to or beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.10120a(1).

Complete additional copies of Page 3, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 3.

6. If a map, report, or other additional information is available which depicts or describes the conditions reported on this form, and the basis for your conclusion that this report is required; that information may be (but is not required to be) submitted with this form. You may also identify by title and date any reports previously submitted to the DEQ that contain relevant information. Include the name of the site or facility that the report addresses. This additional information may assist the DEQ in determining whether response activity is required to address conditions described in this notice.

With my signature below, I certify that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to \$25,000 for each violation.

Signature


(Person legally authorized to bind the person making this report)

Date

6/9/99

Name (Typed or Printed) Tom McLean

Title (Typed or Printed) Plant Manager

Letter report by Earth Tech dated March 9, 1999 to Tobe Allen titled: GM Grand Rapids Metal Fabrication Plant Groundwater Monitoring Program, December 1998 Quarterly Report and 1998 Annual Report

EDI Engineering and Sciences report titled: Results of Phase III-A Hydrogeological Investigation for General Motors Corporation, CPC Group, Grand Rapids, Michigan, March 1987



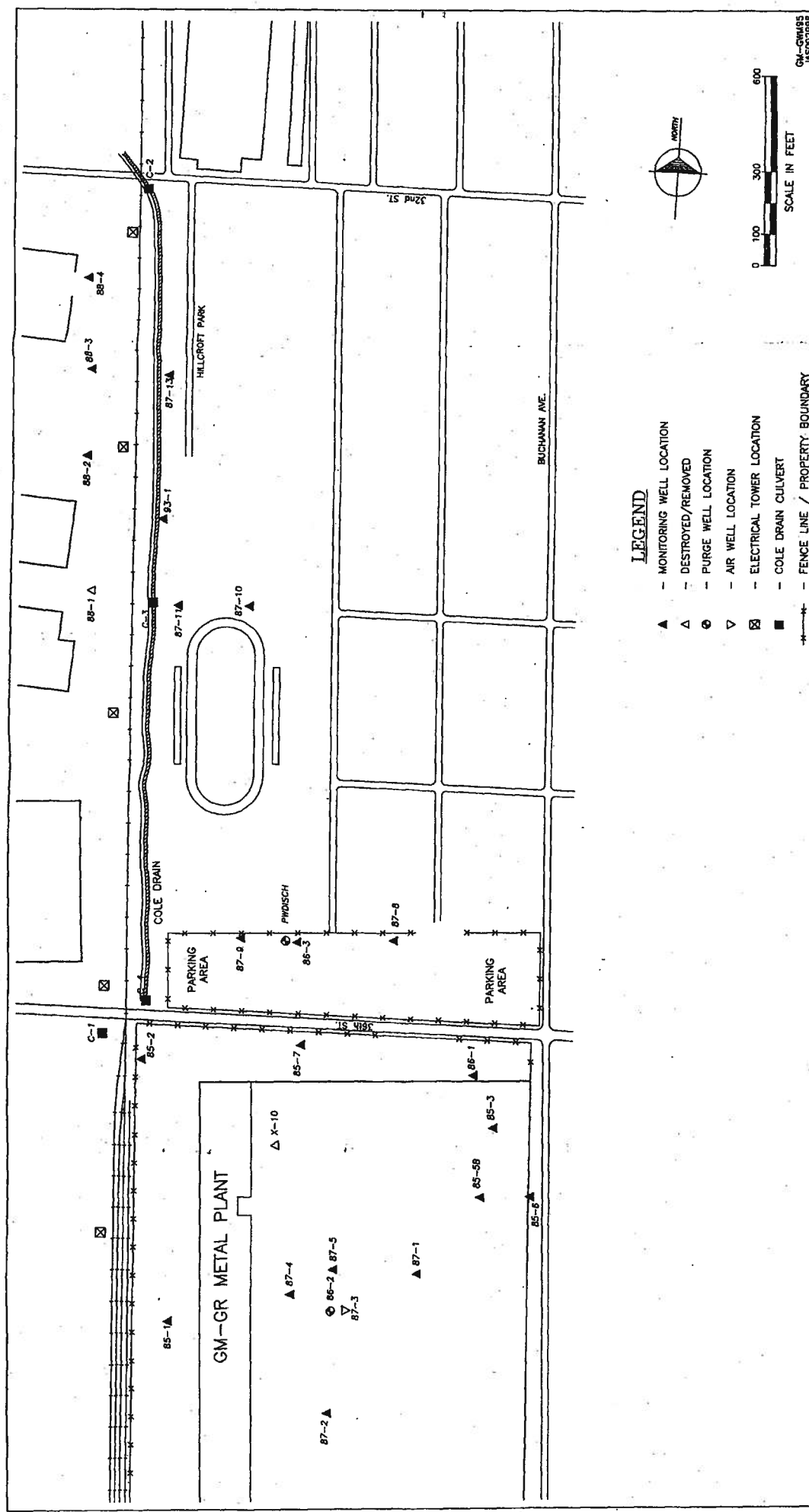
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL RESPONSE DIVISION

NOTICE OF MIGRATION OF CONTAMINATION (FORM EQP4482)
(Under the authority of Part 201, 1994 Act 451, as amended, and the Rules promulgated thereunder)

See Item 5 on Page 1 of this Form for instructions to be used in completing this Table. The information to be included in each column of the Table is:

- Column A Name of hazardous substance.
- Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
- Column C Sample location for Column D (relate to label on map).
- Column D Maximum hazardous substance concentration measured on the property, including units (e.g., 100 ug/l or 20 mg/kg). Report maximum concentration separately for each environmental medium.
- Column E Environmental medium in which concentration reported in Column D was measured (e.g., soil or groundwater).
- Column F Distance from point of maximum measured concentration (Column C) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
- Column G Direction of contaminant migration, if known.
- Column H Sample location for Column I (relate to label on map).
- Column I Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column D has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
- Column J Environmental medium for measurement reported in Column I, if applicable.

A Hazardous Substance	B CAS Number	C Sample Location for "D"	D Maximum Concentration	E Environmental Medium for "D"	F Distance to Property Boundary	G Direction of Migration	H Sample Location for "I"	I Boundary Concentration	J Environmental Medium for "I"
Trichloroethylene	79016	MW/86-2 12/1988	100,000 ug/l	groundwater	1200 ft	N	MW/86-3 12/1998	4 ug/l	groundwater
Cis 1,2-dichloroethylene	156592	MW/87-5 3/1992	150 ug/l	groundwater	1000 ft	N	MW/86-3 12/1998	<1 ug/l	groundwater



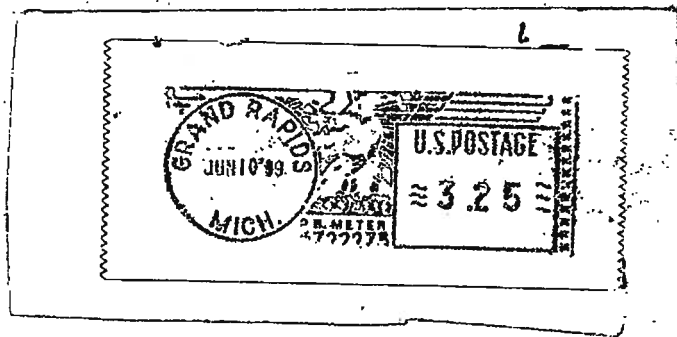
LEGEND

- ▲ - MONITORING WELL LOCATION
- △ - DESTROYED/REMOVED
- ⊙ - PURGE WELL LOCATION
- ▽ - AIR WELL LOCATION
- ⊠ - ELECTRICAL TOWER LOCATION
- - COLE DRAIN CULVERT
- - FENCE LINE / PROPERTY BOUNDARY
- - RAILROAD TRACKS

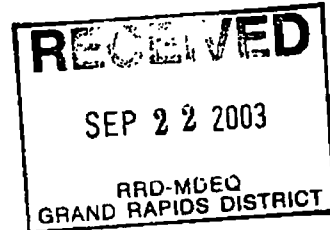


GM-GM185
JAS02/988

FIGURE 1



September 19, 2003



Mr. Gerald Heyt
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Grand Rapids District Office
245 Colrain SW
Wyoming, Michigan 49548-1013

SITE/CO 300 36th St. / Kent
FILE NAME IP. KA
TITLE Reports
DOCUMENT Notice of Migration

Dear Mr. Heyt:

Re: Notice of Migration of Contamination (Form EQP 4482)
Grand Rapids Metal Plant
Wyoming, Michigan

General Motors Corporation (GM), through its subsidiary Environmental Corporate Remediation Company, Inc. (ENCORE), hereby provides a completed Form EQP 4482 to advise of contaminant migration pursuant to Part 201 of Michigan Act 451. Although the information is provided sufficient to satisfy obligations pursuant to both R 299.5522 and R 299.51017, provision of this information does not indicate GM/ENCORE admits to being subject to MCL 324.20114 for conditions at this location.

Since 1989 GM has been cleaning up low concentrations of trichloroethene (TCE) in groundwater approximately 20 feet below the surface on and off plant property. TCE is a common cleaning solvent once used by manufacturing and industrial operations throughout the country. The GM plant has not used TCE since 1979. GM installed a soil vapor extraction system and a groundwater treatment system in 1989. Since initiation of these systems, TCE concentration trends in groundwater have steadily decreased.

Information obtained from existing groundwater monitoring wells on and off plant property indicates that the level of TCE in the groundwater, while slightly above the drinking water standard, is not a cause for concern. Because drinking water is supplied by the City and is not affected by groundwater from the plant property, GM believes that no residents are affected.



General Motors

Worldwide Facilities Group

If you have concerns or questions about this activity, you may contact Gary Evey of GM at 616-246-3132 or at gary.d.evey@gm.com.

Sincerely,

General Motors Corporation

A handwritten signature in black ink that reads "Kurt Blizzard".

Kurt Blizzard

BM/bm/1/Lan.

c.c.: Bridget Lennon, GM
Gary Klepper, CRA



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDATION AND REDEVELOPMENT DIVISION

For DEQ Use Only
ITS # 20034100063
Site ID # 41000115
Category Code: _____

NOTICE OF MIGRATION OF CONTAMINATION

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

An owner or operator of property that is a facility, and/or who is subject to MCL 324.20114, and who has reason to believe that a hazardous substance is emanating from, has emanated from, or is likely to be emanating from the property and migrating beyond the boundaries of the property that he or she owns or operates is required under R 299.5522 and R 299.51017(1) to notify the Michigan Department of Environmental Quality ("DEQ") and affected property owners, unless he or she is exempt from MCL 324.20107a (see MCL 324.20107a(4) for exemptions), or unless he or she has provided the notice required by MCL 324.21309a.

The notice must be provided within 45 days after the owner or operator has reason to believe that hazardous substances have migrated, or are likely to have migrated, to or beyond the boundary of his or her property (see R 299.51017 and R 299.5522 for exceptions). If a person is required to provide additional notice as a result of the changes in R 299.51017 that took effect on December 21, 2002, then that additional notice shall be provided not later than September 21, 2003.

Use of this form is mandatory for the notice required by R 299.51017(1) and may also be used by parties subject to MCL 324.20114 to provide notice required by R 299.5522. This form may also be used to provide notice to affected property owners as required by those rules.

If a person holds a permit for an oil and gas well under Part 615, Supervisor of Wells, of the NREPA and there is a release from the oil and gas exploration or production activities, that person shall give notice to the DEQ and to the owner of the surface rights of the property.

If a person holds an easement and there is a release from the easement holder's activities, that person shall provide notice to the DEQ and to the grantor of the easement, or the grantor's successor in interest, if any.

Completing this notice in no way relieves a person who is subject to MCL 324.20114 from the responsibility to undertake required response activities.

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is attached. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice."

THIS NOTICE IS PROVIDED PURSUANT TO: R 299.5522 R 299.51017
(check both, if applicable)

Please provide the following information as completely as possible.

- 1. Name and location of the property that hazardous substances are emanating from:
- 2. Status relative to the property:
(Check one or both, as applicable.)

Name: Grand Rapids Metal Plant
Address: 300 36th Street S.W.
Location: [REDACTED]
City/County: Wyoming/Kent

Owner
Operator

Please provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., etc.)

RECEIVED
SEP 22 2003
RRD-MDEQ
GRAND RAPIDS DISTRICT

3. Name, address and telephone number of the property owner or operator submitting the notice:
 Name: Grand Rapids Metal Plant
 Address: 300 36th Street S.W.
 City/State: Wyoming, Michigan
 Telephone number: (616) 246-3132
4. Name, address and telephone number of a contact person familiar with the content of the notice:
 Name: Kurt Blizzard
 Address: 920 Townsend St. MS 489-070-035
 City/State: Lansing, Michigan
 Telephone: (517) 885-1155
5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the adjacent property onto which contamination has migrated. If this Notice is provided pursuant to R 299.5522, provide the address and other location information for each property onto which contamination has migrated.

Address: 340 32nd St S.W. Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713401001
 Other: Owner-City of Wyoming

Address: 340 32nd St S.W. Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713401001
 Other: Operator- Godwin Heights Public School

Address: 3471 Hillcroft Ave Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713501008
 Other: Owner- Godwin Heights Public School

Address: 3329 Hillcroft Ave Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713401020
 Other: Owner-Daniel Belstra

Address: 3333 Hillcroft Ave Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713401021
 Other: Owner-Leslie Melin

Address: 3339 Hillcroft Ave Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 411713401022
 Other: Owner-Robert Cole

Address: 3345 Hillcroft Ave Notified? No Yes Date: 09/19/03
 City/State: Wyoming, Michigan
 Property Tax ID number: Parcel 41173401023
 Other: Owner-Kelly Lepsch

Address: 3349 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173401024
Other: Owner-Douglas Apol

Address: 3353 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173401025
Other: Owner-Joel and Ludivina Trevino

Address: 3359 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173401026
Other: Owner-Wendy Norton

Address: 3421 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173451028
Other: Owner-Donald Woodall

Address: 3425 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 411713451029
Other: Owner-James and Lisa Olvera

Address: 3427 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173451004
Other: Owner-Conrado Cantu

Address: 3441 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173451022
Other: Owner-Randall Sterkenburg

Address: 3449 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173451030
Other: Owner-Dragislav and Andja Lazarevic

Address: 3457 Hillcroft Ave Notified? No Yes Date: 09/19/03
City/State: Wyoming, Michigan
Property Tax ID number: Parcel 41173451031
Other: Owner-Ronald and Nancy Bourque

(Attach additional pages as needed)

6. Complete the Table on Page 3 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 3, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 3.

See Attached

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds that allowed by MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

See attached and previous submittals to the MDEQ.

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

Not applicable

- | | YES | NO |
|---|-------------------------------------|-------------------------------------|
| 9. Is this notice being submitted within the timeframes established under R 299.5522 and/or R 299.51017, as applicable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 10. Is this notice in addition to a notice submitted prior to <i>December 21, 2002</i> ? (R 299.51017(4)(c)) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11. Is this notice related to an oil and gas well permit (R 299.51017(2))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is this notice related to an easement (R 299.51017(3))?
(NOTE: All easement grantors <i>must</i> receive this notice.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13. Has a surface water been affected (R 299.51017(1) and R 299.5522(2))?
(If yes, please identify the affected surface water body.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to \$25,000 for each violation.
On behalf of General Motors Corp,

Signature Kurt Blizzard
 (Owner or person legally authorized to bind the person making this report)

Date 9/19/03

Name (Typed or Printed) Kurt Blizzard

Title (Typed or Printed) Sr. Env. Project Eng.



NOTICE OF MIGRATION OF CONTAMINATION

(Under the authority of Part 201, Natural Resources and Environmental Protection Act, 1994 Act 451, as amended, (NREPA) and the Rules promulgated thereunder)

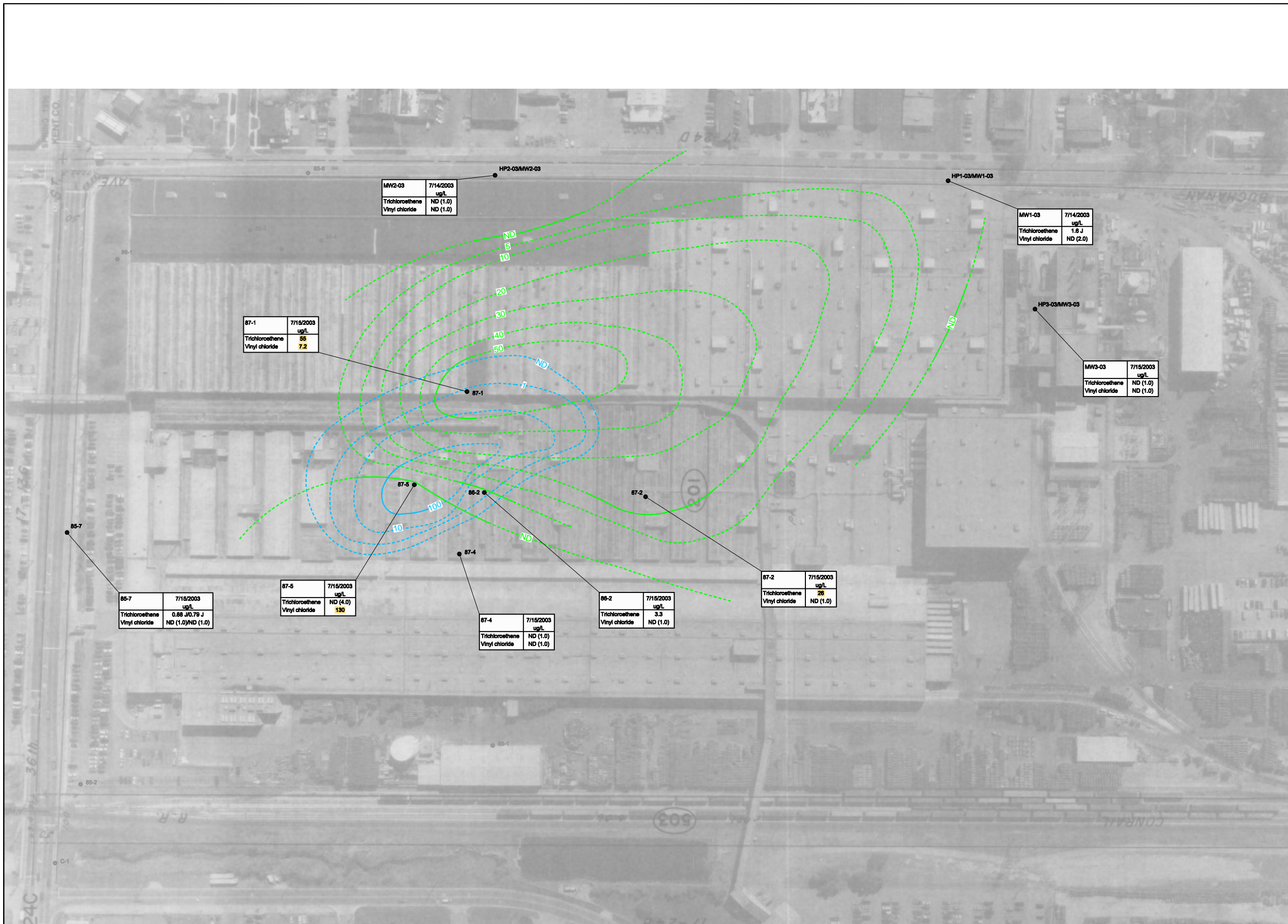
See Item 6 on Page 2 of this Form for instructions to be used in completing this Table. Attach additional pages if necessary. The information to be included in each column of the Table is:

- Column A Name of hazardous substance.
- Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
- Column C Sample location for Column C (relate to label on map).
- Column D Maximum hazardous substance concentration measured on the property, expressed parts per billion (e.g. ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
- Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
- Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
- Column G Direction of contaminant migration, if known.
- Column H Sample location for Column I (relate to label on map).
- Column I Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
- Column J Environmental medium for measurement reported in Column I, if applicable.

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Sample Location for "I"	I Boundary Concentration	J Environmental Medium for "I"
Trichloroethene	79016	55 ug/L	87-1	Groundwater	1,100 ft	north- northwest	86-3	4.3 ug/L	Groundwater
Vinyl Chloride	75014	130 ug/L	87-5	Groundwater	1,000 ft	north- northwest	MW-7-03	Non-detect	Groundwater

Total Number Samples Collected:

Total Number of Samples Exceeding Criteria:



MW2-03	7/14/2003	ug/L
Trichloroethene	ND	(1.0)
Vinyl chloride	ND	(1.0)

MW1-03	7/14/2003	ug/L
Trichloroethene	1.5 J	
Vinyl chloride	ND	(2.0)

87-1	7/15/2003	ug/L
Trichloroethene	55	
Vinyl chloride	7.2	

MW3-03	7/15/2003	ug/L
Trichloroethene	ND	(1.0)
Vinyl chloride	ND	(1.0)

85-7	7/15/2003	ug/L
Trichloroethene	0.88 J 0.79 J	
Vinyl chloride	ND (1.0) ND (1.0)	

87-5	7/15/2003	ug/L
Trichloroethene	ND	(4.0)
Vinyl chloride	130	

87-4	7/15/2003	ug/L
Trichloroethene	ND	(1.0)
Vinyl chloride	ND	(1.0)

86-2	7/15/2003	ug/L
Trichloroethene	3.3	
Vinyl chloride	ND	(1.0)

87-2	7/15/2003	ug/L
Trichloroethene	28	
Vinyl chloride	ND	(1.0)

NO	Revision	Date	Initial

LEGEND

- 5 TCE CONCENTRATION CONTOURS
- 10 VINYL CHLORIDE CONCENTRATION CONTOURS
- - - INFERRED TCE CONCENTRATION CONTOURS
- - - INFERRED VINYL CHLORIDE CONCENTRATION CONTOURS
- 26** VALUE EXCEEDS CRITERIA

RESIDENTIAL DRINKING WATER CRITERIA

TRICHLOROETHENE (TCE)	5 ug/L
VINYL CHLORIDE	2 ug/L

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

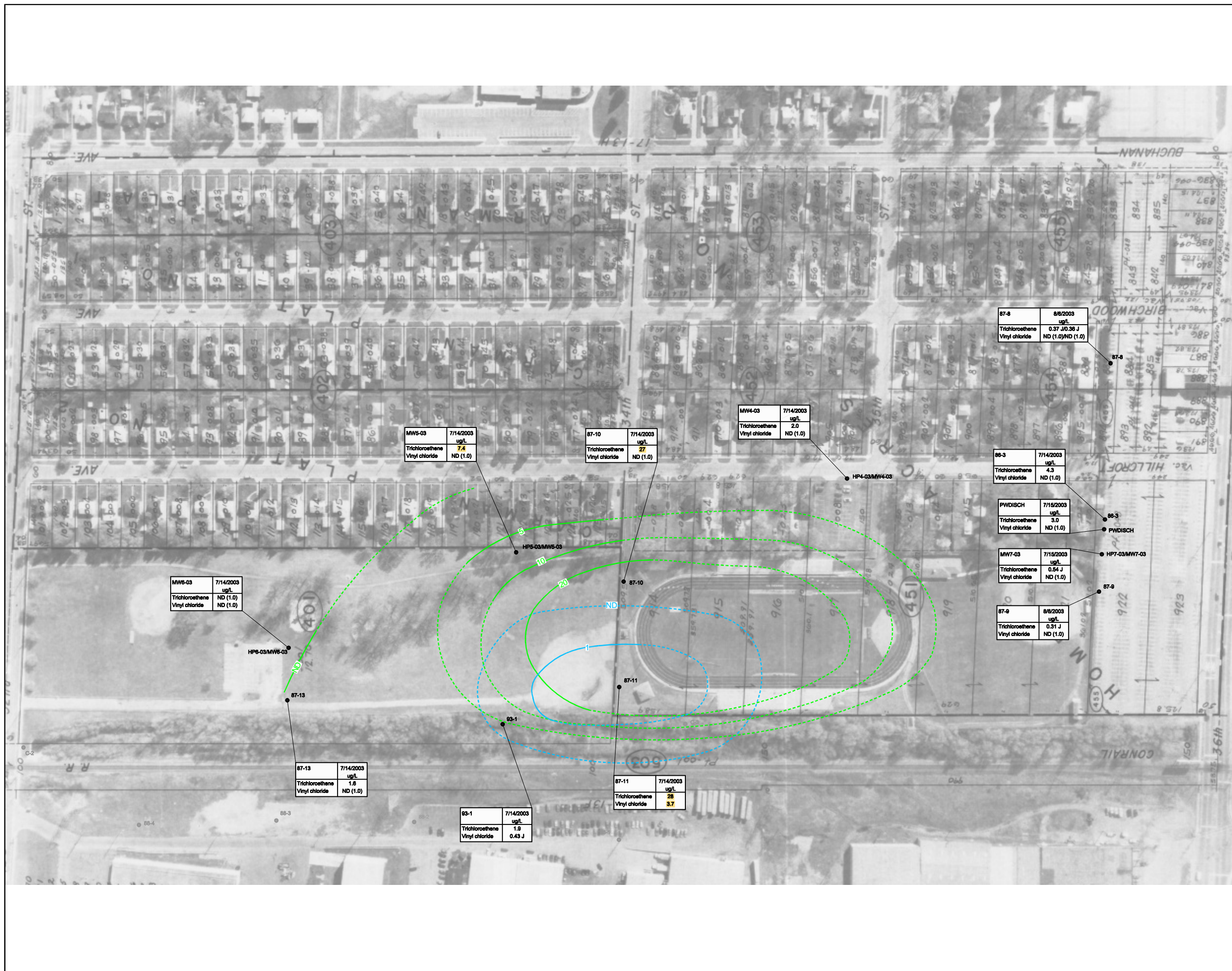
**GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

**TCE AND VINYL CHLORIDE
ANALYTICAL RESULTS - SOUTHERN AREA**

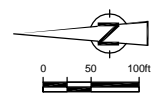


Source Reference:

Project Manager:	Reviewed By:	Date:	
G.K.	B.M.	SEPTEMBER 2003	
Scale:	Project N°:	Report N°:	Drawing N°:
1"=100'	17360-09	PRES006	1



NO	Revision	Date	Initial



- LEGEND**
- 5 TCE CONCENTRATION CONTOURS
 - 10 VINYL CHLORIDE CONCENTRATION CONTOURS
 - - - INFERRED TCE CONCENTRATION CONTOURS
 - - - INFERRED VINYL CHLORIDE CONCENTRATION CONTOURS
 - 27** VALUE EXCEEDS CRITERIA

RESIDENTIAL DRINKING WATER CRITERIA

TRICHLOROETHENE (TCE)	5 ug/L
VINYL CHLORIDE	2 ug/L

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

**GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

**TCE AND VINYL CHLORIDE
ANALYTICAL RESULTS - NORTHERN AREA**



Source Reference:

Project Manager:	Reviewed By:	Date:
G.K.	B.M.	SEPTEMBER 2003
Scale:	Project N ^o :	Report N ^o :
1"=100'	17360-09	PRES006
		Drawing N ^o :
		2

2004 DATA REPORT

**GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Volume I of II

DECEMBER 2004

REF. NO. 17360 (9)

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION.....	1
1.1	PURPOSE.....	1
1.2	BACKGROUND AND HISTORY	1
1.3	REPORT ORGANIZATION.....	1
2.0	ENVIRONMENTAL SETTING	2
2.1	REGIONAL GEOLOGY AND HYDROGEOLOGY.....	2
2.2	SITE GEOLOGY AND HYDROGEOLOGY	2
2.2.1	GROUNDWATER FLOW DIRECTION.....	3
2.3	TOPOGRAPHY.....	3
2.4	HYDROLOGY	4
3.0	SCOPE OF WORK.....	5
3.1	SUMMARY OF INVESTIGATION	5
3.2	SUBSURFACE INVESTIGATION.....	5
3.2.1	SOIL BORING INSTALLATION/SOIL SAMPLE COLLECTION.....	5
3.2.2	SOIL BORING INSTALLATION/VERTICAL AQUIFER SAMPLING.....	6
3.2.3	MONITORING WELL INSTALLATION/ GROUNDWATER SAMPLING.....	7
3.3	BOREHOLE/WELL ABANDONMENT	9
3.4	SURVEYING.....	9
3.5	DECONTAMINATION AND CONTAINMENT PROCEDURES	9
3.6	DISPOSITION OF INVESTIGATION-DERIVED WASTE.....	10
4.0	RESULTS OF INVESTIGATION.....	11
4.1	COMPARISON OF ANALYTICAL RESULTS	11
4.2	RESULTS OF INVESTIGATION	11
4.2.1	SOIL INVESTIGATION RESULTS.....	11
4.2.2	GROUNDWATER INVESTIGATION RESULTS.....	12
4.3	ANALYTICAL DATA VALIDATION RESULTS SUMMARY	14
5.0	SUMMARY.....	15
5.1	CONCLUSIONS AND RECOMMENDATIONS	15
5.1.1	SOIL	15
5.1.2	GROUNDWATER	16
5.1.2.1	HISTORIC TCE RELEASE.....	16
5.1.2.1.1	ON-SITE VOC PLUME	16
5.1.2.1.2	OFF-SITE/DOWNGRAIDENT VOC PLUME.....	17
5.1.2.2	FREE PRODUCT/SEMI-VOLATILE ORGANIC COMPOUNDS.....	18
5.1.2.3	UPGRADIENT PCE SOURCE	18

LIST OF FIGURES

(Following Text)

FIGURE 1.1	SITE LOCATION
FIGURE 1.2	SITE PLAN
FIGURE 2.1	GEOLOGIC CROSS-SECTION LOCATIONS
FIGURE 2.2	GEOLOGIC CROSS-SECTION A-A'
FIGURE 2.3	GEOLOGIC CROSS-SECTION B-B'
FIGURE 2.4	GEOLOGIC CROSS-SECTION C-C'
FIGURE 2.5	GEOLOGIC CROSS-SECTION D-D'
FIGURE 2.6	APPROXIMATE AUGUST 8, 2004 GROUNDWATER FLOW DIRECTION
FIGURE 4.1	SELECT TCL VOC CONCENTRATIONS IN SOIL
FIGURE 4.2	SELECT TCL SVOC CONCENTRATIONS IN GROUNDWATER

LIST OF TABLES

(Following Text)

TABLE 2.1	GROUNDWATER ELEVATION MEASUREMENTS
TABLE 3.1	SOIL SAMPLE SUMMARY
TABLE 3.2	VERTICAL AQUIFER SAMPLE SUMMARY
TABLE 3.3	GROUNDWATER SAMPLE SUMMARY
TABLE 4.1	ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
TABLE 4.2	ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
TABLE 4.3	ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
TABLE 4.4	ANALYTICAL RESULTS FOR TCL SVOCs IN GROUNDWATER SAMPLES

LIST OF PLANS
(Following Text)

PLAN 1	SELECT TCL VOCs IN VERTICAL AQUIFER SAMPLES
PLAN 2	SELECT TCL VOCs CONCENTRATIONS IN GROUNDWATER
PLAN 3	SELECT TCL VOCs ISOCONTOURS – SOUTHERN AREA
PLAN 4	SELECT TCL VOCs ISOCONTOURS – NORTHERN AREA

LIST OF APPENDICES

(Following Text)

APPENDIX A STRATIGRAPHIC AND MONITORING WELL CONSTRUCTION LOGS

APPENDIX B WELL ABANDONMENT MEMORANDUMS

APPENDIX C LABORATORY ANALYTICAL RESULTS

APPENDIX D DATA QUALITY VALIDATION MEMORANDUMS

1.0 INTRODUCTION

1.1 PURPOSE

Conestoga-Rovers & Associates (CRA) was retained by General Motors Corporation (GM) to conduct an environmental investigation at the GM Grand Rapids Metal Plant located at 300 36th Street in Wyoming, Michigan (Site).

The purpose of this environmental investigation was to further evaluate and delineate chlorinated compound impacts to groundwater above the Michigan Public Act 451, Part 201 Residential Cleanup Criteria, to further define hydrogeologic conditions at the Site, to evaluate the current effectiveness of the groundwater extraction system, to evaluate the effectiveness of select monitoring wells for long term monitoring, and to determine the soil conditions in the area of the soil vapor extraction (SVE) system. Due to the implementation date of the environmental investigation activities in July 2004, the June 2004 Quarterly Groundwater Monitoring Activities were conducted in August 2004 and in lieu of a quarterly report being prepared, the results were incorporated herein.

1.2 BACKGROUND AND HISTORY

The Site background is presented in the Work Plan and the Data Report, submitted to the Michigan Department of Environmental Quality (MDEQ) under separate cover on November 24, 2002 and March 2, 2004, respectively. A Site location is presented on Figure 1.1 and a Site plan is presented on Figure 1.2.

1.3 REPORT ORGANIZATION

The remainder of this report is presented in the following sections:

Section 2.0	Environmental Setting
Section 3.0	Scope of Work
Section 4.0	Results of Investigation
Section 5.0	Summary

2.0 ENVIRONMENTAL SETTING

2.1 REGIONAL GEOLOGY AND HYDROGEOLOGY

Kent County is situated in an area near the southwestern margin of the Michigan Basin. Marshall Sandstone bedrock crops out or is found at shallow depth and underlies all of Kent County with overlapping by the Michigan Formation. The Michigan Formation consists primarily of limestone, gypsum, and dolomite, interbedded with shale and sandstone. To the northeast, the Marshall Sandstone and Michigan Formation are progressively overlain by Bayport Limestone, Parma Sandstone, and then the Saginaw Formation. Overlying these rocks is a mass of glacial drift from the Wisconsinan Glacial stage consisting of moraines and former sand lake beds with thicknesses of less than ten feet to several hundred feet. The glacial drift is characterized by ranges of materials from coarse gravel to fine lacustrine clays. The outwash is underlain by a clay layer that has been observed to generally slope to the west-northwest at a gradient of approximately 1 foot in 15 feet. Bedrock in the area of the Site is encountered at approximately 100 feet below graded surface (bgs).

Shallow groundwater in this area of Kent County is generally encountered at less than 20 feet bgs. Groundwater flow is influenced by local topography and surface water drainageways, such as creeks and streams.

Bedrock aquifers near the Site include, in descending order, the Bayport Limestone, the Michigan Formation, and the Marshall Sandstone. Elevated concentrations of naturally occurring sulfate, cadmium, and bicarbonate limit the use of the Bayport Limestone aquifer as a drinking water supply. The Michigan Formation aquifer generally yields only small quantities of poor quality groundwater. The deepest regional aquifer, the Marshall Sandstone aquifer, provides large quantities of better quality groundwater. Groundwater flow in the Bayport Limestone bedrock aquifer in the area is generally uniform and to the southeast.

2.2 SITE GEOLOGY AND HYDROGEOLOGY

Information regarding the geologic conditions at the Site was collected during previous environmental investigations, as well as during this investigation. Numerous soil borings were installed at the Site between 1981 and 2003. Nine additional soil borings were advanced at the Site in 2004 and logged by a CRA geologist to further define the geologic conditions at the Site. The stratigraphic logs generated during this environmental investigation are presented in Appendix A.

The overburden at the Site consists of a sand and/or clay surficial layer containing various amounts of sand and gravel, underlain by interbedded layers of silt and clay material. Bedrock was not encountered during any of the environmental investigations conducted to date.

To better understand the surficial geology at the Site, four cross-sections were prepared, based on previous and current investigation results. Locations of the cross-sections are presented on Figure 2.1. Cross-sections A-A', B-B', C-C', and D-D' are presented on Figures 2.2, 2.3, 2.4, and 2.5, respectively.

2.2.1 GROUNDWATER FLOW DIRECTION

Groundwater level measurements and the corresponding depths were recorded for all monitoring wells.

Groundwater elevation data for the groundwater monitoring events on June 26, 2002, September 26, 2002, December 9, 2002, March 20, 2003, July 14, 2003, and August 8, 2004 are presented in Table 2.1. Groundwater was encountered during the environmental investigations at approximately 20 feet bgs. Based on the August 8, 2004 groundwater levels, the approximate groundwater flow direction is to the north-northwest, towards the Cole Drain, which is consistent with historical groundwater flow direction. Figure 2.6 presents the approximate August 8, 2004 groundwater flow direction.

Based on the groundwater flow direction, it appears that groundwater in the vicinity of the Site is discharging to Cole Drain, which acts as a hydrologic barrier. Based on the review of analytical data for monitoring wells located adjacent to the Cole Drain (see Section 4.2.2), no parameters were currently detected at concentrations exceeding the Michigan Act 451, Part 201 Groundwater-Surface Water Interface (GSI) Cleanup Criteria.

2.3 TOPOGRAPHY

According to the Grand Rapids West, Michigan United States Geological Survey (USGS) 7.5 minute quadrangle, the Site is located approximately 675 feet above mean sea level (AMSL), with regional elevations ranging from 650 to 690 feet AMSL. The Site and surrounding area display gently rolling to relatively flat topographical features, with local topography sloping towards Cole Drain and Plaster Creek.

2.4 HYDROLOGY

A stormwater retention pond is located on-Site, which discharges to Cole Drain, under a National Pollution Discharge Elimination System (NPDES) permit. There are no natural surface water bodies on the Site. The nearest natural surface water body to the Site is the Cole Drain, which runs along the entire west side of the Site and flows north. Cole Drain discharges to Plaster Creek, which is part of the Grand River Drainage Basin, and ultimately discharges to Lake Michigan.

3.0 SCOPE OF WORK

The Scope of Work (SOW) for the investigation included the installation of soil borings and monitoring wells, the collection and analysis of discrete groundwater samples utilizing a hydropunch method, the collection and analysis of groundwater samples from monitoring wells, the collection and analysis of soil samples in the area of the SVE system, and the abandonment of the SVE extraction well and associated pressure wells. Investigation fieldwork adhered to the methods and procedures specified in the March 2004 Work Plan, including the Quality Assurance Project Plan (QAPP), which was submitted to the MDEQ under separate cover on April 2, 2004.

3.1 SUMMARY OF INVESTIGATION

The SOW that was implemented during the investigation is discussed in the following sections.

3.2 SUBSURFACE INVESTIGATION

3.2.1 SOIL BORING INSTALLATION/SOIL SAMPLE COLLECTION

Five soil borings, SB1-04 through SB5-04, were advanced at the Site and a total of 55 soil samples were collected to define current soil conditions at the historic volatile organic compound (VOC) release area. The five soil borings, SB1-04 through SB5-04, were installed in the area surrounding air purge well 87-3, associated with the former SVE treatment system, to vertically and horizontally determine the current concentrations of chlorinated compounds in the vadose, or unsaturated zone. Stratigraphic soil boring logs are presented in Appendix A.

Soil borings were advanced utilizing a 4 ¼-inch inside diameter hollow stem auger (HSA) with continuous split spoon sampling. Soil samples were collected starting at the top of the ground surface and continuing at two-foot intervals until a terminal depth of twenty-two feet bgs, which is above the water table. A two-foot long, two-inch outside diameter stainless steel split spoon sampler driven into the undisturbed material through the 4¼-inch HSA annulus. Soil samples were described and classified according to the Unified Soil Classification System (USCS) by a CRA Geologist. Soil samples were field screened for visual/olfactory evidence of impact and with an 11.7 eV photoionization detector (PID). PID readings were recorded on the stratigraphic logs presented in Appendix A, with the exception of SB2-04, due to the fact that the PID

malfunctioned during the installation of the soil boring. No PID readings are available for SB2-04. One soil sample was collected from each two-foot split spoon interval.

All soil samples were analyzed for Target Compound List (TCL) VOCs. Collected samples were placed in pre-cleaned laboratory-provided containers, properly labeled, and shipped under chain-of-custody (COC) protocol via overnight courier to Severn Trent Laboratories (STL) in North Canton, Ohio to be analyzed on a two week turnaround time (TAT). Table 3.1 presents a soil sample summary.

3.2.2 SOIL BORING INSTALLATION/VERTICAL AQUIFER SAMPLING

A total of nine soil borings, HP8-04 through HP16-04, were advanced during the implementation of the investigation for vertical aquifer profiling and monitoring well placement. Six of the borings, HP8-04 through HP13-04, were installed downgradient of the former degreaser location to further delineate the extent of the chlorinated compound contamination. One soil boring, HP14-04, was installed to the north of monitoring well 87-5 to further evaluate vinyl chloride contamination in groundwater. Two soil borings, HP15-04 and HP16-04, were installed to the northwest and west of the plant, respectively, to further define chlorinated compound contamination in groundwater and confirm conditions relative to local surface water. Vertical aquifer sampling (VAS) was conducted at each of the soil boring locations to determine the vertical extent of contamination at that location. Stratigraphic soil boring logs are presented in Appendix A.

Soil borings were advanced utilizing 4¼-inch inside diameter HSA with continuous split spoon sample collection. Concrete coring was performed inside the plant, as necessary. Soil samples were described and classified according to the USCS by a CRA Geologist. Soil samples were field screened for visual/olfactory evidence of impact and with an 11.7 eV PID. PID readings were recorded on the stratigraphic logs presented in Appendix A.

Fifty-six discrete groundwater samples were collected from soil borings HP8-04 through HP16-04 utilizing a hydropunch for VAS. VAS was conducted starting at the top of the water table and continuing at ten-foot intervals until the confining clay layer was encountered. Discrete groundwater grab sample depths varied slightly dependent on stratigraphic conditions encountered. A five-foot long, two-inch outside diameter stainless steel hydropunch sampler with a 0.01-inch slotted screen and a well point were driven into the undisturbed material through the 4¼-inch HSA annulus. The well point detached from the hydropunch sampler at the specified sample depth and groundwater

was allowed to flow into and fill the hydropunch sampler. The amount of time required to fill the hydropunch was dependent upon geological factors such as surrounding media (i.e., sand vs. clay) and depth below ground surface (i.e., increasing water pressure with increasing depth). After sufficient time to fill the hydropunch sampler passed (approximately 15 minutes to 1 hour), the sampler was removed from the soil boring and the groundwater sample was collected.

All groundwater samples were analyzed for TCL VOCs. Collected samples were placed in pre-cleaned laboratory-provided containers, properly labeled, and shipped under COC protocol via overnight courier to STL in North Canton, Ohio to be analyzed on a 72-hour TAT for VAS samples, except the samples collected from HP14-04, which were analyzed on a 24-hour TAT. Table 3.2 presents a VAS sample summary.

3.2.3 MONITORING WELL INSTALLATION/GROUNDWATER SAMPLING

The vertical and horizontal extent of contamination in groundwater was investigated during the environmental investigation through the collection and analysis of 40 groundwater samples, including 14 quality assurance/quality control (QA/QC) samples (four duplicates and two matrix spike (MS)/matrix spike duplicate (MSD)) from thirty-six monitoring wells; MW1-03 through MW7-03, MW8-04 through MW11-04, MW13-04 through MW15-04, 85-1, 85-2, 85-3, 85-5B, 85-6, 85-7, 86-1, 86-3, 87-1, 87-2, 87-4, 87-5, 87-8, 87-9, 87-10, 87-11, 87-13, 88-2, 88-3, and 88-4; and two groundwater extraction wells; 86-2 and PWDISCH, and three surface water samples from three culvert locations; C-1, C-2, and C-3.

Soil borings were advanced utilizing a 4 ¼-inch inside diameter HSA with continuous split spoon sampling. As stated in Section 3.2.2, discrete groundwater samples were collected from soil borings HP8-04 through HP16-04 to determine the vertical extent of contamination and determine the screen placement for the monitoring wells.

After completion of the VAS and receipt of analytical data, a second soil boring was advanced adjacent to the VAS soil boring, and a monitoring well was constructed, based on the analytical results from the VAS, excluding HP12-04 and HP16-04, where existing wells were deemed adequate for the area. MW8-04 through MW11-04 and MW13-04 were installed downgradient of the former degreaser location to further delineate the extent of the chlorinated compound contamination. MW14-04 was installed to the north of monitoring well 87-5 to further evaluate vinyl chloride contamination in groundwater. MW15-04 was installed to the northwest of the plant to further define chlorinated compound contamination in groundwater and confirm conditions relative to

local surface water. Monitoring wells were constructed in the borehole annulus through the auger using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) riser with five-foot long, 0.01-inch slot Schedule 40 PVC screens. During completion of the installation, the risers were temporarily capped to prevent entrance of foreign materials during the overburden well installation. The risers and screens were joined with flush threaded joints.

An inert silica sand pack was placed around the screen to a height of three vertical feet above the top of the screen using a flush-threaded 1-inch diameter tremie pipe as the augers were withdrawn from the borehole. If bridging of the silica sand occurred, the bridged material was mechanically broken prior to the addition of more silica sand.

A high solids bentonite grout was installed above the silica sand using a flush-threaded one-inch diameter tremie pipe. Once the grout was set, the remainder of the annulus was filled with concrete and a flushmount casing was installed. The protective flushmount casing was centered over the riser and extends into the concrete collar one-foot bgs. The concrete seal was sloped away from the flushmount casing to deter infiltration of precipitation. Risers were capped with a locking cap.

The new wells were developed by removing a minimum of five well volumes until the groundwater was developed to a silt-free condition, if possible, and the turbidity, pH, temperature, dissolved oxygen (DO), oxidation/reduction potential (ORP), and conductivity of the groundwater had stabilized. The generated development water was containerized in Department of Transportation (DOT) approved 55-gallon drums prior to treatment at the on-Site wastewater treat plant (WWTP) prior to discharge to the Publicly Owned Treatment Works (POTW).

Groundwater samples were collected from monitoring wells MW1-03 through MW7-03, MW8-04 through MW11-04, MW13-04 through MW15-04, 85-1, 85-2, 85-3, 85-5B, 85-6, 85-7, 86-1, 86-3, 87-1, 87-2, 87-4, 87-5, 87-8, 87-9, 87-10, 87-11, 87-13, 88-2, 88-3, and 88-4. Prior to sampling the monitoring wells, the caps were removed and the groundwater was allowed to equilibrate. Stabilization for each well was confirmed by three consecutive readings within 10 percent of each other for the following parameters: pH, turbidity, ORP, DO, temperature, specific conductivity, and draw down of less than 0.3 feet. Groundwater samples from purge wells 86-2 and PWDISCH were also collected. Purge wells were sampled through a side port on the piping system at the well location. The tap was opened and approximately three gallons were purged prior to sample collection.

All groundwater samples were analyzed for TCL VOCs. In addition wells 85-3, 85-5B, 85-6, and 86-1 were sampled for TCL Semi-Volatile Organic Compounds (SVOCs). Collected samples were placed in pre-cleaned laboratory-provided containers, properly labeled, and shipped under COC protocol via overnight courier to STL in North Canton, Ohio to be analyzed on a two week TAT. Table 3.3 presents a groundwater sample summary.

3.3 BOREHOLE/WELL ABANDONMENT

Upon completion of soil and discrete groundwater sample collection, each borehole was completed as a monitoring well or abandoned. All soil borings not completed as monitoring wells during the environmental investigation were abandoned using a tremie method to backfill the annulus with bentonite grout to the ground surface. Asphalt and concrete surfaces were patched, as necessary.

Soil cuttings from all soil boring and monitoring well installations were containerized, labeled as to generation location, and characterized for off-Site disposal as described in Section 3.6.

Seven pressure monitoring wells associated with the SVE system were abandoned in place using a bentonite/grout powder hydrated at one-foot intervals to the top of the well. The SVE extraction well was abandoned in place using bentonite/grout chips hydrated at one-foot intervals to the top of the well. The abandoned locations were finished with concrete and wood floor block, as appropriate. Appendix B presents the well abandonment memorandums.

3.4 SURVEYING

A survey of the Site was conducted by CRA surveyors for all new soil boring and monitoring well locations. Soil boring locations, reference features, and monitoring well locations were surveyed, with elevations established to the nearest 0.01-foot. The survey was benchmarked by National Geographic Survey (NGS) Station Number NF0822.

3.5 DECONTAMINATION AND CONTAINMENT PROCEDURES

Upon mobilization to the Site and prior to commencing drilling, the drill rig and all associated equipment were thoroughly cleaned using a high pressure, low volume

steam wash and inspected by CRA field personnel. Before initiating drilling at each subsequent location, the augers, drill rod, hydropunch sampler, and all other non-disposable sampling and drilling equipment were decontaminated to prevent cross-contamination.

All non-disposable sampling equipment was decontaminated prior to each use by using an Alconox wash, a potable water rinse, a deionized water rinse, and was allowed to air dry.

All decontamination water was visually examined and screened with a PID, and containerized in DOT approved 55-gallon drums. All decontamination water was characterized and discharged to the on-Site WWTP.

3.6 DISPOSITION OF INVESTIGATION-DERIVED WASTE

Soil cuttings generated during drilling were containerized in DOT approved 55-gallon drums. All soil cuttings were properly labeled, characterized, sealed, and staged on-Site in a GM designated area near the maintenance building. Soil cuttings generated during drilling were characterized as non-hazardous waste, as described below, and placed in two roll-off boxes for off-Site disposal by GM.

Waste characterization samples were obtained at two locations: a) SB2-04 soil cuttings and b) all other soil cuttings (roll-off boxes). One composite waste characterization soil sample was collected from the 55-gallon drum containing the soil cuttings from SB2-04 for analysis of Toxicity Characteristic Leaching Procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, reactivity, corrosivity, and ignitibility (RCI), and TCL VOCs. An additional composite waste characterization soil sample was collected from the roll-off boxes containing the soil cuttings from all other borings for analysis of TCLP VOCs, TCLP SVOCs, TCLP metals, RCI, and TCL VOCs. Soil samples collected for laboratory analysis were placed in pre-cleaned laboratory-provided containers, labeled, and shipped under COC protocol via overnight courier to STL in North Canton, Ohio to be analyzed on a two week TAT for the roll-off box sample and a one week TAT for the SB2-04 drum sample. Analytical results are presented in Appendix C.

Decontamination/purge water was containerized in DOT approved 55-gallon drums. All decontamination/purge water was properly labeled, sealed and staged in 15 DOT approved 55-gallon drums. Decontamination/purge water was discharged to the on-Site WWTP.

4.0 RESULTS OF INVESTIGATION

4.1 COMPARISON OF ANALYTICAL RESULTS

Analytical results for groundwater and soil samples were compared to the cleanup criteria and screening levels found in the Michigan Act 451, Part 201 Residential and Industrial Cleanup Criteria. Waste characterization sample results were compared to Resource Conservation and Recovery Act (RCRA) waste characteristic criteria. Laboratory analytical results for samples collected during this environmental investigation are presented in Appendix C. Data validation memorandums for this environmental investigation are presented in Appendix D.

4.2 RESULTS OF INVESTIGATION

Soil and groundwater samples were collected to further evaluate and delineate chlorinated compound impacts to groundwater above the Michigan Public Act 451, Part 201 Residential Cleanup Criteria, to further define hydrogeologic conditions at the Site, to evaluate the current effectiveness of the groundwater extraction system, to evaluate the effectiveness of select monitoring wells for long term monitoring, and to determine the soil conditions in the area of the SVE system. Sample summaries for soil samples, VAS samples, and groundwater samples are presented in Tables 3.1, 3.2, and 3.3, respectively. Figure 4.1 presents select TCL VOCs in soil samples. Figure 4.2 presents select TCL SVOCs in groundwater. Plan 1 presents a summary of select TCL VOCs in the VAS. Plan 2 presents a summary of select TCL VOCs in groundwater. Plan 3 presents the isocontours for select TCL VOCs, including cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride (VC), on the southern portion of the Site. Plan 4 presents the isocontours for select TCL VOCs, including cis-1,2-DCE, TCE, PCE, and VC, on the northern portion of the Site.

4.2.1 SOIL INVESTIGATION RESULTS

A total of 55 soil samples were collected and analyzed for TCL VOCs in the area surrounding air purge well 87-3, associated with the former SVE treatment system, to vertically and horizontally determine the current concentrations of chlorinated compounds in the vadose, or unsaturated zone. Table 3.1 presented a sample summary for soil. Table 4.1 presents a summary of TCL VOCs in soil samples. Figure 4.1 presents select TCL VOCs in soil samples. Soil samples collected during the environmental investigation were examined by a CRA geologist for odor and visual impact and

screened with a PID. Descriptions and PID readings for soil intervals are included in the stratigraphic borehole logs presented in Appendix A.

TCE was detected in SB1-04 at 2,000 ug/kg (at a depth of 0 to 2 ft bgs), in SB2-04 at 12,000 ug/kg (at a depth of 0 to 2 ft bgs), in SB3-04 at 2,800 ug/kg (at a depth of 0 to 2 ft bgs), in SB4-04 at 190 ug/kg (at a depth of 0 to 2 ft bgs), and in SB5-04 at 5,700 ug/kg (at a depth of 0 to 2 ft bgs). All detections are above the Michigan Act 451, Part 201 Industrial Drinking Water Protection Criteria of 100 ug/kg. In addition, the detections at SB2-04 and SB5-04 are above the Michigan Act 451, Part 201 Groundwater/Surface Water Protection Criteria of 4,000 ug/kg. No other TCL VOCs were detected in the soil samples at concentrations above the Michigan Act 451, Part 201 Industrial Cleanup Criteria. It should be noted that the detection at SB2-04 was above the Michigan Act 451, Part 201 Residential Soil Volatilization to Indoor Air Inhalation of 7,100 ug/kg.

Prior to drilling activities, an evaluation was conducted for the SVE system to determine if the SVE system was removing significant VOC mass from the soil. The results of the study were presented in the Data Report submitted to the MDEQ on March 2, 2004 and identified that the SVE system was not removing significant mass. Subsequently, the system was shut down, under approval of the MDEQ. Based on discussions with the MDEQ following the aforementioned review of the system effectiveness, it was determined that additional evaluation of the current concentrations of VOCs in the vadose zone in the former source area was required for closure of this area. The soil results presented above confirm that there is no longer a significant mass of VOCs in the vadose zone, and that the majority of the VOC mass is present in the top two feet of the soil column. No TCL VOCs were detected in the soil samples collected at concentrations above criteria for complete exposure pathways, under the current industrial land use scenario.

4.2.2 GROUNDWATER INVESTIGATION RESULTS

A total of 96 groundwater samples, including 14 QA/QC samples, and three surface water samples were collected during the environmental investigation. Groundwater samples collected from monitoring wells were analyzed for TCL VOCs and TCL SVOCs (select wells only) and discrete groundwater samples collected from VAS were analyzed for TCL VOCs. Groundwater samples were collected to further evaluate and delineate chlorinated compound impacts to groundwater above the Michigan Public Act 451, Part 201 Residential Cleanup Criteria, to further define hydrogeologic conditions at the Site, to evaluate the current effectiveness of the groundwater extraction system, and to evaluate the effectiveness of select monitoring wells for long term monitoring. Tables

3.2 and 3.3 present sample summaries for VAS and groundwater samples, respectively. Table 4.2 presents a summary of TCL VOCs in vertical aquifer samples, Table 4.3 presents a summary of TCL VOCs in groundwater samples and Table 4.4 presents a summary of TCL SVOCs in groundwater samples.

Several parameters were detected in groundwater samples collected at the Site above the Michigan Act 451, Part 201 cleanup criteria, including: bis(2-ethylhexyl)phthalate, benzo(b)fluoranthene, benzo(a)anthracene, PCE, TCE, and VC. Groundwater sample results for the VAS and monitoring well samples collected during this investigation are further discussed below.

Bis(2-Ethylhexyl)phthalate was detected in groundwater samples collected from 85-3 (screened 20.3 to 30.3 feet bgs) and 85-6 (screened 19.5 to 24.5 feet bgs) at concentrations of 8.4 ug/L and 8.6 ug/L, respectively, which are above the Michigan Act 451, Part 201 Residential Drinking Water Criteria (RDWC) of 6 ug/L.

Benzo(b)fluoranthene and benzo(a)anthracene were detected in the groundwater sample collected from 85-5B (screened 21.9 to 31.9 feet bgs) at 4.3 ug/L and 5.4 ug/L, respectively, which are above the Michigan Act 451, Part 201 RDWC of 2.0 ug/L and 2.1 ug/L, respectively.

PCE was detected in the groundwater samples collected from MW2-03 (screened 22 to 27 feet bgs), MW1-03 (screened 30 to 35 feet bgs), and MW11-04 (screened 40 to 45 feet bgs) at concentrations of 10 ug/L, 160 ug/L, and 28 ug/L (27 ug/L in a duplicate groundwater sample), which are above the Michigan Act 451, Part 201 RDWC of 5.0 ug/L. Additionally, the detected concentration of 160 ug/L of PCE at MW1-03 is above Michigan Act 451, Part 201 Groundwater/Surface water (GSI) Criteria of 45 ug/L. PCE was also detected in the discrete groundwater samples collected from HP11-04 at concentrations of 17 ug/L (at 42 feet bgs (15 ug/L in a duplicate groundwater sample)), 15 ug/L (at 42 feet bgs (duplicate)), and 15 ug/L (at 52 feet bgs), which are above the Michigan Act 451, Part 201 RDWC of 5.0 ug/L.

TCE was detected in the groundwater samples collected from MW5-03 (screened 30 to 35 feet bgs), 87-10 (screened 29 to 32 feet bgs), 87-11 (screened 30 to 33 feet bgs), 87-1 (screened 8.5 to 19.5 feet bgs), 87-2 (screened 33.2 to 38.2 feet bgs), MW10-04 (screened 33 to 38 feet bgs), and MW11-04 (screened 40 to 45 feet bgs) at concentrations of 5.9 ug/L, 33 ug/L, 30 ug/L, 37 ug/L, 25 ug/L, 11 ug/L and 45 ug/L (44 ug/L in a duplicate groundwater sample), respectively, which are above the Michigan Act 451, Part 201 RDWC of 5.0 ug/L. TCE was also detected in the discrete groundwater samples collected from HP10-04 (at 35 feet bgs), at a concentration of 5.9 ug/L from HP16-04 (at

20 feet bgs), at a concentration of 6.5 ug/L, and at HP11-04 at concentrations of 23 ug/L (at 32 feet bgs), 34 ug/L (at 42 feet bgs), 33 ug/L (at 42 feet bgs duplicate), 19 ug/L (at 52 feet bgs), and 7.4 ug/L (at 62 feet bgs), which are above the Michigan Act 451, Part 201 RDWC of 5.0 ug/L.

VC was detected in the groundwater samples collected from 87-5 (screened 39.5 to 50.5 feet bgs) and 87-1 (screened 8.5 to 19.5 feet bgs) at concentrations of 69 ug/L and 6.0 ug/L, respectively, which are above the Michigan Act 451, Part 201 RDWC of 2.0 ug/L. Additionally, the concentration of 69 ug/L of VC detected in the groundwater sample collected from 87-5 is also above Michigan Act 451, Part 201 GSI Criteria of 15 ug/L.

No other TCL VOCs were detected in the groundwater samples collected during the investigation above the Michigan Act 451, Part 201 RDWC. Figure 4.1 presents select TCL VOCs in soil samples. Figure 4.2 presents select TCL SVOCs in groundwater. Plan 1 presents a summary of TCL VOCs identified in VAS. Plan 2 presents a summary of TCL VOCs identified in groundwater. Plan 3 presents isocontours for select TCL VOCs in the southern area and Plan 4 presents isocontours for select TCL VOCs in the northern area.

4.3 ANALYTICAL DATA VALIDATION RESULTS SUMMARY

Soil and groundwater samples were submitted under COC protocol to STL in North Canton, Ohio. All samples were analyzed using EPA approved methods set forth in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition and Promulgated Update, November 1986.

The laboratory analytical data was reviewed by a CRA chemist to determine the quality and validity of the analytical data resulting from the collection and analysis of groundwater samples. The laboratory analytical data are presented in Appendix C. The data validation memorandum is presented in Appendix D.

The data validation was performed in accordance with the requirements of the State of Michigan, as identified in the Site-specific QAPP and as approved by MDEQ. The data is usable with a few qualifiers as noted in the validation memorandum in Appendix D.

5.0 SUMMARY

5.1 CONCLUSIONS AND RECOMMENDATIONS

5.1.1 SOIL

Historically, the Site operated and maintained a SVE system, which was located in the source area for the TCE. The source of the TCE was determined to be a former degreaser that was operated at the Site until prior to 1979 (exact date of activity cessation unknown). This system was shut down in 2004 after a review was conducted to evaluate the SVE system and determine if the SVE system was removing significant VOC mass from the soil. The results of the study were presented in the Data Report submitted to the MDEQ on March 2, 2004, and identified that the SVE system was not removing significant mass at that time. During this investigation, five soil borings were advanced in the area of the SVE system and source area to determine the VOC concentrations in the soil. Results of the boring activities demonstrate that no TCL VOCs are present above the Michigan Act 451, Part 201 Cleanup Criteria deeper than two feet below ground surface in this area. In the top two feet of the soil column, TCE was detected at levels in excess of Michigan Act 451, Part 201 Industrial Drinking Water Protection Criteria, Groundwater/Surface Water Protection Criteria, and Residential Soil Volatilization to Indoor Air Criteria. It should be noted that the TCE did not exceed the Michigan Act 451, Part 201 Generic Industrial Soil Volatilization to Indoor Air Criterion, which would be the applicable exposure pathway.

Significant mass has been removed by the SVE, and TCE is limited to the area immediately under the floor, as observed in the soil borings. Exact limits of the residual TCE under the floor have not been defined. However, the lateral boundaries are not expected to be far beyond the current data points because: the source was terminated prior to 1979, the majority of the TCE mass was removed by the SVE system, and there are no forces acting to disperse the residual TCE laterally, as the impact is located under the plant floor.

Based on the fact that the majority of the TCE in soil has been removed via the SVE system, the residual concentrations of TCE in soil appear to be limited in extent vertically, and there are no forces acting to laterally disperse the detected residual contamination, it is recommended that a restrictive deed limiting the use of the property to industrial uses only be implemented for the property.

5.1.2 GROUNDWATER

The groundwater conclusions and recommendations presented below address the following three areas of concern:

- Historic TCE Release;
- Free Product/Semi-volatile Organic Compounds; and
- Upgradient PCE Source.

5.1.2.1 HISTORIC TCE RELEASE

The historic TCE release is believed to have occurred in what is now the middle of the Metal Fabrication Division (MFD) plant near Column T-27. The release occurred from historical degreasing operations conducted at the Site, which ceased prior to 1979. This release is considered to be the source of two separate groundwater contamination areas: an on-Site VOC plume and an off-Site/downgradient VOC plume.

5.1.2.1.1 ON-SITE VOC PLUME

Currently, the Site operates and maintains a groundwater pump and treat system (pump and treat). The system consists of two extraction wells, 86-2 and PWDISCH, located in the MFD Plant and in the parking lot across 36th Street, respectively. Based on an evaluation of the pump and treat system, the removal of a significant mass of VOCs has been achieved in the past and separated the residual groundwater VOCs into two distinct parts, on-Site and off-Site. The off-Site plume is discussed in the next section. VOC constituents in the on-Site plume at concentrations exceeding the Michigan Act 451, Part 201 RDWC include TCE and VC. Additionally, VC has also been identified at one location within the plant, 87-5, to be above the Michigan Act 451, Part 201 GSI Criteria.

Significant TCE mass has been removed by the pump and treat system from 86-2 and PWDISCH, which is evident from historical high concentrations of 100,000 ug/L and 180 ug/L, respectively, to current levels of 4.7 ug/L and 1.6 ug/L, respectively. The extent of VOC contamination has been delineated to Michigan Act 451, Part 201 RDWC both vertically and horizontally on the Site. Based on the distance from the 87-5 location to the Cole Drain, the fact that additional wells are located between the exceedance of VC and the drain that do not exhibit concentrations above the GSI Criteria, and the fact

that the belowground utility corridors in the area of 87-5 are situated above the water table, it is not likely that VC will reach the Cole Drain above the GSI Criteria.

Based on the above, it is recommended that the pump and treat system be turned off on February 28, 2005, that quarterly monitoring in select wells for TCL VOCs and select natural attenuation parameters be performed for four consecutive quarters beginning in March 2005, and that remedial alternatives to address the residual contamination as part of an interim closure be evaluated.

5.1.2.1.2 OFF-SITE/DOWNGRADIANT VOC PLUME

The off-Site, downgradient VOC plume has been identified at the Godwin Heights Public School property (GHPS Property) north of the MFD's 36th Street parking lot. VOC concentrations in the off-Site plume above Michigan Act 451, Part 201 RDWC include TCE and PCE. Off-Site concentrations have not been identified above any other Michigan Act 451, Part 201 Cleanup Criteria. It should be noted that there is a separation of the plumes associated with this release, this is likely because portions of the release migrated downgradient laterally prior to the installation of the pump and treat system purge well at the property boundary in the MFD parking lot in 1993.

Significant TCE mass has been removed by PWDISCH at the border of the GHPS Property. However, VOC contamination off-Site has migrated outside of the PWDISCH capture zone and, based on the distance from the monitoring wells exhibiting the concentrations of TCE and PCE above the Michigan Act 451, Part 201 RDWC, the current treatment system is not effective in remediating impacted groundwater from this area. The extent of contamination has been sufficiently delineated to Michigan Act 451, Part 201 RDWC both vertically and horizontally. Based on the determined groundwater flow direction, from south-southeast to north-northwest and the elevation of the Cole Drain relative to the groundwater table, groundwater in the vicinity of the Cole Drain is discharging to the drain, which acts as a gaining stream. No VOCs were detected at concentrations exceeding the Michigan Act 451, Part 201 GSI Criteria. TCE and PCE were detected in HP11-04 to the depth of clay at levels above the Michigan Act 451, Part 201 RDWC.

Based on the above, it is recommended that the pump and treat system be turned off on February 28, 2005, that quarterly monitoring in select wells for TCL VOCs and select natural attenuation parameters be performed for four consecutive quarters beginning in

March 2005, and that remedial alternatives to address the residual contamination as part of an interim closure be evaluated.

5.1.2.2 FREE PRODUCT/SEMI-VOLATILE ORGANIC COMPOUNDS

Historically, there has been some indication of free product identified on-Site in the northeast corner of the MFD Plant. Primarily, the observations were as accumulated "light non-aqueous phase liquids" (LNAPL) in monitoring wells 85-03 and 85-5B, and as detections of SVOCs in monitoring wells 85-03, 85-5B, and 85-6. The thickness of LNAPL fluctuates from one historic observation of four inches to periodically observed sheens during monitoring events of the last year. SVOCs detected above the Michigan Act 451, Part 201 RDWC during the last monitoring round include benzo(a)anthracene, benzo(b)fluoranthene, and bis(2-ethylhexyl)phthalate. Current and recent monitoring information gives no evidence of the presence of LNAPL as recoverable "free product", due to a lack of volume of product present (i.e., observed as a sheen or less than an eighth of an inch in thickness).

The extent of any SVOC contamination is not yet established as recent samplings show a detection of bis(2-ethylhexyl)phthalate above the Michigan Act 451, Part 201 RDWC at 85-6 (a duplicate sample at the same location was below the detection limit).

Based on the lack of consistent observations of the presence of "free product" and the analytical data for SVOCs in this area, it is recommended that one year of quarterly monitoring at the current locations be conducted to further establish the presence or absence of conditions needing further attention.

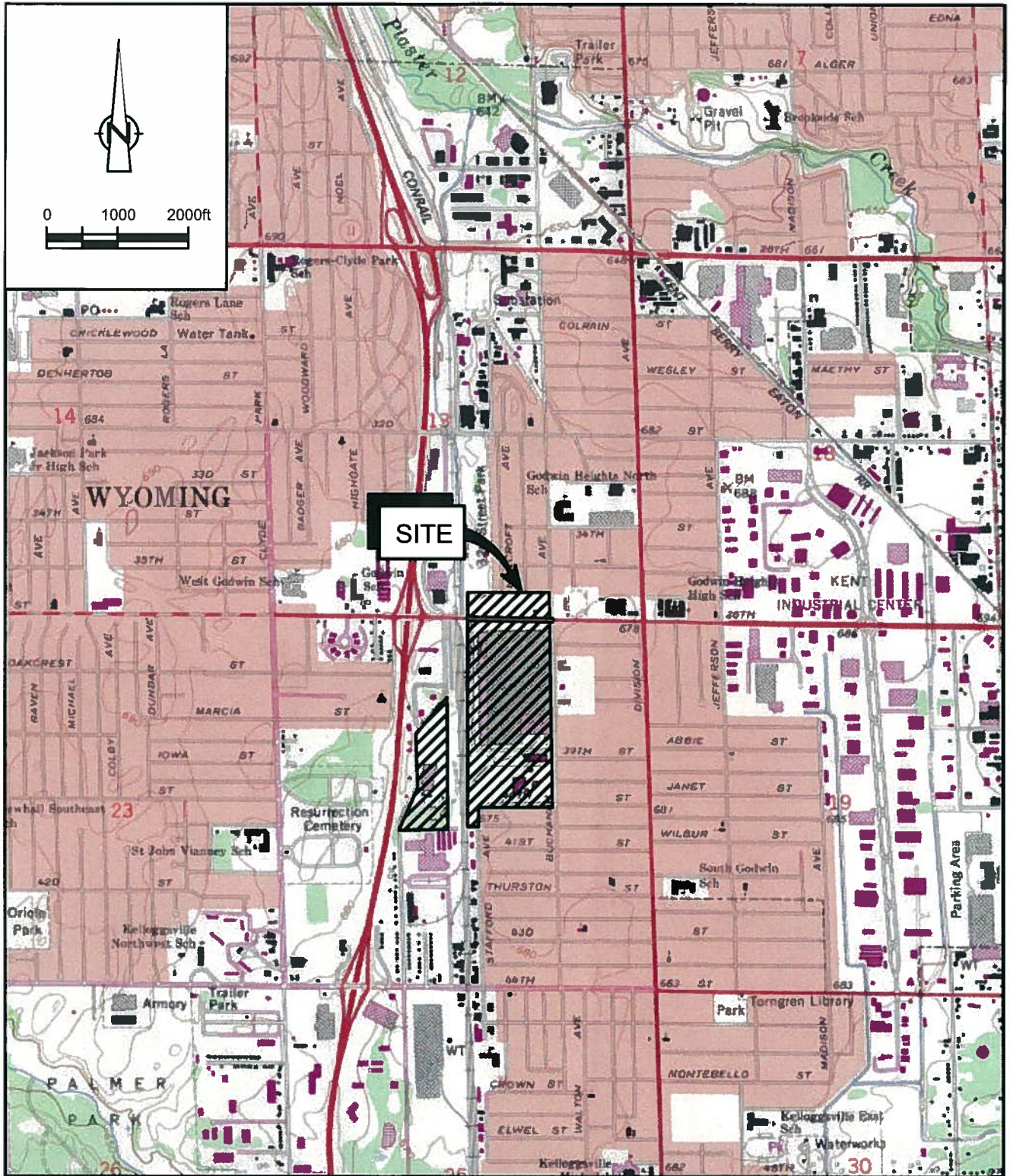
5.1.2.3 UPGRAIDENT PCE SOURCE

Based on the review of documents during a Freedom of Information Act (FOIA) request, PCE and TCE were determined to be present in groundwater at concentrations exceeding the Michigan Act 451, Part 201 Cleanup Criteria at an upgradient industrial property. Based on available documentation, no other potential sources were identified upgradient of the Site during this review. This property is upgradient to the southeastern portion of the Site, where PCE was historically and currently identified in groundwater. PCE has been detected above the Michigan Act 451, Part 201 RDWC at the Site in three locations, MW1-03, MW2-03, and MW11-04. At MW1-03, PCE is also above the Michigan Act 451, Part 201 GSI criteria. The PCE was identified at depths

below the groundwater table migrating onto the Site, which is consistent with concentrations that would be present downgradient of a source area/release.

The time of release, specific up-gradient/source area concentrations, and fate of PCE migrating on to the Site has not been identified. PCE is currently migrating to the Site in the area of MW1-03 at a level of 160 ug/L, which is above the Michigan Act 451, Part 201 GSI Criteria of 45 ug/L and the Michigan Act 451, Part 201 RDWC. The screened interval for MW1-03 is from 30 to 35 feet bgs. Based on the review of analytical results obtained during the 2003 investigation conducted by CRA and summarized in a Data Report submitted to the MDEQ on March 2, 2004, vertical profiling results at the water table indicated a concentration of PCE at 7.0 ug/L (7.1 ug/L in a duplicate sample) in a groundwater sample collected at 24 feet bgs from HP1-03 in this area were below the GSI Criteria. This is important to note because at this location and depth, and at this concentration, it is unlikely that PCE is being collected by the facility's groundwater foundation drain system, which is present at approximately 20 feet bgs and serves to collect groundwater in the areas surrounding the building foundation. Groundwater is collected in the drain system and discharged to the on-Site retention pond, and then discharged to the Cole Drain, pursuant to an NPDES permit. The upgradient source PCE may also have commingled with the TCE release from the Site, and been similarly affected by the Site pump and treat system. The detection of PCE at monitoring well MW11-04 may also be a remnant of the upgradient plume prior to the installation of the pump and treat system.

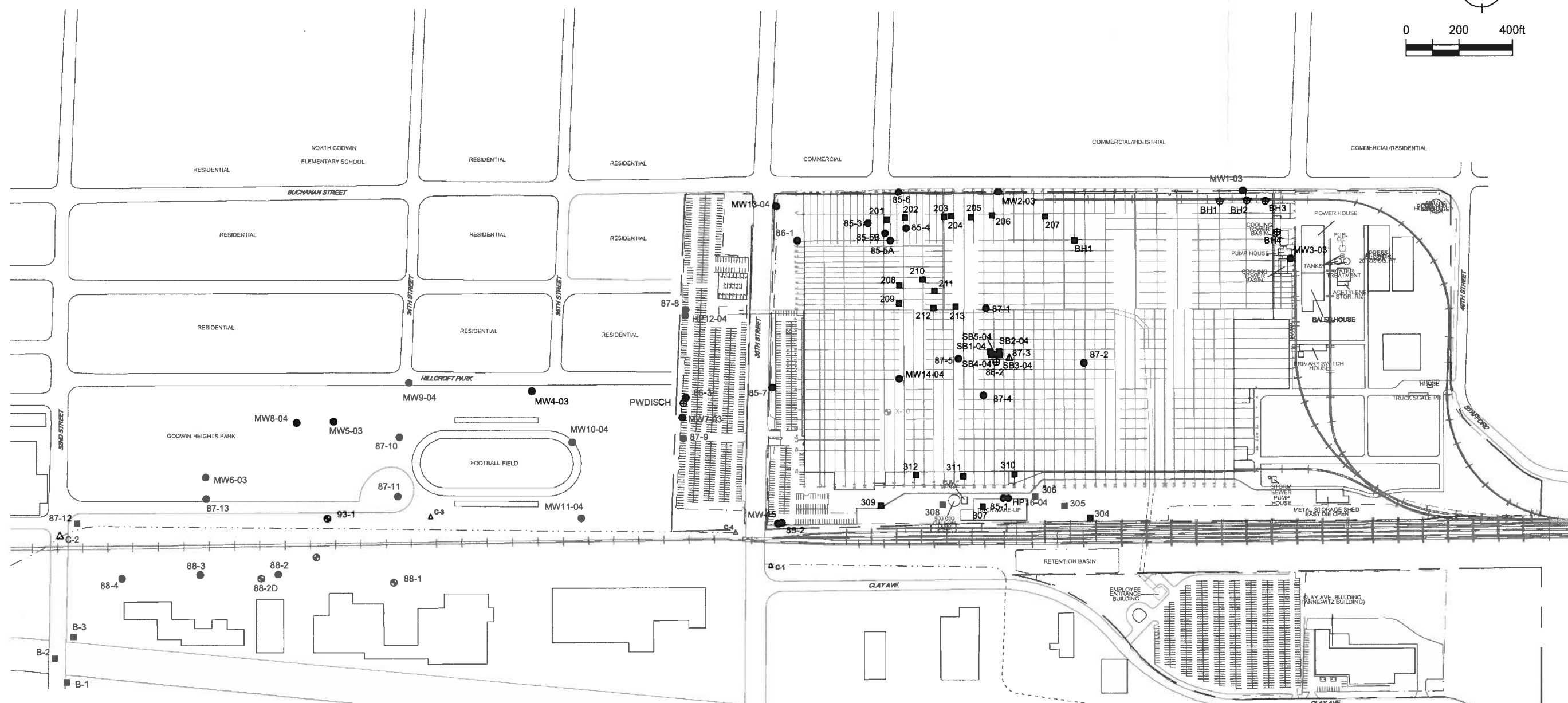
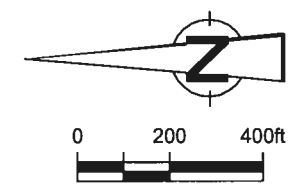
Based on the above, it is recommended that an investigation be conducted to evaluate the impact the off-Site source may have on the foundation drain system at the Site by installing a sampling port in the discharge of the foundation drain system and sampling the discharge three times for PCE, TCE, cis-1,2-DCE, and VC.



SOURCE: USGS QUADRANGLE MAP;
GRAND RAPIDS WEST, MICHIGAN



figure 1.1
SITE LOCATION
GRAND RAPIDS METAL PLANT
Wyoming, Michigan

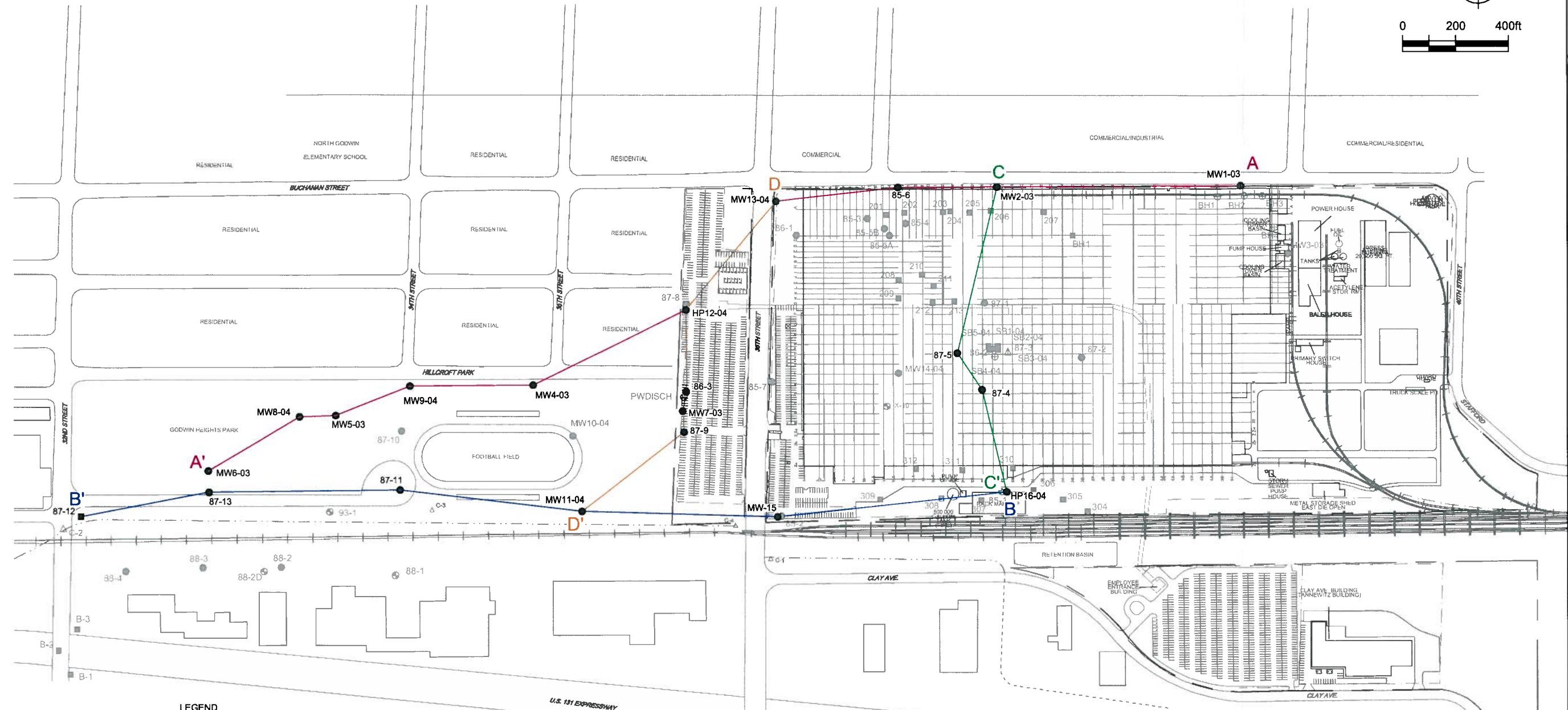
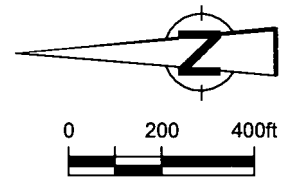


- LEGEND**
- 87-2 MONITORING WELL LOCATION
 - ⊕ PWDISCH PURGE WELL LOCATION
 - 307 SOIL BORING LOCATION
 - ⊙ X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
 - △ C-2 CULVERT LOCATION
 - ▲ 87-3 AIR PURGE WELL
 - ⊕ BH1 APPROXIMATE LOCATION OF DEWATERING WELLS
 - APPROXIMATE PROPERTY BOUNDARY
 - - - - FENCE
 - +—+— RAILROAD
 - - - - COLE DRAIN

figure 1.2

SITE PLAN
GRAND RAPIDS METAL PLANT
Wyoming, Michigan





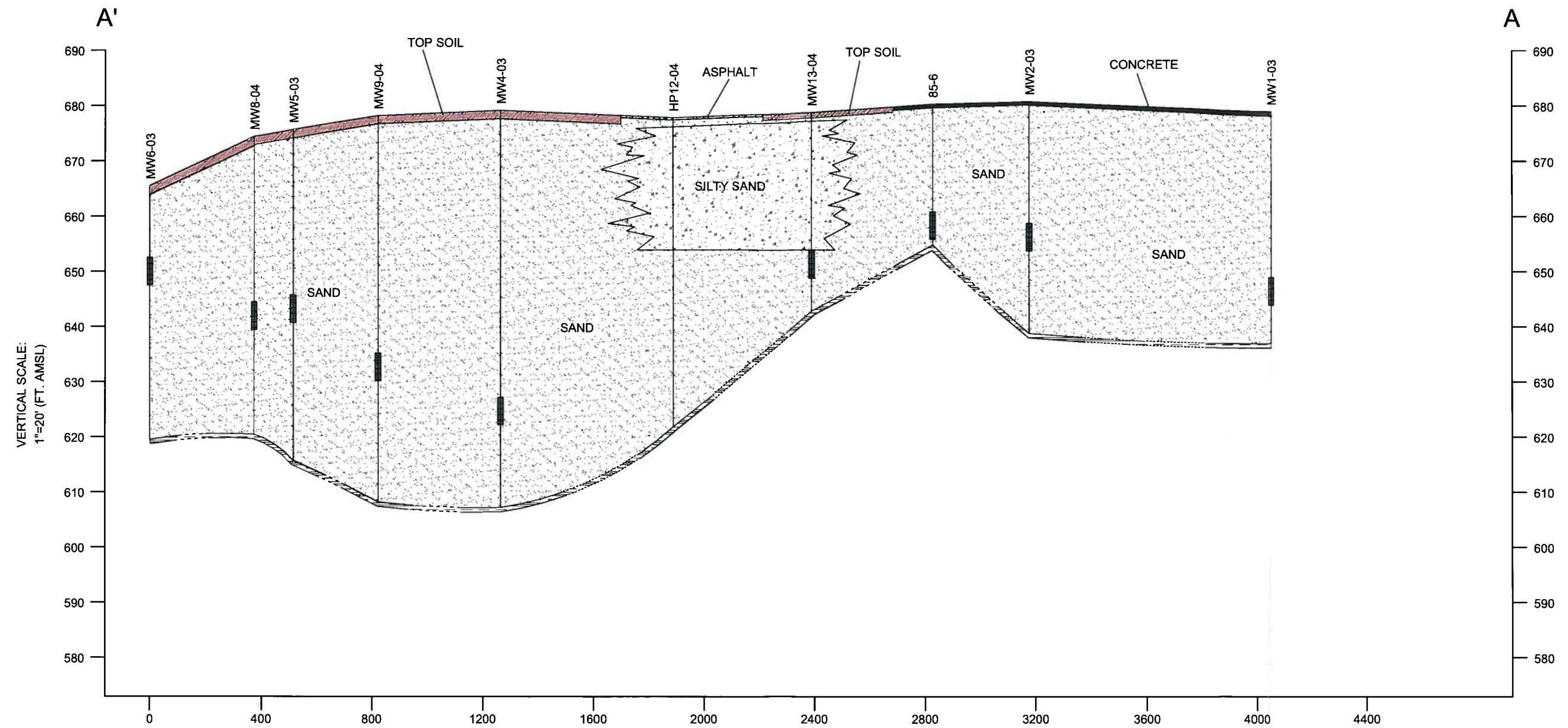
LEGEND

- 87-2 MONITORING WELL LOCATION
- ⊕ PWDISCH PURGE WELL LOCATION
- 307 SOIL BORING LOCATION
- ⊕ X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- △ 87-3 AIR PURGE WELL
- ⊕ BH1 APPROXIMATE LOCATION OF DEWATERING WELLS
- APPROXIMATE PROPERTY BOUNDARY
- - - FENCE
- +— RAILROAD
- - - COLE DRAIN
- A — A' CROSS SECTION LOCATION

figure 2.1

**CROSS SECTION LOCATIONS
GRAND RAPIDS METAL PLANT
Wyoming, Michigan**





- LEGEND**
- SCREENED INTERVAL
 - INTERPRETIVE CONTACT
 - KNOWN CONTACT
 - SILTY SAND
 - SAND
 - CLAY

figure 2.2
 CROSS SECTION A-A'
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan



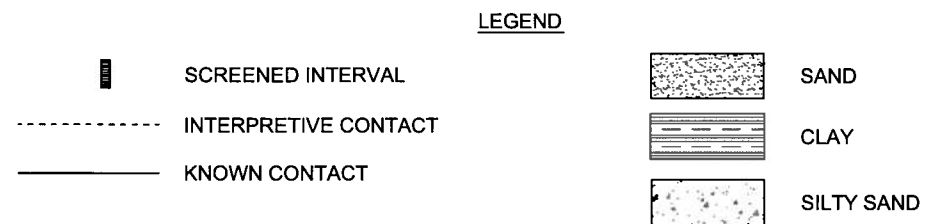
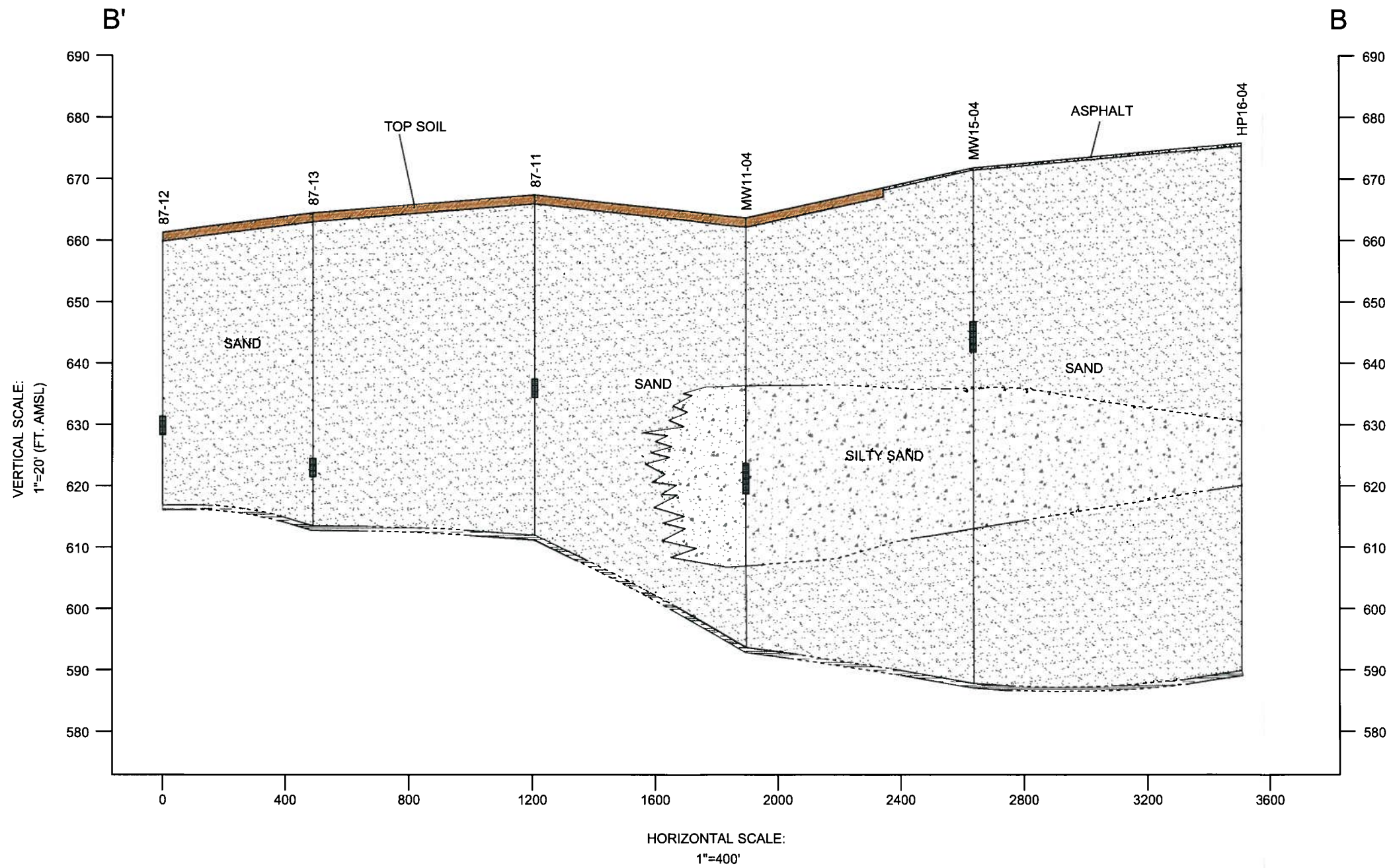


figure 2.3
 CROSS SECTION B-B'
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan



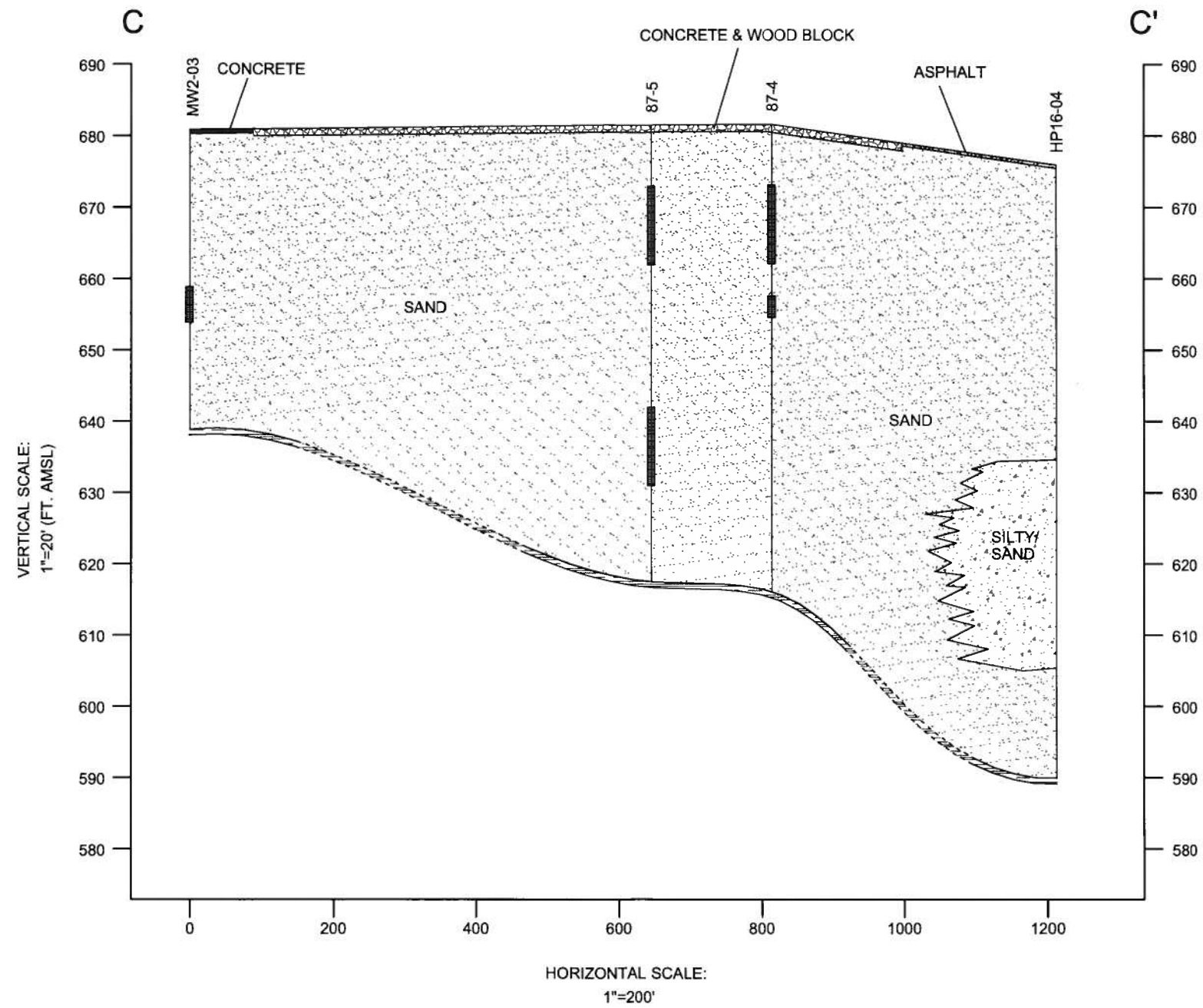


figure 2.4
 CROSS SECTION C-C'
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan



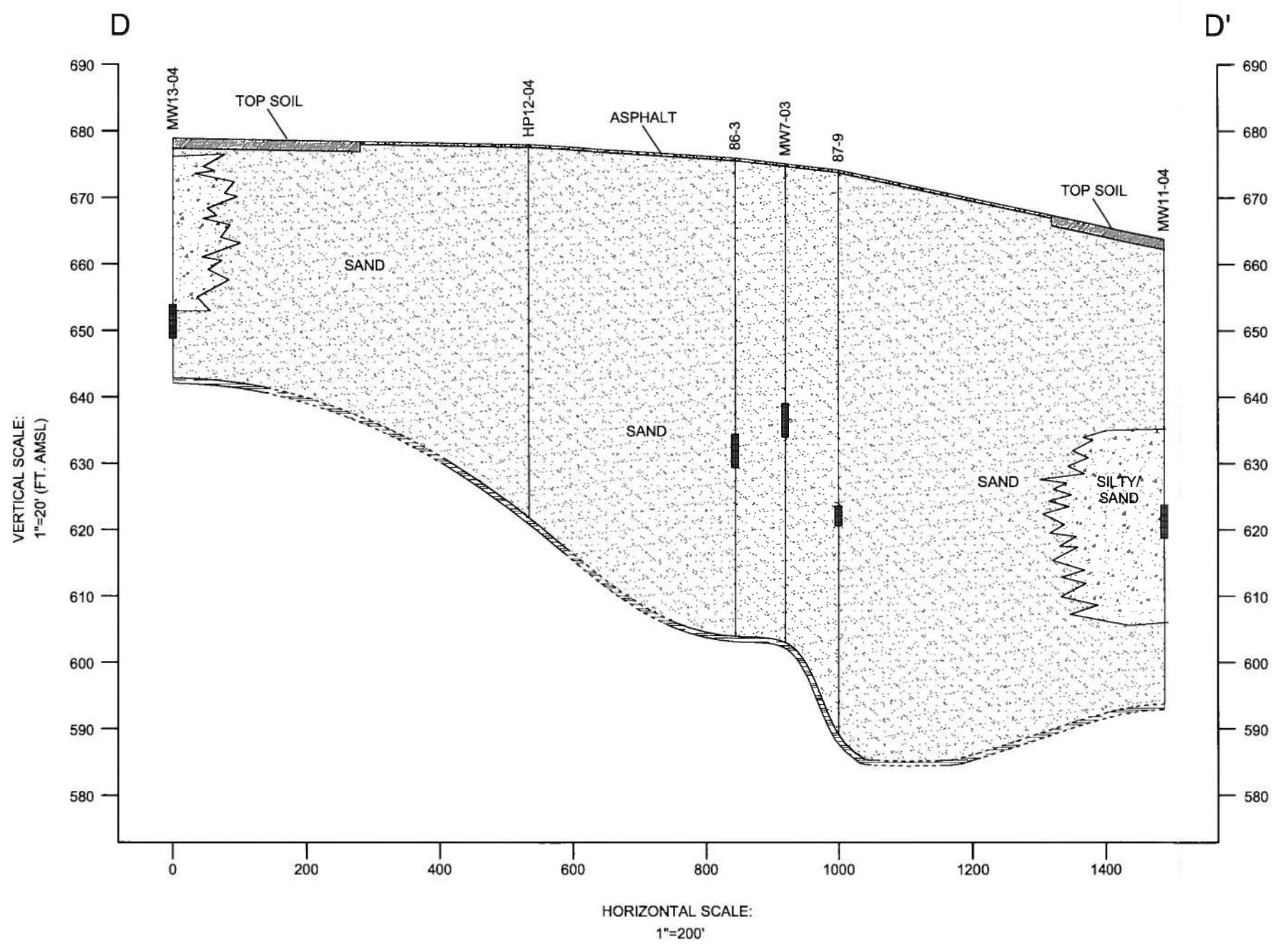
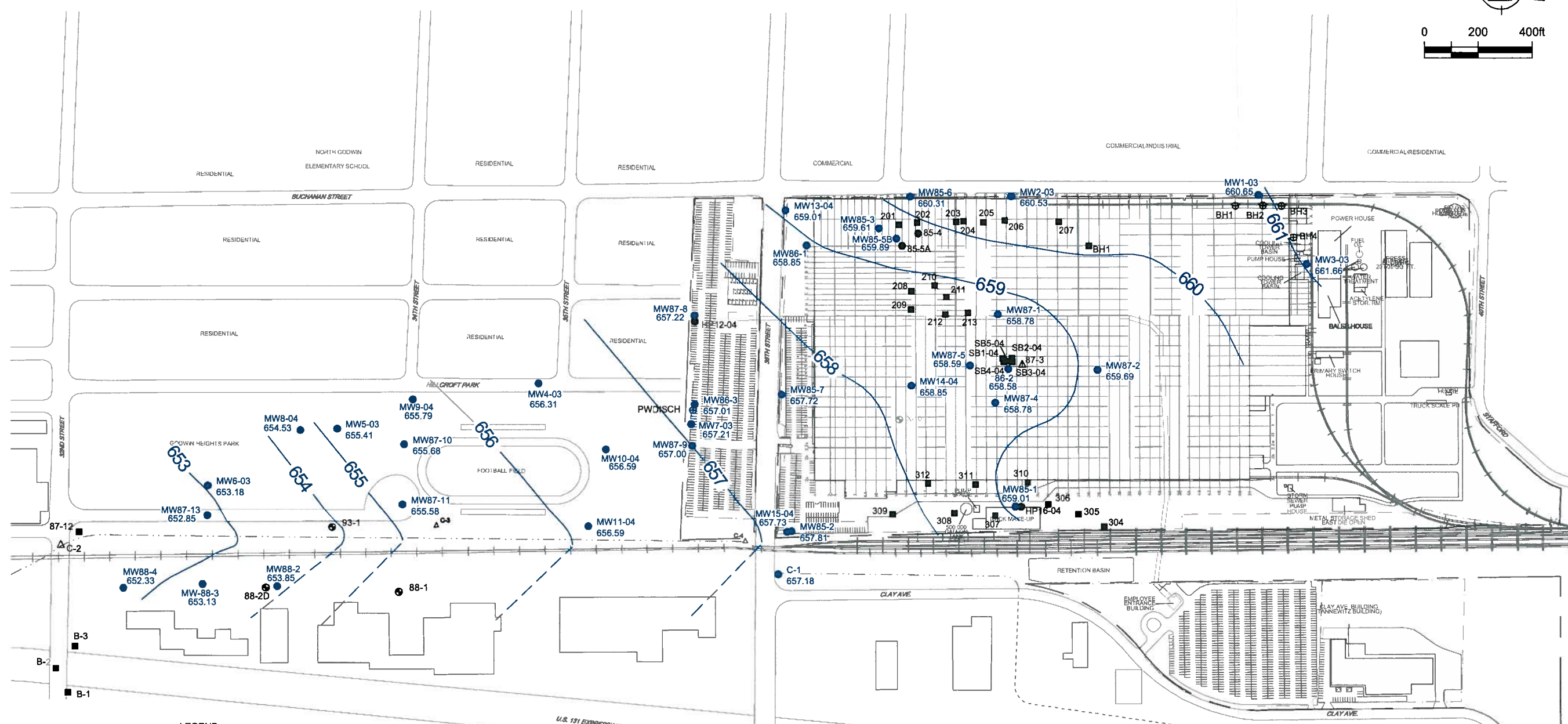
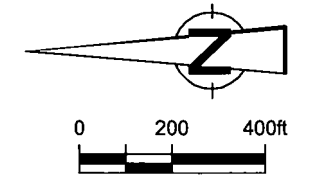


figure 2.5
 CROSS SECTION D-D'
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan



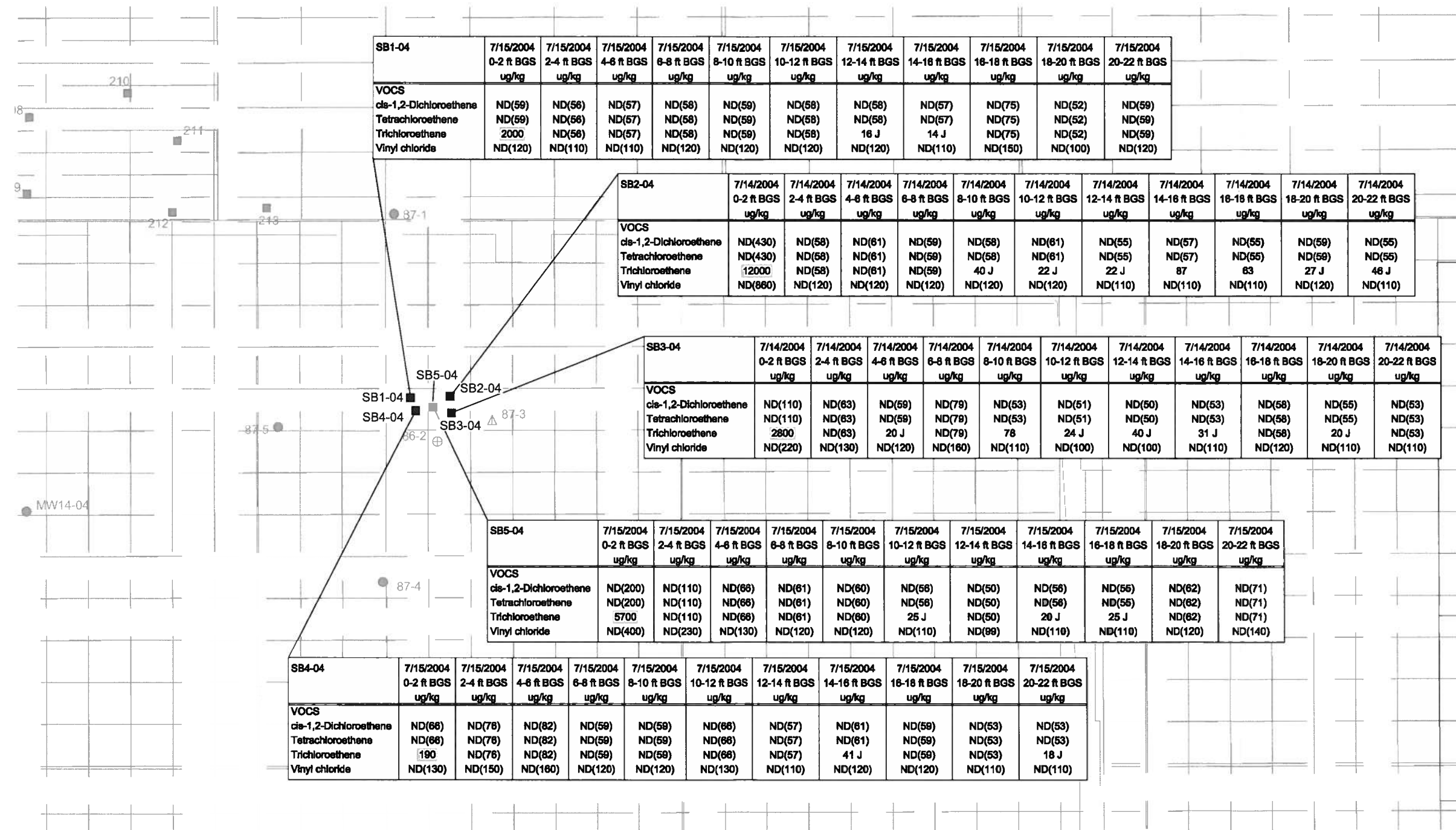


- LEGEND**
- 87-2 MONITORING WELL LOCATION
 - ⊕ PWDISCH PURGE WELL LOCATION
 - 307 SOIL BORING LOCATION
 - ⊙ X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
 - △ C-2 CULVERT LOCATION
 - ▲ 87-3 AIR PURGE WELL
 - ⊕ BH1 APPROXIMATE LOCATION OF DEWATERING WELLS
 - APPROXIMATE PROPERTY BOUNDARY
 - - - - FENCE
 - ==== RAILROAD
 - - - - COLE DRAIN
 - GROUNDWATER CONTOURS
 - GROUNDWATER ELEVATIONS

figure 2.6

APPROXIMATE AUGUST 8, 2004 GROUNDWATER FLOW DIRECTION
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan





SB1-04	7/15/2004 0-2 ft BGS ug/kg	7/15/2004 2-4 ft BGS ug/kg	7/15/2004 4-6 ft BGS ug/kg	7/15/2004 6-8 ft BGS ug/kg	7/15/2004 8-10 ft BGS ug/kg	7/15/2004 10-12 ft BGS ug/kg	7/15/2004 12-14 ft BGS ug/kg	7/15/2004 14-16 ft BGS ug/kg	7/15/2004 16-18 ft BGS ug/kg	7/15/2004 18-20 ft BGS ug/kg	7/15/2004 20-22 ft BGS ug/kg
VOCS											
cis-1,2-Dichloroethene	ND(59)	ND(56)	ND(57)	ND(58)	ND(59)	ND(58)	ND(58)	ND(57)	ND(75)	ND(52)	ND(59)
Tetrachloroethene	ND(59)	ND(56)	ND(57)	ND(58)	ND(59)	ND(58)	ND(58)	ND(57)	ND(75)	ND(52)	ND(59)
Trichloroethene	2000	ND(58)	ND(57)	ND(58)	ND(59)	ND(58)	16 J	14 J	ND(75)	ND(52)	ND(59)
Vinyl chloride	ND(120)	ND(110)	ND(110)	ND(120)	ND(120)	ND(120)	ND(120)	ND(110)	ND(150)	ND(100)	ND(120)

SB2-04	7/14/2004 0-2 ft BGS ug/kg	7/14/2004 2-4 ft BGS ug/kg	7/14/2004 4-6 ft BGS ug/kg	7/14/2004 6-8 ft BGS ug/kg	7/14/2004 8-10 ft BGS ug/kg	7/14/2004 10-12 ft BGS ug/kg	7/14/2004 12-14 ft BGS ug/kg	7/14/2004 14-16 ft BGS ug/kg	7/14/2004 16-18 ft BGS ug/kg	7/14/2004 18-20 ft BGS ug/kg	7/14/2004 20-22 ft BGS ug/kg
VOCS											
cis-1,2-Dichloroethene	ND(430)	ND(58)	ND(61)	ND(59)	ND(58)	ND(61)	ND(55)	ND(57)	ND(55)	ND(59)	ND(55)
Tetrachloroethene	ND(430)	ND(58)	ND(61)	ND(59)	ND(58)	ND(61)	ND(55)	ND(57)	ND(55)	ND(59)	ND(55)
Trichloroethene	12000	ND(58)	ND(61)	ND(59)	40 J	22 J	22 J	87	63	27 J	46 J
Vinyl chloride	ND(860)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(110)	ND(110)	ND(110)	ND(120)	ND(110)

SB3-04	7/14/2004 0-2 ft BGS ug/kg	7/14/2004 2-4 ft BGS ug/kg	7/14/2004 4-6 ft BGS ug/kg	7/14/2004 6-8 ft BGS ug/kg	7/14/2004 8-10 ft BGS ug/kg	7/14/2004 10-12 ft BGS ug/kg	7/14/2004 12-14 ft BGS ug/kg	7/14/2004 14-16 ft BGS ug/kg	7/14/2004 16-18 ft BGS ug/kg	7/14/2004 18-20 ft BGS ug/kg	7/14/2004 20-22 ft BGS ug/kg
VOCS											
cis-1,2-Dichloroethene	ND(110)	ND(63)	ND(59)	ND(79)	ND(53)	ND(51)	ND(50)	ND(53)	ND(58)	ND(55)	ND(53)
Tetrachloroethene	ND(110)	ND(63)	ND(59)	ND(79)	ND(53)	ND(51)	ND(50)	ND(53)	ND(58)	ND(55)	ND(53)
Trichloroethene	2800	ND(63)	20 J	ND(79)	78	24 J	40 J	31 J	ND(58)	20 J	ND(53)
Vinyl chloride	ND(220)	ND(130)	ND(120)	ND(160)	ND(110)	ND(100)	ND(100)	ND(110)	ND(120)	ND(110)	ND(110)

SB5-04	7/15/2004 0-2 ft BGS ug/kg	7/15/2004 2-4 ft BGS ug/kg	7/15/2004 4-6 ft BGS ug/kg	7/15/2004 6-8 ft BGS ug/kg	7/15/2004 8-10 ft BGS ug/kg	7/15/2004 10-12 ft BGS ug/kg	7/15/2004 12-14 ft BGS ug/kg	7/15/2004 14-16 ft BGS ug/kg	7/15/2004 16-18 ft BGS ug/kg	7/15/2004 18-20 ft BGS ug/kg	7/15/2004 20-22 ft BGS ug/kg
VOCS											
cis-1,2-Dichloroethene	ND(200)	ND(110)	ND(66)	ND(61)	ND(60)	ND(56)	ND(50)	ND(56)	ND(55)	ND(62)	ND(71)
Tetrachloroethene	ND(200)	ND(110)	ND(66)	ND(61)	ND(60)	ND(56)	ND(50)	ND(56)	ND(55)	ND(62)	ND(71)
Trichloroethene	5700	ND(110)	ND(66)	ND(61)	ND(60)	25 J	ND(50)	20 J	25 J	ND(62)	ND(71)
Vinyl chloride	ND(400)	ND(230)	ND(130)	ND(120)	ND(120)	ND(110)	ND(88)	ND(110)	ND(110)	ND(120)	ND(140)

SB4-04	7/15/2004 0-2 ft BGS ug/kg	7/15/2004 2-4 ft BGS ug/kg	7/15/2004 4-6 ft BGS ug/kg	7/15/2004 6-8 ft BGS ug/kg	7/15/2004 8-10 ft BGS ug/kg	7/15/2004 10-12 ft BGS ug/kg	7/15/2004 12-14 ft BGS ug/kg	7/15/2004 14-16 ft BGS ug/kg	7/15/2004 16-18 ft BGS ug/kg	7/15/2004 18-20 ft BGS ug/kg	7/15/2004 20-22 ft BGS ug/kg
VOCS											
cis-1,2-Dichloroethene	ND(66)	ND(76)	ND(82)	ND(59)	ND(59)	ND(66)	ND(57)	ND(61)	ND(59)	ND(53)	ND(53)
Tetrachloroethene	ND(66)	ND(76)	ND(82)	ND(59)	ND(59)	ND(66)	ND(57)	ND(61)	ND(59)	ND(53)	ND(53)
Trichloroethene	190	ND(76)	ND(82)	ND(59)	ND(59)	ND(66)	ND(57)	41 J	ND(59)	ND(53)	18 J
Vinyl chloride	ND(130)	ND(150)	ND(160)	ND(120)	ND(120)	ND(130)	ND(110)	ND(120)	ND(120)	ND(110)	ND(110)

LEGEND

- 87-2 MONITORING WELL LOCATION
- ⊕ 86-2 PURGE WELL LOCATION
- 307 SOIL BORING LOCATION
- △ 87-3 AIR PURGE WELL
- SB2-04 SOIL BORING LOCATIONS
- 5700 EXCEEDS MICHIGAN PART 201 CRITERIA

SOURCE: EDI ENGINEERING & SCIENCE,
JUNE 1987 AND JUNE 1988
AND EARTH TECH, SEPTEMBER 2001.

Chemical (ug/kg)	Residential & Commercial I Drinking Water Protection Criteria	Soil Volatilization to Indoor Air Inhalation Criteria	Direct Contact Criteria
cis-1,2-Dichloroethene	1,400	22,000	64,900
Tetrachloroethene	100	11,000	88,000
Trichloroethene	100	7,100	500,000
Vinyl chloride	40	270	3,800

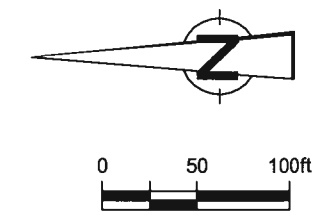
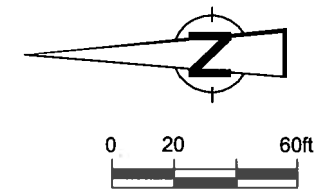


figure 4.1

SELECT TCL VOC IN SOILS
GRAND RAPIDS METAL PLANT
Wyoming, Michigan





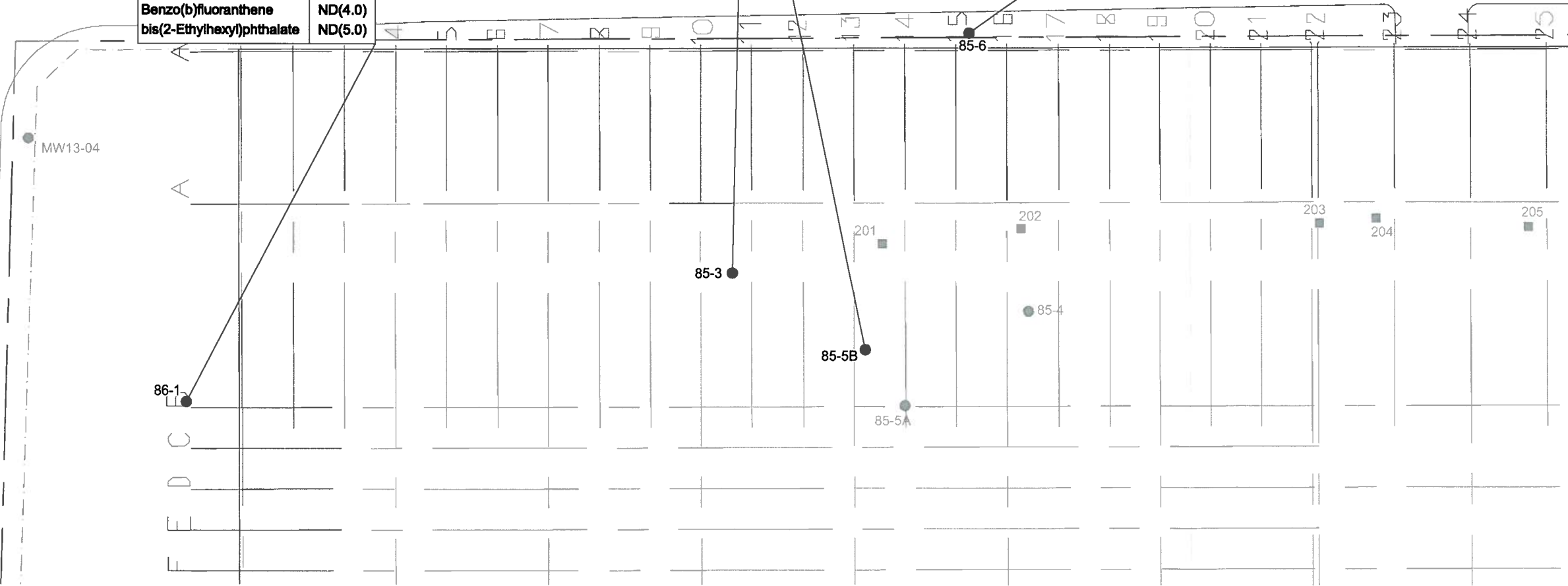
COMMERCIAL

86-1	8/9/2004
	ug/L
SVOCs	
Benzo(a)anthracene	ND(4.0)
Benzo(b)fluoranthene	ND(4.0)
bis(2-Ethylhexyl)phthalate	ND(5.0)

85-3	8/9/2004
	ug/L
SVOCs	
Benzo(a)anthracene	ND(40)
Benzo(b)fluoranthene	ND(40)
bis(2-Ethylhexyl)phthalate	8.4 J

85-5B	8/9/2004
	ug/L
SVOCs	
Benzo(a)anthracene	5.4 J
Benzo(b)fluoranthene	4.3 J
bis(2-Ethylhexyl)phthalate	ND(20)

85-6	8/10/2004
	ug/L
SVOCs	
Benzo(a)anthracene	ND(4.0)/ND(4.0)
Benzo(b)fluoranthene	ND(4.0)/ND(4.0)
bis(2-Ethylhexyl)phthalate	ND(5.0)/8.6



- LEGEND**
- 87-2 MONITORING WELL LOCATION
 - ⊕ 86-2 PURGE WELL LOCATION
 - 307 SOIL BORING LOCATION
 - 8.4 EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA

SOURCE: EDI ENGINEERING & SCIENCE, JUNE 1987 AND JUNE 1988 AND EARTH TECH, SEPTEMBER 2001.

Chemical Name (ug/L)	Residential & Commercial I Drinking Water Criteria
Benzo(a)anthracene	2.1
Benzo(b)fluoranthene	2.0
bis(2-Ethylhexyl)phthalate	6.0

figure 4.2

SELECT TCL SVOC's
GRAND RAPIDS METAL PLANT
Wyoming, Michigan



TABLE 2.1

GROUNDWATER ELEVATIONS
GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Monitoring Well Identification	Elevation of Top of Riser	June 26, 2002		September 26, 2002		December 9, 2002	
		Depth to Groundwater ft. (BTOR)	Groundwater Elevation	Depth to Groundwater ft. (BTOR)	Groundwater Elevation	Depth to Groundwater ft. (BTOR)	Groundwater Elevation
93-1	656.62	2.17	654.45	2.14	654.48	2.00	654.62
88-4	661.20	8.32	652.88	8.48	652.72	8.59	652.61
88-3	664.36	10.24	654.12	10.33	654.03	10.41	653.95
88-2	665.80	10.87	654.93	11.03	654.77	11.06	654.74
87-9	673.13	15.87	657.26	16.13	657.00	16.20	656.93
87-8	676.78	19.29	657.49	19.57	657.21	19.87	656.91
87-5	680.39	21.67	658.72	21.86	658.53	21.95	658.44
87-4	680.91	21.90	659.01	22.05	658.86	22.14	658.77
87-2	680.73	20.70	660.03	20.75	659.98	21.20	659.53
87-13	663.57	10.75	652.82	10.77	652.80	10.55	653.02
87-11	666.25	10.50	655.75	10.63	655.62	10.78	655.47
87-10	667.76	11.80	655.96	11.99	655.77	11.76	656.00
87-1	680.74	21.62	659.12	21.48	659.26	22.10	658.64
86-3	675.80	18.59	657.21	18.47	657.33	18.80	657.00
86-2	680.93	22.17	658.76	22.09	658.84	22.35	658.58
86-1	679.92	19.88	660.04	19.85	660.07	19.95	659.97
85-7	677.84	19.86	657.98	20.07	657.77	20.25	657.59
85-6	679.59	18.67	660.92	19.11	660.48	19.01	660.58
85-5B	680.83	20.45	660.38	20.59	660.24	21.30	659.53
85-3	680.91	20.45	660.46	20.57	660.34	21.49	659.42
85-2	671.63	13.68	657.95	13.82	657.81	13.99	657.64
85-1	675.03	15.77	659.26	15.88	659.15	15.91	659.12
C-3	661.97	NA	NA	NA	NA	NA	NA
C-2	658.81	7.97	650.84	8.01	650.80	7.90	650.91
C-1	662.61	5.62	656.99	5.43	657.18	5.30	657.31
MW1-03	678.68	NA	NA	NA	NA	NA	NA
MW2-03	680.60	NA	NA	NA	NA	NA	NA
MW3-03	676.74	NA	NA	NA	NA	NA	NA
MW4-03	679.12	NA	NA	NA	NA	NA	NA
MW5-03	675.82	NA	NA	NA	NA	NA	NA
MW6-03	665.39	NA	NA	NA	NA	NA	NA
MW7-03	674.79	NA	NA	NA	NA	NA	NA
MW8-04	674.32	NA	NA	NA	NA	NA	NA
MW9-04	678.00	NA	NA	NA	NA	NA	NA
MW10-04	666.29	NA	NA	NA	NA	NA	NA
MW11-04	663.27	NA	NA	NA	NA	NA	NA
MW13-04	678.26	NA	NA	NA	NA	NA	NA
MW14-04	680.62	NA	NA	NA	NA	NA	NA
MW15-04	671.69	NA	NA	NA	NA	NA	NA
PWDJ5CH	677.79	NA	NA	NA	NA	NA	NA

Notes:

ft. BTOR - Feet below top of riser

NA-Not Available

All elevations are measured as Above Mean Sea Level (AMSL)

TABLE 2.1

GROUNDWATER ELEVATIONS
 GENERAL MOTORS CORPORATION
 GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

Monitoring Well Identification	March 20, 2003		July 14, 2003		August 8, 2004	
	Depth to Groundwater ft. (BTOR)	Elevation Top of Riser	Depth to Groundwater ft. (BTOR)	Elevation	Depth to Groundwater ft. (BTOR)	Elevation
93-1	1.77	654.85	2.42	654.20	NA	656.62
88-4	8.64	652.56	NA	NA	8.87	NA
88-3	10.41	653.95	NA	NA	11.23	NA
88-2	11.12	654.68	NA	NA	11.95	NA
87-9	16.37	656.76	16.44	656.69	16.13	673.13
87-8	20.00	656.78	20.29	656.49	19.56	676.78
87-5	22.24	658.15	21.99	658.40	21.80	680.39
87-4	22.62	658.29	27.23	653.68	22.13	680.91
87-2	22.70	658.03	21.33	659.40	21.04	680.73
87-13	10.76	652.81	10.76	652.81	10.72	663.57
87-11	10.84	655.41	10.73	655.52	10.67	666.25
87-10	12.29	655.47	12.19	655.57	12.08	667.76
87-1	22.47	658.27	22.18	658.56	21.91	680.74
86-3	19.10	656.70	18.95	656.85	18.79	675.80
86-2	22.77	658.16	22.48	658.45	22.35	680.93
86-1	21.25	658.67	NA	NA	21.07	NA
85-7	20.43	657.41	20.27	657.57	20.12	677.84
85-6	20.46	659.13	19.79	659.80	19.28	679.59
85-5B	22.04	658.79	21.27	659.56	20.94	680.83
85-3	22.32	658.59	21.60	659.31	21.03	680.91
85-2	15.01	656.62	13.88	657.75	13.82	671.63
85-1	16.44	658.59	16.16	658.87	16.02	675.03
C-3	NA	NA	NA	NA	NA	NA
C-2	7.82	650.99	8.35	650.46	NA	658.81
C-1	5.45	657.16	5.35	657.26	5.43	662.61
MW1-03	NA	NA	18.32	660.36	18.03	678.68
MW2-03	NA	NA	20.56	660.04	20.07	680.60
MW3-03	NA	NA	15.59	661.15	15.08	676.74
MW4-03	NA	NA	22.95	656.17	22.81	679.12
MW5-03	NA	NA	20.54	655.28	20.41	675.82
MW6-03	NA	NA	12.35	653.04	12.21	665.39
MW7-03	NA	NA	17.69	657.10	17.58	674.79
MW8-04	NA	NA	NA	NA	19.79	674.50
MW9-04	NA	NA	NA	NA	22.21	678.27
MW10-04	NA	NA	NA	NA	9.70	666.63
MW11-04	NA	NA	NA	NA	6.68	663.71
MW13-04	NA	NA	NA	NA	19.25	678.85
MW14-04	NA	NA	NA	NA	22.20	681.05
MW15-04	NA	NA	NA	NA	13.96	671.89
PWDJISCH	NA	NA	28.12	649.67	NA	677.79

Notes:
 ft. BTOR - Feet below top of riser
 NA-Not Available
 All elevations are measured as Above

TABLE 3.1

SOIL SAMPLE SUMMARY
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Sample Depth (feet bgs)</u>
S-17360-071404-DCR-078	SB3-04	0'-2'
S-17360-071404-DCR-079	SB3-04	2'-4'
S-17360-071404-DCR-080	SB3-04	4'-6'
S-17360-071404-DCR-081	SB3-04	6'-8'
S-17360-071404-DCR-082	SB3-04	8'-10'
S-17360-071404-DCR-083	SB3-04	10'-12'
S-17360-071404-DCR-084	SB3-04	12'-14'
S-17360-071404-DCR-085	SB3-04	14'-16'
S-17360-071404-DCR-086	SB3-04	16'-18'
S-17360-071404-DCR-087	SB3-04	18'-20'
S-17360-071404-DCR-088	SB3-04	20'-22'
S-17360-071404-DCR-089	SB2-04	0'-2'
S-17360-071404-DCR-090	SB2-04	2'-4'
S-17360-071404-DCR-091	SB2-04	4'-6'
S-17360-071404-DCR-092	SB2-04	6'-8'
S-17360-071404-DCR-093	SB2-04	8'-10'
S-17360-071404-DCR-094	SB2-04	10'-12'
S-17360-071404-DCR-095	SB2-04	12'-14'
S-17360-071404-DCR-096	SB2-04	14'-16'
S-17360-071404-DCR-097	SB2-04	16'-18'
S-17360-071404-DCR-098	SB2-04	18'-20'
S-17360-071404-DCR-099	SB2-04	20'-22'
S-17360-071504-DCR-100	SB5-04	0'-2'
S-17360-071504-DCR-101	SB5-04	2'-4'
S-17360-071504-DCR-102	SB5-04	4'-6'
S-17360-071504-DCR-103	SB5-04	6'-8'
S-17360-071504-DCR-104	SB5-04	8'-10'
S-17360-071504-DCR-105	SB5-04	10'-12'
S-17360-071504-DCR-106	SB5-04	12'-14'
S-17360-071504-DCR-107	SB5-04	14'-16'
S-17360-071504-DCR-108	SB5-04	16'-18'
S-17360-071504-DCR-109	SB5-04	18'-20'
S-17360-071504-DCR-110	SB5-04	20'-22'
S-17360-071504-DCR-111	SB4-04	0'-2'
S-17360-071504-DCR-112	SB4-04	2'-4'
S-17360-071504-DCR-113	SB4-04	4'-6'
S-17360-071504-DCR-114	SB4-04	6'-8'
S-17360-071504-DCR-115	SB4-04	8'-10'
S-17360-071504-DCR-116	SB4-04	10'-12'
S-17360-071504-DCR-117	SB4-04	12'-14'
S-17360-071504-DCR-118	SB4-04	14'-16'
S-17360-071504-DCR-119	SB4-04	16'-18'
S-17360-071504-DCR-120	SB4-04	18'-20'
S-17360-071504-DCR-121	SB4-04	20'-22'
S-17360-071504-DCR-122	SB1-04	0'-2'
S-17360-071504-DCR-123	SB1-04	2'-4'
S-17360-071504-DCR-124	SB1-04	4'-6'
S-17360-071504-DCR-125	SB1-04	6'-8'
S-17360-071504-DCR-126	SB1-04	8'-10'
S-17360-071504-DCR-127	SB1-04	10'-12'
S-17360-071504-DCR-128	SB1-04	12'-14'
S-17360-071504-DCR-129	SB1-04	14'-16'
S-17360-071504-DCR-130	SB1-04	16'-18'
S-17360-071504-DCR-131	SB1-04	18'-20'
S-17360-071504-DCR-132	SB1-04	20'-22'

TABLE 3.2

VERTICAL AQUIFER SAMPLE SUMMARY
 GENERAL MOTORS GRAND RAPIDS METAL PLANT
 WYOMING, MICHIGAN

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Sample Depth (feet bgs)</u>	<u>QA/QC</u>
GW-17360-071204-DCR-071	HP14-04	25	
GW-17360-071204-DCR-072	HP14-04	35	
GW-17360-071204-DCR-073	HP14-04	35	Duplicate
GW-17360-071204-DCR-074	HP14-04	45	
GW-17360-071204-DCR-075	HP14-04	55	
GW-17360-071204-DCR-076	HP14-04	65	
GW-17360-071204-DCR-077	Trip Blank	--	Trip Blank
GW-17360-071904-DCR-133	HP13-04	22	
GW-17360-071904-DCR-134	HP13-04	28.5	
GW-17360-071904-DCR-135	Trip Blank	--	Trip Blank
GW-17360-072004-DCR-136	HP12-04	24	
GW-17360-072004-DCR-137	HP12-04	34	
GW-17360-072004-DCR-138	HP12-04	34	Duplicate
GW-17360-072004-DCR-139	HP12-04	44	MS/MSD
GW-17360-072004-DCR-140	HP12-04	54	
GW-17360-072004-DCR-141	HP15-04	17	
GW-17360-072004-DCR-142	HP15-04	26	
GW-17360-072004-DCR-143	Trip Blank	--	Trip Blank
GW-17360-072104-BM-144	HP15-04	36	
GW-17360-072104-BM-145	HP15-04	46	
GW-17360-072104-BM-146	HP15-04	56	
GW-17360-072104-BM-147	HP15-04	66	
GW-17360-072104-BM-148	HP15-04	76	
GW-17360-072104-BM-149	HP15-04	83.5	
GW-17360-072104-BM-150	Trip Blank	--	Trip Blank
GW-17360-072204-DCR-151	HP8-04	22	
GW-17360-072204-DCR-152	HP8-04	32	
GW-17360-072204-DCR-153	HP8-04	32	Duplicate
GW-17360-072204-DCR-154	HP8-04	43	
GW-17360-072204-DCR-155	HP8-04	53.5	
GW-17360-072204-DCR-156	Trip Blank	--	Trip Blank
GW-17360-072304-DCR-157	HP9-04	26	
GW-17360-072304-DCR-158	HP9-04	36	
GW-17360-072304-DCR-159	HP9-04	46	
GW-17360-072304-DCR-160	HP9-04	56	

Notes:

-- Non Applicable

QA/QC - Quality Assurance/Quality Control

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 3.2

**VERTICAL AQUIFER SAMPLE SUMMARY
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Sample Depth (feet bgs)</u>	<u>QA/QC</u>
GW-17360-072304-DCR-161	HP9-04	66	
GW-17360-072304-DCR-162	Trip Blank	--	Trip Blank
GW-17360-072604-DCR-163	HP-10-04	15	
GW-17360-072604-DCR-164	HP-10-04	25	
GW-17360-072604-DCR-165	HP-10-04	35	
GW-17360-072604-DCR-166	HP-10-04	45	MS/MSD
GW-17360-072604-DCR-167	HP-10-04	55	
GW-17360-072604-DCR-168	HP-10-04	65	
GW-17360-072604-DCR-169	HP-10-04	75	
GW-17360-072604-DCR-170	Trip Blank	--	Trip Blank
GW-17360-072604-DCR-171	HP-10-04	80	
GW-17360-072704-DCR-172	HP11-04	12	
GW-17360-072704-DCR-173	HP11-04	22	
GW-17360-072704-DCR-174	HP11-04	32	
GW-17360-072704-DCR-175	HP11-04	42	
GW-17360-072704-DCR-176	HP11-04	42	Duplicate
GW-17360-072704-DCR-177	HP11-04	52	
GW-17360-072704-DCR-178	Trip Blank	--	Trip Blank
GW-17360-072704-DCR-179	HP11-04	62	
GW-17360-072704-DCR-180	HP11-04	69	
GW-17360-072804-DCR-181	HP16-04	20	
GW-17360-072804-DCR-182	Trip Blank	--	Trip Blank
GW-17360-072804-DCR-183	HP16-04	30	
GW-17360-072804-DCR-184	HP16-04	30	Duplicate
GW-17360-072804-DCR-185	HP16-04	40	
GW-17360-072804-DCR-186	HP16-04	50	
GW-17360-072804-DCR-187	HP16-04	60	
GW-17360-072804-DCR-188	HP16-04	70	MS/MSD
GW-17360-072804-DCR-189	HP16-04	80	
GW-17360-072804-DCR-190	HP16-04	84.5	

Notes:

-- Non Applicable

QA/QC - Quality Assurance/Quality Control

MS/MSD - Matrix Spike/Matrix Spike Duplicate

TABLE 3.3

**GROUNDWATER SAMPLE SUMMARY
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Sample Depth (ft. BTOR)</u>	<u>QA/QC</u>
GW-17360-080904-DCR-191	87-5	39.5-50.5	MS/MSD
GW-17360-080904-DCR-192	87-1	24-29	
GW-17360-080904-DCR-193	87-4	24-27	
GW-17360-080904-DCR-194	87-4	24-27	Duplicate
GW-17360-080904-DCR-195	MW14-04	45-50	
GW-17360-080904-DCR-196	86-2	27.5-32.5	
GW-17360-080904-DCR-197	86-1	18.5-29	
GW-17360-080904-DCR-198	87-2	33.2-38.2	
GW-17360-080904-DCR-199	85-5B	21.9-31.9	
GW-17360-080904-DCR-200	85-3	20.3-30.3	
GW-17360-080904-DCR-201	Trip Blank	--	Trip Blank
GW-17360-081004-DCR-202	85-6	19.5-24.5	
GW-17360-081004-DCR-203	85-6	19.5-24.5	Duplicate
GW-17360-081004-DCR-204	MW2-03	22-27	
GW-17360-081004-DCR-205	MW3-03	25-30	
GW-17360-081004-DCR-206	85-1	15.5-20.5	
GW-17360-081004-DCR-207	MW1-03	30-35	
GW-17360-081004-DCR-208	85-7	20.6-25.6	
GW-17360-081004-DCR-209	MW13-04	25-30	
GW-17360-081004-DCR-210	85-2	13.5-18.5	
GW-17360-081004-DCR-211	MW15-04	25-30	
GW-17360-081004-DCR-212	MW7-03	36-41	
GW-17360-081004-DCR-213	87-9	50.5-53.5	
GW-17360-081004-DCR-214	87-8	19.7-22.7	
GW-17360-081004-DCR-215	87-8	19.7-22.7	Duplicate
GW-17360-081004-DCR-216	86-3	41.5-46.5	
GW-17360-081004-DCR-217	Trip Blank	--	Trip Blank
GW-17360-081104-DCR-218	88-2	26-29	
GW-17360-081104-DCR-219	88-3	27-30	
GW-17360-081104-DCR-220	88-4	18-21	

Notes:

ND - No Available Depth

-- Non Applicable

QA/QC - Quality Assurance/Quality Control

MS/MSD - Matrix Spike/Matrix Spike Duplicate

BTOR - Below top of riser

**GROUNDWATER SAMPLE SUMMARY
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Sample Depth (ft. BTOR)</u>	<u>QA/QC</u>
GW-17360-081104-DCR-221	PWDISCH	45-55	
GW-17360-081104-DCR-222	87-11	30-33	
GW-17360-081104-DCR-223	87-13	40-43	
GW-17360-081104-DCR-224	MW6-03	13-18	
GW-17360-081104-DCR-225	MW8-04	30-35	
GW-17360-081104-DCR-226	87-10	29-32	
GW-17360-081104-DCR-227	MW5-03	30-35	MS/MSD
GW-17360-081104-DCR-228	MW9-04	43-48	
GW-17360-081104-DCR-229	C-3	ND	
GW-17360-081104-DCR-230	C-2	ND	
GW-17360-081104-DCR-231	C-1	5.43	
GW-17360-081104-DCR-232	Trip Blank	--	Trip Blank
GW-17360-081204-DCR-233	MW11-04	40-45	
GW-17360-081204-DCR-234	MW11-04	40-45	Duplicate
GW-17360-081204-DCR-235	MW10-04	33-38	
GW-17360-081204-DCR-236	MW4-03	52-57	
GW-17360-081204-DCR-237	Trip Blank	--	Trip Blank

Notes:

ND - No Available Depth

-- Non Applicable

QA/QC - Quality Assurance/Quality Control

MS/MSD - Matrix Spike/Matrix Spike Duplicate

BTOR - Below top of riser

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	TCL VOC	Units	Drinking Water Protection		Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SBI-04 7/15/2004 (0-2)	SBI-04 7/15/2004 (2-4)	SBI-04 7/15/2004 (4-6)	SBI-04 7/15/2004 (6-8)
			Criteria	Criteria						
1,1,1-Trichloroethane	ug/kg	4000	a	b	c	d	ND(59)	ND(56)	ND(57)	ND(58)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	1600	4300	46000	ND(120)	ND(110)	ND(110)	ND(120)
1,1,2-Trichloroethane	ug/kg	100	6600	6600	4600	180000	ND(59)	ND(56)	ND(57)	ND(58)
1,1-Dichloroethane	ug/kg	18000	15000	230000	890000	890000	ND(59)	ND(56)	ND(57)	ND(58)
1,1-Dichloroethane	ug/kg	140	1300	62	200000	200000	ND(59)	ND(56)	ND(57)	ND(58)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	990000	990000	ND(290)	ND(280)	ND(280)	ND(290)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4	250	1200	1200	1200	ND(290)	ND(280)	ND(280)	ND(290)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	670	250	250	ND(290)	ND(280)	ND(280)	ND(290)
1,2-Dichlorobenzene	ug/kg	14000	360	210000	210000	210000	ND(120)	ND(110)	ND(110)	ND(120)
1,2-Dichloroethane	ug/kg	100	7200	2100	91000	91000	ND(59)	ND(56)	ND(57)	ND(58)
1,2-Dichloropropane	ug/kg	100	5800	4000	140000	140000	ND(59)	ND(56)	ND(57)	ND(58)
1,3-Dichlorobenzene	ug/kg	170	1100	ID	170000	170000	ND(120)	ND(110)	ND(110)	ND(120)
1,4-Dichlorobenzene	ug/kg	1700	290	19000	400000	400000	ND(120)	ND(110)	ND(110)	ND(120)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	27000000	27000000	ND(880)	ND(840)	ND(840)	ND(870)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	360000	ID	2700000	2500000	2500000	ND(2900)	ND(2800)	ND(2800)	ND(2900)
Acetone	ug/kg	15000	34000	110000000	23000000	23000000	ND(880)	ND(840)	ND(850)	ND(870)
Benzene	ug/kg	100	4000	1600	180000	180000	ND(59)	ND(56)	ND(57)	ND(58)
Bromodichloromethane	ug/kg	2000	ID	1200	110000	110000	ND(120)	ND(110)	ND(110)	ND(120)
Bromoform	ug/kg	2000	ID	150000	820000	820000	ND(120)	ND(110)	ND(110)	ND(120)
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	320000	320000	ND(290)	ND(280)	ND(280)	ND(290)
Carbon disulfide	ug/kg	16000	ID	76000	280000	280000	ND(290)	ND(280)	ND(280)	ND(290)
Carbon tetrachloride	ug/kg	100	900	190	96000	96000	ND(59)	ND(56)	ND(57)	ND(58)
Chlorobenzene	ug/kg	2000	940	120000	260000	260000	ND(59)	ND(56)	ND(57)	ND(58)
Chloroethane	ug/kg	8600	ID	950000	950000	950000	ND(290)	ND(280)	ND(280)	ND(290)
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	1200000	1200000	ND(59)	ND(56)	ND(57)	ND(58)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	1100000	1100000	ND(290)	ND(280)	ND(280)U	ND(290)
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	640000	640000	ND(59)	ND(56)	ND(57)	ND(58)
Cyclohexane	ug/kg	2000	ID	3900	110000	110000	ND(1400)	ND(1400)	ND(1400)	ND(1400)
Dibromochloromethane	ug/kg	95000	ID	900000	1000000	1000000	ND(59)	ND(56)	ND(57)	ND(58)
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	87000	140000	140000	ND(120)	ND(110)	ND(110)	ND(120)
Ethylbenzene	ug/kg	91000	ID	390000	390000	390000	ND(59)	ND(56)	ND(57)	ND(58)
Isopropylbenzene	ug/kg	800	15000	5900000	1500000	1500000	ND(290)	ND(280)	ND(280)	ND(290)
Methyl acetate	ug/kg	100	19000	45000	1300000	1300000	ND(290)	ND(280)	ND(280)	ND(290)
Methyl cyclohexane	ug/kg	2700	2200	250000	400000	400000	ND(59)	ND(56)	ND(57)	ND(58)
Methyl Tert Butyl Ether	ug/kg	100	900	11000	88000	88000	ND(59)	ND(56)	ND(57)	ND(58)
Methylene chloride	ug/kg	16000	2800	250000	250000	250000	21 J	ND(110)	ND(110)	ND(120)
Tetrachloroethene	ug/kg	2000	30000	23000	1400000	1400000	ND(59)	ND(56)	ND(57)	ND(58)
trans-1,2-Dichloroethene	ug/kg	100	4000	7100	500000	500000	ND(59)	ND(56)	ND(57)	ND(58)
Trichloroethene	ug/kg	52000	1700	560000	560000	560000	2000*	ND(56)	ND(57)	ND(58)
Trichlorofluoromethane (CFC-11)	ug/kg	550000	300	550000	550000	550000	ND(120)	ND(110)	ND(110)	ND(120)
Trifluorotrichloroethane (Freon 113)	ug/kg	40	300	270	3800	3800	ND(290)	ND(280)	ND(280)	ND(290)
Vinyl chloride	ug/kg	5600	700	150000	150000	150000	ND(120)	ND(110)	ND(110)	ND(120)
Xylene (total)	ug/kg	170	1000	1000	10000	10000	38 J	ND(56)	ND(57)	ND(58)
cis-1,3-Dichloropropene	ug/kg							ND(56)	ND(57)	ND(58)
trans-1,3-Dichloropropene	ug/kg							ND(56)	ND(57)	ND(58)
1,3-Dichloropropene- Total	ug/kg							ND(56)	ND(57)	ND(58)

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	TCL VOC	Units	Drinking Water Protection		Soil Volatilization to Indoor Air	Direct Contact Criteria	SBI-04		SBI-04		SBI-04	
			Criteria	Protection Criteria			(8-10)	(10-12)	(12-14)	(14-16)		
			a	b	c	d	S-17360-071504-DCR-126	S-17360-071504-DCR-127	S-17360-071504-DCR-128	S-17360-071504-DCR-129		
			4000	4000	250000	460000	7/15/2004	7/15/2004	7/15/2004	7/15/2004		
		ug/kg	170	1600	4300	53000	(8-10)	(10-12)	(12-14)	(14-16)		
		ug/kg	100	6600	4600	180000						
		ug/kg	18000	15000	230000	890000						
		ug/kg	140	1300	62	200000						
		ug/kg	4200	1800	1100000	990000						
		ug/kg	4	250	1200	1200						
		ug/kg	14000	360	210000	210000						
		ug/kg	100	7200	2100	91000						
		ug/kg	100	5800	4000	140000						
		ug/kg	170	1100	ID	170000						
		ug/kg	1700	290	19000	400000						
		ug/kg	260000	44000	27000000	27000000						
		ug/kg	20000	ID	990000	2500000						
		ug/kg	15000	34000	110000000	23000000						
		ug/kg	2000	4000	1600	180000						
		ug/kg	2000	ID	1200	110000						
		ug/kg	2000	ID	150000	820000						
		ug/kg	200	700	860	320000						
		ug/kg	16000	ID	76000	280000						
		ug/kg	2000	940	120000	260000						
		ug/kg	8600	ID	950000	950000						
		ug/kg	2000	3400	7200	1200000						
		ug/kg	5200	ID	2300	1100000						
		ug/kg	1400	12000	22000	640000						
		ug/kg	2000	ID	3900	110000						
		ug/kg	95000	ID	900000	1000000						
		ug/kg	1500	360	87000	140000						
		ug/kg	91000	ID	390000	390000						
		ug/kg	800	15000	5900000	1500000						
		ug/kg	100	19000	45000	1300000						
		ug/kg	2700	2200	250000	400000						
		ug/kg	1000	900	11000	88000						
		ug/kg	16000	2800	250000	250000						
		ug/kg	2000	30000	23000	1400000						
		ug/kg	100	4000	7100	500000						
		ug/kg	52000	1700	560000	560000						
		ug/kg	550000	300	550000	550000						
		ug/kg	40	700	270	3800						
		ug/kg	5600	700	150000	150000						
		ug/kg	170	1000	1000	10000						

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Sample Date	Sample Depth	Units	Drinking Water Protection Criteria	GSII Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SBI-04 S-17360-071504-DCR-130 7/15/2004 (16-18)	SBI-04 S-17360-071504-DCR-131 7/15/2004 (18-20)	SBI-04 S-17360-071504-DCR-132 7/15/2004 (20-22)	SBI-04 S-17360-071404-DCR-089 7/14/2004 (0-2)
				a	b	c	d				
1,1,1-Trichloroethane			ug/kg	4000	4000	250000	460000	ND(75)	ND(52)	ND(59)	ND(430)
1,1,2-Tetrachloroethane			ug/kg	170	1600	4300	53000	ND(150)	ND(100)	ND(120)	ND(860)
1,1,2-Trichloroethane			ug/kg	100	6600	4600	180000	ND(75)	ND(52)	ND(69)	ND(430)
1,1-Dichloroethane			ug/kg	18000	15000	230000	890000	ND(75)	ND(52)	ND(59)	ND(430)
1,1-Dichloroethene			ug/kg	140	1300	62	200000	ND(75)	ND(52)	ND(59)	ND(430)
1,2,4-Trichlorobenzene			ug/kg	4200	1800	1100000	990000	ND(380)	ND(260)	ND(290)	ND(2200)
1,2-Dibromo-3-chloropropane (DBCP)			ug/kg	4	250	1200	250	ND(380)	ND(260)	ND(290)	ND(2200)
1,2-Dibromoethane (Ethylene Dibromide)			ug/kg	250	360	670	210000	ND(380)	ND(260)	ND(290)	ND(2200)
1,2-Dichlorobenzene			ug/kg	14000	7200	210000	91000	ND(150)	ND(100)	ND(120)	ND(860)
1,2-Dichloroethane			ug/kg	100	5800	4000	140000	ND(75)	ND(52)	ND(69)	ND(430)
1,2-Dichloropropane			ug/kg	100	1100	ID	40000	ND(75)	ND(52)	ND(69)	ND(430)
1,3-Dichlorobenzene			ug/kg	1700	290	19000	27000000	ND(150)	ND(100)	ND(120)	ND(860)
1,4-Dichlorobenzene			ug/kg	1700	290	19000	400000	ND(150)	ND(100)	ND(120)	ND(860)
2-Butanone (Methyl Ethyl Ketone)			ug/kg	260000	44000	27000000	25000000	ND(1100)	ND(780)	ND(880)	ND(6500)
2-Hexanone			ug/kg	20000	ID	990000	2500000	ND(3800)	ND(2600)	ND(2900)	ND(22000)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)			ug/kg	360000	34000	27000000	27000000	ND(3800)	ND(2600)	ND(2900)	ND(22000)
Acetone			ug/kg	15000	4000	110000000	23000000	ND(1100)	ND(780)	ND(880)	ND(6500)
Benzene			ug/kg	200	ID	1600	180000	ND(75)	ND(52)	ND(59)	ND(430)
Bromodichloromethane			ug/kg	1000	ID	1200	110000	ND(150)	ND(100)	ND(120)	ND(860)
Bromoform			ug/kg	2000	ID	150000	820000	ND(150)	ND(100)	ND(120)	ND(860)
Bromomethane (Methyl Bromide)			ug/kg	200	700	860	320000	ND(380)	ND(260)	ND(290)	ND(2200)
Carbon disulfide			ug/kg	16000	ID	76000	280000	ND(380)	ND(260)	ND(290)	ND(2200)
Carbon tetrachloride			ug/kg	100	900	190	96000	ND(75)	ND(52)	ND(59)	ND(430)
Chlorobenzene			ug/kg	2000	940	120000	260000	ND(75)	ND(52)	ND(59)	ND(430)
Chloroethane			ug/kg	8600	ID	950000	950000	ND(380)	ND(260)	ND(290)	ND(2200)
Chloroform (Trichloromethane)			ug/kg	2000	3400	7200	1200000	ND(75)	ND(52)	ND(59)	ND(430)
Chloromethane (Methyl Chloride)			ug/kg	5200	ID	2300	1100000	ND(380)	ND(260)	ND(290)	ND(2200)
cis-1,2-Dichloroethene			ug/kg	1400	12000	22000	640000	ND(75)	ND(52)	ND(59)	ND(430)
Cyclohexane			ug/kg	2000	ID	3900	110000	ND(1800)	ND(1200)	ND(1400)	ND(10000)
Dibromochloromethane			ug/kg	95000	ID	900000	1000000	ND(75)	ND(52)	ND(59)	ND(430)
Dichlorodifluoromethane (CFC-12)			ug/kg	1500	360	87000	140000	ND(150)	ND(100)	ND(120)	ND(860)
Ethylbenzene			ug/kg	91000	ID	390000	390000	ND(75)	ND(52)	ND(59)	ND(430)
Isopropylbenzene			ug/kg	91000	ID	390000	390000	ND(380)	ND(260)	ND(290)	ND(2200)
Methyl acetate			ug/kg	800	15000	5900000	1500000	ND(1800)	ND(1200)	ND(1400)	ND(10000)
Methyl cyclohexane			ug/kg	100	19000	450000	1300000	ND(380)	ND(260)	ND(290)	ND(2200)
Methyl Tert Butyl Ether			ug/kg	2700	2200	250000	400000	ND(380)	ND(260)	ND(290)	ND(2200)
Methylene chloride			ug/kg	100	900	11000	88000	ND(75)	ND(52)	ND(59)	ND(430)
Styrene			ug/kg	16000	2800	250000	250000	ND(75)	ND(52)	ND(59)	ND(430)
Tetrachloroethene			ug/kg	2000	30000	23000	1400000	ND(150)	ND(100)	ND(120)	ND(860)
trans-1,2-Dichloroethene			ug/kg	100	4000	7100	500000	ND(75)	ND(52)	ND(59)	ND(430)
Trichloroethene			ug/kg	52000	1700	560000	560000	ND(150)	ND(100)	ND(120)	ND(860)
Trichlorofluoromethane (CFC-11)			ug/kg	550000	300	550000	3800	ND(380)	ND(260)	ND(290)	ND(2200)
Trifluorotrchloroethane (Freon 113)			ug/kg	40	700	270	150000	ND(150)	ND(100)	ND(120)	ND(860)
Vinyl chloride			ug/kg	5600	700	150000	150000	ND(230)	ND(160)	ND(180)	ND(140)
Xylene (total)			ug/kg	170	1000	1000	10000	ND(75)	ND(52)	ND(59)	ND(430)
cis-1,3-Dichloropropene			ug/kg					ND(75)	ND(52)	ND(59)	ND(430)
trans-1,3-Dichloropropene			ug/kg					ND(75)	ND(52)	ND(59)	ND(430)
1,3-Dichloropropene- Total			ug/kg					ND(75)	ND(52)	ND(59)	ND(430)

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection Criteria		GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation		Direct Contact Criteria	SB2-04 S-17360-071404-DCR-090 7/14/2004 (2-4)		SB2-04 S-17360-071404-DCR-091 7/14/2004 (4-6)		SB2-04 S-17360-071404-DCR-092 7/14/2004 (6-8)		SB2-04 S-17360-071404-DCR-093 7/14/2004 (8-10)	
		a	b		c	d		SB2-04	SB2-04	SB2-04	SB2-04	SB2-04	SB2-04		
<u>TCL VOC</u>															
1,1,1-Trichloroethane	ug/kg	4000	4000	250000	460000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	4300	53000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
1,1,2-Trichloroethane	ug/kg	100	6600	4600	180000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,1-Dichloroethane	ug/kg	18000	15000	230000	890000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,1-Dichloroethane	ug/kg	140	1300	62	200000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	990000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4		1200	1200	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	670	250	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
1,2-Dichlorobenzene	ug/kg	14000	360	210000	91000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,2-Dichloroethane	ug/kg	100	7200	2100	140000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,2-Dichloropropane	ug/kg	100	5800	4000	140000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
1,3-Dichlorobenzene	ug/kg	170	1100	ID	170000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
1,4-Dichlorobenzene	ug/kg	1700	290	19000	400000	ND(870)	ND(920)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	27000000	ND(2900)	ND(3100)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)
2-Hexanone	ug/kg	20000	ID	990000	2500000	ND(2900)	ND(3100)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	ID	2700000	2700000	ND(870)	ND(920)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)
Acetone	ug/kg	15000	34000	110000000	23000000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Benzene	ug/kg	100	4000	1600	180000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Bromodichloromethane	ug/kg	2000	ID	1200	110000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Bromoform	ug/kg	2000	ID	150000	820000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	320000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
Carbon disulfide	ug/kg	16000	ID	76000	280000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
Carbon tetrachloride	ug/kg	100	900	190	96000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Chlorobenzene	ug/kg	2000	940	120000	260000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Chloroethane	ug/kg	8600	ID	950000	950000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	1200000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	1100000	ND(290)U	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	640000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Cyclohexane	ug/kg	2000	ID	3900	110000	ND(1400)	ND(1500)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)
Dibromochloromethane	ug/kg	95000	ID	900000	1000000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	87000	140000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Ethylbenzene	ug/kg	91000	ID	390000	390000	ND(1400)	ND(1500)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)
Isopropylbenzene	ug/kg	800	15000	590000	1500000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
Methyl acetate	ug/kg	100	19000	45000	1300000	ND(290)	ND(310)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)
Methyl cyclohexane	ug/kg	2700	2200	250000	400000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Methyl Tert Butyl Ether	ug/kg	100	900	11000	88000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Methylene chloride	ug/kg	16000	2800	250000	250000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Toluene	ug/kg	2000	30000	23000	1400000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
trans-1,2-Dichloroethene	ug/kg	100	4000	7100	500000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
Trichloroethene	ug/kg	52000	1700	560000	560000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Trichlorofluoromethane (CFC-11)	ug/kg	550000	40	550000	550000	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Trifluorotrchloroethane (Freon 113)	ug/kg	40	300	270	3800	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)
Vinyl chloride	ug/kg	5600	700	150000	150000	ND(170)	ND(180)	ND(170)	ND(170)	ND(170)	ND(170)	ND(170)	ND(170)	ND(170)	ND(170)
Xylene (total)	ug/kg					ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
cis-1,3-Dichloropropene	ug/kg					ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
trans-1,3-Dichloropropene	ug/kg					ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)
1,3-Dichloropropene- Total	ug/kg	170	10000	1000	10000	ND(58)	ND(61)	ND(59)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)	ND(58)

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection		GSI	Soil		Direct Contact	SB2-04 S-17360-071404-DCR-094 7/14/2004 (10-12)	SB2-04 S-17360-071404-DCR-095 7/14/2004 (12-14)	SB2-04 S-17360-071404-DCR-096 7/14/2004 (14-16)	SB2-04 S-17360-071404-DCR-097 7/14/2004 (16-18)
		Criteria	Criteria		Volatilization to Indoor Air	Inhalation					
<u>TCL VOC</u>		a	b	c	d						
1,1,1-Trichloroethane	ug/kg	4000	4000	250000	460000	ND(61)	ND(65)	ND(57)	ND(55)		
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	4300	53000	ND(120)	ND(110)	ND(110)	ND(110)		
1,1,2-Trichloroethane	ug/kg	100	6600	4600	180000	ND(61)	ND(65)	ND(57)	ND(55)		
1,1-Dichloroethane	ug/kg	18000	15000	230000	890000	ND(61)	ND(61)	ND(57)	ND(55)		
1,1-Dichloroethene	ug/kg	140	1300	62	200000	ND(61)	ND(65)	ND(57)	ND(55)		
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	990000	ND(310)	ND(270)	ND(290)	ND(280)		
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4		1200	1200	ND(310)	ND(270)	ND(290)	ND(280)		
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	670	250	ND(310)	ND(270)	ND(290)	ND(280)		
1,2-Dichlorobenzene	ug/kg	14000	360	210000	210000	ND(120)	ND(110)	ND(110)	ND(110)		
1,2-Dichloroethane	ug/kg	100	7200	2100	91000	ND(61)	ND(65)	ND(57)	ND(55)		
1,2-Dichloropropane	ug/kg	100	5800	4000	140000	ND(61)	ND(65)	ND(57)	ND(55)		
1,3-Dichlorobenzene	ug/kg	170	1100	ID	170000	ND(120)	ND(110)	ND(110)	ND(110)		
1,4-Dichlorobenzene	ug/kg	1700	290	19000	400000	ND(120)	ND(110)	ND(110)	ND(110)		
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	27000000	ND(920)	ND(820)	ND(860)	ND(830)		
2-Hexanone	ug/kg	20000	ID	990000	2500000	ND(3100)	ND(2700)	ND(2900)	ND(2800)		
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	ID	2700000	2700000	ND(3100)	ND(2700)	ND(2900)	ND(2800)		
Acetone	ug/kg	15000	34000	110000000	230000000	ND(920)	ND(820)	ND(860)	ND(830)		
Benzene	ug/kg	100	4000	1600	180000	ND(61)	ND(55)	ND(57)	ND(55)		
Bromodichloromethane	ug/kg	2000	ID	1200	110000	ND(120)	ND(110)	ND(110)	ND(110)		
Bromoform	ug/kg	2000	ID	150000	820000	ND(120)	ND(110)	ND(110)	ND(110)		
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	320000	ND(310)	ND(270)	ND(290)	ND(280)		
Carbon disulfide	ug/kg	16000	ID	76000	280000	ND(310)	ND(270)	ND(290)	ND(280)		
Carbon tetrachloride	ug/kg	100	900	190	96000	ND(61)	ND(55)	ND(57)	ND(55)		
Chlorobenzene	ug/kg	2000	940	120000	260000	ND(61)	ND(55)	ND(57)	ND(55)		
Chloroethane	ug/kg	8600	ID	950000	950000	ND(310)	ND(270)	ND(290)	ND(280)		
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	1200000	ND(61)	ND(55)	ND(57)	ND(55)		
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	1100000	ND(310)	ND(270)U	ND(290)U	ND(280)		
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	640000	ND(61)	ND(55)	ND(57)	ND(55)		
Cyclohexane	ug/kg	2000	ID	3900	110000	ND(1500)	ND(1300)	ND(1400)	ND(1300)		
Dibromochloromethane	ug/kg	95000	ID	900000	1000000	ND(61)	ND(55)	ND(57)	ND(55)		
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	87000	140000	ND(120)	ND(110)	ND(110)	ND(110)		
Ethylbenzene	ug/kg	91000	ID	390000	390000	ND(310)	ND(270)	ND(290)	ND(280)		
Isopropylbenzene	ug/kg					ND(1500)	ND(1300)	ND(1400)	ND(1300)		
Methyl acetate	ug/kg					ND(1500)	ND(1300)	ND(1400)	ND(1300)		
Methyl cyclohexane	ug/kg	800	15000	5900000	15000000	ND(310)	ND(270)	ND(290)	ND(280)		
Methyl Tert Butyl Ether	ug/kg	100	19000	45000	1300000	ND(310)	ND(270)	ND(290)	ND(280)		
Methylene chloride	ug/kg	2700	2200	250000	400000	ND(61)	ND(55)	ND(57)	ND(55)		
Styrene	ug/kg	100	900	11000	88000	ND(61)	ND(55)	ND(57)	ND(55)		
Toluene	ug/kg	16000	2800	250000	250000	ND(120)	ND(110)	ND(110)	ND(110)		
trans-1,2-Dichloroethene	ug/kg	2000	30000	23000	1400000	ND(61)	ND(55)	ND(57)	ND(55)		
Trichloroethene	ug/kg	100	4000	7100	500000	22 J	22 J	87	63		
Trichlorofluoromethane (CFC-11)	ug/kg	52000	1700	560000	560000	ND(120)	ND(110)	ND(110)	ND(110)		
Trifluorotrichloroethane (Freon 113)	ug/kg	550000	300	590000	550000	ND(310)	ND(270)	ND(290)	ND(280)		
Vinyl chloride	ug/kg	40	300	270	3800	ND(120)	ND(110)	ND(110)	ND(110)		
Xylene (total)	ug/kg	5600	700	150000	150000	ND(180)	ND(160)	ND(170)	ND(170)		
cis-1,3-Dichloropropene	ug/kg					ND(61)	ND(55)	ND(57)	ND(55)		
trans-1,3-Dichloropropene	ug/kg					ND(61)	ND(55)	ND(57)	ND(55)		
1,3-Dichloropropene- Total	ug/kg	170	1000	1000	10000	ND(61)	ND(55)	ND(57)	ND(55)		

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Sample Identification	Sample Date	Sample Depth	SB3-04 S-17360-071404-DCR-079 7/14/2004 (2-4)	SB2-04 S-17360-071404-DCR-078 7/14/2004 (0-2)	SB2-04 S-17360-071404-DCR-099 7/14/2004 (20-22)	SB2-04 S-17360-071404-DCR-098 7/14/2004 (18-20)	Direct Contact Criteria	Soil Volatilization to Indoor Air Inhalation	GSI Protection Criteria	Drinking Water Protection Criteria	a	b	c	d	SB3-04 S-17360-071404-DCR-079 7/14/2004 (2-4)
				Units												
	1,1,1-Trichloroethane			ug/kg	4000	4000	250000	460000	250000	4000	4000	4000	4000	4000	460000	ND(110)
	1,1,2,2-Tetrachloroethane			ug/kg	170	1600	4300	53000	4300	1600	170	170	1600	1600	53000	ND(220)
	1,1,2-Trichloroethane			ug/kg	18000	150000	230000	890000	230000	150000	18000	18000	150000	150000	890000	ND(110)
	1,1-Dichloroethane			ug/kg	140	1300	62	200000	62	1300	140	140	1300	62	200000	ND(63)
	1,2,4-Trichlorobenzene			ug/kg	4200	1800	1100000	990000	1100000	1800	4200	4200	1800	1100000	990000	ND(320)
	1,2-Dibromo-3-chloropropane (DBCP)			ug/kg	4	250	1200	250	1200	250	4	4	250	1200	250	ND(320)
	1,2-Dibromoethane (Ethylene Dibromide)			ug/kg	250	360	210000	210000	210000	360	250	250	360	210000	210000	ND(540)
	1,2-Dichlorobenzene			ug/kg	14000	100	2100	91000	2100	14000	14000	14000	100	2100	91000	ND(540)
	1,2-Dichloroethane			ug/kg	100	5800	4000	140000	4000	5800	100	100	5800	4000	140000	ND(63)
	1,2-Dichloropropane			ug/kg	170	290	19000	400000	19000	290	170	170	290	19000	400000	ND(63)
	1,3-Dichlorobenzene			ug/kg	1700	290	19000	400000	19000	290	1700	1700	290	19000	400000	ND(130)
	1,4-Dichlorobenzene			ug/kg	260000	44000	27000000	27000000	27000000	44000	260000	260000	44000	27000000	27000000	ND(950)
	2-Butanone (Methyl Ethyl Ketone)			ug/kg	20000	ID	990000	2500000	990000	ID	20000	20000	ID	990000	2500000	ND(3200)
	4-Methyl-2-Pentanone (Methyl Isobutyl Keto)			ug/kg	36000	ID	2700000	2700000	2700000	ID	36000	36000	ID	2700000	2700000	ND(3200)
	Acetone			ug/kg	15000	34000	110000000	23000000	110000000	34000	15000	15000	34000	110000000	23000000	ND(950)
	Benzene			ug/kg	100	4000	1600	180000	1600	4000	100	100	4000	1600	180000	ND(63)
	Bromodichloromethane			ug/kg	2000	ID	110000	820000	110000	ID	2000	2000	ID	110000	820000	ND(130)
	Bromoform			ug/kg	2000	ID	150000	820000	150000	ID	2000	2000	ID	150000	820000	ND(130)
	Bromomethane (Methyl Bromide)			ug/kg	200	700	860	320000	860	700	200	200	700	860	320000	ND(320)
	Carbon disulfide			ug/kg	16000	ID	76000	280000	76000	ID	16000	16000	ID	76000	280000	ND(320)
	Carbon tetrachloride			ug/kg	100	900	190	96000	190	900	100	100	900	190	96000	ND(63)
	Chlorobenzene			ug/kg	2000	940	120000	260000	120000	940	2000	2000	940	120000	260000	ND(63)
	Chloroethane			ug/kg	8600	ID	950000	950000	950000	ID	8600	8600	ID	950000	950000	ND(320)
	Chloroform (Trichloromethane)			ug/kg	2000	3400	7200	1200000	7200	3400	2000	2000	3400	7200	1200000	ND(63)
	Chloromethane (Methyl Chloride)			ug/kg	5200	ID	2300	1100000	2300	ID	5200	5200	ID	1100000	1100000	ND(320)U
	cis-1,2-Dichloroethene			ug/kg	1400	12000	22000	640000	22000	12000	1400	1400	12000	22000	640000	ND(63)
	Cyclohexane			ug/kg	2000	ID	3900	110000	3900	ID	2000	2000	ID	110000	110000	ND(1500)
	Dibromochloromethane			ug/kg	95000	ID	900000	1000000	900000	ID	95000	95000	ID	900000	1000000	ND(63)
	Dichlorodifluoromethane (CFC-12)			ug/kg	1500	360	87000	140000	87000	360	1500	1500	360	87000	140000	ND(130)
	Ethylbenzene			ug/kg	91000	ID	390000	390000	390000	ID	91000	91000	ID	390000	390000	ND(63)
	Isopropylbenzene			ug/kg	800	15000	5900000	1500000	5900000	15000	800	800	15000	5900000	1500000	ND(320)
	Methyl acetate			ug/kg	100	19000	45000	1300000	45000	19000	100	100	19000	45000	1300000	ND(320)
	Methyl cyclohexane			ug/kg	2700	22000	250000	400000	250000	22000	2700	2700	22000	250000	400000	ND(320)
	Methyl Tert Butyl Ether			ug/kg	100	900	11000	88000	11000	900	100	100	900	11000	88000	ND(63)
	Methylene chloride			ug/kg	16000	2800	250000	250000	250000	2800	16000	16000	2800	250000	250000	ND(63)
	Tetrachloroethene			ug/kg	2000	30000	23000	1400000	23000	30000	2000	2000	30000	23000	1400000	ND(130)
	trans-1,2-Dichloroethene			ug/kg	100	4000	7100	500000	7100	4000	100	100	4000	7100	500000	ND(1500)
	Trichloroethene			ug/kg	52000	1700	560000	560000	560000	1700	52000	52000	1700	560000	560000	ND(63)
	Trichlorofluoromethane (CFC-11)			ug/kg	550000	300	270	3800	300	550000	550000	300	270	3800	300	ND(130)
	Trifluorotrichloroethane (Freon 113)			ug/kg	40	700	150000	150000	150000	700	40	40	700	150000	150000	ND(130)
	Vinyl chloride			ug/kg	5600	170	1000	10000	1000	170	5600	5600	170	1000	10000	ND(190)
	Xylene (total)			ug/kg												ND(63)
	cis-1,3-Dichloropropene			ug/kg												ND(63)
	trans-1,3-Dichloropropene			ug/kg												ND(63)
	1,3-Dichloropropene- Total			ug/kg												ND(63)

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection		GS1 Protection Criteria	Soil Volatilization to Indoor Air		Direct Contact Criteria	SB3-04 (4-6)	SB3-04 (6-8)	SB3-04 (8-10)	SB3-04 (10-12)
		Criteria	Criteria		Inhalation	Criteria					
TCL VOC											
1,1,1-Trichloroethane	ug/kg	4000	4000	4000	250000	d	460000	ND(59)	ND(79)	ND(53)	ND(51)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	1600	4300		53000	ND(120)	ND(160)	ND(110)	ND(100)
1,1,2-Trichloroethane	ug/kg	100	6600	6600	4600		180000	ND(59)	ND(79)	ND(53)	ND(51)
1,1-Dichloroethane	ug/kg	18000	15000	15000	230000		890000	ND(59)	ND(79)	ND(53)	ND(51)
1,1-Dichloroethane	ug/kg	140	1300	1300	62		200000	ND(59)	ND(79)	ND(53)	ND(51)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1800	1100000		990000	ND(300)	ND(400)	ND(270)	ND(260)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4			1200		1200	ND(300)	ND(400)	ND(270)	ND(260)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	250	670		250	ND(300)	ND(400)	ND(270)	ND(260)
1,2-Dichlorobenzene	ug/kg	14000	360	360	210000		210000	ND(120)	ND(160)	ND(110)	ND(100)
1,2-Dichloroethane	ug/kg	100	7200	7200	2100		91000	ND(59)	ND(79)	ND(53)	ND(51)
1,2-Dichloropropane	ug/kg	100	5800	5800	4000		140000	ND(59)	ND(79)	ND(53)	ND(51)
1,3-Dichlorobenzene	ug/kg	170	1100	1100	ID		170000	ND(120)	ND(160)	ND(110)	ND(100)
1,4-Dichlorobenzene	ug/kg	1700	290	290	19000		400000	ND(120)	ND(160)	ND(110)	ND(100)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	44000	990000		27000000	ND(890)	ND(1200)	ND(800)	ND(770)
2-Hexanone	ug/kg	20000	ID	ID	2700000		2500000	ND(3000)	ND(4000)	ND(2700)	ND(2600)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto	ug/kg	36000	ID	ID	2700000		2700000	ND(3000)	ND(4000)	ND(2700)	ND(2600)
Acetone	ug/kg	15000	34000	34000	1100000000		23000000	ND(890)	ND(1200)	ND(800)	ND(770)
Benzene	ug/kg	100	4000	4000	1600		180000	ND(59)	ND(79)	ND(53)	ND(51)
Bromodichloromethane	ug/kg	2000	ID	ID	1200		110000	ND(120)	ND(160)	ND(110)	ND(100)
Bromoform	ug/kg	2000	ID	ID	150000		820000	ND(120)	ND(160)	ND(110)	ND(100)
Bromomethane (Methyl Bromide)	ug/kg	200	700	700	860		320000	ND(300)	ND(400)	ND(270)	ND(260)
Carbon disulfide	ug/kg	16000	ID	ID	76000		280000	ND(300)	ND(400)	ND(270)	ND(260)
Carbon tetrachloride	ug/kg	100	900	900	190		96000	ND(59)	ND(79)	ND(53)	ND(51)
Chlorobenzene	ug/kg	2000	940	940	120000		260000	ND(59)	ND(79)	ND(53)	ND(51)
Chloroethane	ug/kg	8600	ID	ID	950000		950000	ND(300)	ND(400)	ND(270)	ND(260)
Chloroform (Trichloromethane)	ug/kg	2000	3400	3400	7200		1200000	ND(59)	ND(79)	ND(53)	ND(51)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	ID	2300		1100000	ND(300)	ND(400)U	ND(270)U	ND(260)U
cis-1,2-Dichloroethene	ug/kg	1400	12000	12000	22000		640000	ND(59)	ND(79)	ND(53)	ND(51)
Cyclohexane	ug/kg	2000	ID	ID	3900		110000	ND(1400)	ND(1900)	ND(1300)	ND(1200)
Dibromochloromethane	ug/kg	95000	ID	ID	900000		1000000	ND(59)	ND(79)	ND(53)	ND(51)
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	360	87000		140000	ND(120)	ND(160)	ND(110)	ND(100)
Ethylbenzene	ug/kg	91000	ID	ID	390000		390000	ND(59)	ND(79)	ND(53)	ND(51)
Isopropylbenzene	ug/kg	800	15000	15000	5900000		1500000	ND(300)	ND(400)	ND(270)	ND(260)
Methyl acetate	ug/kg	100	19000	19000	45000		1300000	ND(300)	ND(400)	ND(270)	ND(260)
Methyl cyclohexane	ug/kg	2700	2200	2200	250000		400000	ND(300)	ND(400)	ND(270)	ND(260)
Methyl Tert Butyl Ether	ug/kg	100	900	900	11000		88000	ND(59)	ND(79)	ND(53)	ND(51)
Methylene chloride	ug/kg	16000	2800	2800	250000		250000	ND(59)	ND(79)	ND(53)	ND(51)
Tetrachloroethene	ug/kg	2000	30000	30000	23000		1400000	ND(120)	ND(160)	ND(110)	ND(100)
trans-1,2-Dichloroethene	ug/kg	100	4000	4000	7100		500000	ND(59)	ND(79)	ND(53)	ND(51)
Trichloroethene	ug/kg	52000	1700	1700	560000		560000	20 J	78	24 J	24 J
Trichlorofluoromethane (CFC-11)	ug/kg	550000	40	40	270		3800	ND(120)	ND(160)	ND(110)	ND(100)
Trifluorotrchloroethane (Freon 113)	ug/kg	5600	700	700	150000		150000	ND(120)	ND(160)	ND(110)	ND(100)
Vinyl chloride	ug/kg				150000			ND(180)	ND(240)	ND(160)	ND(150)
Xylene (total)	ug/kg							ND(59)	ND(79)	ND(53)	ND(51)
cis-1,3-Dichloropropene	ug/kg							ND(59)	ND(79)	ND(53)	ND(51)
trans-1,3-Dichloropropene	ug/kg							ND(59)	ND(79)	ND(53)	ND(51)
1,3-Dichloropropene- Total	ug/kg	170			1000		10000	ND(59)	ND(79)	ND(53)	ND(51)

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	TCL VOC	Units	Drinking Water Protection Criteria		GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation		Direct Contact Criteria	SB3-04 S-17360-071404-DCR-084 7/14/2004 (12-14)	SB3-04 S-17360-071404-DCR-085 7/14/2004 (14-16)	SB3-04 S-17360-071404-DCR-086 7/14/2004 (16-18)	SB3-04 S-17360-071404-DCR-087 7/14/2004 (18-20)
			a	b		c	d					
1,1,1-Trichloroethane	1,1,1-Trichloroethane	ug/kg	4000	4000	4000	250000	ND(50)	460000	ND(53)	ND(58)	ND(55)	ND(55)
1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	ug/kg	170	1600	1600	4300	ND(100)	53000	ND(110)	ND(120)	ND(110)	ND(110)
1,1,2-Trichloroethane	1,1,2-Trichloroethane	ug/kg	100	6600	6600	4600	ND(50)	180000	ND(53)	ND(58)	ND(55)	ND(55)
1,1-Dichloroethane	1,1-Dichloroethane	ug/kg	18000	15000	15000	230000	ND(50)	890000	ND(53)	ND(58)	ND(55)	ND(55)
1,1-Dichloroethene	1,1-Dichloroethene	ug/kg	140	1300	1300	62	200000	ND(50)	ND(53)	ND(58)	ND(55)	ND(55)
1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene	ug/kg	4200	1800	1800	1100000	ND(250)	990000	ND(260)	ND(290)	ND(270)	ND(270)
1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4	250	250	1200	1200	1200	ND(250)	ND(260)	ND(270)	ND(270)
1,2-Dibromoethane (Ethylene Dibromide)	1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	360	360	670	250	250	ND(250)	ND(260)	ND(270)	ND(270)
1,2-Dichlorobenzene	1,2-Dichlorobenzene	ug/kg	14000	100	100	210000	210000	210000	ND(100)	ND(110)	ND(110)	ND(110)
1,2-Dichloroethane	1,2-Dichloroethane	ug/kg	100	7200	7200	2100	91000	140000	ND(53)	ND(58)	ND(55)	ND(55)
1,2-Dichloropropane	1,2-Dichloropropane	ug/kg	100	5800	5800	4000	140000	140000	ND(53)	ND(58)	ND(55)	ND(55)
1,3-Dichlorobenzene	1,3-Dichlorobenzene	ug/kg	170	1100	1100	ID	170000	400000	ND(110)	ND(120)	ND(110)	ND(110)
1,4-Dichlorobenzene	1,4-Dichlorobenzene	ug/kg	1700	290	290	19000	27000000	27000000	ND(110)	ND(120)	ND(110)	ND(110)
2-Butanone (Methyl Ethyl Ketone)	2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	44000	990000	2500000	2500000	ND(750)	ND(790)	ND(820)	ND(820)
2-Hexanone	2-Hexanone	ug/kg	20000	ID	ID	2700000	2700000	2700000	ND(2500)	ND(2900)	ND(2700)	ND(2700)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	34000	34000	110000000	230000000	230000000	ND(2500)	ND(2900)	ND(2700)	ND(2700)
Acetone	Acetone	ug/kg	15000	4000	4000	1600	180000	180000	ND(750)	ND(860)	ND(820)	ND(820)
Benzene	Benzene	ug/kg	100	ID	ID	1200	110000	820000	ND(53)	ND(58)	ND(55)	ND(55)
Bromodichloromethane	Bromodichloromethane	ug/kg	2000	ID	ID	150000	820000	820000	ND(100)	ND(120)	ND(110)	ND(110)
Bromoform	Bromoform	ug/kg	2000	ID	ID	150000	820000	820000	ND(100)	ND(120)	ND(110)	ND(110)
Bromomethane (Methyl Bromide)	Bromomethane (Methyl Bromide)	ug/kg	200	700	700	860	320000	280000	ND(250)	ND(260)	ND(270)	ND(270)
Carbon disulfide	Carbon disulfide	ug/kg	16000	ID	ID	76000	280000	280000	ND(250)	ND(290)	ND(270)	ND(270)
Carbon tetrachloride	Carbon tetrachloride	ug/kg	100	900	900	190	96000	96000	ND(50)	ND(53)	ND(55)	ND(55)
Chlorobenzene	Chlorobenzene	ug/kg	2000	940	940	120000	260000	260000	ND(53)	ND(58)	ND(55)	ND(55)
Chloroethane	Chloroethane	ug/kg	8600	ID	ID	950000	950000	950000	ND(260)	ND(290)	ND(270)	ND(270)
Chloroform (Trichloromethane)	Chloroform (Trichloromethane)	ug/kg	2000	3400	3400	7200	1200000	1200000	ND(53)	ND(58)	ND(55)	ND(55)
Chloromethane (Methyl Chloride)	Chloromethane (Methyl Chloride)	ug/kg	5200	ID	ID	2300	1100000	1100000	ND(260)U	ND(290)U	ND(270)U	ND(270)U
cis-1,2-Dichloroethene	cis-1,2-Dichloroethene	ug/kg	1400	12000	12000	22000	640000	640000	ND(53)	ND(58)	ND(55)	ND(55)
Cyclohexane	Cyclohexane	ug/kg	2000	ID	ID	3900	110000	110000	ND(1300)	ND(1400)	ND(1300)	ND(1300)
Dibromochloromethane	Dibromochloromethane	ug/kg	2000	ID	ID	3900	110000	110000	ND(53)	ND(58)	ND(55)	ND(55)
Dichlorodifluoromethane (CFC-12)	Dichlorodifluoromethane (CFC-12)	ug/kg	95000	ID	ID	900000	1000000	1000000	ND(110)	ND(120)	ND(110)	ND(110)
Ethylbenzene	Ethylbenzene	ug/kg	1500	360	360	87000	140000	140000	ND(53)	ND(58)	ND(55)	ND(55)
Isopropylbenzene	Isopropylbenzene	ug/kg	91000	ID	ID	3900000	3900000	3900000	ND(260)	ND(290)	ND(270)	ND(270)
Methyl acetate	Methyl acetate	ug/kg	91000	ID	ID	3900000	3900000	3900000	ND(53)	ND(58)	ND(55)	ND(55)
Methyl cyclohexane	Methyl cyclohexane	ug/kg	800	15000	15000	5900000	1500000	1500000	ND(1300)	ND(1400)	ND(1300)	ND(1300)
Methyl Tert Butyl Ether	Methyl Tert Butyl Ether	ug/kg	100	19000	19000	45000	1300000	1300000	ND(1300)	ND(1400)	ND(1300)	ND(1300)
Methylenec chloride	Methylenec chloride	ug/kg	2700	2200	2200	250000	400000	400000	ND(260)	ND(290)	ND(270)	ND(270)
Styrene	Styrene	ug/kg	100	900	900	11000	88000	88000	ND(53)	ND(58)	ND(55)	ND(55)
Tetrachloroethene	Tetrachloroethene	ug/kg	16000	2800	2800	250000	250000	250000	ND(53)	ND(58)	ND(55)	ND(55)
Toluene	Toluene	ug/kg	2000	30000	30000	23000	1400000	1400000	ND(110)	ND(120)	ND(110)	ND(110)
trans-1,2-Dichloroethene	trans-1,2-Dichloroethene	ug/kg	100	4000	4000	7100	500000	500000	ND(53)	ND(58)	ND(55)	ND(55)
Trichloroethene	Trichloroethene	ug/kg	100	4000	4000	7100	500000	500000	31 J	ND(58)	20 J	20 J
Trichlorofluoromethane (CFC-11)	Trichlorofluoromethane (CFC-11)	ug/kg	52000	1700	1700	560000	560000	560000	ND(110)	ND(120)	ND(110)	ND(110)
Trifluorotrichloroethane (Freon 113)	Trifluorotrichloroethane (Freon 113)	ug/kg	550000	300	300	270	3800	3800	ND(260)	ND(290)	ND(270)	ND(270)
Vinyl chloride	Vinyl chloride	ug/kg	40	5600	5600	150000	150000	150000	ND(110)	ND(120)	ND(110)	ND(110)
Xylene (total)	Xylene (total)	ug/kg	5600	700	700	150000	150000	150000	ND(150)	ND(160)	ND(160)	ND(160)
cis-1,3-Dichloropropene	cis-1,3-Dichloropropene	ug/kg	170	10000	10000	1000	10000	10000	ND(50)	ND(53)	ND(55)	ND(55)
trans-1,3-Dichloropropene	trans-1,3-Dichloropropene	ug/kg	170	10000	10000	1000	10000	10000	ND(50)	ND(53)	ND(55)	ND(55)
1,3-Dichloropropene- Total	1,3-Dichloropropene- Total	ug/kg	170	10000	10000	1000	10000	10000	ND(50)	ND(53)	ND(55)	ND(55)

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection Criteria	GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SB3-04 S-17360-071404-DCR-088 7/14/2004 (20-22)	SB4-04 S-17360-071504-DCR-111 7/15/2004 (0-2)	SB4-04 S-17360-071504-DCR-112 7/15/2004 (2-4)
TCL VOC	a	b	c	d				
1,1,1-Trichloroethane	4000 ug/kg	4000	250000	460000	ND(63)	ND(66)	ND(76)	ND(76)
1,1,2,2-Tetrachloroethane	170 ug/kg	1600	4300	53000	ND(110)	ND(130)	ND(150)	ND(150)
1,1,2-Trichloroethane	100 ug/kg	6600	4600	180000	ND(63)	ND(66)	ND(76)	ND(76)
1,1-Dichloroethane	18000 ug/kg	15000	230000	890000	ND(63)	ND(66)	ND(76)	ND(76)
1,1-Dichloroethane	140 ug/kg	1300	62	200000	ND(63)	ND(66)	ND(76)	ND(76)
1,2,4-Trichlorobenzene	4200 ug/kg	1800	1100000	990000	ND(260)	ND(330)	ND(380)	ND(380)
1,2-Dibromo-3-chloropropane (DBCP)	4 ug/kg	1200	1200	1200	ND(330)	ND(330)	ND(380)	ND(380)
1,2-Dibromoethane (Ethylene Dibromide)	250 ug/kg	250	670	250	ND(260)	ND(330)	ND(380)	ND(380)
1,2-Dichlorobenzene	14000 ug/kg	360	210000	210000	ND(110)	ND(130)	ND(150)	ND(150)
1,2-Dichloroethane	100 ug/kg	7200	2100	91000	ND(63)	ND(66)	ND(76)	ND(76)
1,2-Dichloropropane	100 ug/kg	5800	4000	140000	ND(63)	ND(66)	ND(76)	ND(76)
1,3-Dichlorobenzene	170 ug/kg	1100	ID	170000	ND(110)	ND(130)	ND(150)	ND(150)
1,4-Dichlorobenzene	1700 ug/kg	290	19000	400000	ND(110)	ND(130)	ND(150)	ND(150)
2-Butanone (Methyl Ethyl Ketone)	260000 ug/kg	44000	27000000	27000000	ND(790)	ND(990)	ND(1100)	ND(1100)
2-Hexanone	20000 ug/kg	ID	990000	2500000	ND(2600)	ND(3300)	ND(3800)	ND(3800)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	36000 ug/kg	ID	2700000	2700000	ND(2600)	ND(3300)	ND(3800)	ND(3800)
Acetone	15000 ug/kg	34000	110000000	230000000	ND(790)	ND(990)	ND(1100)	ND(1100)
Benzene	100 ug/kg	4000	1600	180000	ND(63)	ND(66)	ND(76)	ND(76)
Bromodichloromethane	2000 ug/kg	ID	1200	110000	ND(110)	ND(130)	ND(150)	ND(150)
Bromoform	2000 ug/kg	ID	150000	820000	ND(110)	ND(130)	ND(150)	ND(150)
Bromomethane (Methyl Bromide)	200 ug/kg	700	860	320000	ND(260)	ND(330)	ND(380)	ND(380)
Carbon disulfide	16000 ug/kg	ID	76000	280000	ND(260)	ND(330)	ND(380)	ND(380)
Carbon tetrachloride	100 ug/kg	900	190	96000	ND(63)	ND(66)	ND(76)	ND(76)
Chlorobenzene	2000 ug/kg	940	120000	260000	ND(63)	ND(66)	ND(76)	ND(76)
Chloroethane	8600 ug/kg	ID	950000	950000	ND(260)	ND(330)	ND(380)	ND(380)
Chloroform (Trichloromethane)	2000 ug/kg	3400	7200	1200000	ND(63)	ND(66)	ND(76)	ND(76)
Chloromethane (Methyl Chloride)	5200 ug/kg	ID	2300	1100000	ND(260)U	ND(330)	ND(380)	ND(380)
cis-1,2-Dichloroethene	1400 ug/kg	12000	22000	640000	ND(63)	ND(66)	ND(76)	ND(76)
Cyclohexane	2000 ug/kg	ID	3900	110000	ND(1300)	ND(1600)	ND(1800)	ND(1800)
Dibromochloromethane	950000 ug/kg	ID	900000	1000000	ND(63)	ND(66)	ND(76)	ND(76)
Dichlorodifluoromethane (CFC-12)	1500 ug/kg	360	87000	140000	ND(110)	ND(130)	ND(150)	ND(150)
Ethylbenzene	91000 ug/kg	ID	390000	390000	ND(63)	ND(66)	ND(76)	ND(76)
Methyl acetate	800 ug/kg	15000	590000	1500000	ND(1300)	ND(1600)	ND(1800)	ND(1800)
Methyl cyclohexane	100 ug/kg	19000	45000	1300000	ND(260)	ND(330)	ND(380)	ND(380)
Methyl Tert Butyl Ether	2700 ug/kg	2200	250000	400000	ND(63)	ND(66)	ND(76)	ND(76)
Methylene chloride	100 ug/kg	900	11000	88000	ND(63)	ND(66)	ND(76)	ND(76)
Tetrachloroethene	16000 ug/kg	2800	250000	250000	ND(110)	ND(130)	ND(150)	ND(150)
Toluene	2000 ug/kg	30000	23000	1400000	ND(63)	ND(66)	ND(76)	ND(76)
trans-1,2-Dichloroethene	100 ug/kg	4000	7100	500000	ND(1300)	ND(1600)	ND(1800)	ND(1800)
Trichloroethene	52000 ug/kg	1700	560000	560000	ND(110)	ND(130)	ND(150)	ND(150)
Trichlorofluoromethane (CFC-11)	550000 ug/kg	1700	550000	550000	ND(260)	ND(330)	ND(380)	ND(380)
Trifluorotrchloroethane (Freon 113)	40 ug/kg	300	270	3800	ND(110)	ND(130)	ND(150)	ND(150)
Vinyl chloride	5600 ug/kg	700	150000	150000	ND(160)	ND(200)	ND(230)	ND(230)
Xylene (total)	170 ug/kg	1000	1000	10000	ND(63)	ND(66)	ND(76)	ND(76)
trans-1,3-Dichloropropene								
1,3-Dichloropropene- Total								

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection Criteria		GSI Protection Criteria		Soil Volatilization to Indoor Air Inhalation		Direct Contact Criteria		SB4-04 S-17360-071504-DCR-113 7/15/2004 (4-6)	SB4-04 S-17360-071504-DCR-114 7/15/2004 (6-8)	SB4-04 S-17360-071504-DCR-115 7/15/2004 (8-10)	SB4-04 S-17360-071504-DCR-116 7/15/2004 (10-12)
		a	b	c	d	SB4-04 S-17360-071504-DCR-113 7/15/2004 (4-6)	SB4-04 S-17360-071504-DCR-114 7/15/2004 (6-8)	SB4-04 S-17360-071504-DCR-115 7/15/2004 (8-10)	SB4-04 S-17360-071504-DCR-116 7/15/2004 (10-12)				
TCL VOC													
1,1,1-Trichloroethane	ug/kg	4000	4000	2500000	4600000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	4300	530000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
1,1,2-Trichloroethane	ug/kg	100	6600	4600	1800000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,1-Dichloroethane	ug/kg	18000	15000	230000	890000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,1-Dichloroethene	ug/kg	140	1300	62	200000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	990000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4	1200	1200	1200	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	670	250	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
1,2-Dichlorobenzene	ug/kg	14000	360	210000	210000	ND(160)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
1,2-Dichloroethane	ug/kg	100	7200	2100	91000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,2-Dichloropropane	ug/kg	100	5800	4000	140000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,3-Dichlorobenzene	ug/kg	170	1100	ID	170000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
1,4-Dichlorobenzene	ug/kg	1700	290	19000	400000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	27000000	ND(1200)	ND(890)	ND(890)	ND(890)	ND(890)	ND(890)	ND(890)	ND(980)
2-Hexanone	ug/kg	20000	ID	990000	2500000	ND(4100)	ND(3000)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(3300)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	ID	2700000	2700000	ND(4100)	ND(3000)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(2900)	ND(3300)
Acetone	ug/kg	15000	34000	110000000	23000000	ND(1200)	ND(890)	ND(880)	ND(880)	ND(880)	ND(880)	ND(880)	ND(980)
Benzene	ug/kg	100	4000	1600	180000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Bromodichloromethane	ug/kg	2000	ID	1200	110000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Bromoform	ug/kg	2000	ID	150000	820000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	320000	ND(410)	ND(300)	ND(300)	ND(300)	ND(300)	ND(300)	ND(300)	ND(330)
Carbon disulfide	ug/kg	16000	ID	76000	280000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Carbon tetrachloride	ug/kg	100	900	190	96000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Chlorobenzene	ug/kg	2000	940	120000	260000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Chloroethane	ug/kg	8600	ID	950000	950000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	1200000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	1100000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	640000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Cyclohexane	ug/kg	2000	ID	3900	110000	ND(2000)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1600)
Dibromochloromethane	ug/kg	95000	ID	900000	1000000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	87000	140000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Ethylbenzene	ug/kg	91000	ID	390000	390000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Isopropylbenzene	ug/kg	800	15000	590000	1500000	ND(2000)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1400)	ND(1600)
Methyl acetate	ug/kg	100	19000	45000	1300000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Methyl cyclohexane	ug/kg	2700	2200	250000	400000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Methyl Tert Butyl Ether	ug/kg	100	900	11000	88000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Methylene chloride	ug/kg	16000	2800	250000	250000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Tetrachloroethene	ug/kg	2000	30000	23000	1400000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
Toluene	ug/kg	100	4000	7100	500000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
trans-1,2-Dichloroethene	ug/kg	52000	1700	560000	560000	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Trichlorofluoromethane (CFC-11)	ug/kg	550000	300	550000	550000	ND(410)	ND(300)	ND(290)	ND(290)	ND(290)	ND(290)	ND(290)	ND(330)
Trifluorotrichloroethane (Freon 113)	ug/kg	40	300	270	3800	ND(160)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(120)	ND(130)
Vinyl chloride	ug/kg	5600	700	150000	150000	ND(250)	ND(180)	ND(180)	ND(180)	ND(180)	ND(180)	ND(180)	ND(200)
Xylene (total)	ug/kg	170	1000	1000	10000	ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
cis-1,3-Dichloropropene	ug/kg					ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
trans-1,3-Dichloropropene	ug/kg					ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)
1,3-Dichloropropene-Total	ug/kg					ND(82)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(59)	ND(66)

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection		GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SB4-04 S-17360-071504-DCR-117 7/15/2004 (12-14)	SB4-04 S-17360-071504-DCR-118 7/15/2004 (14-16)	SB4-04 S-17360-071504-DCR-119 7/15/2004 (16-18)	SB4-04 S-17360-071504-DCR-120 7/15/2004 (18-20)
		a	b							
1,1,1-Trichloroethane	ug/kg	4000	4000	250000	ND(57)	460000	ND(61)	ND(59)	ND(53)	
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	4300	ND(110)	53000	ND(120)	ND(120)	ND(110)	
1,1,2-Trichloroethane	ug/kg	100	6600	4600	ND(57)	180000	ND(61)	ND(59)	ND(53)	
1,1-Dichloroethane	ug/kg	18000	15000	230000	ND(57)	890000	ND(61)	ND(59)	ND(53)	
1,1-Dichloroethene	ug/kg	140	1300	62	ND(57)	200000	ND(61)	ND(59)	ND(53)	
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	ND(280)	990000	ND(310)	ND(290)	ND(270)	
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4	250	1200	ND(280)	1200	ND(310)	ND(290)	ND(270)	
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	360	670	ND(280)	250	ND(310)	ND(290)	ND(270)	
1,2-Dichlorobenzene	ug/kg	14000	7200	210000	ND(110)	210000	ND(120)	ND(120)	ND(110)	
1,2-Dichloroethane	ug/kg	100	7200	2100	ND(57)	91000	ND(61)	ND(59)	ND(53)	
1,2-Dichloropropane	ug/kg	100	5800	4000	ND(57)	140000	ND(61)	ND(59)	ND(53)	
1,3-Dichlorobenzene	ug/kg	170	1100	ID	ND(110)	170000	ND(120)	ND(120)	ND(110)	
1,4-Dichlorobenzene	ug/kg	1700	290	19000	ND(110)	400000	ND(120)	ND(120)	ND(110)	
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	ND(850)	27000000	ND(3100)	ND(2900)	ND(800)	
2-Hexanone	ug/kg	20000	ID	990000	ND(2800)	2500000	ND(3100)	ND(2900)	ND(2700)	
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	34000	2700000	ND(850)	23000000	ND(920)	ND(880)	ND(800)	
Acetone	ug/kg	15000	4000	1600	ND(57)	180000	ND(61)	ND(59)	ND(53)	
Benzene	ug/kg	100	ID	1200	ND(110)	1100000	ND(120)	ND(120)	ND(110)	
Bromodichloromethane	ug/kg	2000	ID	150000	ND(110)	820000	ND(120)	ND(120)	ND(110)	
Bromoform	ug/kg	2000	ID	320000	ND(280)	320000	ND(310)	ND(290)	ND(270)	
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	ND(280)	280000	ND(310)	ND(290)	ND(270)	
Carbon disulfide	ug/kg	16000	ID	76000	ND(57)	96000	ND(61)	ND(59)	ND(53)	
Carbon tetrachloride	ug/kg	100	900	190	ND(57)	260000	ND(61)	ND(59)	ND(53)	
Chlorobenzene	ug/kg	2000	940	120000	ND(57)	950000	ND(310)	ND(290)	ND(270)	
Chloroethane	ug/kg	8600	ID	950000	ND(280)	950000	ND(310)	ND(290)	ND(270)	
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	ND(57)	1200000	ND(61)	ND(59)	ND(53)	
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	18 J	1100000	ND(310)	ND(290)	ND(270)	
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	ND(400)	640000	ND(61)	ND(59)	ND(53)	
Cyclohexane	ug/kg	2000	ID	3900	ND(57)	110000	ND(1500)	ND(1400)	ND(1300)	
Dibromochloromethane	ug/kg	95000	ID	900000	ND(110)	1000000	ND(120)	ND(120)	ND(110)	
Dichlorodifluoromethane (CFC-12)	ug/kg	1500	360	87000	ND(57)	140000	ND(61)	ND(59)	ND(53)	
Ethylbenzene	ug/kg	91000	ID	390000	ND(280)	390000	ND(310)	ND(290)	ND(270)	
Isopropylbenzene	ug/kg	800	15000	590000	ND(1400)	1500000	ND(1500)	ND(1400)	ND(1300)	
Methyl acetate	ug/kg	100	19000	45000	ND(280)	1300000	ND(310)	ND(290)	ND(270)	
Methyl cyclohexane	ug/kg	2700	2200	250000	ND(57)	400000	ND(61)	ND(59)	ND(53)	
Methyl Tert Butyl Ether	ug/kg	100	900	11000	ND(57)	88000	ND(61)	ND(59)	ND(53)	
Methylene chloride	ug/kg	16000	2800	250000	ND(110)	250000	ND(120)	ND(120)	ND(110)	
Tetrachloroethene	ug/kg	2000	30000	23000	ND(57)	1400000	ND(61)	ND(59)	ND(53)	
Toluene	ug/kg	100	4000	7100	ND(57)	500000	41 J	ND(59)	ND(53)	
trans-1,2-Dichloroethene	ug/kg	52000	1700	560000	ND(110)	560000	ND(120)	ND(120)	ND(110)	
Trichloroethene	ug/kg	550000	300	550000	ND(280)	550000	ND(310)	ND(290)	ND(270)	
Trichlorofluoromethane (CFC-11)	ug/kg	40	700	270	ND(110)	3800	ND(120)	ND(120)	ND(110)	
Trifluorotrichloroethane (Freon 113)	ug/kg	5600	ID	150000	ND(170)	150000	ND(180)	ND(180)	ND(160)	
Vinyl chloride	ug/kg	170	1000	1000	ND(57)	10000	ND(61)	ND(59)	ND(53)	
Xylene (total)	ug/kg				ND(57)		ND(61)	ND(59)	ND(53)	
cis-1,3-Dichloropropene	ug/kg				ND(57)		ND(61)	ND(59)	ND(53)	
trans-1,3-Dichloropropene	ug/kg				ND(57)		ND(61)	ND(59)	ND(53)	
1,3-Dichloropropene- Total	ug/kg				ND(57)		ND(61)	ND(59)	ND(53)	

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection		GSI Protection Criteria	Soil Volatilization to Indoor Air		Direct Contact Criteria	SB4-04 S-17360-071504-DCR-121 7/15/2004 (20-22)	SB5-04 S-17360-071504-DCR-100 7/15/2004 (0-2)	SB5-04 S-17360-071504-DCR-101 7/15/2004 (2-4)	SB5-04 S-17360-071504-DCR-102 7/15/2004 (4-6)
		Criteria	Criteria		Inhalation	Inhalation					
TCL VOC											
1,1,1-Trichloroethane	ug/kg	4000	4000	4000	250000	d	460000	ND(53)	ND(200)	ND(110)	ND(66)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	1600	4300		53000	ND(110)	ND(400)	ND(230)	ND(130)
1,1,2-Trichloroethane	ug/kg	100	6600	6600	4600		180000	ND(63)	ND(200)	ND(110)	ND(66)
1,1-Dichloroethane	ug/kg	18000	15000	15000	230000		890000	ND(53)	ND(200)	ND(110)	ND(66)
1,1-Dichloroethene	ug/kg	140	1300	1300	62		200000	ND(63)	ND(200)	ND(110)	ND(66)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1800	11000000		990000	ND(270)	ND(1000)	ND(570)	ND(330)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4			1200		1200	ND(270)	ND(1000)	ND(570)	ND(330)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	250	670		250	ND(270)	ND(1000)	ND(570)	ND(330)
1,2-Dichlorobenzene	ug/kg	14000	360	360	210000		210000	ND(110)	ND(400)	ND(230)	ND(130)
1,2-Dichloroethane	ug/kg	100	7200	7200	2100		91000	ND(63)	ND(200)	ND(110)	ND(66)
1,2-Dichloropropane	ug/kg	100	5800	5800	4000		140000	ND(53)	ND(200)	ND(110)	ND(66)
1,3-Dichlorobenzene	ug/kg	170	1100	1100	ID		170000	ND(110)	ND(400)	ND(230)	ND(130)
1,4-Dichlorobenzene	ug/kg	1700	290	290	19000		400000	ND(110)	ND(400)	ND(230)	ND(130)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	44000	27000000		27000000	ND(800)	ND(3000)	ND(1700)	ND(950)
2-Hexanone	ug/kg	20000	ID	ID	990000		2500000	ND(2700)	ND(10000)	ND(5700)	ND(3300)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	ID	ID	2700000		2700000	ND(2700)	ND(10000)	ND(5700)	ND(3300)
Acetone	ug/kg	15000	34000	34000	110000000		23000000	ND(800)	ND(3000)	ND(1700)	ND(950)
Benzene	ug/kg	100	4000	4000	1600		180000	ND(53)	33 J	ND(110)	ND(66)
Bromodichloromethane	ug/kg	2000	ID	ID	1200		110000	ND(110)	ND(400)	ND(230)	ND(130)
Bromoform	ug/kg	2000	ID	ID	150000		820000	ND(110)	ND(400)	ND(230)	ND(130)
Bromomethane (Methyl Bromide)	ug/kg	200	700	700	860		320000	ND(270)	ND(1000)	ND(570)	ND(330)
Carbon disulfide	ug/kg	16000	ID	ID	76000		280000	ND(270)	ND(1000)	ND(570)	ND(330)
Carbon tetrachloride	ug/kg	100	900	900	190		96000	ND(53)	ND(200)	ND(110)	ND(66)
Chlorobenzene	ug/kg	2000	940	940	120000		240000	ND(53)	ND(200)	ND(110)	ND(66)
Chloroethane	ug/kg	8600	ID	ID	950000		950000	ND(270)	ND(1000)	ND(570)	ND(330)
Chloroform (Trichloromethane)	ug/kg	2000	3400	3400	7200		1200000	ND(53)	ND(200)	ND(110)	ND(66)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	ID	2300		1100000	23 J	ND(1000)	ND(570)	ND(330)U
cis-1,2-Dichloroethene	ug/kg	1400	12000	12000	22000		640000	ND(53)	ND(200)	ND(110)	ND(66)
Cyclohexane	ug/kg							ND(1300)	31 J	ND(2700)	ND(1600)
Dibromochloromethane	ug/kg	2000	ID	ID	3900		110000	ND(53)	ND(200)	ND(110)	ND(66)
Dichlorodifluoromethane (CFC-12)	ug/kg	95000	ID	ID	900000		1000000	ND(110)	ND(400)	ND(230)	ND(130)
Ethylbenzene	ug/kg	1500	360	360	87000		140000	ND(53)	ND(200)	ND(110)	ND(66)
Isopropylbenzene	ug/kg	91000	ID	ID	390000		390000	ND(270)	25 J	ND(570)	ND(330)
Methyl acetate	ug/kg							ND(1300)	ND(4800)	ND(2700)	ND(1600)
Methyl cyclohexane	ug/kg							ND(1300)	200 J	ND(2700)	ND(1600)
Methyl Tert Butyl Ether	ug/kg	800	15000	15000	5900000		1500000	ND(270)	ND(1000)	ND(570)	ND(330)
Methylene chloride	ug/kg	100	19000	19000	45000		1300000	ND(270)	ND(1000)	ND(570)	ND(330)
Styrene	ug/kg	2700	2200	2200	250000		400000	ND(53)	ND(200)	ND(110)	ND(66)
Tetrachloroethene	ug/kg	100	900	900	11000		88000	ND(53)	ND(200)	ND(110)	ND(66)
Toluene	ug/kg	16000	2800	2800	250000		250000	ND(110)	140 J	ND(230)	ND(130)
trans-1,2-Dichloroethene	ug/kg	2000	30000	30000	23000		1400000	ND(53)	ND(200)	ND(110)	ND(66)
Trichloroethene	ug/kg	100	4000	4000	7100		500000	18 J	5700 ^{ph}	ND(110)	ND(66)
Trichlorofluoromethane (CFC-11)	ug/kg	52000			560000		560000	ND(110)	ND(400)	ND(230)	ND(130)
Trifluorotrichloroethane (Freon 113)	ug/kg	550000	1700	1700	550000		550000	ND(270)	ND(1000)	ND(570)	ND(330)
Vinyl chloride	ug/kg	40	300	300	270		3800	ND(110)	ND(400)	ND(230)	ND(130)
Xylene (total)	ug/kg	5600	700	700	150000		150000	ND(160)	200 J	ND(340)	ND(200)
cis-1,3-Dichloropropene	ug/kg							ND(53)	ND(200)	ND(110)	ND(66)
trans-1,3-Dichloropropene	ug/kg							ND(53)	ND(200)	ND(110)	ND(66)
1,3-Dichloropropene- Total	ug/kg	170			1000		10000	ND(53)	ND(200)	ND(110)	ND(66)

TABLE 4.1
ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification Sample Date Sample Depth	Units	Drinking Water Protection Criteria	GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SBS-04 S-17360-071504-DCR-103 7/15/2004 (6-8)	SBS-04 S-17360-071504-DCR-104 7/15/2004 (8-10)	SBS-04 S-17360-071504-DCR-105 7/15/2004 (10-12)	SBS-04 S-17360-071504-DCR-106 7/15/2004 (12-14)
TCL VOC	a	b	c	d					
1,1,1-Trichloroethane	ug/kg	4000	4000	250000	460000	ND(61)	ND(60)	ND(56)	ND(50)
1,1,2,2-Tetrachloroethane	ug/kg	170	1600	4300	53000	ND(120)	ND(120)	ND(110)	ND(99)
1,1,2-Trichloroethane	ug/kg	100	6600	4600	180000	ND(61)	ND(60)	ND(56)	ND(50)
1,1-Dichloroethane	ug/kg	18000	15000	230000	890000	ND(61)	ND(60)	ND(56)	ND(50)
1,1-Dichloroethene	ug/kg	140	1300	62	200000	ND(61)	ND(60)	ND(56)	ND(50)
1,2,4-Trichlorobenzene	ug/kg	4200	1800	1100000	990000	ND(300)	ND(300)	ND(280)	ND(250)
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4	1200	1200	250	ND(300)	ND(300)	ND(280)	ND(250)
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	250	250	670	250	ND(300)	ND(300)	ND(280)	ND(250)
1,2-Dichlorobenzene	ug/kg	14000	360	210000	210000	ND(120)	ND(120)	ND(110)	ND(99)
1,2-Dichloroethane	ug/kg	100	7200	2100	91000	ND(61)	ND(60)	ND(56)	ND(50)
1,2-Dichloropropane	ug/kg	100	5800	4000	140000	ND(61)	ND(60)	ND(56)	ND(50)
1,3-Dichlorobenzene	ug/kg	170	1100	ID	170000	ND(120)	ND(120)	ND(110)	ND(99)
1,4-Dichlorobenzene	ug/kg	1700	290	19000	400000	ND(120)	ND(120)	ND(110)	ND(99)
2-Butanone (Methyl Ethyl Ketone)	ug/kg	260000	44000	27000000	27000000	59 J	ND(900)	ND(830)	ND(750)
2-Hexanone	ug/kg	20000	ID	990000	2500000	ND(3000)	ND(3000)	ND(2800)	ND(2500)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	ug/kg	36000	ID	2700000	2700000	ND(3000)	ND(3000)	ND(2800)	ND(2500)
Acetone	ug/kg	15000	34000	110000000	23000000	ND(910)	ND(900)	ND(830)	ND(750)
Benzene	ug/kg	100	4000	1600	180000	ND(61)	ND(60)	ND(56)	ND(50)
Bromodichloromethane	ug/kg	2000	ID	110000	820000	ND(120)	ND(120)	ND(110)	ND(99)
Bromoform	ug/kg	2000	ID	150000	820000	ND(120)	ND(120)	ND(110)	ND(99)
Bromomethane (Methyl Bromide)	ug/kg	200	700	860	320000	ND(300)	ND(300)	ND(280)	ND(250)
Carbon disulfide	ug/kg	16000	ID	76000	280000	ND(300)	ND(300)	ND(280)	ND(250)
Carbon tetrachloride	ug/kg	100	900	190	96000	ND(61)	ND(60)	ND(56)	ND(50)
Chlorobenzene	ug/kg	2000	940	120000	260000	ND(61)	ND(60)	ND(56)	ND(50)
Chloroethane	ug/kg	8600	ID	950000	950000	ND(300)	ND(300)	ND(280)	ND(250)
Chloroform (Trichloromethane)	ug/kg	2000	3400	7200	1200000	ND(61)	ND(60)	ND(56)	ND(50)
Chloromethane (Methyl Chloride)	ug/kg	5200	ID	2300	1100000	ND(300)	ND(300)	ND(280)	ND(250)
cis-1,2-Dichloroethene	ug/kg	1400	12000	22000	640000	ND(61)	ND(60)	ND(56)	ND(50)
Cyclohexane	ug/kg					ND(1500)	ND(1400)	ND(1300)	ND(1200)
Dibromochloromethane	ug/kg	2000	ID	3900	110000	ND(61)	ND(60)	ND(56)	ND(50)
Dichlorodifluoromethane (CFC-12)	ug/kg	95000	ID	900000	1000000	ND(120)	ND(120)	ND(110)	ND(99)
Ethylbenzene	ug/kg	1500	360	87000	140000	ND(61)	ND(60)	ND(56)	ND(50)
Isopropylbenzene	ug/kg	91000	ID	390000	390000	ND(300)	ND(300)	ND(280)	ND(250)
Methyl acetate	ug/kg					ND(1500)	ND(1400)	ND(1300)	ND(1200)
Methyl cyclohexane	ug/kg	800	15000	5900000	1500000	ND(1500)	ND(1400)	ND(1300)	ND(1200)
Methyl Tert Butyl Ether	ug/kg	100	19000	45000	1300000	ND(300)	ND(300)	ND(280)	ND(250)
Methylene chloride	ug/kg	2700	2200	250000	400000	ND(61)	ND(60)	ND(56)	ND(50)
Styrene	ug/kg	100	900	11000	88000	ND(61)	ND(60)	ND(56)	ND(50)
Tetrachloroethene	ug/kg	16000	2800	250000	250000	ND(120)	ND(120)	ND(110)	ND(99)
Toluene	ug/kg	2000	30000	23000	1400000	ND(61)	ND(60)	ND(56)	ND(50)
trans-1,2-Dichloroethene	ug/kg	100	4000	7100	500000	ND(61)	ND(60)	ND(56)	ND(50)
Trichloroethene	ug/kg	52000	4000	1000	560000	ND(120)	ND(120)	ND(110)	ND(99)
Trichlorofluoromethane (CFC-11)	ug/kg	550000	1700	550000	550000	ND(300)	ND(300)	ND(280)	ND(250)
Trifluorochloroethane (Freon 113)	ug/kg	40	300	270	3800	ND(120)	ND(120)	ND(110)	ND(99)
Vinyl chloride	ug/kg	5600	700	150000	150000	ND(180)	ND(180)	ND(170)	ND(150)
Xylene (total)	ug/kg					ND(61)	ND(60)	ND(56)	ND(50)
cis-1,3-Dichloropropene	ug/kg					ND(61)	ND(60)	ND(56)	ND(50)
trans-1,3-Dichloropropene	ug/kg					ND(61)	ND(60)	ND(56)	ND(50)
1,3-Dichloropropene- Total	ug/kg	170	1000	1000	10000	ND(61)	ND(60)	ND(56)	ND(50)

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Date Sample Depth	Drinking Water Protection Criteria	GSI Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Direct Contact Criteria	SBS-04 S-17360-071504-DCR-107 7/15/2004 (14-16)	SBS-04 S-17360-071504-DCR-108 7/15/2004 (16-18)	SBS-04 S-17360-071504-DCR-109 7/15/2004 (18-20)	SBS-04 S-17360-071504-DCR-110 7/15/2004 (20-22)
TCL VOC	a	b	c	d				
Units								
1,1,1-Trichloroethane	4000	4000	2500000	460000	ND(56)	ND(55)	ND(62)	ND(71)
1,1,2,2-Tetrachloroethane	170	1600	4300	53000	ND(110)	ND(110)	ND(120)	ND(140)
1,1,2-Trichloroethane	100	6600	4600	180000	ND(56)	ND(55)	ND(62)	ND(71)
1,1-Dichloroethane	18000	15000	230000	890000	ND(56)	ND(55)	ND(62)	ND(71)
1,1-Dichloroethene	140	1300	62	200000	ND(56)	ND(55)	ND(62)	ND(71)
1,2,4-Trichlorobenzene	4200	1800	1100000	990000	ND(280)	ND(270)	ND(310)	ND(350)
1,2-Dibromo-3-chloropropane (DBCP)	4		1200	1200	ND(280)	ND(270)	ND(310)	ND(350)
1,2-Dibromoethane (Ethylene Dibromide)	250	250	670	250	ND(280)	ND(270)	ND(310)	ND(350)
1,2-Dichlorobenzene	14000	360	210000	210000	ND(110)	ND(110)	ND(120)	ND(140)
1,2-Dichloroethane	100	7200	2100	91000	ND(56)	ND(55)	ND(62)	ND(71)
1,2-Dichloropropane	100	5800	4000	140000	ND(56)	ND(55)	ND(62)	ND(71)
1,3-Dichlorobenzene	170	1100	17000	170000	ND(110)	ND(110)	ND(120)	ND(140)
1,4-Dichlorobenzene	1700	290	19000	400000	ND(110)	ND(110)	ND(120)	ND(140)
2-Butanone (Methyl Ethyl Ketone)	260000	44000	27000000	27000000	ND(840)	ND(820)	ND(930)	ND(1100)
2-Hexanone	20000	ID	990000	2500000	ND(2800)	ND(2700)	ND(3100)	ND(3500)
4-Methyl-2-Pentanone (Methyl Isobutyl Keto)	36000	ID	2700000	2700000	ND(2800)	ND(2700)	ND(3100)	ND(3500)
Acetone	15000	34000	110000000	23000000	ND(840)	ND(820)	ND(930)	ND(1100)
Benzene	100	4000	1600	180000	ND(56)	ND(55)	ND(62)	ND(71)
Bromodichloromethane	2000	ID	110000	110000	ND(110)	ND(110)	ND(120)	ND(140)
Bromoform	2000	ID	150000	820000	ND(110)	ND(110)	ND(120)	ND(140)
Bromomethane (Methyl Bromide)	200	700	860	320000	ND(280)	ND(270)	ND(310)	ND(350)
Carbon disulfide	16000	ID	76000	280000	ND(280)	ND(270)	ND(310)	ND(350)
Carbon tetrachloride	100	900	190	96000	ND(56)	ND(55)	ND(62)	ND(71)
Chlorobenzene	2000	940	120000	260000	ND(56)	ND(55)	ND(62)	ND(71)
Chloroethane	8600	ID	950000	950000	ND(280)	ND(270)	ND(310)	ND(350)
Chloroform (Trichloromethane)	2000	3400	7200	1200000	ND(56)	ND(55)	ND(62)	ND(71)
Chloromethane (Methyl Chloride)	5200	ID	2300	1100000	ND(280)U	ND(270)	ND(310)	ND(350)
cis-1,2-Dichloroethene	1400	12000	22000	640000	ND(56)	ND(55)	ND(62)	ND(71)
Cyclohexane					ND(1300)	ND(1300)	ND(1500)	ND(1700)
Dibromochloromethane	2000	ID	3900	110000	ND(56)	ND(55)	ND(62)	ND(71)
Dichlorodifluoromethane (CFC-12)	95000	ID	900000	1000000	ND(110)	ND(110)	ND(120)	ND(140)
Ethylbenzene	1500	360	87000	140000	ND(56)	ND(55)	ND(62)	ND(71)
Isopropylbenzene	91000	ID	390000	390000	ND(1300)	ND(1300)	ND(1500)	ND(1700)
Methyl acetate					ND(1300)	ND(1300)	ND(1500)	ND(1700)
Methyl cyclohexane	800	15000	5900000	1500000	ND(270)	ND(270)	ND(310)	ND(350)
Methyl Tert Butyl Ether	100	19000	45000	1300000	ND(280)	ND(270)	ND(310)	ND(350)
Methylene chloride	2700	2200	250000	400000	ND(56)	ND(55)	ND(62)	ND(71)
Styrene	100	900	11000	88000	ND(56)	ND(55)	ND(62)	ND(71)
Tetrachloroethene	16000	2800	250000	250000	ND(110)	ND(110)	ND(120)	ND(140)
Toluene	2000	30000	23000	1400000	ND(56)	ND(55)	ND(62)	ND(71)
trans-1,2-Dichloroethene	100	4000	7100	500000	20 J	25 J	ND(62)	ND(71)
Trichloroethene	52000	1700	560000	560000	ND(110)	ND(110)	ND(120)	ND(140)
Trichlorofluoromethane (CFC-11)	550000	300	550000	550000	ND(280)	ND(270)	ND(310)	ND(350)
Trifluorotrchloroethane (Freon 113)	40	300	270	3800	ND(110)	ND(110)	ND(120)	ND(140)
Vinyl chloride	5600	700	150000	150000	ND(170)	ND(160)	ND(190)	ND(210)
Xylene (total)					ND(56)	ND(55)	ND(62)	ND(71)
cis-1,3-Dichloropropene					ND(56)	ND(55)	ND(62)	ND(71)
trans-1,3-Dichloropropene					ND(56)	ND(55)	ND(62)	ND(71)
1,3-Dichloropropene- Total	170	10000	1000	10000	ND(56)	ND(55)	ND(62)	ND(71)

TABLE 4.1

ANALYTICAL RESULTS FOR TCL VOCs IN SOIL SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Notes:

- TCL VOC - Target Compound List Volatile Organic Compounds
- ND () - Not detected above the value in parenthesis.
- J - The associated value is qualified as an estimated quantity.
- U - The analyte was analyzed for, but was qualified not detected above the value identified.

value with super script a, b, c, or d indicates specific criterion(s) exceeded

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP8-04	HP8-04	HP8-04	HP8-04	HP8-04
Sample Identification	GW-17360-0722204-DCR-151	GW-17360-0722204-DCR-152	GW-17360-0722204-DCR-153	GW-17360-0722204-DCR-154	GW-17360-0722204-DCR-155
Sample Date	7/22/2004	7/22/2004	7/22/2004	7/22/2004	7/22/2004
Sample Depth	22'	32'	32'	43'	53.5'
Sample Type			Duplicate		
TCL VOC					
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	0.56 J	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U	ND(25)U
Benzene	0.36 J	0.36 J	0.35 J	0.22 J	0.22 J
Bromodichloromethane	1.9	1.9	1.9	1.5	6.1
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	1.1 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	13	13	13	3.9	13
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	1.4	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	0.31 J	ND(1.0)	0.16 J	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	0.74 J	2.1
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	0.35 J	0.39 J	0.58 J	ND(1.0)
Toluene	0.37 J	0.85 J	0.75 J	0.53 J	2.3
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	0.24 J	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	2.0	2.1	0.91 J	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP9-04	HP9-04	HP9-04	HP9-04	HP9-04
Sample Identification	GW-17360-072304-DCR-157	GW-17360-072304-DCR-158	GW-17360-072304-DCR-159	GW-17360-072304-DCR-160	GW-17360-072304-DCR-161
Sample Date	7/23/2004	7/23/2004	7/23/2004	7/23/2004	7/23/2004
Sample Depth	26'	36'	46'	56'	66'
Sample Type					
TCL VOC					
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ug/L	0.37 J	0.50 J	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ug/L	ND(5.0)UJ	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ug/L	ND(25)	ND(25)U	ND(25)U	ND(25)
2-Hexanone	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ug/L	1.6 J	1.5 J	1.5 J	0.67 J
Benzene	ug/L	0.34 J	0.32 J	0.22 J	ND(25)U
Bromodichloromethane	ug/L	0.71 J	0.22 J	3.4	ND(1.0)
Bromoform	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ug/L	2.3	1.5	16	16
Chloromethane (Methyl Chloride)	ug/L	0.33 J	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ug/L	ND(1.0)	0.75 J	1.2	ND(1.0)
cis-1,3-Dichloropropene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ug/L	ND(1.0)	ND(1.0)	0.40 J	ND(1.0)
Dibromochloromethane	ug/L	ND(1.0)	0.28 J	0.92 J	1.9
Dichlorodifluoromethane (CFC-12)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ug/L	ND(1.0)UJ	0.26 J	0.34 J	ND(1.0)
Isopropylbenzene	ug/L	ND(5.0)UJ	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ug/L	ND(1.0)	0.45 J	0.58 J	0.47 J
Toluene	ug/L	ND(1.0)UJ	ND(1.2)U	1.3	1.4
trans-1,2-Dichloroethene	ug/L	ND(1.0)	0.33 J	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ug/L	ND(1.0)	1.6	0.46 J	ND(1.0)
Trichlorofluoromethane (CFC-11)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorochloroethane (Freon 113)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ug/L	ND(3.0)UJ	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP10-04	HP10-04	HP10-04	HP10-04	HP10-04
Sample Identification	GW-17360-072604-DCR-163	GW-17360-072604-DCR-164	GW-17360-072604-DCR-165	GW-17360-072604-DCR-166	GW-17360-072604-DCR-167
Sample Date	7/26/2004	7/26/2004	7/26/2004	7/26/2004	7/26/2004
Sample Depth	15'	25'	35'	45'	55'
Sample Type				MS/MSD	
TCL VOC	Units				
1,1,1-Trichloroethane	ug/L	ND(1.0)	5.4	2.7	0.96 J
1,1,2,2-Tetrachloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ug/L	ND(1.0)	ND(1.0)U	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ug/L	ND(25)U	ND(25)U	ND(25)	ND(25)U
2-Hexanone	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ug/L	ND(25)U	ND(25)	ND(25)	ND(25)U
Benzene	ug/L	0.49 J	0.45 J	0.31 J	0.31 J
Bromodichloromethane	ug/L	1.3	0.20 J	0.23 J	1.0
Bromoform	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ug/L	ND(5.0)U	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ug/L	ND(1.0)UJ	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ug/L	4.2	1.2	1.4	2.7
Chloromethane (Methyl Chloride)	ug/L	ND(1.0)	0.16 J	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ug/L	0.39 J	0.30 J	ND(1.0)	0.18 J
Dibromochloromethane	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	0.39 J
Dichlorodifluoromethane (CFC-12)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ug/L	0.36 J	0.28 J	ND(1.0)	ND(1.0)
Isopropylbenzene	ug/L	ND(5.0)U	ND(5.0)U	ND(5.0)U	ND(5.0)U
Methyl acetate	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ug/L	0.50 J	0.57 J	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ug/L	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ug/L	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
Tetrachloroethene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ug/L	1.1	1.3	ND(1.0)U	3.8
trans-1,2-Dichloroethene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ug/L	0.53 J	11	0.90 J	0.86 J
Trichlorofluoromethane (CFC-11)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrichloroethane (Freon 113)	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ug/L	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ug/L	0.85 J	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP10-04	HP10-04	HP10-04	HP10-04	HP10-04
Sample Identification	GW-17360-072604-DCR-168	GW-17360-072604-DCR-169	GW-17360-072704-DCR-171	GW-17360-072704-DCR-172	GW-17360-072704-DCR-173
Sample Date	7/26/2004	7/26/2004	7/27/2004	7/27/2004	7/27/2004
Sample Depth	65'	75'	80'	12'	22'
Sample Type					
TCL VOC	Units				
1,1,1-Trichloroethane	1.0	0.68 J	0.51 J	0.73 J	0.21 J
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)U	ND(25)U	1.1 J	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	0.35 J	0.39 J	0.43 J	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U	ND(25)
Benzene	0.28 J	0.31 J	0.54 J	0.48 J	ND(1.0)
Bromochloromethane	0.76 J	0.69 J	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	3.2	4.3	3.8	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	0.14 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	0.14 J	0.18 J	ND(1.0)	0.36 J	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	0.28 J	0.25 J	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	2.7 J
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	3.8	4.4	4.1	1.0	0.24 J
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	0.73 J	0.79 J	0.72 J	0.93 J	4.5
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP11-04	HP11-04	HP11-04	HP11-04	HP11-04	HP11-04
Sample Identification	GW-17360-072704-DCR-174	GW-17360-072704-DCR-175	GW-17360-072704-DCR-176	GW-17360-072704-DCR-177	GW-17360-072804-DCR-179	
Sample Date	7/27/2004	7/27/2004	7/27/2004	7/28/2004	7/28/2004	
Sample Depth	32'	42'	42'	52'	62'	
Sample Type			Duplicate			
TCL VOC	Units					
1,1,1-Trichloroethane	ug/L	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,1,2,2-Tetrachloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,1,2-Trichloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,1-Dichloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,1-Dichloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,2,4-Trichlorobenzene	ug/L	ND(10)	ND(8.4)	ND(8.4)	ND(8.4)UJ	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,2-Dichlorobenzene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)UJ	ND(1.0)
1,2-Dichloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,2-Dichloropropane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
1,3-Dichlorobenzene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)UJ	ND(1.0)
1,4-Dichlorobenzene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)UJ	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ug/L	ND(50)	ND(42)	ND(42)	ND(42)	ND(25)
2-Hexanone	ug/L	ND(100)	ND(84)	ND(84)	ND(84)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	ND(100)	ND(84)	ND(84)	ND(84)	ND(50)
Acetone	ug/L	ND(50)U	ND(42)U	ND(42)U	ND(42)U	ND(25)U
Benzene	ug/L	0.45 J	ND(1.7)	ND(1.7)	0.41 J	0.34 J
Bromodichloromethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	0.36 J	0.47 J
Bromoform	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Bromomethane (Methyl Bromide)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Carbon disulfide	ug/L	ND(10)	ND(8.4)	ND(8.4)	ND(8.4)	ND(5.0)U
Carbon tetrachloride	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Chlorobenzene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)UJ	ND(1.0)
Chloroethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Chloroform (Trichloromethane)	ug/L	ND(2.0)	0.44 J	ND(1.7)	1.5 J	1.9
Chloromethane (Methyl Chloride)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	0.16 J
cis-1,2-Dichloroethene	ug/L	57	38	39	37	11
cis-1,3-Dichloropropene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Cyclohexane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	0.20 J
Dibromochloromethane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Ethylbenzene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)UJ	ND(1.0)
Isopropylbenzene	ug/L	ND(10)	ND(8.4)	ND(8.4)	ND(8.4)UJ	ND(5.0)
Methyl acetate	ug/L	ND(20)	ND(17)	ND(17)	ND(17)	ND(10)
Methyl cyclohexane	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Methyl Tert Butyl Ether	ug/L	2.3 J	1.9 J	2.9 J	1.3 J	1.7 J
Methylene chloride	ug/L	ND(10)	ND(8.4)	ND(8.4)	ND(8.4)	ND(5.0)
Styrene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Tetrachloroethene	ug/L	ND(2.0)	17	15	15	1.2
Toluene	ug/L	0.92 J	0.61 J	0.59 J	1.8 J	1.4
trans-1,2-Dichloroethene	ug/L	4.9	4.4	4.9	2.9	1.3
trans-1,3-Dichloropropene	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Trichloroethene	ug/L	23	34	33	19	7.4
Trichlorofluoromethane (CFC-11)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Trifluorochloroethane (Freon 113)	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Vinyl chloride	ug/L	ND(2.0)	ND(1.7)	ND(1.7)	ND(1.7)	ND(1.0)
Xylene (total)	ug/L	ND(6.0)	ND(5.0)	ND(5.0)	ND(5.0)UJ	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL-AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP11-04	HP12-04	HP12-04	HP12-04
Sample Identification	GW-17360-072804-DCR-180	GW-17360-072004-DCR-136	GW-17360-072004-DCR-137	GW-17360-072004-DCR-138
Sample Date	7/28/2004	7/20/2004	7/20/2004	7/20/2004
Sample Depth	69'	24'	34'	34'
Sample Type			Duplicate	
				MS/MSD
TCL VOC				
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	0.72 J	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U
Benzene	0.38 J	0.55 J	ND(1.0)	0.51 J
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	0.43 J
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	0.85 J	ND(5.0)	0.43 J
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	0.17 J	ND(1.0)	0.78 J
Chloroform (Trichloromethane)	2.3	5.8	5.9	ND(1.0)U
Chloromethane (Methyl Chloride)	25	ND(1.0)	ND(1.0)U	ND(1.0)U
cis-1,2-Dichloroethene	0.23 J	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	0.23 J	0.37 J	ND(1.0)	0.32 J
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	0.27 J	ND(1.0)	0.23 J
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	2.5 J	ND(5.0)	ND(5.0)	0.29 J
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	3.3	ND(1.0)	ND(1.0)	0.25 J
Toluene	2.0	0.89 J	2.6	1.8
trans-1,2-Dichloroethene	3.0	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	17	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	0.32 J	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP12-04	HP13-04	HP14-04	HP14-04
Sample Identification	GW-17360-072004-DCR-140	GW-17360-071904-DCR-133	GW-17360-071904-DCR-134	GW-17360-071304-DCR-072
Sample Date	7/20/2004	7/19/2004	7/19/2004	7/13/2004
Sample Depth	54'	22'	28.5'	35'
Sample Type				
TCL VOC				
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	0.75 J	0.54 J	0.82 J	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U
Benzene	0.32 J	0.32 J	0.34 J	0.34 J
Bromodichloromethane	ND(1.0)	ND(1.0)	1.6	0.44 J
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)U	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	2.0	ND(1.0)	4.5	2.8
Chloromethane (Methyl Chloride)	ND(1.0)U	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	0.29 J	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	0.71 J	ND(1.0)
Dibromochloromethane	0.22 J	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Ethylbenzene	ND(10)	ND(10)	ND(10)	ND(10)
Isopropylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl acetate	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	0.18 J	0.22 J	ND(5.0)	0.21 J
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	2.5	ND(1.0)U	0.70 J	0.24 J
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	0.49 J	0.40 J	0.46 J
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrichloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP14-04	HP14-04	HP14-04	HP14-04	HP15-04
Sample Identification	GW-17360-071304-DCR-073	GW-17360-071304-DCR-074	GW-17360-071304-DCR-075	GW-17360-071304-DCR-076	GW-17360-072004-DCR-141
Sample Date	7/13/2004	7/13/2004	7/13/2004	7/13/2004	7/20/2004
Sample Depth	35'	45'	55'	65'	17'
Sample Type	Duplicate				
TCL VOC					
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	12
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.28 J
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)U
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	0.81 J	0.76 J	ND(25)	0.45 J
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U	ND(25)U
Benzene	ND(1.0)	0.42 J	0.31 J	ND(1.0)	0.71 J
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	7.2
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	0.45 J
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	2.8	3.4	3.9	16	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.38 J
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.38 J
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	0.25 J	0.20 J	ND(1.0)	0.27 J
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	0.24 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	0.24 J	0.90 J	0.72 J	6.5	1.1
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	0.48 J	0.38 J	0.33 J	ND(1.0)	2.5
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluoromethylchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP15-04	HP15-04	HP15-04	HP15-04	HP15-04
Sample Identification	GW-17360-072104-DCR-142	GW-17360-072104-BM-144	GW-17360-072104-BM-145	GW-17360-072104-BM-146	GW-17360-072104-BM-147
Sample Date	7/21/2004	7/21/2004	7/21/2004	7/21/2004	7/21/2004
Sample Depth	26'	36'	46'	56'	66'
Sample Type					
TCL VOC					
1,1,1-Trichloroethane	16	6.5	18	4.0	0.23 J
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	0.41 J	ND(1.0)	0.58 J	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.5)U	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)U	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	0.22 J	0.25 J	0.25 J	0.23 J
Benzene	0.27 J	0.36 J	ND(1.0)	3.5	1.5
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	0.28 J	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	0.85 J	ND(1.0)	8.7	3.1
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	0.17 J	0.23 J	ND(1.0)	ND(1.0)	0.19 J
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	0.45 J	1.1	0.64 J	6.3	2.1
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	2.7	0.52 J	0.76 J	ND(1.0)	0.30 J
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP15-04	HP16-04	HP16-04	HP16-04
Sample Identification	GW-17360-072104-BM-148	GW-17360-072804-DCR-181	GW-17360-072904-DCR-183	GW-17360-072904-DCR-184
Sample Date	7/21/2004	7/28/2004	7/29/2004	7/29/2004
Sample Depth	76'	20'	30'	30'
Sample Type				Duplicate
TCL VOC				
1,1,1-Trichloroethane	0.52 J	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)UJ	ND(5.0)UJ	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)U	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	0.25 J	ND(1.0)UJ	ND(25)U	ND(25)
Benzene	0.25 J	0.42 J	0.26 J	0.26 J
Bromodichloromethane	1.4	ND(1.0)	0.76 J	0.84 J
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	4.1	ND(1.0)	1.4	1.3
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	2.0	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	0.17 J	0.25 J	0.52 J	0.52 J
Dibromochloromethane	0.46 J	ND(1.0)	0.76 J	0.73 J
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	0.19 J	0.61 J	0.63 J
Isopropylbenzene	ND(5.0)	ND(5.0)UJ	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	0.68 J	0.72 J
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)UJ	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	2.7	0.91 J	ND(1.2)U	ND(1.2)U
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	6.5	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	1.2	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)UJ	ND(3.0)UJ	1.8 J	1.8 J

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP16-04	HP16-04	HP16-04	HP16-04	HP16-04
Sample Identification	GW-17360-072904-DCK-185	GW-17360-072904-DCK-186	GW-17360-072904-DCK-187	GW-17360-072904-DCK-188	GW-17360-072904-DCK-189
Sample Date	7/29/2004	7/29/2004	7/29/2004	7/29/2004	7/29/2004
Sample Depth	40'	50'	60'	70'	80'
Sample Type				MS/MSD	
TCL VOC					
1,1,1-Trichloroethane	ND(1.0)	0.22 J	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)	0.53 J
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	0.87 J	ND(25)	ND(25)	ND(25)	0.92 J
Acetone	ug/L	ug/L	0.24 J	0.24 J	1.0 J
Benzene	ug/L	ug/L	1.7	3.7	0.35 J
Bromodichloromethane	ug/L	ug/L	5.5	2.1	3.0
Bromoform	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ug/L	ug/L	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ug/L	ug/L	8.2	6.0	6.4
Chloromethane (Methyl Chloride)	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ug/L	ug/L	0.47 J	0.46 J	0.52 J
Dibromochloromethane	ug/L	ug/L	1.1	1.9	1.7
Dichlorodifluoromethane (CFC-12)	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ug/L	ug/L	0.56 J	0.54 J	0.59 J
Isopropylbenzene	ug/L	ug/L	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ug/L	ug/L	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ug/L	ug/L	0.62 J	0.64 J	0.71 J
Methyl Tert Butyl Ether	ug/L	ug/L	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ug/L	ug/L	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ug/L	ug/L	ND(1.7)U	3.5	4.5
trans-1,2-Dichloroethene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ug/L	ug/L	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ug/L	ug/L	1.6 J	1.6 J	1.7 J

TABLE 4.2
ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	HP16-04	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Identification	GW-17360-072904-DCR-190	GW-17360-071304-DCR-077	GW-17360-071904-DCR-135	GW-17360-072004-DCR-143	GW-17360-072104-BM-150
Sample Date	7/29/2004	7/13/2004	7/19/2004	7/20/2004	7/21/2004
Sample Depth	84.5'				
Sample Type					
TCL VOC					
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	0.261	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(5.0)	ND(5.0)	ND(5.0)	0.51 J	ND(1.0)
1,2,4-Trichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	0.56 J	ND(25)	ND(25)	ND(25)	0.51 J
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	0.90 J	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	1.0 J	8.1 J	8.9 J	13 J	2.8 J
Benzene	0.32 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	3.1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(5.0)	2.0 J	1.3 J	ND(5.0)	ND(5.0)
Carbon disulfide	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	6.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	0.47 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	1.7	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	0.57 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Isopropylbenzene	0.71 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl acetate	ND(5.0)	4.9 J	3.7 J	4.4 J	0.68 J
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene	4.8	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	0.27 J	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	1.7 J	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sample Identification	GW-17360-072204-DCR-156	GW-17360-072304-DCR-162	GW-17360-072604-DCR-170	GW-17360-072804-DCR-182
Sample Date	7/22/2004	7/23/2004	7/26/2004	7/28/2004
Sample Depth				
Sample Type				
TCL VOC				
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	0.50 J	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	0.64 J	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	0.81 J	3.7 J	1.4 J	0.66 J
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(25)U	ND(25)U	ND(25)U	ND(25)U
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	0.48 J	0.37 J
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	3.1 J	0.58 J	ND(5.0)	1.5 J
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	0.24 J	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)

TABLE 4.2

ANALYTICAL RESULTS FOR TCL VOCs IN VERTICAL AQUIFER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Notes:

- J - The associated value is qualified as an estimated quantity.
- U - The analyte was analyzed for, but was qualified not detected above the value identified.
- UJ - The analyte was reported or qualified as not detected however, the sample report limit is qualified as an estimated value and may be inaccurate or imprecise.
- ND () - Not detected above the value in parenthesis.

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-) Sample Date	Residential & Commercial I DW	Groundwater Surface water Interface	Criteria <i>b</i>	85-1 081004-DCR-206 8/10/2004	85-2 081004-DCR-210 8/10/2004	85-3 080904-DCR-200 8/9/2004	85-5B 080904-DCR-199 8/9/2004	85-6 081004-DCR-202 8/10/2004	85-6 081004-DCR-203 8/10/2004 Duplicate
TCL VOC									
1,1,1-Trichloroethane	200	200		ND(1.0)	3.8	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	8.5	78		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	5	330		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,1-Dichloroethane	880	740		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	7	65		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	70	30		ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,4-Trichlorobenzene	0.2			ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	1	1		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	600	16		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	5	360		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	5	290		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	6.6	38		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	75	13		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	13000	2200		ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
2-Butanone (Methyl Ethyl Ketone)	1000			ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
2-Hexanone	1800	10		ND(50)	ND(50)	ND(50)	0.57 J	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	730	1700		ND(25U)	ND(25U)	ND(25U)	2.0 J	ND(25U)	ND(25U)
Acetone	5	200		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Benzene	100	10		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	100	10		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	10	35		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	800	10		ND(1.0)	ND(1.0)	ND(1.0)	7.3	ND(5.0)	ND(5.0)
Carbon disulfide	5	45		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon tetrachloride	100	47		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	430	10		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	100	170		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	260	10		ND(1.0)	ND(1.0)	ND(1.0)	0.28 J	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	70	620		1.9	ND(1.0)	ND(1.0)	2.7	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethane	100			ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	1700	10		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	74	18		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	800	10		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	40	730		ND(5.0)	ND(5.0)	ND(5.0)	0.44 J	ND(5.0)	ND(5.0)
Isopropylbenzene	5	940		ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl acetate	100	45		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl cyclohexane	5	140		ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl Tert Butyl Ether	100	1500		ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	5	45		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene	790	140		ND(1.0)	ND(1.0)	ND(1.0)	0.35 J	ND(1.0)	ND(1.0)
Tetrachloroethane	100	1500		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	5	200		ND(1.0)	ND(1.0)	ND(1.0)	0.30 J	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethane	2600	32		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethane	170000	15		ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	2	280		1.1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrichloroethane (Freon 113)				ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
Vinyl chloride				ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)				ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene				ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene				ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	8.5			ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-) Sample Date	85-7 081004-DCR-208 8/10/2004	86-1 080904-DCR-197 8/9/2004	86-2 080904-DCR-196 8/9/2004	86-3 081004-DCR-216 8/10/2004	87-1 080904-DCR-192 8/9/2004	87-2 080904-DCR-198 8/9/2004	87-4 080904-DCR-193 8/9/2004
TCL VOC							
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,1,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.4	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	2.9	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(6.4)	ND(1.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(25)	ND(25)	ND(25)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)	ND(42)	ND(25)	ND(50)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(84)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(25)U	ND(25)	ND(25)U	ND(25)U	1.5 J	ND(25)	ND(50)
Acetone	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Benzene	0.41 J	ND(1.0)	ND(1.0)	0.41 J	ND(1.7)	ND(1.0)	ND(1.0)
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(8.4)	ND(5.0)	ND(5.0)
Carbon disulfide	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Chloroethane	2.7	ND(1.0)	1.8	2.7	ND(1.7)	ND(1.0)	1.5
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	0.32 J	ND(1.0)	44	26	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(8.4)	ND(5.0)	ND(5.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Methyl acetate	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(8.4)	0.93 J	ND(5.0)
Methyl cyclohexane	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(8.4)	0.93 J	ND(5.0)
Methyl Tert Butyl Ether	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Methylene chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Toluene	0.68 J	ND(1.0)	4.7	2.4	6.2	2.8	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	3.7	25	0.36 J
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
Trifluoroisochloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	6.0*	0.68 J	ND(1.0)
Vinyl chloride	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(5.0)	ND(3.0)	ND(3.0)
Xylene (total)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.7)	ND(1.0)	ND(1.0)

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17560-)	87-4 080904-DCR-194 8/9/2004 Duplicate	87-5 080904-DCR-191 8/9/2004	87-8 081004-DCR-214 8/10/2004	87-8 081004-DCR-215 8/10/2004 Duplicate	87-9 081004-DCR-213 8/10/2004	87-10 081104-DCR-226 8/11/2004	87-11 081104-DCR-222 8/11/2004
TCL VOC							
1,1,1-Trichloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	0.99 J	1.4	0.57 J
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,1,2-Trichloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,1-Dichloroethane	ND(1.0)	6.3	ND(1.0)	ND(1.0)	0.41 J	0.88 J	ND(2.0)
1,2-Dichloroethane	ND(5.0)	ND(10)	ND(1.0)	ND(5.0)	ND(1.0)	ND(1.0)	ND(2.0)U
1,2,4-Trichlorobenzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,2-Dichlorobenzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,2-Dichloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,2-Dichloropropane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,3-Dichlorobenzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,4-Dichlorobenzene	ND(25)	ND(50)	ND(25)	ND(25)	ND(25)	ND(25)	ND(50)
2-Butanone (Methyl Ethyl Ketone)	ND(50)	ND(100)	ND(50)	ND(50)	ND(50)	ND(50)	ND(100)
2-Hexanone	ND(50)	ND(100)	ND(50)	ND(50)	ND(50)	ND(50)	ND(100)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(25)	ND(50)	ND(25)U	ND(25)U	ND(25)U	ND(25)U	ND(50)U
Acetone	ND(1.0)	ND(2.0)	ND(1.0)U	ND(1.0)	ND(1.0)U	ND(1.0)	ND(2.0)
Benzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Bromodichloromethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Bromoform	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Carbon disulfide	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
Carbon tetrachloride	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Chlorobenzene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Chloroethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Chloroform (Trichloromethane)	1.6	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
cis-1,2-Dichloroethene	ND(1.0)	0.98 J	ND(1.0)	ND(1.0)	ND(1.0)	0.82 J	48
Cyclohexane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Dibromochloromethane	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Ethylbenzene	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
Isopropylbenzene	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(20)
Methyl acetate	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Methyl cyclohexane	ND(5.0)	ND(10)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)
Methyl Tert Butyl Ether	ND(5.0)	ND(10)U	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)U
Methylene chloride	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Styrene	ND(1.0)	ND(2.0)	0.31 J	0.23 J	ND(1.0)	0.38 J	ND(2.0)
Tetrachloroethene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Toluene	ND(1.0)	1.7 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
trans-1,2-Dichloroethene	0.35 J	ND(2.0)	0.49 J	0.48 J	ND(1.0)	33*	0.64 J
Trichloroethene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Trifluorotrichloroethane (Freon 113)	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
Vinyl chloride	ND(1.0)	69**	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	1.0 J
Xylene (total)	ND(6.0)	ND(6.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(6.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)
1,3-Dichloropropene - Total	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-)	87-13 081104-DCR-223 8/11/2004	88-2 081104-DCR-218 8/11/2004	88-3 081104-DCR-219 8/11/2004	88-4 081104-DCR-220 8/11/2004	C-1 081104-DCR-231 8/11/2004	C-2 081104-DCR-230 8/11/2004	C-3 081104-DCR-229 8/11/2004
TCL VOC							
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.29 J	0.51 J
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(6.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,4-Trichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
1,4-Dichlorobenzene	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
2-Hexanone	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
Acetone	ND(1.0)U	ND(1.0)	ND(1.0)	ND(1.0)U	ND(1.0)	ND(1.0)	ND(1.0)U
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.24 J	ND(1.0)
Bromodichloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.75 J	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon disulfide	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
dis-1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.31 J	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.42 J	3.1	5.4
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromomethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.26 J	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(5.0)	ND(5.0)	ND(1.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Isopropylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl acetate	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl cyclohexane	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.8	1.8	4.6
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.50 J	1.6	1.7
Trichloroethene	1.5	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.36 J	0.94 J
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-) Sample Date	MW1-03 081004-DCR-207 8/10/2004	MW2-03 081004-DCR-204 8/10/2004	MW3-03 081004-DCR-205 8/10/2004	MW4-03 081204-DCR-236 8/12/2004	MW5-03 081104-DCR-227 8/11/2004	MW6-03 081104-DCR-224 8/11/2004	MW7-03 081004-DCR-212 8/10/2004
TCL VOC							
1,1,1-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	0.26 J	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.43 J
1,2-Dichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(120)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
2-Hexanone	ND(250)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(250)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
Acetone	ND(120)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Benzene	ND(5.0)U	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Chlorobenzene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Isopropylbenzene	ND(50)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl acetate	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl cyclohexane	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl Tert Butyl Ether	ND(25)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(25)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Styrene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichloroethene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorochloroethane (Freon 113)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(15)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
Xylene (total)	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	ND(5.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TABLE 4.3

ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-)	MW8-04 081104-DCR-225 8/11/2004	MW9-04 081104-DCR-228 8/11/2004	MW10-04 081204-DCR-235 8/11/2004	MW11-04 081204-DCR-233 8/11/2004	MW11-04 081204-DCR-234 8/11/2004 <i>Duplicate</i>	MW1004-DCR-209 081004-DCR-209 8/10/2004	MW14-04 080904-DCR-195 8/9/2004
<u>TCL VOC</u>							
1,1,1-Trichloroethane	ND(1.0)	ND(1.0)	5.5	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	0.51 J	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,2-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(50)	ND(50)	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(100)	ND(100)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(100)	ND(100)	ND(50)	ND(50)
Acetone	ND(25)	ND(25)	ND(25)	ND(50)	ND(50)	ND(25)	0.88 J
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	2.1	0.24 J	ND(1.0)	ND(2.0)	ND(2.0)	ND(2.0)	0.83 J
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	12	0.95 J	ND(1.0)	ND(2.0)	ND(2.0)	0.22 J	4.1
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
dis-1,2-Dichloroethene	ND(1.0)	0.91 J	ND(1.0)	64	62	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(20)	ND(20)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	ND(5.0)	ND(5.0)	3.2 J	3.3 J	0.27 J	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	0.54 J	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Tetrahydroethene	0.33 J	ND(1.0)	ND(1.0)	28*	27*	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	6.6	6.3	ND(1.0)	ND(1.0)
Trichloroethane	2.8	11*	45*	44*	44*	ND(1.0)	0.36 J
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Trifluorochloroethane (Freon 113)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(6.0)	ND(6.0)	ND(3.0)	ND(3.0)
dis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(2.0)	ND(1.0)	ND(1.0)

TABLE 4.3

**ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Sample Location Sample Identification (GW-47360-)	MW15-04 081004-DCR-211 8/10/2004	PWDISCH 081104-DCR-221 8/11/2004	Trip Blank 080904-DCR-201 8/9/2004	Trip Blank 081004-DCR-217 8/10/2004	Trip Blank 081104-DCR-232 8/11/2004	Trip Blank 081204-DCR-237 8/12/2004
TCL VOC						
Units						
1,1,1-Trichloroethane	10	0.53 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-Tetrachloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-Trichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-Dichloroethene	0.80 J	ND(1.0)	ND(1.0)	ND(1.0)	0.44 J	ND(1.0)
1,2,4-Trichlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dibromo-3-chloropropane (DBCP)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dibromoethane (Ethylene Dibromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-Dichloropropane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-Dichlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-Butanone (Methyl Ethyl Ketone)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
2-Hexanone	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Acetone	ND(250)	ND(25)	ND(25)	ND(25)	ND(25)	ND(25)
Benzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromodichloromethane	ND(1.0)	0.43 J	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromoform	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Bromomethane (Methyl Bromide)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Carbon disulfide	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Carbon tetrachloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chlorobenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloroform (Trichloromethane)	ND(1.0)	2.9	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Chloromethane (Methyl Chloride)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
cis-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dibromochloromethane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Dichlorodifluoromethane (CFC-12)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Ethylbenzene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Isopropylbenzene	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methyl acetate	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Methyl cyclohexane	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Methyl Tert Butyl Ether	ND(5.0)	0.25 J	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Methylene chloride	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Tetrachloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Toluene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,2-Dichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	0.18 J	ND(1.0)
Trichloroethene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trichlorofluoromethane (CFC-11)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Trifluorotrchloroethane (Freon 113)	2.0	1.8	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Vinyl chloride	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
Xylene (total)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
cis-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
trans-1,3-Dichloropropene	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,3-Dichloropropene - Total	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

TABLE 4.3
ANALYTICAL RESULTS FOR TCL VOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Notes:

- J – The associated value is qualified as an estimated quantity.
- U – The analyte was analyzed for, but was qualified not detected above the value identified.
- UJ – The analyte was reported or qualified as not detected however, the sample report limit is qualified as an estimated value and may be inaccurate or imprecise.
- ND () – Not detected above the value in parenthesis.
- value with super script a or b indicates specific criterion(s) exceeded

TABLE 4.4

ANALYTICAL RESULTS FOR TCL SVOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-) Sample Date	Residential & Commercial I DW a	85-3 080904-DCR-200 8/9/2004	85-5B 080904-DCR-199 8/9/2004	85-6 081004-DCR-202 8/10/2004 (Original)	85-6 081004-DCR-203 8/10/2004 Duplicate	86-1 080904-DCR-197 8/9/2004
<u>TCL SVOC</u>						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)		ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2,4,5-Trichlorophenol	730	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2,4,6-Trichlorophenol	120	ND(40)	ND(16)	ND(4.0)	ND(4.0)	ND(4.0)
2,4-Dichlorophenol	73	ND(100)	ND(40)	ND(10)	ND(10)	ND(10)
2,4-Dimethylphenol	370	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2,4-Dinitrophenol		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
2,4-Dinitrotoluene	7.7	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2,6-Dinitrotoluene		ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2-Chloronaphthalene	1800	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2-Chlorophenol	45	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2-Methylnaphthalene	260	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2-Methylphenol	370	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
2-Nitroaniline		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
2-Nitrophenol	20	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
3,3'-Dichlorobenzidine	1.1	ND(40)	ND(16)	ND(4.0)	ND(4.0)	ND(4.0)
3-Nitroaniline		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
4,6-Dinitro-2-methylphenol	20	ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
4-Bromophenyl phenyl ether		ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
4-Chloro-3-methylphenol	150	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
4-Chloroaniline		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
4-Chlorophenyl phenyl ether		ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
4-Methylphenol	370	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
4-Nitroaniline		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
4-Nitrophenol		ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
Acenaphthene	1300	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Acenaphthylene	52	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Acetophenone	1500	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Anthracene	43	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Atrazine	3	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Benzaldehyde		ND(100)	ND(40)	ND(10)	ND(10)	ND(10)
Benzo(a)anthracene	2.1	ND(40)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Benzo(a)pyrene	5	ND(40)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Benzo(b)fluoranthene	2	ND(40)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Benzo(g,h,i)perylene	5	ND(50)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
Benzo(k)fluoranthene	5	ND(50)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
			5.4 J ^a			
			2.3 J ^a			
			4.3 J ^a			
			2.0 J			
			2.1 J			

TABLE 4.4

ANALYTICAL RESULTS FOR TCL SVOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location Sample Identification (GW-17360-)	Residential & Commercial I	85-3 080904-DCR-200 8/9/2004	85-5B 080904-DCR-199 8/9/2004	85-6 081004-DCR-202 8/10/2004 (Original)	85-6 081004-DCR-203 8/10/2004 Duplicate	86-1 080904-DCR-197 8/9/2004
TCL SVOC						
Biphenyl		ND(100)	ND(40)	ND(10)	ND(10)	ND(10)
bis(2-Chloroethoxy)methane		ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
bis(2-Chloroethyl)ether	2	ND(40)	ND(16)	ND(4.0)	ND(4.0)	ND(4.0)
bis(2-Ethylhexyl)phthalate	6	8.4 J*	ND(20)	8.6*	ND(5.0)	ND(5.0)
Butyl benzylphthalate	1200	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Caprolactam	5800	9.5 J	ND(40)	ND(10)	ND(10)	ND(10)
Carbazole	85	ND(50)	ND(40)	ND(10)	ND(10)	ND(10)
Chrysene	5	ND(50)	4.0 J	ND(5.0)	ND(5.0)	ND(5.0)
Dibenz(a,h)anthracene	2	ND(40)	ND(16)	ND(4.0)	ND(4.0)	ND(4.0)
Dibenzofuran	ID	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Diethyl phthalate	5500	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Dimethyl phthalate	73000	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Di-n-butylphthalate	880	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Di-n-octyl phthalate	130	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Fluoranthene	210	5.8 J	19 J	ND(5.0)	ND(5.0)	ND(5.0)
Fluorene	880	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Hexachlorobenzene	1	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Hexachlorobutadiene	15	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Hexachlorocyclopentadiene	50	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Hexachloroethane	7.3	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Indeno(1,2,3-cd)pyrene	2	ND(40)	1.8 J	ND(4.0)	ND(4.0)	ND(4.0)
Isophorone	770	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Naphthalene	520	ND(40)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Nitrobenzene	3.4	ND(40)	ND(16)	ND(4.0)	ND(4.0)	ND(4.0)
N-Nitrosodi-n-propylamine	5	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
N-Nitrosodiphenylamine	270	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Pentachlorophenol	1	ND(200)	ND(80)	ND(20)	ND(20)	ND(20)
Phenanthrene	52	ND(50)	4.3 J	ND(5.0)	ND(5.0)	ND(5.0)
Phenol	4400	ND(50)	ND(20)	ND(5.0)	ND(5.0)	ND(5.0)
Pyrene	140	6.1 J	22	ND(5.0)	ND(5.0)	ND(5.0)

TABLE 4.4

ANALYTICAL RESULTS FOR TCL SVOCs IN GROUNDWATER SAMPLES
GENERAL MOTORS GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Notes:

- J – The associated value is qualified as an estimated quantity.
- U – The analyte was analyzed for, but was qualified not detected above the value identified.
- UJ – The analyte was reported or qualified as not detected however, the sample report limit is qualified as an estimated value and may be inaccurate or imprecise.
- ND () – Not detected above the value in parenthesis.
- value with super script indicates criterion exceeded

2004 DATA REPORT

**GENERAL MOTORS CORPORATION
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

Volume II of II

DECEMBER 2004

REF. NO. 17360 (9)

APPENDIX A

STRATIGRAPHIC AND MONITORING WELL CONSTRUCTION LOGS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP8-04
 DATE COMPLETED: July 15, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	674.45							
2	SP-SANDS, trace silts & loose, fine to medium grained, poorly graded, light brown, moist		← NATIVE SOILS	1SS		75	7	0.0	
4				2SS		75	8	0.0	
6				3SS		66	7	0.0	
6	SW-SANDS, trace silts & fine gravels, loose, fine to coarse grained, well graded, tan/beige, moist	669.45	← 8" BOREHOLE	4SS		80	3	0.0	
8		5SS			66	6	0.0		
10	SP-SANDS, trace silts, loose, fine to coarse grained, poorly graded, tan/beige, moist - fine to medium grained at 10.5ft BGS - fine gravel at 12.5ft BGS	665.20	← BENTONITE GROUT	6SS		75	4	0.0	
12		7SS			90	4	0.0		
14		8SS			85	7	0.0		
16	SM-SILTY SANDS, compact, fine grained, poorly graded, light brown, moist - very moist to saturated at 19.8ft BGS	657.20		9SS		80	11	0.0	
18				10SS		75	13	0.0	
20				11SS		75	8	0.0	
22				12SS		75	12	0.0	
24	SP-SANDS, trace silts, loose, fine to medium grained, poorly graded, orange brown, saturated, oxidation	649.95	← BENTONITE GROUT	13SS		75	7	0.0	
26		648.95 648.45		14SS		90	19	0.0	
28	SM/SP-SANDS & SILTS, loose, fine sands, brown, gray and orange brown, saturated, oxidation			15SS		25	12	0.0	
30	SP-SANDS, trace silts, loose, fine to medium grained, poorly graded, saturated, oxidation, occasional 1"-2" SM/SP seam - fine to coarse grained, trace fine gravels at 30.0ft BGS			16SS		75	7	0.0	
32				17SS		75	9	0.0	
34				18SS		33	5	0.0	
36				19SS		75	11	0.0	
38				20SS		75	7	0.0	
40				21SS		66	9	0.0	
42				22SS		90	16	0.0	
44	- fine to medium grained, light brown at 41.3ft BGS - fine to coarse grained, moderately graded at 43.0ft BGS								

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP8-04
 DATE COMPLETED: July 15, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
46				23SS		80	17	0.0
48			← 8" BOREHOLE	24SS		75	9	0.0
50				25SS		75	12	0.0
52	SW-SANDS, trace silts and fine gravels, compact, fine to coarse grained, well graded, brown, saturated	623.95	← BENTONITE GROUT	26SS		75	9	0.0
54	CL-SILTY CLAYS, trace fine sands, very stiff, low plasticity, gray, moist END OF BOREHOLE @ 54.0ft BGS	620.95 620.45		27SS			34	0.0
56								
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								
78								
80								
82								
84								
86								
88								

OVERBURDEN LOG 17360-09B.GPJ_CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP9-04
 DATE COMPLETED: July 23, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	678.27							
2	SM-SILTY SANDS, trace fine gravels, compact, fine to medium grained, poorly graded, dark brown, moist - brown, trace orange streaking, oxidation at 0.8ft BGS		← NATIVE SOILS	1SS		80	13	0.0	
4	- tan/beige at 4.5ft BGS - brown at 5.0ft BGS - fine grained at 6.3ft BGS			2SS		50	5	0.0	
6				3SS		75	8	0.0	
8	- fine to medium grained at 8.8ft BGS			4SS		75	6	0.0	
10			← 8" BOREHOLE	5SS		85	5	0.0	
12	- fine grained, tan/beige, trace orange streaking, oxidation at 11.5ft BGS			6SS		75	5	0.0	
14				7SS		75	9	0.0	
16	- increase in silt content at 16.5ft BGS		← BENTONITE GROUT	8SS		75	7	0.0	
18				9SS		80	10	0.0	
20				10SS		75	19	0.0	
22	- very moist at 22.5ft BGS - saturated, brown at 23.0ft BGS			11SS		75	12	0.0	
24	- decrease in silt content at 24.5ft BGS			12SS		75	11	0.0	
26				13SS		66	5	0.0	
28	SP-SANDS, trace silts, loose, fine to medium grained, poorly graded, brown, saturated	651.77		14SS		75	6	0.0	
30				15SS		75	5	0.0	
32				16SS		75	7	0.0	
34	ML/SP-SANDS & SILTS, trace clays, loose/soft, fine sands, brown-gray, saturated	645.77		17SS		80	6	0.0	
36	SP-SANDS-trace silts, compact, fine to medium grained, poorly graded, brown, saturated	643.27		18SS		25	12	0.0	
38				19SS		75	9	0.0	
				20SS		75	4	0.0	

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP9-04
 DATE COMPLETED: July 23, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
42	- trace silts, fine to coarse grained, moderately graded in some areas at 41.0ft BGS			21SS		75	5	0.0	
44		22SS			80	8	0.0		
46		23SS			80	7	0.0		
48		24SS			75	17	0.0		
50		25SS			75	12	0.0		
52		26SS			90	5	0.0		
54		27SS			25	4	0.0		
56		- fine to medium grained, light brown at 56.0ft BGS			28SS		50	2	0.0
58				29SS		90	11	0.0	
60				30SS		25	5	0.0	
62	31SS		617.02		50	4	0.0		
64	32SS			90	34	0.0			
66	33SS		75	61	0.0				
68	34SS	610.27		0	0.0				
70	35SS	608.27		90	77	0.0			
72	END OF BOREHOLE @ 70.0ft BGS								

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP10-04
 DATE COMPLETED: July 26, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	"N" VALUE	PID (ppm)	
	GROUND SURFACE	666.63							
2	SM-SILTY SANDS, trace fine gravels, loose, fine to coarse grained, poorly graded, dark brown, moist, trace grasses, rootlets - brown at 1.5ft BGS - light brown, trace oxidation at 2.5ft BGS - fine grained, brown at 5.5ft BGS - fine to coarse grained, light brown at 6.5ft BGS - fine to medium grained at 10.5ft BGS - very moist to saturated, brown-gray at 11.5ft BGS - saturated at 12.0ft BGS			1SS		80	6	0.0	
4				2SS		80	16	0.0	
6				3SS		75	12	0.0	
8				4SS		90	8	0.0	
10				5SS		75	8	0.0	
12				6SS		80	4	0.0	
14				7SS		66	7	0.0	
16		SP-SANDS, trace silts & fine gravels, loose, fine to coarse gravel, poorly to moderately graded, brown-gray, saturated - fine to medium grained, poorly graded at 24.0ft BGS		652.13	8SS		75	6	0.0
18					9SS		90	13	0.0
20					10SS		80	8	0.0
22					11SS		75	10	0.0
24					12SS		75	7	0.0
26					13SS		75	5	0.0
28				SM-SILTY SANDS, compact, fine grained, poorly graded, brow, saturated - light brown at 30.8ft BGS - fine to medium grained, brown at 34.0ft BGS	639.63	14SS		85	12
30			15SS			75	10	0.0	
32			16SS			75	8	0.0	
34			17SS			75	11	0.0	
36		18SS			80	8	0.0		
38		19SS			75	7	0.0		
		20SS			75	6	0.0		
	SP-SANDS, trace silts & fine gravels, loose,	627.38							

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP10-04
 DATE COMPLETED: July 26, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
42	fine to medium grained, poorly graded, brown	624.13		21SS		75	8	0.0
44	SM-SILTY SANDS, compact, fine grained, poorly graded, brow, saturated - fine to coarse grained at 43.8ft BGS			22SS		80	19	0.0
46	- with silts at 46.0ft BGS			23SS		90	13	0.0
48	- fine to medium grained at 47.8ft BGS			24SS		80	37	0.0
50				25SS		25	13	0.0
52	SP-SANDS, trace silts & fine gravels, fine to coarse grained, poorly graded, brown, saturated	616.63		26SS		90	4	0.0
54				27SS		88	8	0.0
56				28SS		90	10	0.0
58	SM-SILTY SANDS, dense, fine grained, poorly graded, brown, saturated			29SS		75	33	0.0
60				30SS		80	15	0.0
62	SP-SANDS, trace silts, compact, fine to medium grained, poorly graded, brown, saturated	609.38		31SS		80	7	0.0
64				32SS		75	34	0.0
66				33SS		25	23	0.0
68				34SS		25	6	0.0
70				35SS		75	5	0.0
72		605.13		36SS		80	12	0.0
74	- fine to coarse grained, light brown at 74.5ft BGS			37SS		80	5	0.0
76	- trace fine to medium gravels, very dense at 77.0ft BGS			38SS		25	11	0.0
				39SS		90	47	0.0
78				40SS		90	100	0.0

OVERBURDEN LOG 17360-09B.GFJ CRA CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP10-04
 DATE COMPLETED: July 26, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
82 84 86 88 90 92 94 96 98 100 102 104 106 108 110 112 114 116 118	CL-SILTY CLAYS, trace fine sands to fine gravels, very stiff, low plasticity, gray, moist END OF BOREHOLE @ 82.0ft BGS	585.63 584.63	<p>8" BOREHOLE BENTONITE GROUT</p>	41SS		90	19	0.0

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP11-04
 DATE COMPLETED: July 27, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	663.71							
2	SM-SILTY SANDS W/ CLAYS, trace fine gravels, loose, fine grained, poorly graded, non-plastic, dark brown, moist, trace peat - light brown, compact at 3.3ft BGS - brown & dark brown banding, occasional 1/4" to 1/2" peat seam at 4.5ft BGS - fine to coarse grained, brown with silts at 6.0ft BGS - very moist to saturated at 8.5ft BGS - saturated at 9.0ft BGS		← NATIVE SOILS ← 8" BOREHOLE ← BENTONITE GROUT	1SS		75	18	0.0	
4				2SS		75	17	0.0	
6				3SS		85	12	0.0	
8				4SS		75	6	0.0	
10				5SS		75	4	0.0	
12	SW-SANDS W/ GRAVELS, trace silts, compact, fine to coarse grained, well graded, brown-gray, saturated, fine to medium gravels	654.46		6SS		75	8	0.0	
14			7SS		75	7	0.0		
16			8SS		75	8	0.0		
18			9SS		85	7	0.0		
20			10SS		66	9	0.0		
22	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly graded, brown-gray, saturated - fine to medium grained at 21.0ft BGS - fine to coarse grained at 22.0ft BGS	645.71		11SS		75	7	0.0	
24			12SS		66	11	0.0		
26			13SS		66	3	0.0		
28			14SS		75	14	0.0		
30			15SS		90	2	0.0		
32	SM-SILTY SANDS, compact, fine grained, poorly graded, brown, saturated	636.46		16SS		66	5	0.0	
34			17SS		75	15	0.0		
36			18SS		75	4	0.0		
38			19SS		90	15	0.0		
40			20SS		90	8	0.0		
42	SM/SP- SILTS & SANDS, compact, fine sands, non-plastic, brown & gray banded, saturated SM-SILTY SANDS, compact, fine to coarse grained, poorly graded, brown, saturated - fine-grained, gray-brown at 42.0ft BGS	624.21 623.46		21SS		80	12	0.0	
44			22SS		90	15	0.0		

OVERBURDEN LOG - 17360-09B.GPJ, GRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP11-04
 DATE COMPLETED: July 27, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	PID (ppm)
46	- trace fine gravels, fine to medium grained at 53.5ft BGS			23SS		80	10	0.0
48				24SS		66	13	0.0
50				25SS		66	14	0.0
52				26SS		75	20	0.0
54				27SS		66	19	0.0
56	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly graded, brown, saturated	607.21		28SS		100	9	0.0
58								
60	- fine to medium grained at 62.0ft BGS							
62								
64	OL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist END OF BOREHOLE @ 70.0ft BGS	594.46 593.71						
66								
68								
70								
72								
74								
76								
78								
80								
82								
84								
86								
88								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17360-09B.GPJ CRA CORP GDT 10/21/04



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP12-04
 DATE COMPLETED: July 20, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	677.90							
0	ASPHALT-black	677.70	ASPHALT						
2	SM-SILTY SANDS, trace fine gravels, compact, fine grained, poorly graded, brown, moist		NATIVE SOILS	1SS		75	18	0.0	
4	- light brown at 1.0ft BGS - fine to coarse grained, light brown at 3.8ft BGS			2SS		75	17	0.0	
6	- light brown, some orange banding, oxidation at 4.5ft BGS			3SS		85	12	0.0	
8				4SS		66	6	0.0	
10			8" BOREHOLE	5SS				0.0	
12	- fine to medium grained, tan-beige at 11.5ft BGS			6SS				0.0	
14				7SS				0.0	
16	- light brown at 16.0ft BGS		BENTONITE GROUT	8SS				0.0	
18				9SS				0.0	
20				10SS				0.0	
22	- fine to coarse grained, brown, very moist at 21.0ft BGS - saturated at 21.5ft BGS			11SS				0.0	
24		653.90		12SS				0.0	
26	SP-SANDS, trace silts & fine gravels, compact, fine to coarse grained, poorly to moderately graded, brown, saturated			13SS				0.0	
28	- fine grained, poorly graded, light brown at 26.3ft BGS - fine to medium grained, occasional 1"-2" well graded seam at 28.5ft BGS			14SS				0.0	
30				15SS				0.0	
32				16SS				0.0	
34	- fine to coarse grained, brown at 33.0ft BGS			17SS				0.0	
36	- moderately graded at 36.5ft BGS			18SS				0.0	
38				19SS				0.0	
40	- poorly graded at 39.5ft BGS			20SS				0.0	
42				21SS				0.0	
44				22SS				0.0	

OVERBURDEN LOG - 17360-09B.GPJ CRA_CORP.GDT - 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: HP12-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 20, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
46	- moderately graded at 45.0ft BGS		<p style="text-align: center;">8" BOREHOLE</p> <p style="text-align: center;">BENTONITE GROUT</p>	23SS				0.0
48				24SS				0.0
50				25SS				
52				26SS				0.0
54		623.40		27SS				0.0
56	CL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist END OF BOREHOLE @ 56.0ft BGS	621.90		28SS				0.0
58								
60								
62								
64								
66								
68								
70								
72								
74								
76								
78								
80								
82								
84								
86								
88								

OVERBURDEN LOG 17360-09B.GFJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: HP13-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 19, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	678.85							
2	SM-SILTY SANDS, trace fine gravels, compact, fine grained, poorly graded, dark brown, moist, trace rootlets			1SS		75	12	0.1	
4	- fine to coarse grained, orange brown at 2.8ft BGS			2SS		75	13	0.0	
6	- fine grained, light brown at 5.0ft BGS			3SS		75	9	0.0	
8	- no gravels at 6.8ft BGS			4SS		66	7	0.0	
10	- fine to coarse grained, dark brown, and orange brown at 9.5ft BGS			5SS		75	7	0.0	
12	- light brown at 10.8ft BGS			6SS		75	8	0.0	
14	- fine to medium grained, tan/beige, trace fine gravels at 13.3ft BGS			7SS		90	7	0.0	
16	- fine to coarse grained at 14.5ft BGS			8SS		90	11	0.0	
18	- fine to medium grained at 17.5ft BGS			9SS		85	10	0.0	
20	- very moist to saturated, brown at 19.5ft BGS			10SS		75	9	0.0	
22	- saturated, fine grained at 20.0ft BGS			11SS		75	5	0.0	
24	- fine to coarse grained at 23.5ft BGS			12SS		90	15	0.0	
26	SP-SANDS, trace silts and fine gravels, compact, fine to coarse grained, poorly graded, brown, saturated	654.35		13SS		75	9	0.0	
28	SM-SILTY SANDS, compact, fine grained, poorly graded, brown, saturated	651.85		14SS		100	9	0.0	
30	CL-SILT CLAYS, stiff, low plasticity, gray, moist	649.85		15SS		75	11	0.0	
32	ML-SILTS W/ SANDS & CLAY, loose/firm, fine sands, low to non-plastic, gray, saturated, occasion 1" CL-silty clay seam	648.60		16SS		75	8	0.0	
34	CL-SILTY CLAYS, trace fine sands, very stiff, low plasticity, gray, moist	647.10		17SS		75	19	0.0	
36	END OF BOREHOLE @ 36.0ft BGS	642.85		18SS		100	13	0.0	

OVERBURDEN LOG - 17360-09B.GPJ - CRA - CORP.GDT - 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP13-04
 DATE COMPLETED: July 19, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N-VALUE	PID (ppm)
46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88			← 8" BOREHOLE ← BENTONITE GROUT					

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP14-04
 DATE COMPLETED: July 12, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	681.05							
	WOOD BLOCK FLOORING	680.80							
	CONCRETE-with fine gravels, white, competent	680.05		1HA		100		6.9	
2	SM-SILTY SANDS W/ GRAVELS, loose, fine to coarse grained, poorly graded, brown, moist, fine to medium gravels - trace fine gravels, fine to medium grained at 3.0ft BGS - trace fine to medium gravels, fine to coarse grained at 4.0ft BGS - fine grained, no gravels, light brown, trace orange, streaking, oxidation at 5.3ft BGS - fine to medium grained at 11.3ft BGS			2SS		66	10	15.8	
4				3SS		33	19	4.9	
6				4SS		66	10	4.4	
8				5SS		66	7	9.8	
10				6SS		66	13	4.2	
12				7SS		50	10	4.8	
14		SW-SANDS, trace silts and fine gravels, fine to coarse grained, well graded, brown and gray, moist - compact at 16.0ft BGS - saturated at 23.0ft BGS - gray at 26.0ft BGS	667.80		8SS		50	10	2.9
16					9SS		50	8	1.8
18					10SS		50	14	1.9
20					11SS		50	18	1.3
22					12SS		50	12	1.0
24					13SS				
26					14SS		25	22	0.8
28				15SS		33	5	0.9	
30				16SS		33	6	0.8	
32				17SS		50	8	1.2	
34			18SS		50	13	0.8		
36			19SS		33	15	0.7		
38			20SS		50	16	0.8		
40	SP-SANDS, trace silts, compact, fine to coarse grained, poorly graded, brown-gray, saturated	641.05		21SS		50	17	0.7	
42				22SS		50	18	0.6	
44									

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ○



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS

HOLE DESIGNATION: HP14-04

PROJECT NUMBER: 17360-09

DATE COMPLETED: July 12, 2004

CLIENT: GENERAL MOTORS

DRILLING METHOD: HSA/SPLIT SPOON

LOCATION: WYOMING, MI

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
46	<p style="text-align: center;">- fine to medium grained at 47.5ft BGS</p> <p style="text-align: center;">- fine to coarse grained, medium brown at 57.3ft BGS</p>	616.05		23SS	50	16	0.8	
48				24SS	50	27	0.6	
50				25SS	25	17	0.8	
52				26SS	75	14	6.8	
54				27SS	75	10	0.3	
56				28SS	50	13	0.0	
58				29SS	75	26	0.4	
60				30SS	50	24	0.3	
62				31SS	50	26	0.2	
64				32SS	50	21	0.3	
66	END OF BOREHOLE @ 65.0ft BGS							
68								
70								
72								
74								
76								
78								
80								
82								
84								
86								
88								

OVERBURDEN LOG 17360-09B.GPJ CRA CORP.GDT 10/21/04

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: GM GRAND RAPIDS
 PROJECT NUMBER: 17360-09
 CLIENT: GENERAL MOTORS
 LOCATION: WYOMING, MI

HOLE DESIGNATION: HP15-04
 DATE COMPLETED: July 20, 2004
 DRILLING METHOD: HSA/SPLIT SPOON
 FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE INSTALLATION	SAMPLE					
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)	
	GROUND SURFACE	671.89							
2	ASPHALT-black SM-SILTY SANDS, loose, fine to coarse gravel, poorly graded, dark brown, moist - orange-brown oxidation at 2.3ft BGS	671.89	ASPHALT	1SS		50	7	0.0	
4	- brown with concrete and slag debris at 4.5ft BGS		NATIVE SOILS	2SS		75	3	0.0	
6				3SS		66	6	0.0	
8				4SS		50	5	0.0	
10				5SS		25	2	0.0	
12	PT-PEAT, trace fine sands, soft, black, trace rootlets	661.64	8" BOREHOLE	6SS		75	6	0.0	
14	OL-ORGANIC CLAYS, trace fine sands, soft, low plasticity, light gray, moist	661.14		7SS		75	16	0.0	
16	SM-SILTY SANDS, loose, fine to coarse gravel, poorly graded, TAN/BEIGE, moist - very moist at 14.0ft BGS	657.39		8SS		85	16	0.0	
18	SP-SANDS, trace silts and fine gravels, compact, fine to coarse grained, poorly graded, saturated		BENTONITE GROUT	9SS		85	12	0.0	
20	- moderately graded at 19.0ft BGS			10SS		75	11	0.0	
22				11SS		85	9	0.0	
24	- poorly graded at 23.5ft BGS			12SS		85	13	0.0	
26				13SS		75	7	0.0	
28				14SS		75	7		
30	- fine grained at 30.0ft BGS			15SS		75	12		
32				16SS		50	7		
34				17SS		90	21		
36	SM-SILTY SANDS, compact, fine grained, poorly graded, brown, saturated	636.89		18SS		80	16		
38				19SS		80	45		
40				20SS		60	15		
42				21SS		90	14		
44				22SS		80	19		
				23SS		60	5		

OVERBURDEN LOG 17360-09B.GPJ CRA_CORP.GDT 10/21/04

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CHEMICAL ANALYSIS