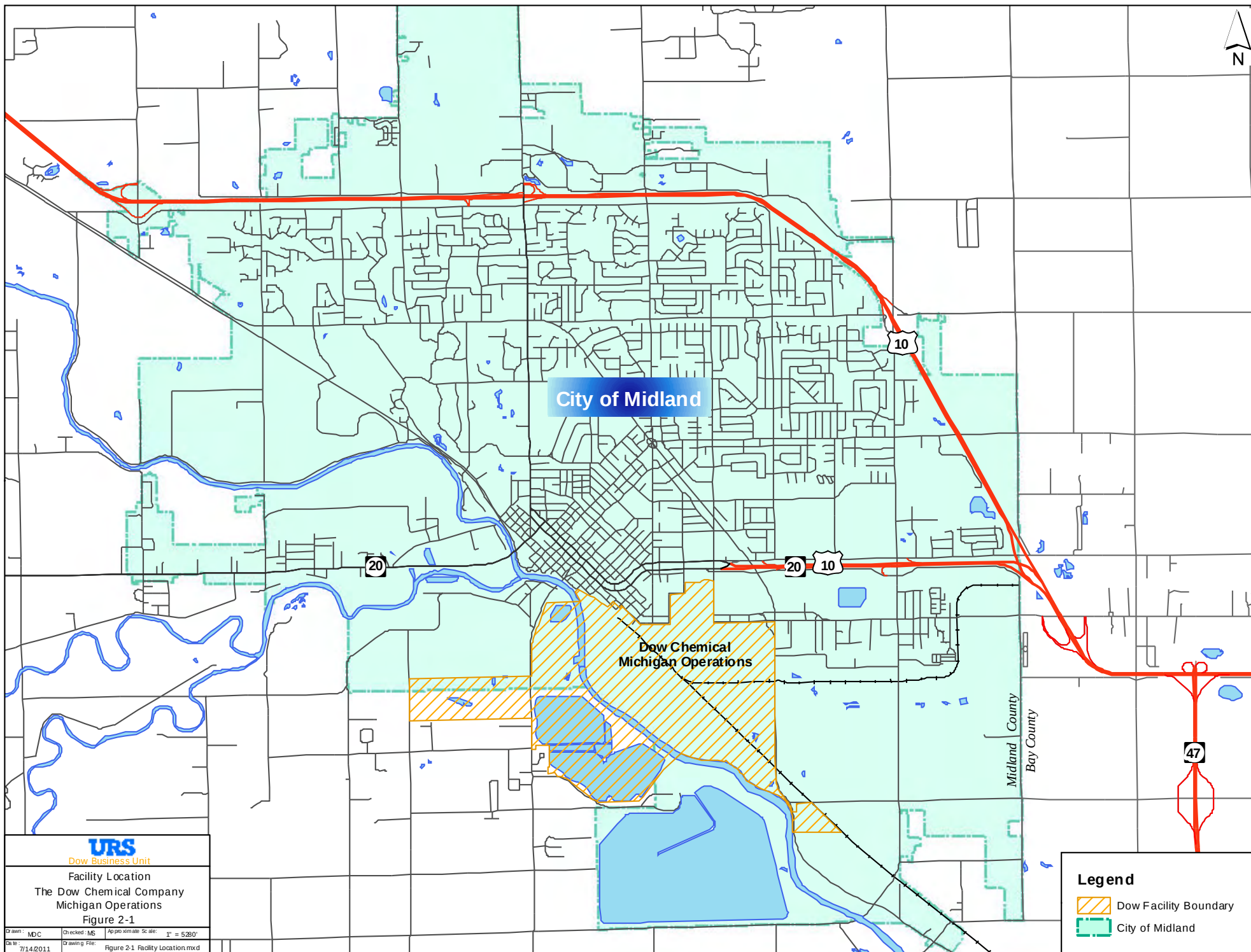




Wind Rose for Meteorological Station No. 72639 (Dow Midland Plant) Composite for 1987-1991

Source: Incinerator Upgrade Human Health Risk Assessment,
The Dow Chemical Company,
July 2001

Wind Rose originates from monitoring
station on Midland Plant.

Note: Wind rose indicates direction from which wind originates.

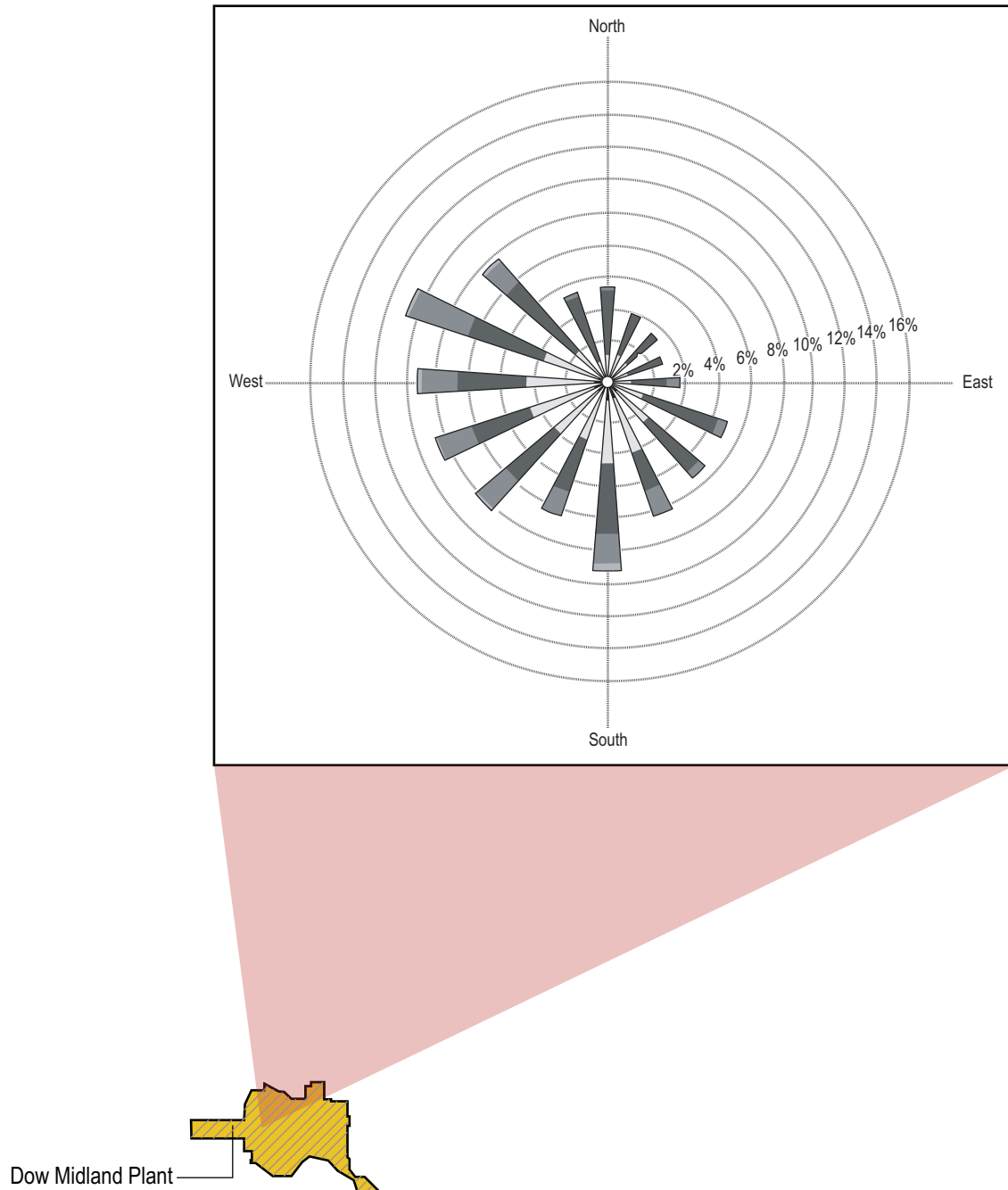
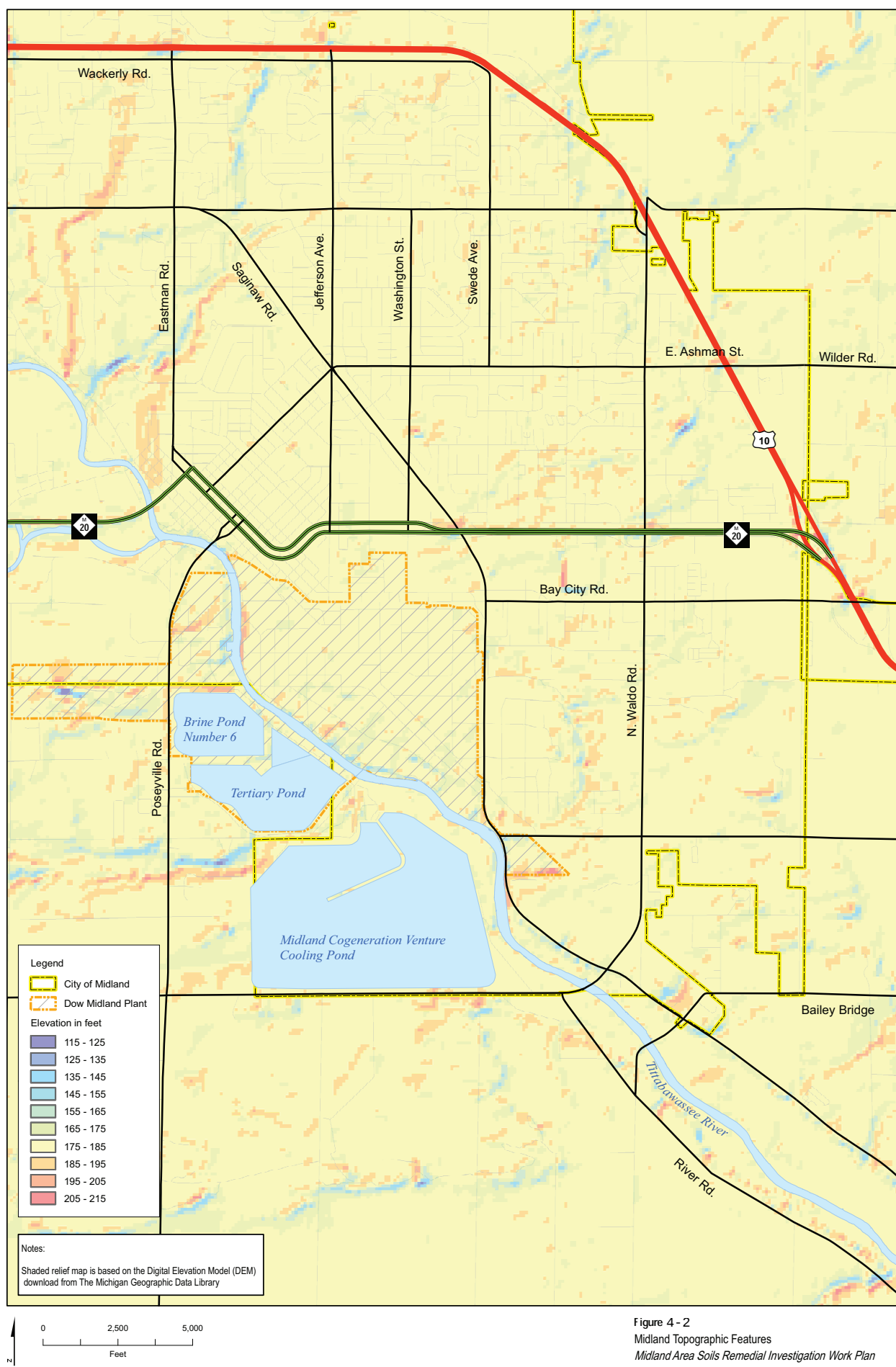


Figure 4-1

Wind Rose Diagram

Midland Area Soils Remedial Investigation Work Plan





Midland Resolution Area

Legend

Midland Resolution Area

Facility Boundary - MIOPS

City of Midland Land Use

SINGLE FAMILY RESIDENTIAL

2-FAMILY RESIDENTIAL

MULTIPLE FAMILY RESIDENTIAL

MOBILE HOME PARK

OFFICE SERVICE

RETAIL COMMERCIAL

LIGHT INDUSTRIAL

HEAVY INDUSTRIAL

WASTE RELATED ACTIVITY

PUBLIC/ SEMI-PUBLIC

PARKS AND RECREATION

PARKING/AIRPORT

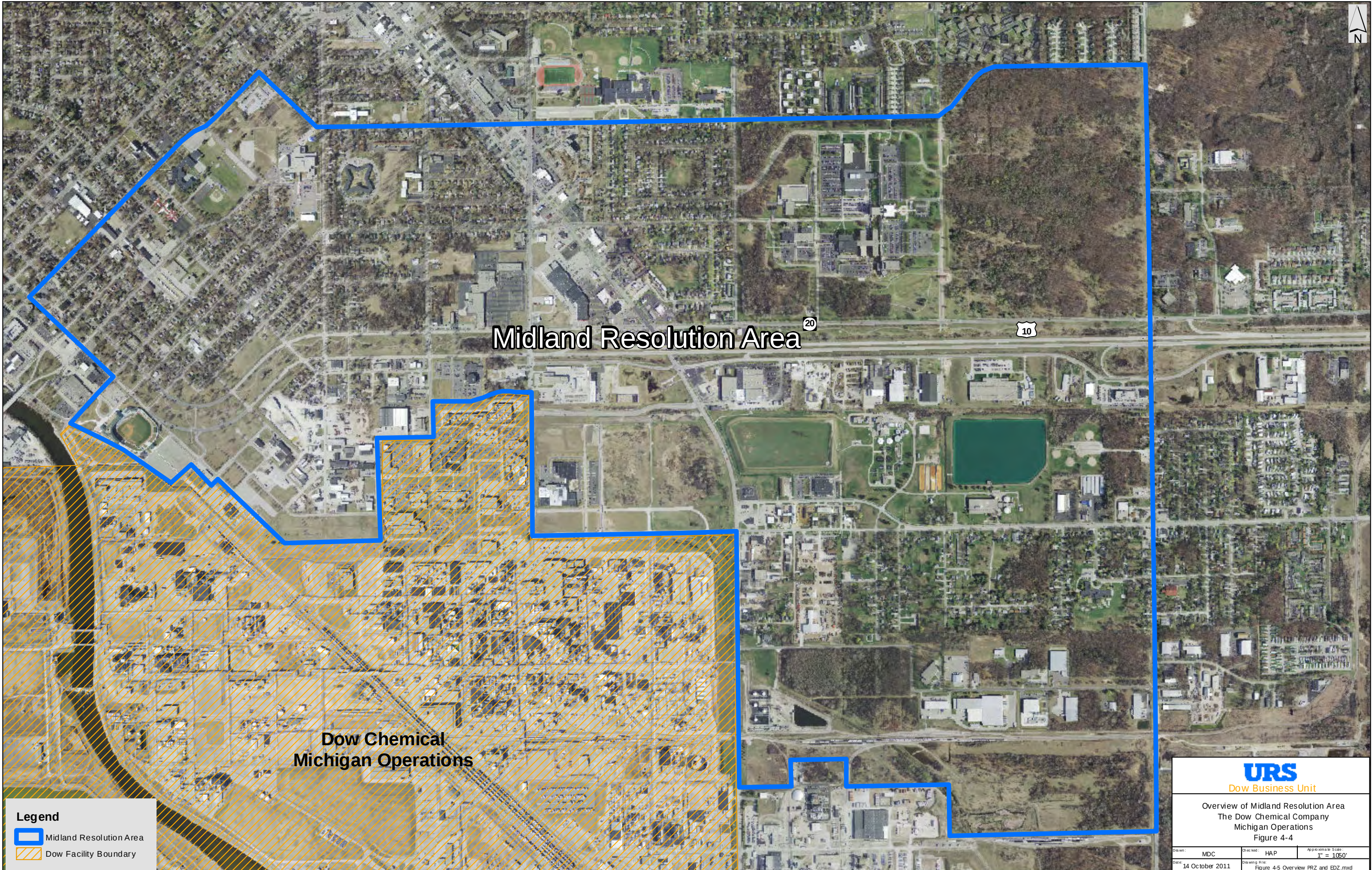
NO ACTIVITY

OTHER



Land Use Area
The Dow Chemical Company
Michigan Operations
Figure 4-3

Drawn: MDC	Checked: HAP	Approximate Scale: 1" = 500'
Date: 14 October 2011	Drawing File: Figure 4-4 Land Use Area.mxd	



Midland Resolution Area

Dow Chemical
Michigan Operations

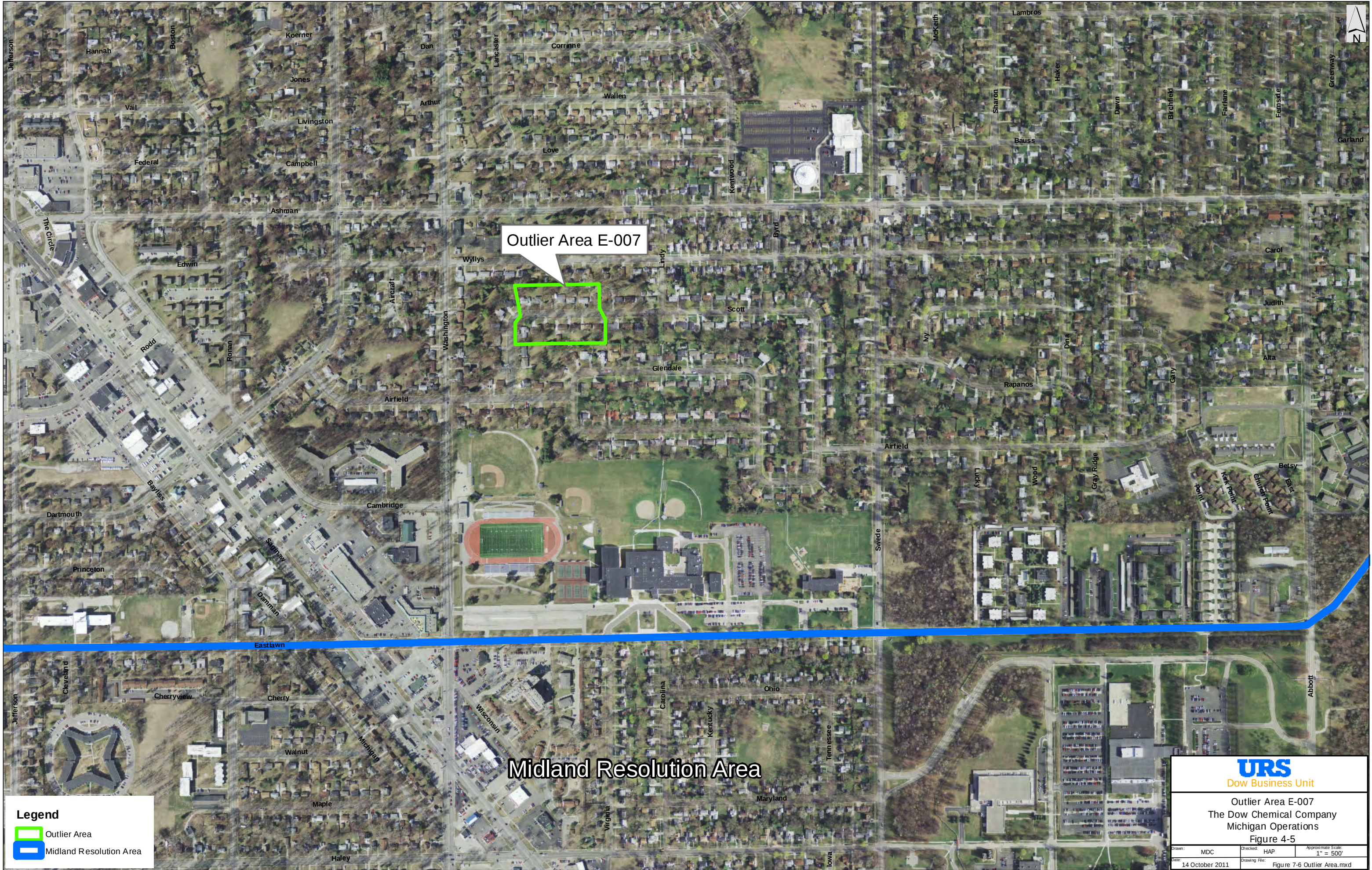
Legend

-  Midland Resolution Area
-  Dow Facility Boundary



Overview of Midland Resolution Area
The Dow Chemical Company
Michigan Operations
Figure 4-4

Drawn: MDC	Checked: HAP	Approximate Scale: 1" = 1050'
Date: 14 October 2011	Drawn By: Figure 4-5 Overview PRZ and EDZ.mxd	



Outlier Area E-007

Midland Resolution Area

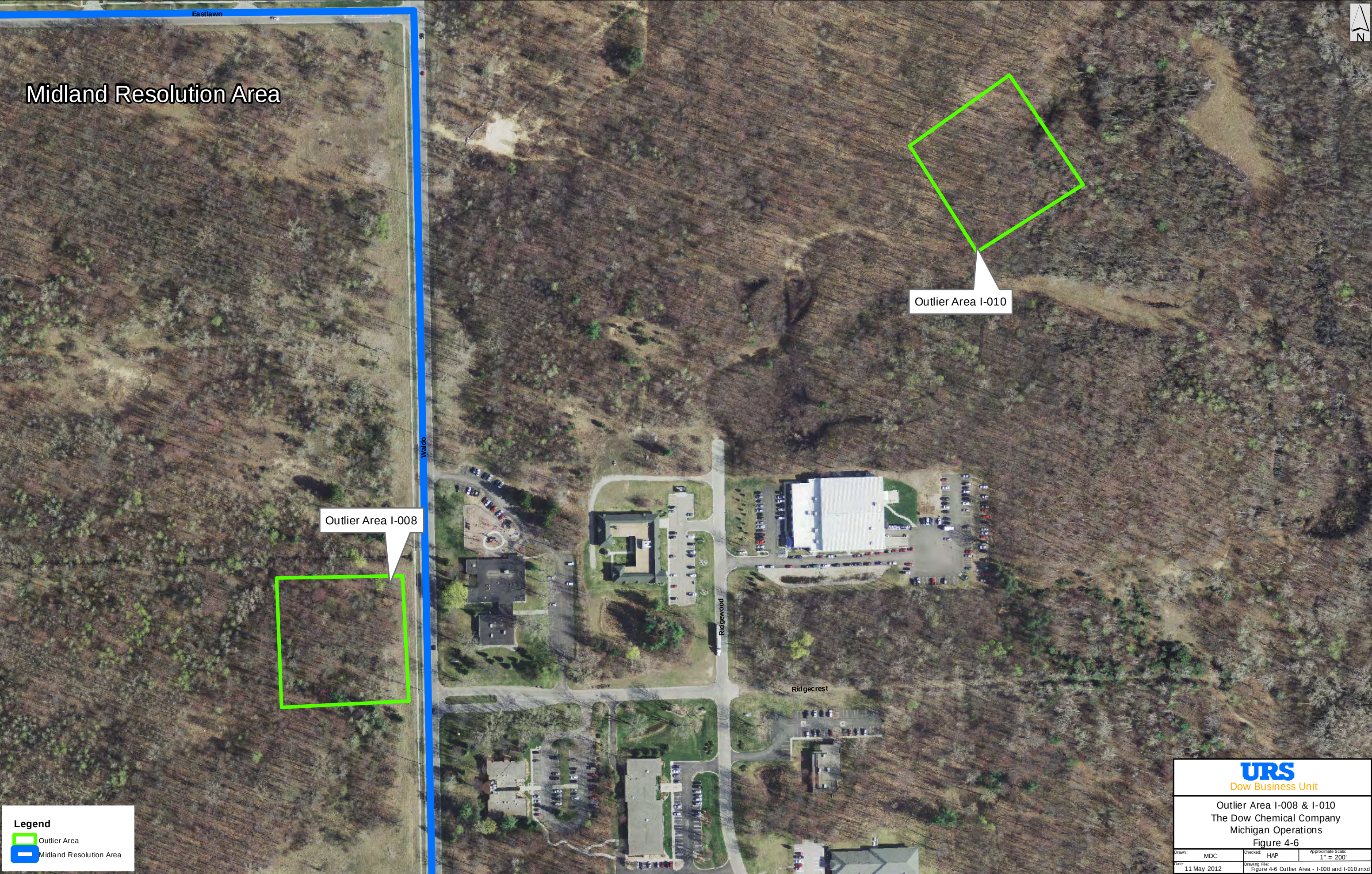
Legend

- Outlier Area
- Midland Resolution Area

URS
Dow Business Unit

Outlier Area E-007
The Dow Chemical Company
Michigan Operations
Figure 4-5

Drawn: MDC	Checked: HAP	Approximate Scale: 1" = 500'
Date: 14 October 2011	Drawing File: Figure 7-6 Outlier Area.mxd	



Midland Resolution Area

Outlier Area I-008

Outlier Area I-010

Legend

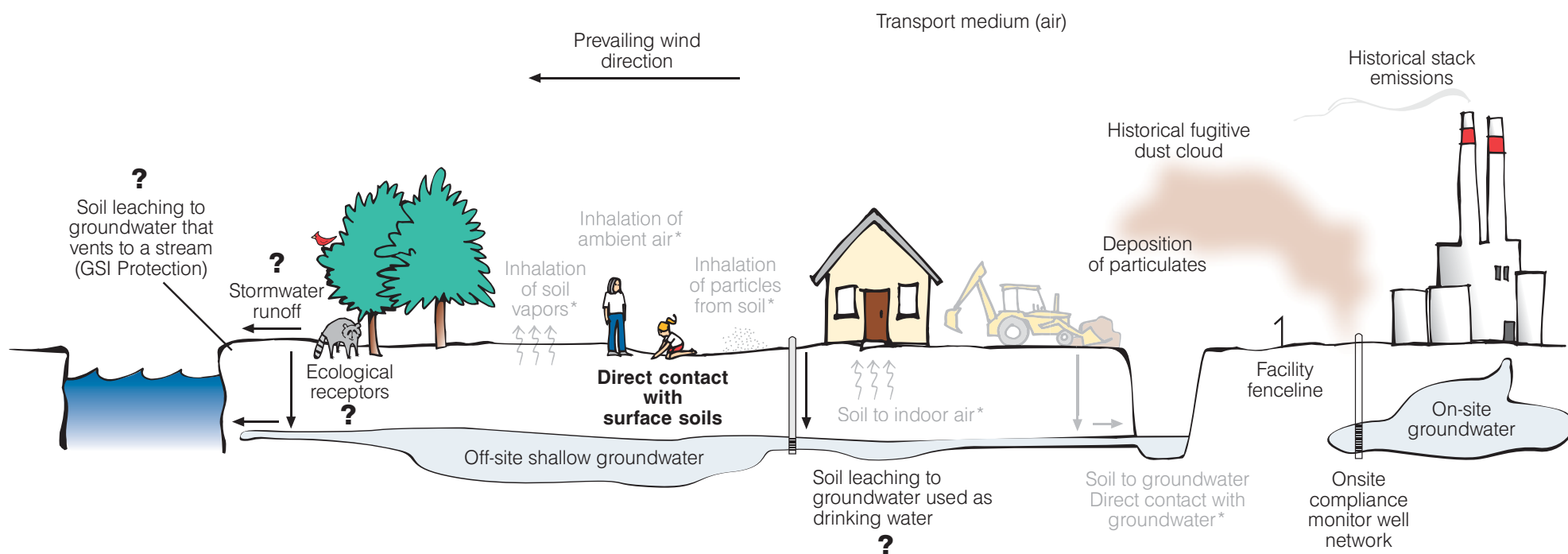
- Outlier Area
- Midland Resolution Area

Dow Business Unit

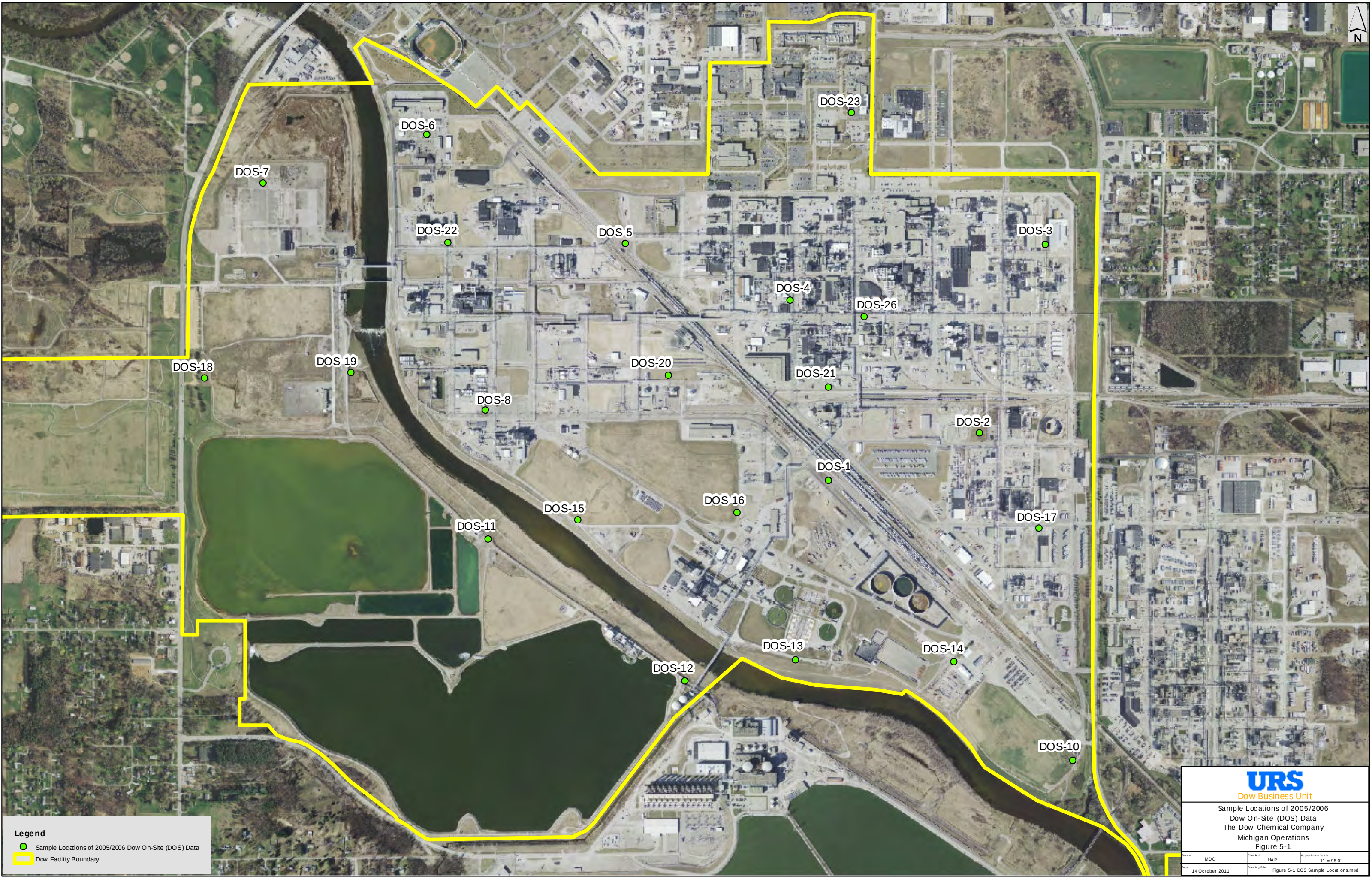
Outlier Area I-008 & I-010
The Dow Chemical Company
Michigan Operations
Figure 4-6

Drawn: MDC	Checked: HAP	Approximate Scale: 1" = 200'
Date: 11 May 2012	Drawing File: Figure 4-6 Outlier Area - I-008 and I-010.mxd	

Figure 4-7



* The analytical results were compared to the screening criterion for this pathway. There were no analytes detected above the criterion and therefore, exposure via this pathway is not a risk to human health or the environment.



Legend

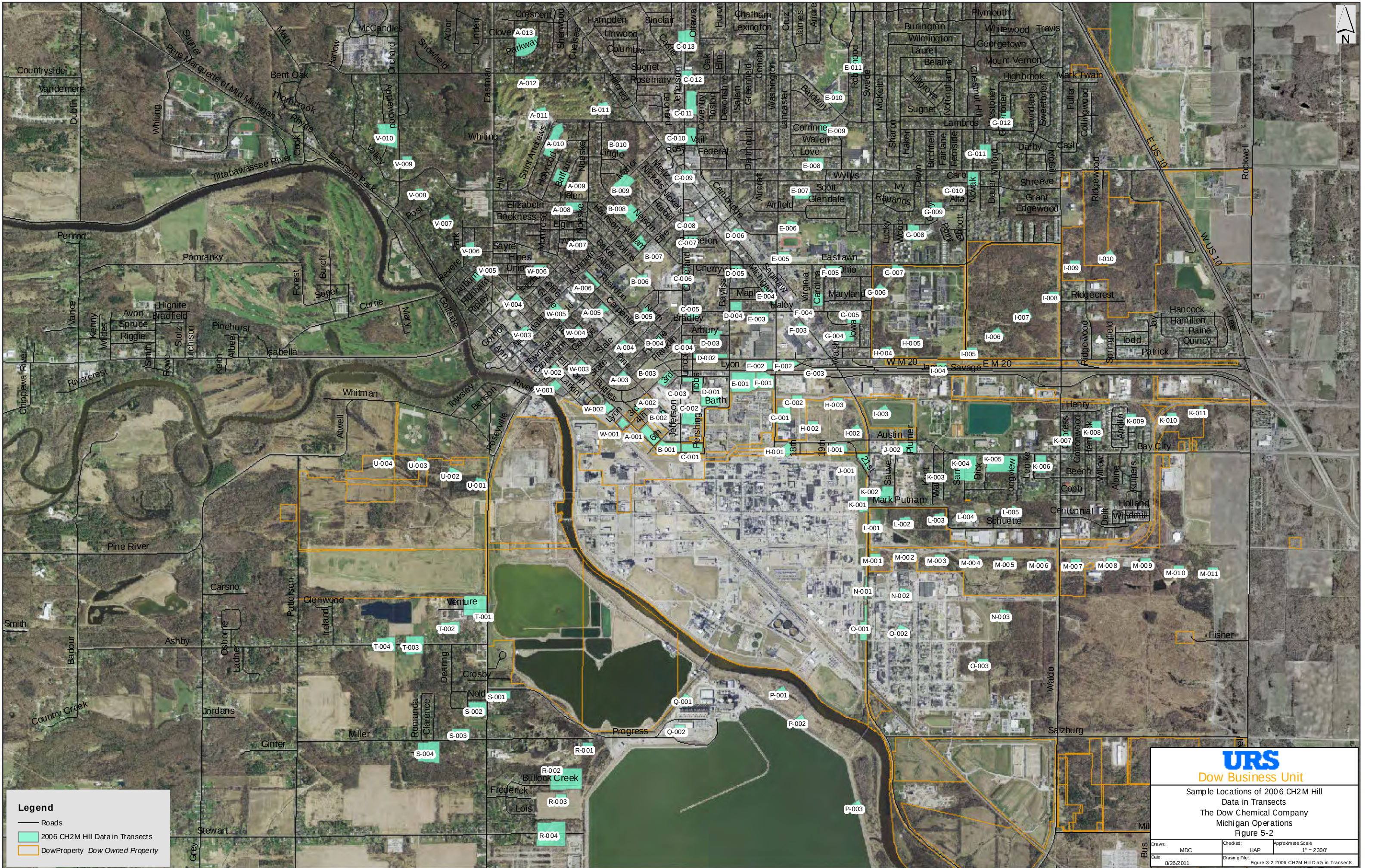
- Sample Locations of 2005/2006 Dow On-Site (DOS) Data
- Dow Facility Boundary

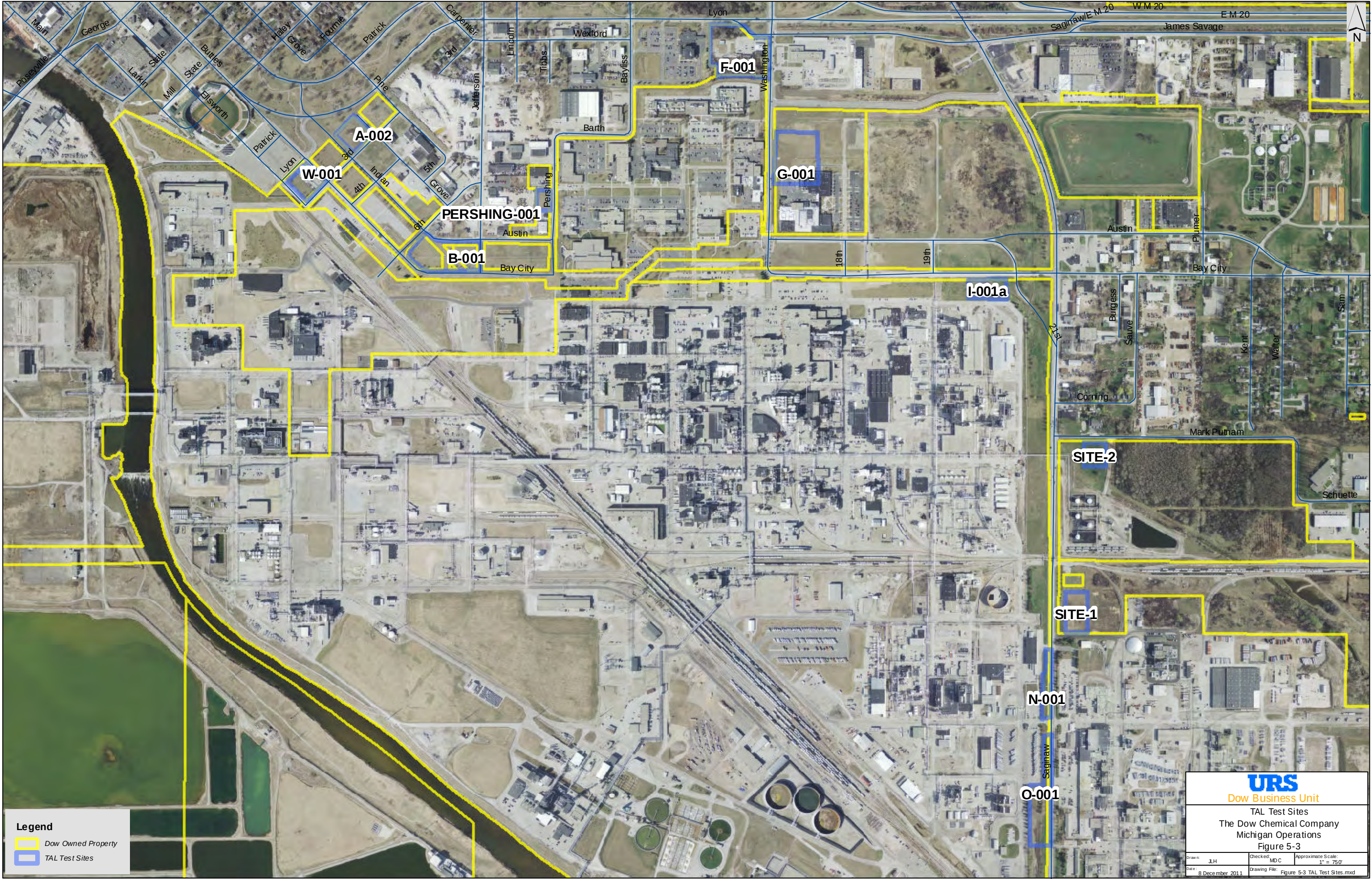


URS
Dow Business Unit

Sample Locations of 2005/2006
Dow On-Site (DOS) Data
The Dow Chemical Company
Michigan Operations
Figure 5-1

Drawn: MDC	Checked: HAP	Approximate Scale: 1" = 95.0'
Date: 14 October 2011	Drawing File: Figure 5-1 DOS Sample Locations.mxd	





Legend

- Dow Owned Property
- TAL Test Sites



Dow Business Unit

TAL Test Sites
The Dow Chemical Company
Michigan Operations
Figure 5-3

Drawn: JH	Checked: MDC	Approximate Scale: 1" = 750'
Date: 8 December 2011	Drawing File: Figure 5-3 TAL Test Sites.mxd	

Figure 5-4

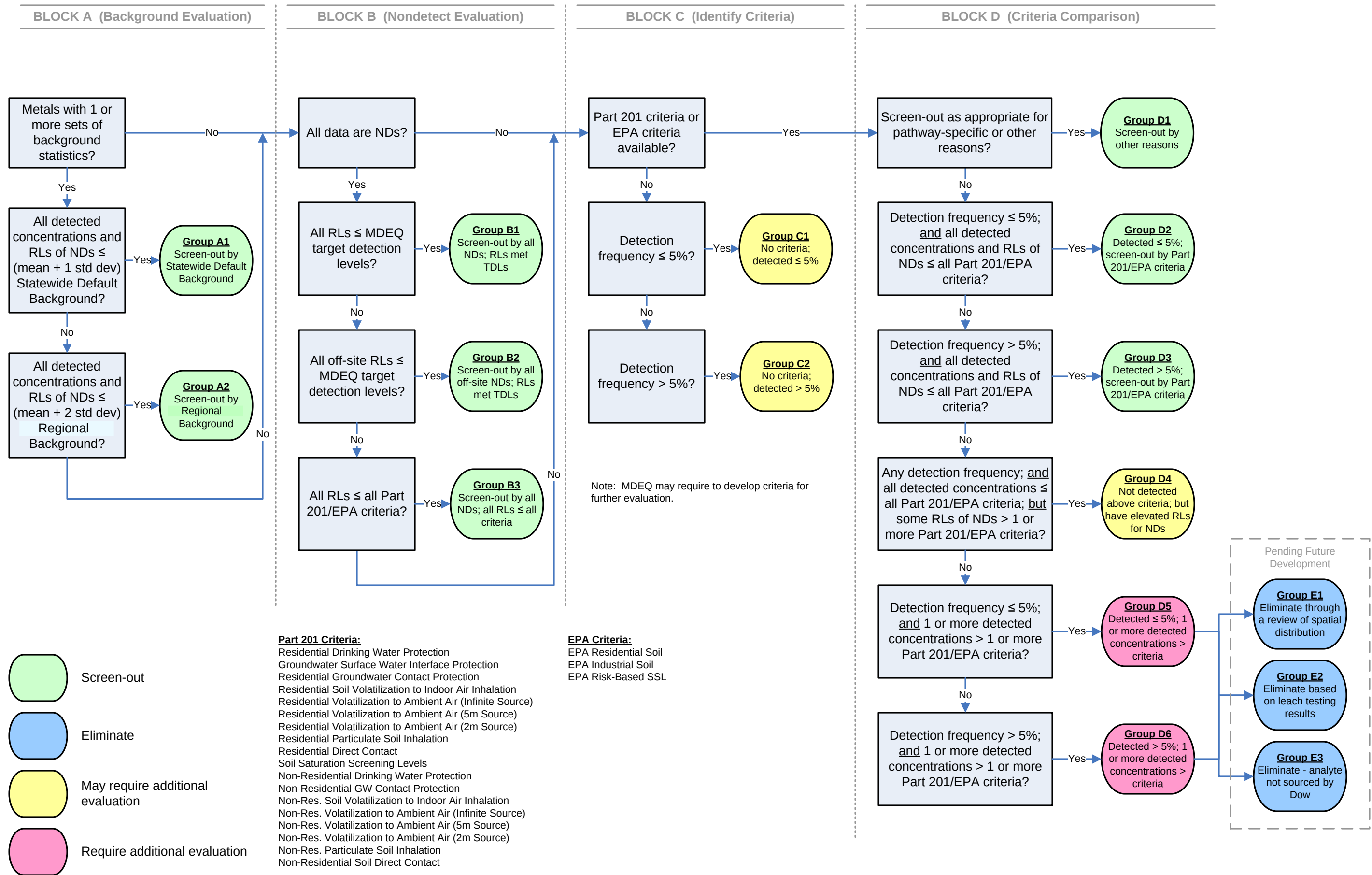
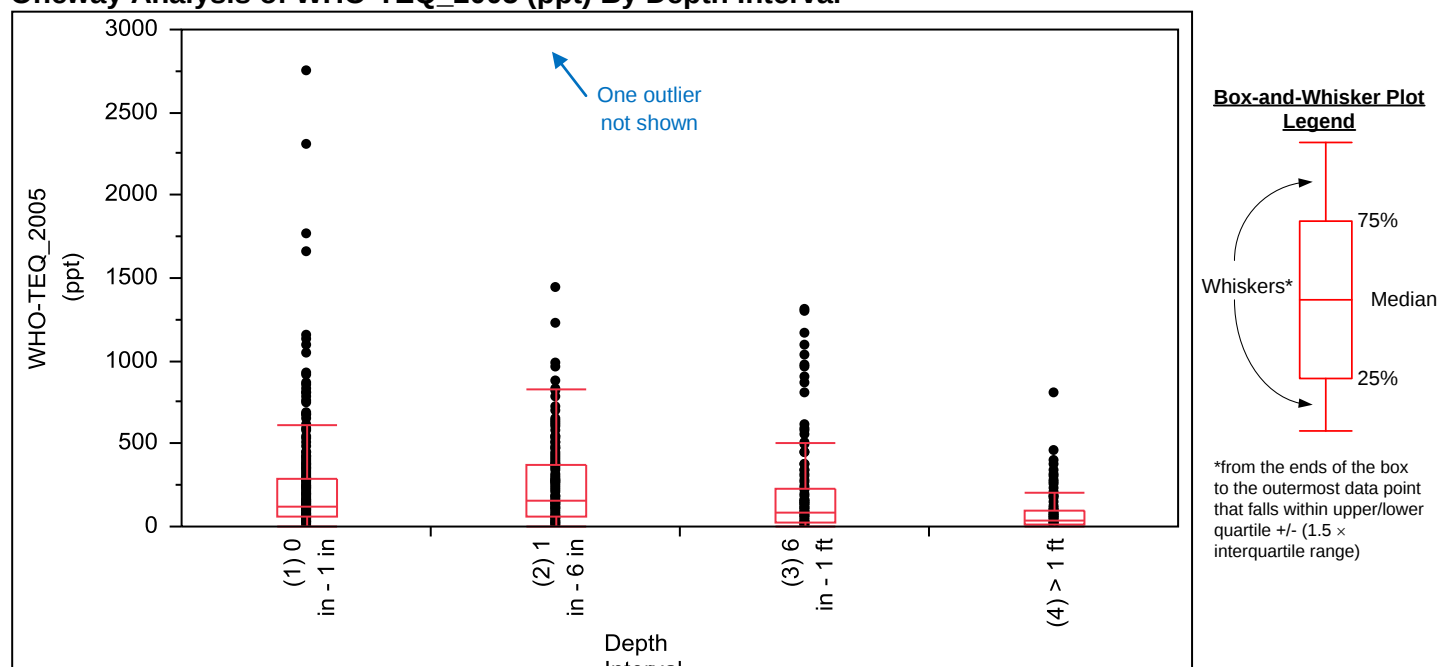


Figure 5-5
Oneway Analysis of WHO-TEQ_2005 (ppt) By Depth Interval



Quantiles

Level	Minimum	10%	25%	Median	75%	90%	Maximum
(1) 0 in - 1 in	2.5	29.26	61.85	123	285.5	495.6	2750
(2) 1 in - 6 in	2.9	20.64	62.3	155	377	564	10500
(3) 6 in - 1 ft	0.49	5.814	22.025	85.3	231	569.2	1310
(4) > 1 ft	0.231	2.111688	8.295368	35.59355	92.96923	212.2579	806.5071

Means and Std Deviations

Level	Number	Mean	Std Dev	Std Err Mean	Lower 95%	Upper 95%
(1) 0 in - 1 in	361	221.142	294.852	15.519	190.62	251.66
(2) 1 in - 6 in	173	303.207	817.180	62.129	180.57	425.84
(3) 6 in - 1 ft	138	195.723	282.452	24.044	148.18	243.27
(4) > 1 ft	154	76.793	109.450	8.820	59.37	94.22

Nonparametric Comparisons For All Pairs Using Steel-Dwass Method

q* 2.56903
Alpha 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value
(2) 1 in - 6 in	(1) 0 in - 1 in	23.270	14.26754	1.63097	0.3611
(3) 6 in - 1 ft	(2) 1 in - 6 in	-38.455	10.26321	-3.74687	0.0010*
(4) > 1 ft	(3) 6 in - 1 ft	-41.934	9.89749	-4.23685	0.0001*
(3) 6 in - 1 ft	(1) 0 in - 1 in	-48.259	14.43111	-3.34412	0.0046*
(4) > 1 ft	(2) 1 in - 6 in	-91.600	10.47394	-8.74550	<.0001*
(4) > 1 ft	(1) 0 in - 1 in	-137.013	14.32274	-9.56613	<.0001*

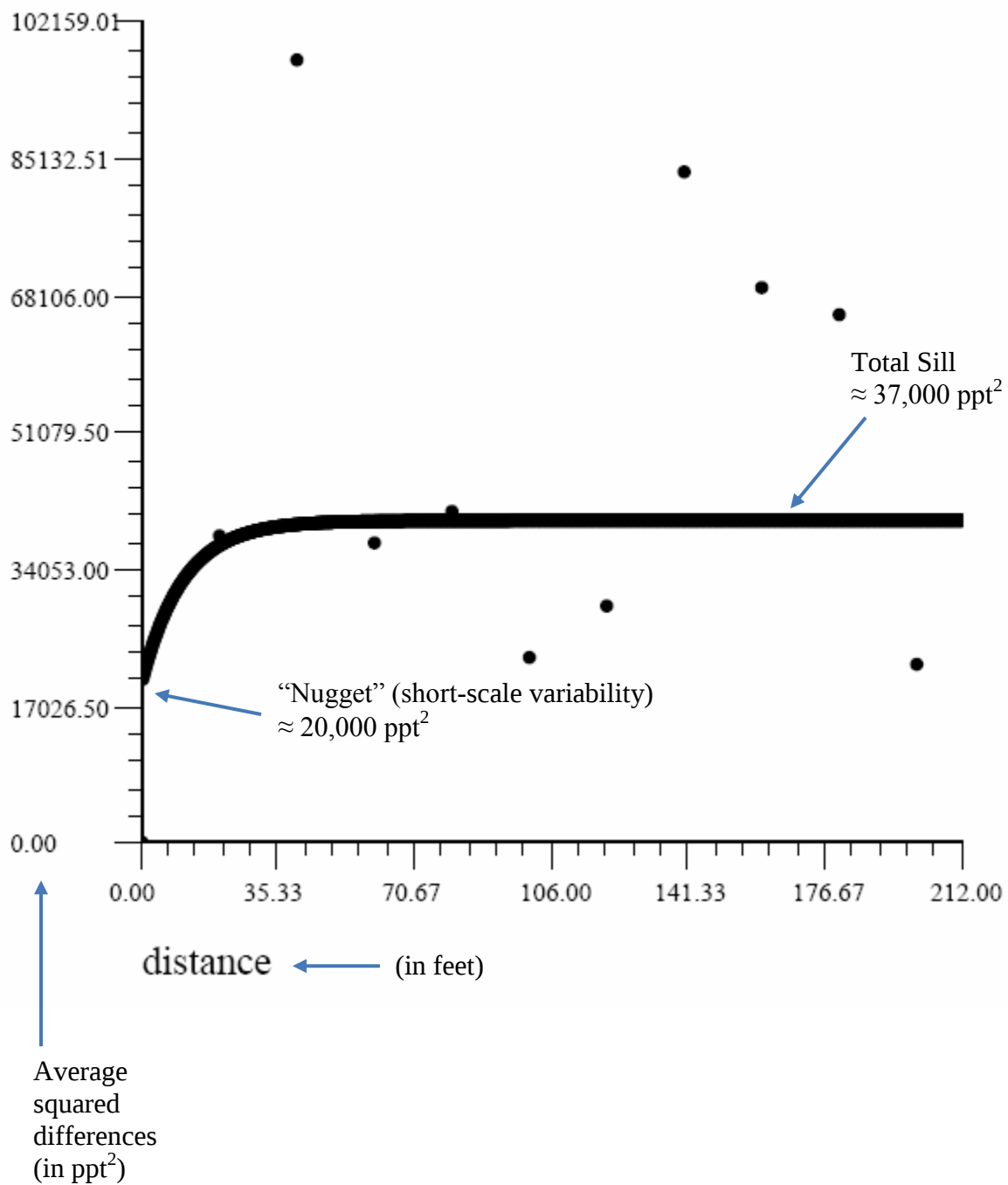


Figure 5-6. Omni-directional Short-Range Variogram

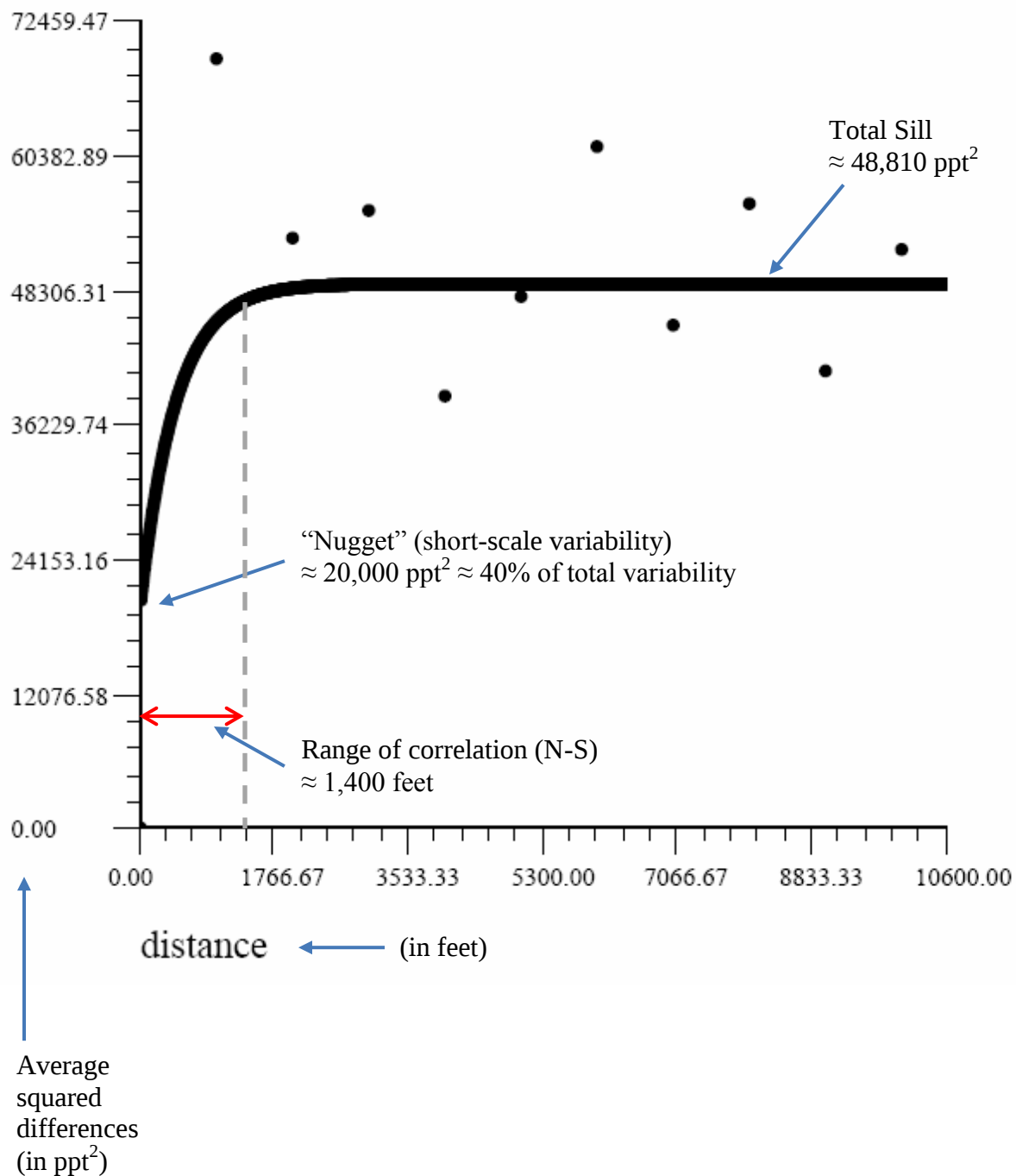


Figure 5-7. North-South Directional Long-Range Variogram