

Table 3-1
World Health Organization Mammalian Toxic Equivalency Factors

Congener	1998 TEF	2005 TEF
2,3,7,8-TCDD	1	1
1,2,3,7,8-PeCDD	1	1
1,2,3,4,7,8-HxCDD	0.1	0.1
1,2,3,6,7,8-HxCDD	0.1	0.1
1,2,3,7,8,9-HxCDD	0.1	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01
OCDD	0.0001	0.0003
2,3,7,8-TCDF	0.1	0.1
1,2,3,7,8-PeCDF	0.05	0.03
2,3,4,7,8-PeCDF	0.5	0.3
1,2,3,4,7,8-HxCDF	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01
1,2,3,4,7,8,9-HpCDF	0.01	0.01
OCDF	0.0001	0.0003

Sources: Van den Berg et al., 1998; Van den Berg et al., 2006

Notes:

PeCDD = pentachlorodibenzo-p-dioxin
HxCDD = hexachlorodibenzo-p-dioxin
HpCDD = heptachlorodibenzo-p-dioxin
OCDD = octachlorodibenzo-p-dioxin
TCDF = tetrachlorodibenzofuran
PeCDF = pentachlorodibenzofuran
HxCDF = hexachlorodibenzofuran
HpCDF = heptachlorodibenzofuran
OCDF = octachlorodibenzofuran

Table 5-1
Summary Statistics for Metals

Analyte Group	Analyte	CAS	Unit	Number of Samples					Summary Statistics on Site Samples						(A) Background Screen		(A1) Statewide Default Background ⁽¹⁾			(A2) Modified Urban Background ⁽²⁾			
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Screen Out? (all data < one or more background)	Meets Screening Criteria	Mean + 1 Std Dev	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Mean + 2 Std Dev	Percent Exceed (Detect)	Percent Exceed (Non-detect)
Mercury	Mercury	7439-97-6	ug/kg	23	72	99	33	227	89%	73.0	245.4	5.71	3,440	16	62.4	No	--	130	6%	0%	180	4%	0%
Metals	Aluminum	7429-90-5	ug/kg	23	0	99	33	155	100%	3,091,331	2,486,965	416,874	14,200,000	--	--	No	--	6,900,000	10%	0%	11,673,000	1%	0%
Metals	Antimony	7440-36-0	ug/kg	0	72	99	33	204	38%	498	791	14	4,530	150	5,600	No	--						
Metals	Arsenic	7440-38-2	ug/kg	23	72	99	33	227	99%	4,628	5,637	195	59,200	1,190	2,270	No	--	5,800	21%	0%	11,290	7%	0%
Metals	Barium	7440-39-3	ug/kg	23	72	0	33	128	100%	38,856	22,224	7,620	137,000	--	--	Yes	A2	75,000	6%	0%	178,000	0%	0%
Metals	Beryllium	7440-41-7	ug/kg	23	72	0	33	128	93%	298	195	47	1,170	101	1,170	No	--				430	18%	5%
Metals	Boron	7440-42-8	ug/kg	0	0	99	33	132	99%	8,986	3,728	970	22,627	9,200	9,200	No	--						
Metals	Cadmium	7440-43-9	ug/kg	23	72	0	33	128	92%	321	284	20.5	1,570	103	1,170	Yes	A2	1,200	2%	0%	2,000	0%	0%
Metals	Calcium	7440-70-2	ug/kg	23	0	0	0	23	100%	97,044,130	80,734,405	4,140,000	269,000,000	--	--								
Metals	Chromium	7440-47-3	ug/kg	23	72	99	33	227	100%	9,614	7,351	783	60,700	--	--	No	--	18,000	6%	0%	21,930	4%	0%
Metals	Chromium VI	18540-29-9	ug/kg	23	0	0	0	23	13%	711	889	863	4,610	810	1,100								
Metals	Cobalt	7440-48-4	ug/kg	23	72	99	33	227	100%	2,385	1,190	402	7,420	--	--	No	--	6,800	0.9%	0%	5,900	2%	0%
Metals	Copper	7440-50-8	ug/kg	23	72	0	33	128	100%	18,330	19,492	2,000	183,000	--	--	No	--	32,000	13%	0%	38,080	8%	0%
Metals	Iron	7439-89-6	ug/kg	23	0	0	33	56	100%	8,036,518	5,803,437	2,100,000	30,200,000	--	--	No	--	12,000,000	13%	0%	21,916,000	5%	0%
Metals	Lead	7439-92-1	ug/kg	23	72	99	33	227	100%	29,563	53,681	1,483	666,000	--	--	No	--	21,000	34%	0%	114,220	5%	0%
Metals	Lithium	7439-93-2	ug/kg	23	0	99	33	155	100%	6,075	3,423	1,040	16,570	--	--	No	--	9,800	16%	0%	12,500	5%	0%
Metals	Magnesium	7439-95-4	ug/kg	23	0	99	33	155	100%	3,142,780	2,943,442	177,576	15,521,500	--	--	Yes	A2				29,875,000	0%	0%
Metals	Manganese	7439-96-5	ug/kg	23	0	99	33	155	100%	88,932	69,842	10,091	547,757	--	--	Yes	A2	440,000	0.6%	0%	1,298,000	0%	0%
Metals	Molybdenum	7439-98-7	ug/kg	23	0	0	33	56	61%	2,284	3,409	96	2,000	4,055	23,200								
Metals	Nickel	7440-02-0	ug/kg	23	72	99	0	194	99%	9,465	15,219	1,670	209,000	350	350	No	--	20,000	3%	0%			
Metals	Potassium	7440-09-7	ug/kg	23	0	0	0	23	91%	784,707	436,782	235,500	1,830,000	496,500	580,000								
Metals	Selenium	7782-49-2	ug/kg	23	72	99	33	227	33%	390	577	120	5,720	80	1,400	No	--	410	24%	32%	770	11%	3%
Metals	Silver	7440-22-4	ug/kg	23	72	99	33	227	14%	131	159	25	1,680	90	1,120	No	--	1,000	0.4%	0.4%			
Metals	Sodium	7440-23-5	ug/kg	23	0	0	33	56	61%	203,987	290,770	42,000	1,940,000	101,000	600,000								
Metals	Strontium	7440-24-6	ug/kg	23	0	99	33	155	100%	32,451	39,291	2,100	201,919	--	--								
Metals	Thallium	7440-28-0	ug/kg	23	72	99	33	227	15%	303	276	35	230	101	4,670								
Metals	Thorium	7440-29-1	ug/kg	0	0	0	33	33	94%	2,072	1,926	440	3,300	17,000	19,000								
Metals	Tin	7440-31-5	ug/kg	0	72	99	0	171	6%	2,433	12,259	532	158,000	760	23,300								
Metals	Titanium	7440-32-6	ug/kg	23	0	0	0	23	100%	129,535	75,383	48,700	427,000	--	--								
Metals	Vanadium	7440-62-2	ug/kg	23	72	0	33	128	100%	11,856	7,319	2,250	74,000	--	--	No	--				21,980	3.1%	0%
Metals	Zinc	7440-66-6	ug/kg	23	72	0	33	128	100%	67,227	94,389	4,800	798,500	--	--	No	--	47,000	40%	0%	139,650	11%	0%

Notes:

If duplicates exist, the average of the duplicate results was used as a single data point.
Nondetects were substituted by half of reporting limit (RL) for the computation of summary statistics.
Laboratory QAQC results are not included.

Sources:

- (1) Michigan Statewide Default Background Levels.
- (2) Communication with AI Taylor, MDEQ (August 12, 2011)

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
Cyanide	Cyanide, Total	57-12-5	ug/kg	0	72	99	33	204	86%	156	151	12	863	40	610	610	--	100
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	0	72	0	0	72	1%	10.5	1.9	17.3	17.3	18.4	47.2	47.2	--	500
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	0	72	0	0	72	15%	13.9	13.2	8.39	83.8	18.4	47.2	47.2	--	200
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	18.4	47.2	47.2	--	300
Mercury	Mercury	7439-97-6	ug/kg	23	72	99	33	227	89%	73.0	245.4	5.71	3,440	16	62.4	50	--	50
Metals	Aluminum	7429-90-5	ug/kg	23	0	99	33	155	100%	3,091,331	2,486,965	416,874	14,200,000	--	--	--	--	1000
Metals	Antimony	7440-36-0	ug/kg	0	72	99	33	204	38%	498	791	14	4,530	150	5,600	5,600	--	300
Metals	Arsenic	7440-38-2	ug/kg	23	72	99	33	227	99%	4,628	5,637	195	59,200	1,190	2,270	2,270	--	100
Metals	Barium	7440-39-3	ug/kg	23	72	0	33	128	100%	38,856	22,224	7,620	137,000	--	--	--	A2	1000
Metals	Beryllium	7440-41-7	ug/kg	23	72	0	33	128	93%	298	195	47	1,170	101	1,170	1,170	--	500
Metals	Boron	7440-42-8	ug/kg	0	0	99	33	132	99%	8,986	3,728	970	22,627	9,200	9,200	9,200	--	8000
Metals	Cadmium	7440-43-9	ug/kg	23	72	0	33	128	92%	321	284	20.5	1,570	103	1,170	1,170	A2	200
Metals	Calcium	7440-70-2	ug/kg	23	0	0	0	23	100%	97,044,130	80,734,405	4,140,000	269,000,000	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	23	72	99	33	227	100%	9,614	7,351	783	60,700	--	--	--	--	2000
Metals	Chromium VI	18540-29-9	ug/kg	23	0	0	0	23	13%	711	889	863	4,610	810	1,100	--	--	2000
Metals	Cobalt	7440-48-4	ug/kg	23	72	99	33	227	100%	2,385	1,190	402	7,420	--	--	--	--	500
Metals	Copper	7440-50-8	ug/kg	23	72	0	33	128	100%	18,330	19,492	2,000	183,000	--	--	--	--	1000
Metals	Iron	7439-89-6	ug/kg	23	0	0	33	56	100%	8,036,518	5,803,437	2,100,000	30,200,000	--	--	--	--	5000
Metals	Lead	7439-92-1	ug/kg	23	72	99	33	227	100%	29,563	53,681	1,483	666,000	--	--	--	--	1000
Metals	Lithium	7439-93-2	ug/kg	23	0	99	33	155	100%	6,075	3,423	1,040	16,570	--	--	--	--	400
Metals	Magnesium	7439-95-4	ug/kg	23	0	99	33	155	100%	3,142,780	2,943,442	177,576	15,521,500	--	--	--	A2	4000
Metals	Manganese	7439-96-5	ug/kg	23	0	99	33	155	100%	88,932	69,842	10,091	547,757	--	--	--	A2	1000
Metals	Molybdenum	7439-98-7	ug/kg	23	0	0	33	56	61%	2,284	3,409	96	2,000	4,055	23,200	--	--	1000
Metals	Nickel	7440-02-0	ug/kg	23	72	99	0	194	99%	9,465	15,219	1,670	209,000	350	350	350	--	1000
Metals	Potassium	7440-09-7	ug/kg	23	0	0	0	23	91%	784,707	436,782	235,500	1,830,000	496,500	580,000	--	--	--
Metals	Selenium	7782-49-2	ug/kg	23	72	99	33	227	33%	390	577	120	5,720	80	1,400	1,400	--	200
Metals	Silver	7440-22-4	ug/kg	23	72	99	33	227	14%	131	159	25	1,680	90	1,120	1,120	--	100
Metals	Sodium	7440-23-5	ug/kg	23	0	0	33	56	61%	203,987	290,770	42,000	1,940,000	101,000	600,000	600,000	--	10000
Metals	Strontium	7440-24-6	ug/kg	23	0	99	33	155	100%	32,451	39,291	2,100	201,919	--	--	--	--	5000
Metals	Thallium	7440-28-0	ug/kg	23	72	99	33	227	15%	303	276	35	230	101	4,670	4,670	--	500
Metals	Thorium	7440-29-1	ug/kg	0	0	0	33	33	94%	2,072	1,926	440	3,300	17,000	19,000	19,000	--	1000
Metals	Tin	7440-31-5	ug/kg	0	72	99	0	171	6%	2,433	12,259	532	158,000	760	23,300	23,300	--	--
Metals	Titanium	7440-32-6	ug/kg	23	0	0	0	23	100%	129,535	75,383	48,700	427,000	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	23	72	0	33	128	100%	11,856	7,319	2,250	74,000	--	--	--	--	1000
Metals	Zinc	7440-66-6	ug/kg	23	72	0	33	128	100%	67,227	94,389	4,800	798,500	--	--	--	--	1000
PCBs	PCBs, Total	1336-36-3	ug/kg	23	72	0	33	128	6%	113	369	60.4	973	33	8,000	1,121	--	330
Pesticides	4,4'-DDD	72-54-8	ug/kg	23	72	0	33	128	30%	15.0	38.8	0.858	345	8.9	180	180	--	20
Pesticides	4,4'-DDE	72-55-9	ug/kg	23	72	0	33	128	57%	54.8	237.5	1.115	2,400	8.9	115	115	--	20
Pesticides	4,4'-DDT	50-29-3	ug/kg	23	72	0	33	128	52%	49.0	212.6	1.04	1,741	8.9	115	115	--	20
Pesticides	Aldrin	309-00-2	ug/kg	23	72	0	33	128	3%	21.5	65.9	0.799	3.04	8.9	1,301	1,301	--	20
Pesticides	alpha-BHC	319-84-6	ug/kg	23	72	99	33	227	5%	14.5	51.2	0.909	150	7	1,301	1,301	--	10
Pesticides	Beta BHC	319-85-7	ug/kg	23	72	0	33	128	4%	21.9	65.8	1.55	29.7	8.9	1,301	1,301	--	20

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater r Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater r Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
Cyanide	Cyanide, Total	57-12-5	ug/kg	No	No	No	--	Yes	100	--	4000	0%	0%	100	46%	7%	250000	0%	0%
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	Yes	Yes	Yes	--	Yes	150	--	--	--	--	--	--	--	--	--	--
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	Yes	Yes	Yes	--	Yes	1400	--	1400	0%	0%	4400	0%	0%	2400000	0%	0%
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	Yes	Yes	Yes	B1	Yes	2200	--	3600	0%	0%	2200	0%	0%	3100000	0%	0%
Mercury	Mercury	7439-97-6	ug/kg	No	No	No	--	Yes	50	--	1700	0.4%	0%	50	29%	2%	47000	0%	0%
Metals	Aluminum	7429-90-5	ug/kg	Yes	Yes	Yes	--	Yes	1000	--	1000	100%	0%	--	--	--	1E+09	0%	0%
Metals	Antimony	7440-36-0	ug/kg	No	No	No	--	Yes	4300	--	4300	0.5%	1.0%	94000	0%	0%	49000000	0%	0%
Metals	Arsenic	7440-38-2	ug/kg	No	No	Yes	--	Yes	4600	--	4600	33%	0%	4600	33%	0%	2000000	0%	0%
Metals	Barium	7440-39-3	ug/kg	Yes	Yes	Yes	--	Yes	300000	--	1300000	0%	0%	300000	0%	0%	1E+09	0%	0%
Metals	Beryllium	7440-41-7	ug/kg	No	No	Yes	--	Yes	33000	--	51000	0%	0%	33000	0%	0%	1E+09	0%	0%
Metals	Boron	7440-42-8	ug/kg	No	No	Yes	--	Yes	10000	--	10000	38%	0%	100000	0%	0%	1E+09	0%	0%
Metals	Cadmium	7440-43-9	ug/kg	No	No	Yes	--	Yes	2800	--	6000	0%	0%	2800	0%	0%	2.3E+08	0%	0%
Metals	Calcium	7440-70-2	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	Yes	Yes	Yes	--	Yes	3300	--	30000	2%	0%	3300	94%	0%	1.4E+08	0%	0%
Metals	Chromium VI	18540-29-9	ug/kg	Yes	Yes	Yes	--	Yes	3300	--	30000	0%	0%	3300	4%	0%	1.4E+08	0%	0%
Metals	Cobalt	7440-48-4	ug/kg	Yes	Yes	Yes	--	Yes	800	--	800	96%	0%	2000	53%	0%	48000000	0%	0%
Metals	Copper	7440-50-8	ug/kg	Yes	Yes	Yes	--	Yes	54000	--	5800000	0%	0%	54000	3%	0%	1E+09	0%	0%
Metals	Iron	7439-89-6	ug/kg	Yes	Yes	Yes	--	Yes	6000	--	6000	100%	0%	--	--	--	1E+09	0%	0%
Metals	Lead	7439-92-1	ug/kg	Yes	Yes	Yes	--	Yes	400000	--	700000	0%	0%	1900000	0%	0%	--	--	--
Metals	Lithium	7439-93-2	ug/kg	Yes	Yes	Yes	--	Yes	3400	--	3400	72%	0%	8800	23%	0%	1.1E+08	0%	0%
Metals	Magnesium	7439-95-4	ug/kg	Yes	Yes	Yes	--	Yes	8000000	--	8000000	8%	0%	--	--	--	1E+09	0%	0%
Metals	Manganese	7439-96-5	ug/kg	Yes	Yes	Yes	--	Yes	1000	--	1000	100%	0%	26000	92%	0%	1.8E+08	0%	0%
Metals	Molybdenum	7439-98-7	ug/kg	No	Yes	No	--	Yes	1500	--	1500	2%	39%	64000	0%	0%	19000000	0%	0%
Metals	Nickel	7440-02-0	ug/kg	Yes	Yes	Yes	--	Yes	56000	--	100000	0.5%	0%	56000	0.5%	0%	1E+09	0%	0%
Metals	Potassium	7440-09-7	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
Metals	Selenium	7782-49-2	ug/kg	No	No	No	--	Yes	400	--	4000	0.4%	0%	400	25%	32%	78000000	0%	0%
Metals	Silver	7440-22-4	ug/kg	No	No	No	--	Yes	100	--	4500	0%	0%	100	3%	41%	2E+08	0%	0%
Metals	Sodium	7440-23-5	ug/kg	No	No	Yes	--	Yes	2500000	--	2500000	0%	0%	--	--	--	1E+09	0%	0%
Metals	Strontium	7440-24-6	ug/kg	Yes	Yes	Yes	--	Yes	92000	--	92000	8%	0%	420000	0%	0%	1E+09	0%	0%
Metals	Thallium	7440-28-0	ug/kg	No	No	No	--	Yes	2300	--	2300	0%	2%	4200	0%	0.9%	15000000	0%	0%
Metals	Thorium	7440-29-1	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
Metals	Tin	7440-31-5	ug/kg	No	No	Yes	--	Yes	5500000	--	--	--	--	--	--	--	--	--	--
Metals	Titanium	7440-32-6	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	Yes	Yes	Yes	--	Yes	72000	--	72000	0.8%	0%	190000	0%	0%	1E+09	0%	0%
Metals	Zinc	7440-66-6	ug/kg	Yes	Yes	Yes	--	Yes	120000	--	2400000	0%	0%	120000	12%	0%	1E+09	0%	0%
PCBs	PCBs, Total	1336-36-3	ug/kg	No	No	No	--	Yes	1000	--	--	--	--	--	--	--	--	--	--
Pesticides	4,4'-DDD	72-54-8	ug/kg	No	No	Yes	--	Yes	95000	--	--	--	--	--	--	--	--	--	--
Pesticides	4,4'-DDE	72-55-9	ug/kg	No	No	Yes	--	Yes	45000	--	--	--	--	--	--	--	--	--	--
Pesticides	4,4'-DDT	50-29-3	ug/kg	No	No	Yes	--	Yes	57000	--	--	--	--	--	--	--	--	--	--
Pesticides	Aldrin	309-00-2	ug/kg	No	No	No	--	Yes	1000	--	--	--	--	--	--	--	--	--	--
Pesticides	alpha-BHC	319-84-6	ug/kg	No	No	No	--	Yes	18	--	18	1%	30%	--	--	--	2500	0%	0%
Pesticides	Beta BHC	319-85-7	ug/kg	No	No	No	--	Yes	37	--	37	0%	9%	--	--	--	5100	0%	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
Cyanide	Cyanide, Total	57-12-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	250000	0%	0%	12000
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6.7E+09	0%	0%	2500000
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1700000
Mercury	Mercury	7439-97-6	ug/kg	48000	0%	0%	52000	0%	0%	52000	0%	0%	52000	0%	0%	20000000	0%	0%	160000
Metals	Aluminum	7429-90-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50000000
Metals	Antimony	7440-36-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	13000000	0%	0%	180000
Metals	Arsenic	7440-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	720000	0%	0%	7600
Metals	Barium	7440-39-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+08	0%	0%	37000000
Metals	Beryllium	7440-41-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1300000	0%	0%	410000
Metals	Boron	7440-42-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48000000
Metals	Cadmium	7440-43-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1700000	0%	0%	550000
Metals	Calcium	7440-70-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	260000	0%	0%	2500000
Metals	Chromium VI	18540-29-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	260000	0%	0%	2500000
Metals	Cobalt	7440-48-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	13000000	0%	0%	2600000
Metals	Copper	7440-50-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.3E+08	0%	0%	20000000
Metals	Iron	7439-89-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6E+08
Metals	Lead	7439-92-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1E+08	0%	0%	400000
Metals	Lithium	7439-93-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4200000
Metals	Magnesium	7439-95-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6.7E+09	0%	0%	1E+09
Metals	Manganese	7439-96-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3300000	0%	0%	25000000
Metals	Molybdenum	7439-98-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2600000
Metals	Nickel	7440-02-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	13000000	0%	0%	40000000
Metals	Potassium	7440-09-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Selenium	7782-49-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.3E+08	0%	0%	2600000
Metals	Silver	7440-22-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6700000	0%	0%	2500000
Metals	Sodium	7440-23-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1E+09
Metals	Strontium	7440-24-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+08
Metals	Thallium	7440-28-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	13000000	0%	0%	35000
Metals	Thorium	7440-29-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Tin	7440-31-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Titanium	7440-32-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	750000
Metals	Zinc	7440-66-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.7E+08
PCBs	PCBs, Total	1336-36-3	ug/kg	3000000	0%	0%	240000	0%	0%	7900000	0%	0%	7900000	0%	0%	5200000	0%	0%	1000
Pesticides	4,4'-DDD	72-54-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	44000000	0%	0%	95000
Pesticides	4,4'-DDE	72-55-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	32000000	0%	0%	45000
Pesticides	4,4'-DDT	50-29-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	32000000	0%	0%	57000
Pesticides	Aldrin	309-00-2	ug/kg	1300000	0%	0%	58000	0%	0%	58000	0%	0%	58000	0%	0%	640000	0%	0%	1000
Pesticides	alpha-BHC	319-84-6	ug/kg	30000	0%	0%	12000	0%	0%	22000	0%	0%	25000	0%	0%	1700000	0%	0%	2600
Pesticides	Beta BHC	319-85-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	5900000	0%	0%	5400

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

				(D) Pathway-Specific Toxicity Screening Criteria															
Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
Cyanide	Cyanide, Total	57-12-5	ug/kg	0%	0%	--	--	--	4000	0%	0%	250000	0%	0%	--	--	--	--	--
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	0%	0%	--	--	--	1400	0%	0%	2400000	0%	0%	--	--	--	--	--
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	0%	0%	--	--	--	3600	0%	0%	3100000	0%	0%	--	--	--	--	--
Mercury	Mercury	7439-97-6	ug/kg	0%	0%	--	--	--	1700	0.4%	0%	47000	0%	0%	89000	0%	0%	62000	0%
Metals	Aluminum	7429-90-5	ug/kg	0%	0%	--	--	--	1000	100%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Antimony	7440-36-0	ug/kg	0%	0%	--	--	--	4300	0.5%	1.0%	49000000	0%	0%	--	--	--	--	--
Metals	Arsenic	7440-38-2	ug/kg	15%	0%	--	--	--	4600	33%	0%	2000000	0%	0%	--	--	--	--	--
Metals	Barium	7440-39-3	ug/kg	0%	0%	--	--	--	1300000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Beryllium	7440-41-7	ug/kg	0%	0%	--	--	--	51000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Boron	7440-42-8	ug/kg	0%	0%	--	--	--	10000	38%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Cadmium	7440-43-9	ug/kg	0%	0%	--	--	--	6000	0%	0%	2.3E+08	0%	0%	--	--	--	--	--
Metals	Calcium	7440-70-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	0%	0%	--	--	--	30000	2%	0%	1.4E+08	0%	0%	--	--	--	--	--
Metals	Chromium VI	18540-29-9	ug/kg	0%	0%	--	--	--	30000	0%	0%	1.4E+08	0%	0%	--	--	--	--	--
Metals	Cobalt	7440-48-4	ug/kg	0%	0%	--	--	--	2000	53%	0%	48000000	0%	0%	--	--	--	--	--
Metals	Copper	7440-50-8	ug/kg	0%	0%	--	--	--	5800000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Iron	7439-89-6	ug/kg	0%	0%	--	--	--	6000	100%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Lead	7439-92-1	ug/kg	0.4%	0%	--	--	--	700000	0%	0%	--	--	--	--	--	--	--	--
Metals	Lithium	7439-93-2	ug/kg	0%	0%	--	--	--	7000	35%	0%	1.1E+08	0%	0%	--	--	--	--	--
Metals	Magnesium	7439-95-4	ug/kg	0%	0%	--	--	--	22000000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Manganese	7439-96-5	ug/kg	0%	0%	--	--	--	1000	100%	0%	1.8E+08	0%	0%	--	--	--	--	--
Metals	Molybdenum	7439-98-7	ug/kg	0%	0%	--	--	--	4200	0%	34%	19000000	0%	0%	--	--	--	--	--
Metals	Nickel	7440-02-0	ug/kg	0%	0%	--	--	--	100000	0.5%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Potassium	7440-09-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Selenium	7782-49-2	ug/kg	0%	0%	--	--	--	4000	0.4%	0%	78000000	0%	0%	--	--	--	--	--
Metals	Silver	7440-22-4	ug/kg	0%	0%	--	--	--	13000	0%	0%	2E+08	0%	0%	--	--	--	--	--
Metals	Sodium	7440-23-5	ug/kg	0%	0%	--	--	--	7000000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Strontium	7440-24-6	ug/kg	0%	0%	--	--	--	260000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Thallium	7440-28-0	ug/kg	0%	0%	--	--	--	2300	0%	2%	15000000	0%	0%	--	--	--	--	--
Metals	Thorium	7440-29-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Tin	7440-31-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Titanium	7440-32-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	0%	0%	--	--	--	990000	0%	0%	1E+09	0%	0%	--	--	--	--	--
Metals	Zinc	7440-66-6	ug/kg	0%	0%	--	--	--	5000000	0%	0%	1E+09	0%	0%	--	--	--	--	--
PCBs	PCBs, Total	1336-36-3	ug/kg	0%	2%	--	--	--	--	--	--	--	--	--	16000000	0%	0%	810000	0%
Pesticides	4,4'-DDD	72-54-8	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	4,4'-DDE	72-55-9	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	4,4'-DDT	50-29-3	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Aldrin	309-00-2	ug/kg	0%	0.8%	--	--	--	--	--	--	--	--	--	7100000	0%	0%	200000	0%
Pesticides	alpha-BHC	319-84-6	ug/kg	0%	0%	--	--	--	71	0.9%	4%	2500	0%	0%	160000	0%	0%	41000	0%
Pesticides	Beta BHC	319-85-7	ug/kg	0%	0%	--	--	--	150	0%	5%	5100	0%	0%	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
Cyanide	Cyanide, Total	57-12-5	ug/kg	--	--	--	--	--	--	--	250000	0%	0%	250000	0%	0%	--	--	--
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	610000	0%	0%
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	--	--	--	--	--	--	--	2.9E+09	0%	0%	8600000	0%	0%	--	--	--
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	--	--	--	--	--	--	--	--	--	--	5500000	0%	0%	--	--	--
Mercury	Mercury	7439-97-6	ug/kg	0%	62000	0%	0%	62000	0%	0%	8800000	0%	0%	580000	0%	0%	--	--	--
Metals	Aluminum	7429-90-5	ug/kg	--	--	--	--	--	--	--	--	--	--	3.7E+08	0%	0%	--	--	--
Metals	Antimony	7440-36-0	ug/kg	--	--	--	--	--	--	--	5900000	0%	0%	670000	0%	0%	--	--	--
Metals	Arsenic	7440-38-2	ug/kg	--	--	--	--	--	--	--	910000	0%	0%	37000	0.9%	0%	--	--	--
Metals	Barium	7440-39-3	ug/kg	--	--	--	--	--	--	--	1.5E+08	0%	0%	1.3E+08	0%	0%	--	--	--
Metals	Beryllium	7440-41-7	ug/kg	--	--	--	--	--	--	--	590000	0%	0%	1600000	0%	0%	--	--	--
Metals	Boron	7440-42-8	ug/kg	--	--	--	--	--	--	--	--	--	--	3.5E+08	0%	0%	--	--	--
Metals	Cadmium	7440-43-9	ug/kg	--	--	--	--	--	--	--	2200000	0%	0%	2100000	0%	0%	--	--	--
Metals	Calcium	7440-70-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	--	--	--	--	--	--	--	240000	0%	0%	9200000	0%	0%	--	--	--
Metals	Chromium VI	18540-29-9	ug/kg	--	--	--	--	--	--	--	240000	0%	0%	9200000	0%	0%	--	--	--
Metals	Cobalt	7440-48-4	ug/kg	--	--	--	--	--	--	--	5900000	0%	0%	9000000	0%	0%	--	--	--
Metals	Copper	7440-50-8	ug/kg	--	--	--	--	--	--	--	59000000	0%	0%	73000000	0%	0%	--	--	--
Metals	Iron	7439-89-6	ug/kg	--	--	--	--	--	--	--	--	--	--	5.8E+08	0%	0%	--	--	--
Metals	Lead	7439-92-1	ug/kg	--	--	--	--	--	--	--	44000000	0%	0%	900000	0%	0%	--	--	--
Metals	Lithium	7439-93-2	ug/kg	--	--	--	--	--	--	--	--	--	--	31000000	0%	0%	--	--	--
Metals	Magnesium	7439-95-4	ug/kg	--	--	--	--	--	--	--	2.9E+09	0%	0%	1E+09	0%	0%	--	--	--
Metals	Manganese	7439-96-5	ug/kg	--	--	--	--	--	--	--	1500000	0%	0%	90000000	0%	0%	--	--	--
Metals	Molybdenum	7439-98-7	ug/kg	--	--	--	--	--	--	--	--	--	--	9600000	0%	0%	--	--	--
Metals	Nickel	7440-02-0	ug/kg	--	--	--	--	--	--	--	16000000	0%	0%	1.5E+08	0%	0%	--	--	--
Metals	Potassium	7440-09-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Selenium	7782-49-2	ug/kg	--	--	--	--	--	--	--	59000000	0%	0%	9600000	0%	0%	--	--	--
Metals	Silver	7440-22-4	ug/kg	--	--	--	--	--	--	--	2900000	0%	0%	9000000	0%	0%	--	--	--
Metals	Sodium	7440-23-5	ug/kg	--	--	--	--	--	--	--	--	--	--	1E+09	0%	0%	--	--	--
Metals	Strontium	7440-24-6	ug/kg	--	--	--	--	--	--	--	--	--	--	1E+09	0%	0%	--	--	--
Metals	Thallium	7440-28-0	ug/kg	--	--	--	--	--	--	--	5900000	0%	0%	130000	0%	0%	--	--	--
Metals	Thorium	7440-29-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Tin	7440-31-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	47000000	0%	0%
Metals	Titanium	7440-32-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	--	--	--	--	--	--	--	--	--	--	5500000	0%	0%	--	--	--
Metals	Zinc	7440-66-6	ug/kg	--	--	--	--	--	--	--	--	--	--	6.3E+08	0%	0%	--	--	--
PCBs	PCBs, Total	1336-36-3	ug/kg	0%	28000000	0%	0%	28000000	0%	0%	6500000	0%	0%	1000	0%	2%	--	--	--
Pesticides	4,4'-DDD	72-54-8	ug/kg	--	--	--	--	--	--	--	56000000	0%	0%	400000	0%	0%	--	--	--
Pesticides	4,4'-DDE	72-55-9	ug/kg	--	--	--	--	--	--	--	40000000	0%	0%	190000	0%	0%	--	--	--
Pesticides	4,4'-DDT	50-29-3	ug/kg	--	--	--	--	--	--	--	40000000	0%	0%	280000	0%	0%	--	--	--
Pesticides	Aldrin	309-00-2	ug/kg	0%	200000	0%	0%	200000	0%	0%	800000	0%	0%	4300	0%	0%	--	--	--
Pesticides	alpha-BHC	319-84-6	ug/kg	0%	86000	0%	0%	86000	0%	0%	2100000	0%	0%	12000	0%	0%	--	--	--
Pesticides	Beta BHC	319-85-7	ug/kg	--	--	--	--	--	--	--	7400000	0%	0%	25000	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
Cyanide	Cyanide, Total	57-12-5	ug/kg	--	--	--	--	--	--	--	--	D6
Herbicides	2,4,5-T (Trichlorophenoxyacetic Acid)	93-76-5	ug/kg	6200000	0%	0%	150	0%	0%	D2	--	--
Herbicides	2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	ug/kg	--	--	--	--	--	--	D3	--	--
Herbicides	Silvex (2,4,5-TP)	93-72-1	ug/kg	--	--	--	--	--	--	--	--	--
Mercury	Mercury	7439-97-6	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Aluminum	7429-90-5	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Antimony	7440-36-0	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Arsenic	7440-38-2	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Barium	7440-39-3	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Beryllium	7440-41-7	ug/kg	--	--	--	--	--	--	D3	--	--
Metals	Boron	7440-42-8	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Cadmium	7440-43-9	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Calcium	7440-70-2	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Chromium	7440-47-3	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Chromium VI	18540-29-9	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Cobalt	7440-48-4	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Copper	7440-50-8	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Iron	7439-89-6	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Lead	7439-92-1	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Lithium	7439-93-2	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Magnesium	7439-95-4	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Manganese	7439-96-5	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Molybdenum	7439-98-7	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Nickel	7440-02-0	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Potassium	7440-09-7	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Selenium	7782-49-2	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Silver	7440-22-4	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Sodium	7440-23-5	ug/kg	--	--	--	--	--	--	D3	--	--
Metals	Strontium	7440-24-6	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Thallium	7440-28-0	ug/kg	--	--	--	--	--	--	--	D4	--
Metals	Thorium	7440-29-1	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Tin	7440-31-5	ug/kg	6.1E+08	0%	0%	5500000	0%	0%	D3	--	--
Metals	Titanium	7440-32-6	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Vanadium	7440-62-2	ug/kg	--	--	--	--	--	--	--	--	D6
Metals	Zinc	7440-66-6	ug/kg	--	--	--	--	--	--	--	--	D6
PCBs	PCBs, Total	1336-36-3	ug/kg	--	--	--	--	--	--	--	D4	--
Pesticides	4,4'-DDD	72-54-8	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	4,4'-DDE	72-55-9	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	4,4'-DDT	50-29-3	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	Aldrin	309-00-2	ug/kg	--	--	--	--	--	--	--	D4	--
Pesticides	alpha-BHC	319-84-6	ug/kg	--	--	--	--	--	--	--	--	D5
Pesticides	Beta BHC	319-85-7	ug/kg	--	--	--	--	--	--	--	D4	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
Pesticides	Chlordane, Total	57-74-9	ug/kg	23	72	99	33	227	6%	30.2	70.5	2.49	327	8.9	1,625	1,625	--	30
Pesticides	Delta BHC	319-86-8	ug/kg	23	72	0	33	128	5%	23.0	67.5	0.995	190	8.9	1,301	1,301	--	20
Pesticides	Dieldrin	60-57-1	ug/kg	23	72	0	33	128	10%	20.9	66.0	1.01	21.3	8.9	1,301	1,301	--	20
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	23	72	0	33	128	8%	22.2	65.8	1.8	46.6	8.9	1,301	1,301	--	20
Pesticides	Endosulfan, Total	115-29-7	ug/kg	23	72	0	33	128	16%	39.8	131.4	1.8	54.8	8.9	2,602	2,602	--	20
Pesticides	Endrin	72-20-8	ug/kg	23	72	0	33	128	2%	21.8	65.8	7.1	12.1	8.9	1,301	1,301	--	20
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	23	72	0	33	128	2%	21.6	65.9	1.51	9.88	8.9	1,301	1,301	--	20
Pesticides	Endrin ketone	53494-70-5	ug/kg	23	0	0	33	56	0%	--	--	--	--	8.9	180	180	--	20
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	23	72	0	33	128	2%	21.9	65.8	3.2	33	8.9	1,301	1,301	--	20
Pesticides	Heptachlor	76-44-8	ug/kg	23	72	0	33	128	0%	--	--	--	--	8.9	1,301	1,301	--	20
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	23	72	0	33	128	16%	19.6	59.0	1.02	556	8.9	241	241	--	20
Pesticides	Methoxychlor	72-43-5	ug/kg	23	72	0	33	128	10%	50.4	163.6	2.94	159	17	3,255	3,255	--	50
Pesticides	Mirex	2385-85-5	ug/kg	23	0	0	33	56	4%	14.6	16.0	37	53	8.9	180	180	--	50
Pesticides	Toxaphene	8001-35-2	ug/kg	23	72	0	33	128	0%	--	--	--	--	170	11,085	11,085	--	170
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	0	0	0	33	33	0%	--	--	--	--	730	15,000	15,000	--	330
Sulfide	Sulfide	18496-25-8	ug/kg	0	72	0	0	72	6%	52,740	18,882	79,250	157,750	86,000	226,000	226,000	--	1000
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	0	0	99	0	99	11%	11.7	4.4	10	30	19.8	39.6	39.6	--	330
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	0	0	99	0	99	0%	--	--	--	--	26.4	52.8	52.8	--	--
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	330
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	23	0	99	28	150	4%	127	254	24.5	3,000	157	2,067	480	--	330
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	0	0	0	33	33	0%	--	--	--	--	330	470	470	--	330
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	0	72	99	33	204	0%	--	--	--	--	39.996	919	919	--	330
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	1-Naphthylamine	134-32-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	--
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	0	72	0	0	72	8%	202	70	16	450	352	919	919	--	--
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	23	72	0	33	128	4%	213	189	20	140	330	4,100	919	--	330
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	23	72	0	33	128	2%	215	189	17	29	330	4,100	919	--	330
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	23	72	0	0	95	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	21,000	4,650	--	830
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	330
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	0	0	0	33	33	0%	--	--	--	--	330	470	470	--	330

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
Pesticides	Chlordane, Total	57-74-9	ug/kg	No	No	Yes	--	Yes	31000	--	--	--	--	--	--	--	--	--	
Pesticides	Delta BHC	319-86-8	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	
Pesticides	Dieldrin	60-57-1	ug/kg	No	No	No	--	Yes	1100	--	--	--	--	--	--	--	--	--	
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	
Pesticides	Endosulfan, Total	115-29-7	ug/kg	No	No	Yes	--	Yes	1400000	--	--	--	--	--	--	--	--	--	
Pesticides	Endrin	72-20-8	ug/kg	No	No	Yes	--	Yes	65000	--	--	--	--	--	--	--	--	--	
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	
Pesticides	Endrin ketone	53494-70-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	No	No	No	--	Yes	20	--	20	0.8%	67%	20	0.8%	67%	7100	0%	0%
Pesticides	Heptachlor	76-44-8	ug/kg	No	No	Yes	B3	Yes	5600	--	--	--	--	--	--	--	--	--	
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	No	No	Yes	--	Yes	3100	--	--	--	--	--	--	--	--	--	
Pesticides	Methoxychlor	72-43-5	ug/kg	No	No	Yes	--	Yes	16000	--	16000	0%	0%	--	--	--	18000	0%	0%
Pesticides	Mirex	2385-85-5	ug/kg	No	No	Yes	--	Yes	9600	--	--	--	--	--	--	--	--	--	
Pesticides	Toxaphene	8001-35-2	ug/kg	No	No	No	--	Yes	8200	--	24000	0%	0%	8200	0%	0.8%	360000	0%	0%
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	No	No	No	--	Yes	930	--	930	0%	18%	--	--	--	27000	0%	0%
Sulfide	Sulfide	18496-25-8	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	Yes	Yes	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	No	No	Yes	B3	Yes	87	--	--	--	--	--	--	--	--	--	
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	No	No	Yes	B3	Yes	3400	--	1500000	0%	0%	3400	0%	0%	1500000	0%	0%
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	No	No	Yes	--	Yes	4200	--	4200	0%	0%	5900	0%	0%	1100000	0%	0%
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	No	No	No	--	Yes	0.27	--	--	--	--	--	--	--	--	--	
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	No	No	No	--	Yes	3.3	--	--	--	--	--	--	--	--	--	
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	1-Naphthylamine	134-32-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	No	No	No	--	Yes	0.12	--	--	--	--	--	--	--	--	--	
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	No	No	Yes	--	Yes	6700	--	--	--	--	--	--	--	--	--	
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	No	No	Yes	--	Yes	39000	--	39000	0%	0%	--	--	--	9100000	0%	0%
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	No	No	No	--	Yes	330	--	2400	0%	0.8%	330	0%	90%	200000	0%	0%
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	No	No	No	--	Yes	330	--	1500	0%	2%	330	0%	91%	960000	0%	0%
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	No	No	Yes	B3	Yes	7400	--	7400	0%	0%	7600	0%	0%	10000000	0%	0%
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	No	No	No	--	Yes	82	--	--	--	--	--	--	--	--	--	
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	No	No	No	--	Yes	430	--	430	0%	12%	--	--	--	170000	0%	0%
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	No	No	No	--	Yes	330	--	330	0%	97%	--	--	--	130000	0%	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
Pesticides	Chlordane, Total	57-74-9	ug/kg	11000000	0%	0%	1200000	0%	0%	1200000	0%	0%	1200000	0%	0%	31000000	0%	0%	31000
Pesticides	Delta BHC	319-86-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Dieldrin	60-57-1	ug/kg	140000	0%	0%	19000	0%	0%	19000	0%	0%	19000	0%	0%	680000	0%	0%	1100
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endosulfan, Total	115-29-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1400000
Pesticides	Endrin	72-20-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	65000
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endrin ketone	53494-70-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8300
Pesticides	Heptachlor	76-44-8	ug/kg	350000	0%	0%	62000	0%	0%	62000	0%	0%	62000	0%	0%	240000	0%	0%	5600
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	120000	0%	0%	3100
Pesticides	Methoxychlor	72-43-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1900000
Pesticides	Mirex	2385-85-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9600
Pesticides	Toxaphene	8001-35-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	9700000	0%	0%	20000
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	27000	0%	0%	18000	0%	0%	18000	0%	0%	18000	0%	0%	5900000	0%	0%	4400
Sulfide	Sulfide	18496-25-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	580000	0%	0%	230000	0%	0%	230000	0%	0%	230000	0%	0%	67000000	0%	0%	77000000
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	1100000	0%	0%	28000000	0%	0%	28000000	0%	0%	28000000	0%	0%	2.5E+10	0%	0%	990000
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1-Naphthylamine	134-32-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	2.3E+10	0%	0%	23000000
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1E+09	0%	0%	710000
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	5.1E+09	0%	0%	660000
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	4.7E+09	0%	0%	11000000
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	16000000	0%	0%	48000
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.3E+08	0%	0%	140000

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(D) Pathway-Specific Toxicity Screening Criteria																
				Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)	
Pesticides	Chlordane, Total	57-74-9	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	59000000	0%	0%	4200000	0%
Pesticides	Delta BHC	319-86-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Dieldrin	60-57-1	ug/kg	0%	0.8%	--	--	--	--	--	--	--	--	--	--	720000	0%	0%	64000	0%
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endosulfan, Total	115-29-7	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endrin	72-20-8	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endrin ketone	53494-70-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	0%	0%	--	--	--	20	0.8%	67%	7100	0%	0%	--	--	--	--	--	--
Pesticides	Heptachlor	76-44-8	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	1900000	0%	0%	210000	0%	
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Methoxychlor	72-43-5	ug/kg	0%	0%	--	--	--	16000	0%	0%	18000	0%	0%	--	--	--	--	--	--
Pesticides	Mirex	2385-85-5	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Toxaphene	8001-35-2	ug/kg	0%	0%	--	--	--	24000	0%	0%	360000	0%	0%	--	--	--	--	--	--
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	0%	3%	27000	0%	0%	930	0%	18%	27000	0%	0%	27000	0%	0%	60000	0%	
Sulfide	Sulfide	18496-25-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	0%	0%	--	--	--	1500000	0%	0%	1500000	0%	0%	1100000	0%	0%	270000	0%	
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	0%	0%	1100000	0%	0%	4200	0%	0%	1100000	0%	0%	1100000	0%	0%	34000000	0%	
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1-Naphthylamine	134-32-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	0%	0%	--	--	--	110000	0%	0%	9100000	0%	0%	--	--	--	--	--	--
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	0%	0%	--	--	--	9400	0%	0%	200000	0%	0%	--	--	--	--	--	--
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	0%	0%	1800000	0%	0%	4200	0%	0%	960000	0%	0%	--	--	--	--	--	--
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	0%	0%	--	--	--	20000	0%	0%	10000000	0%	0%	--	--	--	--	--	--
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	0%	0%	--	--	--	640	0%	3%	170000	0%	0%	--	--	--	--	--	--
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	0%	0%	--	--	--	330	0%	97%	130000	0%	0%	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
Pesticides	Chlordane, Total	57-74-9	ug/kg	0%	4200000	0%	0%	4200000	0%	0%	21000000	0%	0%	150000	0%	0%	--	--	--
Pesticides	Delta BHC	319-86-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Dieldrin	60-57-1	ug/kg	0%	64000	0%	0%	64000	0%	0%	850000	0%	0%	4700	0%	0%	--	--	--
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endosulfan, Total	115-29-7	ug/kg	--	--	--	--	--	--	--	--	--	--	4400000	0%	0%	--	--	--
Pesticides	Endrin	72-20-8	ug/kg	--	--	--	--	--	--	--	--	--	--	190000	0%	0%	--	--	--
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Endrin ketone	53494-70-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	--	--	--	--	--	--	--	--	--	--	42000	0%	0%	--	--	--
Pesticides	Heptachlor	76-44-8	ug/kg	0%	210000	0%	0%	210000	0%	0%	3000000	0%	0%	23000	0%	0%	--	--	--
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	--	--	--	--	--	--	--	1500000	0%	0%	9500	0%	0%	--	--	--
Pesticides	Methoxychlor	72-43-5	ug/kg	--	--	--	--	--	--	--	--	--	--	5600000	0%	0%	--	--	--
Pesticides	Mirex	2385-85-5	ug/kg	--	--	--	--	--	--	--	--	--	--	40000	0%	0%	--	--	--
Pesticides	Toxaphene	8001-35-2	ug/kg	--	--	--	--	--	--	--	12000000	0%	0%	85000	0%	0%	--	--	--
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	0%	60000	0%	0%	60000	0%	0%	7400000	0%	0%	20000	0%	0%	--	--	--
Sulfide	Sulfide	18496-25-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	49000	0%	0%
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	0%	270000	0%	0%	270000	0%	0%	29000000	0%	0%	2.5E+08	0%	0%	--	--	--
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	0%	34000000	0%	0%	34000000	0%	0%	1.1E+10	0%	0%	1100000	0%	0%	--	--	--
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	610	0%	0%
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	6100	0%	0%
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	1-Naphthylamine	134-32-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	4600	0%	0%
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	1800000	0%	0%
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	--	--	--	--	--	--	--	1E+10	0%	0%	73000000	0%	0%	--	--	--
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	--	--	--	--	--	--	--	1.3E+09	0%	0%	3300000	0%	0%	--	--	--
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	--	--	--	--	--	--	--	2.3E+09	0%	0%	1800000	0%	0%	--	--	--
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	--	--	--	--	--	--	--	2.1E+09	0%	0%	36000000	0%	0%	--	--	--
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	120000	0%	0%
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	--	--	--	--	--	--	--	20000000	0%	0%	220000	0%	0%	--	--	--
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	--	--	--	--	--	--	--	59000000	0%	0%	440000	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
Pesticides	Chlordane, Total	57-74-9	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	Delta BHC	319-86-8	ug/kg	--	--	--	--	--	--	--	--	--
Pesticides	Dieldrin	60-57-1	ug/kg	--	--	--	--	--	--	--	D4	--
Pesticides	Endosulfan sulfate	1031-07-8	ug/kg	--	--	--	--	--	--	--	--	--
Pesticides	Endosulfan, Total	115-29-7	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	Endrin	72-20-8	ug/kg	--	--	--	--	--	--	D2	--	--
Pesticides	Endrin aldehyde	7421-93-4	ug/kg	--	--	--	--	--	--	--	--	--
Pesticides	Endrin ketone	53494-70-5	ug/kg	--	--	--	--	--	--	--	--	--
Pesticides	Gamma BHC (Lindane)	58-89-9	ug/kg	--	--	--	--	--	--	--	--	D5
Pesticides	Heptachlor	76-44-8	ug/kg	--	--	--	--	--	--	--	--	--
Pesticides	Heptachlor epoxide	1024-57-3	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	Methoxychlor	72-43-5	ug/kg	--	--	--	--	--	--	D3	--	--
Pesticides	Mirex	2385-85-5	ug/kg	--	--	--	--	--	--	D2	--	--
Pesticides	Toxaphene	8001-35-2	ug/kg	--	--	--	--	--	--	--	D4	--
Pesticides	Tris(2,3-dibromopropyl)phosphate	126-72-7	ug/kg	--	--	--	--	--	--	--	D4	--
Sulfide	Sulfide	18496-25-8	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	(E)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-38-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	(E)-beta-2,3,4,5,6-Hexachlorostyrene	90301-92-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-alpha,beta-2,3,4,5,6-Heptachlorostyrene	29086-39-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	(Z)-beta-2,3,4,5,6-Hexachlorostyrene	90301-93-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3,4-Tetrachlorobenzene	634-66-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	1,2,3-Trichlorobenzene	87-61-6	ug/kg	490000	0%	0%	87	0%	0%	--	--	--
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	1,2,4-Trichlorobenzene	120-82-1	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	1,2-Diphenyl-hydrazine	122-66-7	ug/kg	2200	0%	0%	0.27	0%	100%	--	D4	--
SVOCs	1,3-Dinitrobenzene	99-65-0	ug/kg	62000	0%	0%	3.3	0%	100%	--	D4	--
SVOCs	1,4-Naphthoquinone	130-15-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	1-Naphthylamine	134-32-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/kg	22000	0%	0%	0.12	0%	100%	--	D4	--
SVOCs	2,3,4,5,6-Pentachlorostyrene	14992-81-5	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2,3,4,6-Tetrachlorophenol	58-90-2	ug/kg	18000000	0%	0%	6700	0%	0%	D3	--	--
SVOCs	2,4,5-Trichlorophenol	95-95-4	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	2,4,6-Trichlorophenol	88-06-2	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	2,4-Dichlorophenol	120-83-2	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	2,4-Dimethylphenol	105-67-9	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2,4-Dinitrophenol	51-28-5	ug/kg	1200000	0%	0%	82	0%	100%	--	D4	--
SVOCs	2,4-Dinitrotoluene	121-14-2	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	2,6-Dichlorophenol	87-65-0	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2,6-Dimethylphenol	576-26-1	ug/kg	--	--	--	--	--	--	--	D4	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	23	72	99	33	227	0%	--	--	--	--	43.329	4,100	919	--	330
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	2-Chlorophenol	95-57-8	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	23	72	0	33	128	33%	169	131	8.63	1,066	178	745	745	--	330
SVOCs	2-Naphthylamine	91-59-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	2-Nitroaniline	88-74-4	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,650	4,650	--	830
SVOCs	2-Nitrophenol	88-75-5	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	330
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	2000
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	3-Nitroaniline	99-09-2	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,650	4,650	--	830
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	0	0	0	33	33	0%	--	--	--	--	330	470	470	--	500
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	21,000	4,650	--	830
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	23	72	0	33	128	0.8%	217	187	45	45	330	4,100	919	--	330
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	280
SVOCs	4-Chloroaniline	106-47-8	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	330
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	23	72	0	33	128	0.8%	218	187	131	131	330	4,100	919	--	330
SVOCs	4-Nitroaniline	100-01-6	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,650	4,650	--	830
SVOCs	4-Nitrophenol	100-02-7	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	21,000	4,650	--	830
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	0	0	99	0	99	0%	--	--	--	--	86.658	173	173	--	--
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Acenaphthene	83-32-9	ug/kg	23	72	0	33	128	13%	187	104	11	290	330	2,300	919	--	330
SVOCs	Acenaphthylene	208-96-8	ug/kg	23	72	0	33	128	22%	210	226	10	1,600	330	4,100	517	--	330
SVOCs	Acetophenone	98-86-2	ug/kg	0	72	0	33	105	19%	212	87	30	560	330	919	919	--	330
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	Aniline	62-53-3	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	330
SVOCs	Anthracene	120-12-7	ug/kg	23	72	0	33	128	48%	159	141	7.8	810	330	517	517	--	330
SVOCs	Aramite (Total)	140-57-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Azobenzene	103-33-3	ug/kg	23	0	0	33	56	4%	246	292	18	860	330	4,100	470	--	200
SVOCs	Benazidine	92-87-5	ug/kg	0	0	99	0	99	7%	427	134	239	936	770	1,540	1,540	--	1000
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	23	72	0	33	128	38%	261	398	19	3,105	330	919	919	--	330
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	23	72	0	33	128	88%	254	553	20	4,300	330	410	410	--	330
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	23	72	0	33	128	80%	208	336	20	2,490	330	4,100	424	--	330
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	23	72	0	33	128	54%	187	330	13	2,600	330	470	470	--	330
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	23	72	99	33	227	52%	231	464	8.1	3,661	190	444	444	--	330

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	No	No	No	--	Yes	50	--	--	--	--	--	--	--	--	--	
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	No	No	Yes	B3	Yes	620000	--	620000	0%	0%	--	--	2300000	0%	0%	
SVOCs	2-Chlorophenol	95-57-8	ug/kg	No	No	No	--	Yes	360	--	900	0%	2%	360	0%	76%	1900000	0%	0%
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	No	No	Yes	--	Yes	4200	--	57000	0%	0%	4200	0%	0%	5500000	0%	0%
SVOCs	2-Naphthylamine	91-59-8	ug/kg	No	No	No	--	Yes	0.19	--	--	--	--	--	--	--	--	--	
SVOCs	2-Nitroaniline	88-74-4	ug/kg	No	No	No	--	Yes	150	--	--	--	--	--	--	--	--	--	
SVOCs	2-Nitrophenol	88-75-5	ug/kg	No	No	No	--	Yes	400	--	400	0%	32%	--	--	1600000	0%	0%	
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	Yes	Yes	Yes	B1	Yes	2000	--	2000	0%	0%	2000	0%	0%	4600	0%	0%
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	No	No	No	--	Yes	0.04	--	--	--	--	--	--	--	--	--	
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	No	No	No	--	Yes	5.9	--	--	--	--	--	--	--	--	--	
SVOCs	3-Nitroaniline	99-09-2	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	Yes	Yes	Yes	B1	Yes	6800	--	--	--	--	--	--	--	--	--	
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	No	No	No	--	Yes	830	--	830	0%	94%	--	--	190000	0%	0%	
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	No	No	No	--	Yes	0.016	--	--	--	--	--	--	--	--	--	
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	No	No	No	--	Yes	280	--	5800	0%	0%	280	0%	100%	3000000	0%	0%
SVOCs	4-Chloroaniline	106-47-8	ug/kg	No	No	No	--	Yes	0.14	--	--	--	--	--	--	--	--	--	
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	
SVOCs	4-Nitroaniline	100-01-6	ug/kg	No	No	No	--	Yes	1.4	--	--	--	--	--	--	--	--	--	
SVOCs	4-Nitrophenol	100-02-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	No	No	No	--	Yes	1.1	--	--	--	--	--	--	--	--	--	
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	No	No	No	--	Yes	0.27	--	--	--	--	--	--	--	--	--	
SVOCs	Acenaphthene	83-32-9	ug/kg	No	No	Yes	--	Yes	8700	--	300000	0%	0%	8700	0%	0%	970000	0%	0%
SVOCs	Acenaphthylene	208-96-8	ug/kg	No	No	Yes	--	Yes	5900	--	5900	0%	0%	--	--	--	440000	0%	0%
SVOCs	Acetophenone	98-86-2	ug/kg	No	No	Yes	--	Yes	30000	--	30000	0%	0%	--	--	--	1100000	0%	0%
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
SVOCs	Aniline	62-53-3	ug/kg	No	No	No	--	Yes	330	--	1100	0%	0%	330	0%	99%	2800000	0%	0%
SVOCs	Anthracene	120-12-7	ug/kg	No	No	Yes	--	Yes	41000	--	41000	0%	0%	--	--	--	41000	0%	0%
SVOCs	Aramite (Total)	140-57-8	ug/kg	No	No	No	--	Yes	30	--	--	--	--	--	--	--	--	--	
SVOCs	Azobenzene	103-33-3	ug/kg	No	No	Yes	--	Yes	4200	--	4200	0%	0%	--	--	--	300000	0%	0%
SVOCs	Benazidine	92-87-5	ug/kg	No	No	No	--	Yes	1000	--	1000	0%	9%	1000	0%	9%	1000	0%	9%
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	No	No	Yes	--	Yes	20000	--	--	--	--	--	--	--	--	--	
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	No	No	Yes	--	Yes	20000	--	--	--	--	--	--	--	--	--	
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	No	No	Yes	--	Yes	2500000	--	--	--	--	--	--	--	--	--	
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	No	No	Yes	--	Yes	200000	--	--	--	--	--	--	--	--	--	
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	No	No	Yes	--	Yes	2000	--	--	--	--	--	--	--	--	--	

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56000000
SVOCs	2-Chlorophenol	95-57-8	ug/kg	430000	0%	0%	960000	0%	0%	960000	0%	0%	960000	0%	0%	1.2E+09	0%	0%	1400000
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	2700000	0%	0%	1500000	0%	0%	1500000	0%	0%	1500000	0%	0%	6.7E+08	0%	0%	8100000
SVOCs	2-Naphthylamine	91-59-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Nitroaniline	88-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Nitrophenol	88-75-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	630000
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6500000	0%	0%	6600
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	3-Nitroaniline	99-09-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	84000000	0%	0%	6800
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79000
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4500000
SVOCs	4-Chloroaniline	106-47-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroaniline	100-01-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitrophenol	100-02-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Acenaphthene	83-32-9	ug/kg	1.9E+08	0%	0%	81000000	0%	0%	81000000	0%	0%	81000000	0%	0%	1.4E+10	0%	0%	41000000
SVOCs	Acenaphthylene	208-96-8	ug/kg	1600000	0%	0%	2200000	0%	0%	2200000	0%	0%	2200000	0%	0%	2.3E+09	0%	0%	1600000
SVOCs	Acetophenone	98-86-2	ug/kg	1100000	0%	0%	44000000	0%	0%	44000000	0%	0%	44000000	0%	0%	3.3E+10	0%	0%	1100000
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Aniline	62-53-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	67000000	0%	0%	330000
SVOCs	Anthracene	120-12-7	ug/kg	1E+09	0%	0%	1.4E+09	0%	0%	1.4E+09	0%	0%	1.4E+09	0%	0%	6.7E+10	0%	0%	2.3E+08
SVOCs	Aramite (Total)	140-57-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Azobenzene	103-33-3	ug/kg	6100000	0%	0%	630000	0%	0%	630000	0%	0%	630000	0%	0%	1E+08	0%	0%	140000
SVOCs	Benzdine	92-87-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	46000	0%	0%	1000
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20000
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20000
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	8E+08	0%	0%	2500000
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	200000
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1500000	0%	0%	2000

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(D) Pathway-Specific Toxicity Screening Criteria															
				Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	0%	0%	--	--	--	1800000	0%	0%	2300000	0%	0%	--	--	--	--	--
SVOCs	2-Chlorophenol	95-57-8	ug/kg	0%	0%	19000000	0%	0%	2600	0%	0.8%	1900000	0%	0%	800000	0%	0%	1100000	0%
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	0%	0%	--	--	--	170000	0%	0%	5500000	0%	0%	4900000	0%	0%	1800000	0%
SVOCs	2-Naphthylamine	91-59-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Nitroaniline	88-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Nitrophenol	88-75-5	ug/kg	0%	0%	--	--	--	1200	0%	0%	1600000	0%	0%	--	--	--	--	--
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	0%	0%	--	--	--	2000	0%	0%	4600	0%	0%	--	--	--	--	--
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	3-Nitroaniline	99-09-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	0%	0%	--	--	--	830	0%	94%	190000	0%	0%	--	--	--	--	--
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	0%	0%	--	--	--	16000	0%	0%	3000000	0%	0%	--	--	--	--	--
SVOCs	4-Chloroaniline	106-47-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroaniline	100-01-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitrophenol	100-02-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Acenaphthene	83-32-9	ug/kg	0%	0%	--	--	--	880000	0%	0%	970000	0%	0%	3.5E+08	0%	0%	97000000	0%
SVOCs	Acenaphthylene	208-96-8	ug/kg	0%	0%	--	--	--	17000	0%	0%	440000	0%	0%	3000000	0%	0%	2700000	0%
SVOCs	Acetophenone	98-86-2	ug/kg	0%	0%	1100000	0%	0%	88000	0%	0%	1100000	0%	0%	1100000	0%	0%	52000000	0%
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Aniline	62-53-3	ug/kg	0%	0%	4500000	0%	0%	4400	0%	0%	2800000	0%	0%	--	--	--	--	--
SVOCs	Anthracene	120-12-7	ug/kg	0%	0%	--	--	--	41000	0%	0%	41000	0%	0%	1E+09	0%	0%	1.6E+09	0%
SVOCs	Aramite (Total)	140-57-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Azobenzene	103-33-3	ug/kg	0%	0%	--	--	--	17000	0%	0%	300000	0%	0%	32000000	0%	0%	2100000	0%
SVOCs	Benzdine	92-87-5	ug/kg	0%	9%	--	--	--	1000	0%	9%	1000	0%	9%	--	--	--	--	--
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	2%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	61000	0%	0%
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	--	--	--	--	--	--	--	--	--	--	1.8E+08	0%	0%	--	--	--
SVOCs	2-Chlorophenol	95-57-8	ug/kg	0%	1100000	0%	0%	1100000	0%	0%	5.3E+08	0%	0%	4500000	0%	0%	--	--	--
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	0%	1800000	0%	0%	1800000	0%	0%	2.9E+08	0%	0%	26000000	0%	0%	--	--	--
SVOCs	2-Naphthylamine	91-59-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	270	0%	100%
SVOCs	2-Nitroaniline	88-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	610000	0%	0%
SVOCs	2-Nitrophenol	88-75-5	ug/kg	--	--	--	--	--	--	--	--	--	--	2000000	0%	0%	--	--	--
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	--	--	--	--	--	--	--	8200000	0%	0%	30000	0%	0%	--	--	--
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	44	0%	100%
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	22	0%	100%
SVOCs	3-Nitroaniline	99-09-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	--	--	--	--	--	--	--	1.1E+08	0%	0%	32000	0%	0%	--	--	--
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	--	--	--	--	--	--	--	--	--	--	260000	0%	0%	--	--	--
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	23	0%	100%
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	--	--	--	--	--	--	--	--	--	--	15000000	0%	0%	--	--	--
SVOCs	4-Chloroaniline	106-47-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2400	0%	0%
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroaniline	100-01-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	24000	0%	0%
SVOCs	4-Nitrophenol	100-02-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	15000	0%	0%
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0%	100%
SVOCs	Acenaphthene	83-32-9	ug/kg	0%	97000000	0%	0%	97000000	0%	0%	6.2E+09	0%	0%	1.3E+08	0%	0%	--	--	--
SVOCs	Acenaphthylene	208-96-8	ug/kg	0%	2700000	0%	0%	2700000	0%	0%	1E+09	0%	0%	5200000	0%	0%	--	--	--
SVOCs	Acetophenone	98-86-2	ug/kg	0%	52000000	0%	0%	52000000	0%	0%	1.4E+10	0%	0%	1100000	0%	0%	--	--	--
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Aniline	62-53-3	ug/kg	--	--	--	--	--	--	--	29000000	0%	0%	1500000	0%	0%	--	--	--
SVOCs	Anthracene	120-12-7	ug/kg	0%	1.6E+09	0%	0%	1.6E+09	0%	0%	2.9E+10	0%	0%	7.3E+08	0%	0%	--	--	--
SVOCs	Aramite (Total)	140-57-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	19000	0%	0%
SVOCs	Azobenzene	103-33-3	ug/kg	0%	2100000	0%	0%	2100000	0%	0%	1.3E+08	0%	0%	660000	0%	0%	--	--	--
SVOCs	Benzdine	92-87-5	ug/kg	--	--	--	--	--	--	--	59000	0%	0%	1000	0%	9%	--	--	--
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	--	--	--	--	--	--	--	--	--	--	80000	0%	0%	--	--	--
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	--	--	--	--	--	--	--	--	--	--	80000	0%	0%	--	--	--
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	--	--	--	--	--	--	--	3.5E+08	0%	0%	7000000	0%	0%	--	--	--
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	--	--	--	--	--	--	--	--	--	--	800000	0%	0%	--	--	--
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	--	--	--	--	--	--	--	1900000	0%	0%	8000	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
SVOCs	2,6-Dinitrotoluene	606-20-2	ug/kg	620000	0%	0%	50	0%	61%	--	D4	--
SVOCs	2-Acetylaminofluorene	53-96-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2-Chloronaphthalene	91-58-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	2-Chlorophenol	95-57-8	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	2-Methylnaphthalene	91-57-6	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	2-Naphthylamine	91-59-8	ug/kg	960	0%	0%	0.19	0%	100%	--	D4	--
SVOCs	2-Nitroaniline	88-74-4	ug/kg	6000000	0%	0%	150	0%	100%	--	D4	--
SVOCs	2-Nitrophenol	88-75-5	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	3,3'-Dichlorobenzidine	91-94-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	3,3'-Dimethylbenzidine	119-93-7	ug/kg	160	0%	100%	0.04	0%	100%	--	D4	--
SVOCs	3-Methylcholanthrene	56-49-5	ug/kg	78	0%	100%	5.9	0%	100%	--	D4	--
SVOCs	3-Nitroaniline	99-09-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4,4'-Methylene bis(2-chloroaniline)	101-14-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	4-Aminobiphenyl	92-67-1	ug/kg	82	0%	100%	0.016	0%	100%	--	D4	--
SVOCs	4-Bromophenyl phenyl ether	101-55-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4-Chloro-3-methylphenol	59-50-7	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	4-Chloroaniline	106-47-8	ug/kg	8600	0%	0%	0.14	0%	100%	--	D4	--
SVOCs	4-Chlorophenyl phenyl ether	7005-72-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroaniline	100-01-6	ug/kg	86000	0%	0%	1.4	0%	100%	--	D4	--
SVOCs	4-Nitrophenol	100-02-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4-Nitroquinoline-1-oxide	56-57-5	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	4-tert-Butylphenol	98-54-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	5-Nitro-o-toluidine	99-55-8	ug/kg	52000	0%	0%	1.1	0%	100%	--	D4	--
SVOCs	7,12-Dimethylbenz(a)anthracene	57-97-6	ug/kg	6.2	0%	100%	0.27	0%	100%	--	D4	--
SVOCs	Acenaphthene	83-32-9	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Acenaphthylene	208-96-8	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Acetophenone	98-86-2	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Alpha, Alpha Dimethylphenethylamine	122-09-8	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	alpha-2,3,4,5,6-Hexachlorostyrene	68705-15-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Aniline	62-53-3	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Anthracene	120-12-7	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Aramite (Total)	140-57-8	ug/kg	69000	0%	0%	30	0%	100%	--	D4	--
SVOCs	Azobenzene	103-33-3	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	Benzidine	92-87-5	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Benzo(a)anthracene	56-55-3	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzo(b)fluoranthene	205-99-2	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzo(g,h,i)perylene	191-24-2	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzo(k)fluoranthene	207-08-9	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzo[a]pyrene	50-32-8	ug/kg	--	--	--	--	--	--	--	--	D6

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
SVOCs	Benzoic acid	65-85-0	ug/kg	0	0	0	33	33	15%	895	184	430	1,500	1,600	2,300	2,300	--	3300
SVOCs	Benzyl alcohol	100-51-6	ug/kg	0	72	0	33	105	2%	197	41	22	50	330	919	919	--	3300
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	23	72	0	33	128	16%	203	184	9.59	815	330	4,100	919	--	330
SVOCs	Benzyl dichloride	98-87-3	ug/kg	0	0	0	33	33	0%	--	--	--	--	2,700	3,800	3,800	--	330
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	60	60	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	100
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	23	0	0	0	23	0%	--	--	--	--	330	4,100	--	--	330
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	23	72	0	33	128	78%	457	1,302	23.5	11,000	350	424	424	--	330
SVOCs	Bisphenol-A	80-05-7	ug/kg	0	0	99	0	99	0%	--	--	--	--	160	320	320	--	--
SVOCs	Caprolactam	105-60-2	ug/kg	0	0	0	33	33	0%	--	--	--	--	1,600	2,300	2,300	--	330
SVOCs	Carbazole	86-74-8	ug/kg	0	0	99	33	132	17%	61.5	82.3	8	343	19,998	470	470	--	330
SVOCs	Chlorobenzilate	510-15-6	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	0	0	99	33	132	0%	--	--	--	--	8.9	180	180	--	100
SVOCs	Chrysene	218-01-9	ug/kg	23	72	0	33	128	71%	272	532	17.3	3,905	330	517	517	--	330
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	0	0	99	0	99	0%	--	--	--	--	16,665	33.33	33.33	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	23	72	99	33	227	1%	325	337	158	237	210	8,200	1,838	--	660
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	20
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	23	72	0	33	128	18%	203	200	15	745	330	4,100	517	--	330
SVOCs	Dibenzofuran	132-64-9	ug/kg	23	72	99	33	227	11%	146	148	8.47	1,800	133	2,300	517	--	330
SVOCs	Diethyl phthalate	84-66-2	ug/kg	23	72	0	33	128	2%	268	199	13.2	250	330	4,100	930	--	330
SVOCs	Dimethoate	60-51-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	23	72	0	33	128	0.8%	218	187	66	66	330	4,100	919	--	330
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	23	72	0	33	128	27%	216	216	8.26	750	330	4,100	919	--	330
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	23	72	0	0	95	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	Dinoseb	88-85-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	200
SVOCs	Diphenylamine	122-39-4	ug/kg	15	72	0	0	87	0%	--	--	--	--	330	4,100	919	--	--
SVOCs	Disulfoton	298-04-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Famphur	52-85-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	23	72	99	33	227	82%	414	1,072	13.7	9,270	130	432	432	--	330
SVOCs	Fluorene	86-73-7	ug/kg	23	72	0	33	128	16%	191	101	14.5	320	330	2,300	517	--	330
SVOCs	Hexabromobenzene	87-82-1	ug/kg	8	0	0	0	8	0%	--	--	--	--	330	330	--	--	100
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	8	0	0	0	8	0%	--	--	--	--	330	330	--	--	50
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	23	72	99	33	227	15%	290	2,152	10	32,000	29,997	2,300	919	--	330
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	23	72	99	33	227	1%	137	173	29	640	46,662	4,100	919	--	50
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	21,000	2,300	--	330
SVOCs	Hexachloroethane	67-72-1	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	300
SVOCs	Hexachlorophene	70-30-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	Hexachloropropene	1888-71-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	23	72	0	33	128	52%	232	354	20	3,110	330	2,300	517	--	330
SVOCs	Isodrin	465-73-6	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
SVOCs	Benzoic acid	65-85-0	ug/kg	Yes	Yes	Yes	--	Yes	640000	--	640000	0%	0%	--	--	--	70000000	0%	0%
SVOCs	Benzyl alcohol	100-51-6	ug/kg	Yes	Yes	Yes	--	Yes	200000	--	200000	0%	0%	--	--	--	5800000	0%	0%
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	No	No	Yes	--	Yes	120000	--	310000	0%	0%	120000	0%	0%	310000	0%	0%
SVOCs	Benzyl dichloride	98-87-3	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	No	No	No	--	Yes	25	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	No	No	No	--	Yes	100	--	100	0%	100%	100	0%	100%	110000	0%	0%
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	No	Yes	Yes	B2	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	No	No	Yes	--	Yes	2800000	--	--	--	--	--	--	--	--	--	--
SVOCs	Bisphenol-A	80-05-7	ug/kg	No	No	Yes	B3	Yes	140000	--	--	--	--	--	--	--	--	--	--
SVOCs	Caprolactam	105-60-2	ug/kg	No	No	Yes	B3	Yes	120000	--	120000	0%	0%	--	--	--	1E+09	0%	0%
SVOCs	Carbazole	86-74-8	ug/kg	No	No	Yes	--	Yes	1100	--	9400	0%	0%	1100	0%	0%	820000	0%	0%
SVOCs	Chlorobenzilate	510-15-6	ug/kg	No	No	No	--	Yes	2	--	--	--	--	--	--	--	--	--	--
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	No	No	No	--	Yes	130	--	17000	0%	0%	1500	0%	0%	840000	0%	0%
SVOCs	Chrysene	218-01-9	ug/kg	No	No	Yes	--	Yes	2000000	--	--	--	--	--	--	--	--	--	--
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	No	No	No	--	Yes	1000	--	7400	0%	0.4%	1000	0%	16%	16000000	0%	0%
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	No	No	No	--	Yes	1.6	--	--	--	--	--	--	--	--	--	--
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	No	No	No	--	Yes	2000	--	--	--	--	--	--	--	--	--	--
SVOCs	Dibenzofuran	132-64-9	ug/kg	No	No	No	--	Yes	1700	--	--	--	--	1700	0.4%	0.4%	--	--	--
SVOCs	Diethyl phthalate	84-66-2	ug/kg	No	No	No	--	Yes	2200	--	110000	0%	0%	2200	0%	2%	740000	0%	0%
SVOCs	Dimethoate	60-51-5	ug/kg	No	No	No	--	Yes	1.6	--	--	--	--	--	--	--	--	--	--
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	No	No	Yes	--	Yes	790000	--	790000	0%	0%	--	--	--	790000	0%	0%
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	No	No	Yes	--	Yes	11000	--	760000	0%	0%	11000	0%	0%	760000	0%	0%
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	No	No	Yes	B3	Yes	6900000	--	1E+08	0%	0%	--	--	--	1.4E+08	0%	0%
SVOCs	Dinoseb	88-85-7	ug/kg	No	No	No	--	Yes	200	--	300	0%	100%	200	0%	100%	140000	0%	0%
SVOCs	Diphenylamine	122-39-4	ug/kg	No	No	No	--	Yes	1700	--	--	--	--	--	--	--	--	--	--
SVOCs	Disulfoton	298-04-4	ug/kg	No	No	No	--	Yes	2.7	--	--	--	--	--	--	--	--	--	--
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Famphur	52-85-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	No	No	Yes	--	Yes	5500	--	730000	0%	0%	5500	0.9%	0%	730000	0%	0%
SVOCs	Fluorene	86-73-7	ug/kg	No	No	Yes	--	Yes	5300	--	390000	0%	0%	5300	0%	0%	890000	0%	0%
SVOCs	Hexabromobenzene	87-82-1	ug/kg	No	Yes	Yes	B2	Yes	5400	--	5400	0%	0%	--	--	--	5400	0%	0%
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	No	Yes	Yes	B2	Yes	1200	--	--	--	--	--	--	--	--	--	--
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	No	No	No	--	Yes	350	--	1800	0.9%	0.4%	350	2%	42%	8200	0.4%	0%
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	No	No	No	--	Yes	91	--	26000	0%	0%	91	0.9%	60%	350000	0%	0%
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	No	No	Yes	B3	Yes	30000	--	320000	0%	0%	--	--	--	720000	0%	0%
SVOCs	Hexachloroethane	67-72-1	ug/kg	No	No	No	--	Yes	430	--	430	0%	12%	1800	0%	2%	110000	0%	0%
SVOCs	Hexachlorophene	70-30-4	ug/kg	No	No	Yes	B3	Yes	15000	--	--	--	--	--	--	--	--	--	--
SVOCs	Hexachloropropene	1888-71-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	No	No	Yes	--	Yes	20000	--	--	--	--	--	--	--	--	--	--
SVOCs	Isodrin	465-73-6	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
SVOCs	Benzoic acid	65-85-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.9E+08
SVOCs	Benzyl alcohol	100-51-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+11	0%	0%	58000000
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	4.7E+10	0%	0%	310000
SVOCs	Benzyl dichloride	98-87-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	8300	0%	0%	3800	0%	0.8%	3800	0%	0.8%	3800	0%	0.8%	9400000	0%	0%	13000
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	7E+08	0%	0%	2800000
SVOCs	Bisphenol-A	80-05-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Caprolactam	105-60-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6.7E+08	0%	0%	53000000
SVOCs	Carbazole	86-74-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	62000000	0%	0%	530000
SVOCs	Chlorobenzilate	510-15-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	130	0%	0.8%	4600	0%	0%	23000	0%	0%	55000	0%	0%	1.3E+08	0%	0%	11000000
SVOCs	Chrysene	218-01-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000000
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6.7E+09	0%	0%	11000000
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000
SVOCs	Dibenzofuran	132-64-9	ug/kg	2000000	0%	0%	130000	0%	0%	130000	0%	0%	130000	0%	0%	6700000	0%	0%	--
SVOCs	Diethyl phthalate	84-66-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+09	0%	0%	740000
SVOCs	Dimethoate	60-51-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+09	0%	0%	790000
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.3E+09	0%	0%	760000
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	3.1E+10	0%	0%	6900000
SVOCs	Dinoseb	88-85-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	2.7E+08	0%	0%	66000
SVOCs	Diphenylamine	122-39-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Disulfoton	298-04-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Famphur	52-85-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	1E+09	0%	0%	7.4E+08	0%	0%	7.4E+08	0%	0%	7.4E+08	0%	0%	9.3E+09	0%	0%	46000000
SVOCs	Fluorene	86-73-7	ug/kg	5.8E+08	0%	0%	1.3E+08	0%	0%	1.3E+08	0%	0%	1.3E+08	0%	0%	9.3E+09	0%	0%	27000000
SVOCs	Hexabromobenzene	87-82-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1100000
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1200
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	41000	0%	0%	17000	0.4%	0%	17000	0.4%	0%	17000	0.4%	0%	6800000	0%	0%	8900
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	130000	0%	0%	130000	0%	0%	130000	0%	0%	130000	0%	0%	1.4E+08	0%	0%	100000
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	30000	0%	0%	50000	0%	0%	50000	0%	0%	50000	0%	0%	13000000	0%	0%	720000
SVOCs	Hexachloroethane	67-72-1	ug/kg	40000	0%	0%	550000	0%	0%	930000	0%	0%	930000	0%	0%	2.3E+08	0%	0%	230000
SVOCs	Hexachlorophene	70-30-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Hexachloropropene	1888-71-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20000
SVOCs	Isodrin	465-73-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(D) Pathway-Specific Toxicity Screening Criteria															
				Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
SVOCs	Benzoic acid	65-85-0	ug/kg	0%	0%	--	--	--	1800000	0%	0%	70000000	0%	0%	--	--	--	--	--
SVOCs	Benzyl alcohol	100-51-6	ug/kg	0%	0%	5800000	0%	0%	580000	0%	0%	5800000	0%	0%	--	--	--	--	--
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	0%	0%	310000	0%	0%	310000	0%	0%	310000	0%	0%	--	--	--	--	--
SVOCs	Benzyl dichloride	98-87-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	0%	0%	2200000	0%	0%	170	0%	100%	110000	0%	0%	44000	0%	0%	13000	0%
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0%	0%	10000000	0%	0%	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bisphenol-A	80-05-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Caprolactam	105-60-2	ug/kg	0%	0%	--	--	--	340000	0%	0%	1E+09	0%	0%	--	--	--	--	--
SVOCs	Carbazole	86-74-8	ug/kg	0%	0%	--	--	--	39000	0%	0%	820000	0%	0%	--	--	--	--	--
SVOCs	Chlorobenzilate	510-15-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	0%	0%	--	--	--	48000	0%	0%	840000	0%	0%	240	0%	0%	5500	0%
SVOCs	Chrysene	218-01-9	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	0%	0%	--	--	--	20000	0%	0%	16000000	0%	0%	--	--	--	--	--
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	0%	2%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Dibenzofuran	132-64-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	3600000	0%	0%	160000	0%
SVOCs	Diethyl phthalate	84-66-2	ug/kg	0%	0%	740000	0%	0%	320000	0%	0%	740000	0%	0%	--	--	--	--	--
SVOCs	Dimethoate	60-51-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	0%	0%	790000	0%	0%	790000	0%	0%	790000	0%	0%	--	--	--	--	--
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	0%	0%	760000	0%	0%	760000	0%	0%	760000	0%	0%	--	--	--	--	--
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	0%	0%	1.4E+08	0%	0%	1.4E+08	0%	0%	1.4E+08	0%	0%	--	--	--	--	--
SVOCs	Dinoseb	88-85-7	ug/kg	0%	0%	140000	0%	0%	300	0%	100%	140000	0%	0%	--	--	--	--	--
SVOCs	Diphenylamine	122-39-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Disulfoton	298-04-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Famphur	52-85-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	0%	0%	--	--	--	730000	0%	0%	730000	0%	0%	1E+09	0%	0%	8.9E+08	0%
SVOCs	Fluorene	86-73-7	ug/kg	0%	0%	--	--	--	890000	0%	0%	890000	0%	0%	1E+09	0%	0%	1.5E+08	0%
SVOCs	Hexabromobenzene	87-82-1	ug/kg	0%	0%	--	--	--	5400	0%	0%	5400	0%	0%	--	--	--	--	--
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	0.4%	0%	--	--	--	1800	0.9%	0.4%	8200	0.4%	0%	220000	0%	0%	56000	0%
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	0%	0%	350000	0%	0%	72000	0%	0%	350000	0%	0%	350000	0%	0%	460000	0%
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	0%	0%	720000	0%	0%	320000	0%	0%	720000	0%	0%	56000	0%	0%	60000	0%
SVOCs	Hexachloroethane	67-72-1	ug/kg	0%	0%	--	--	--	1200	0%	2%	110000	0%	0%	79000	0%	0%	660000	0%
SVOCs	Hexachlorophene	70-30-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Hexachloropropene	1888-71-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	0%	0%	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Isodrin	465-73-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
SVOCs	Benzoic acid	65-85-0	ug/kg	--	--	--	--	--	--	--	--	--	--	1E+09	0%	0%	--	--	--
SVOCs	Benzyl alcohol	100-51-6	ug/kg	--	--	--	--	--	--	--	1.5E+11	0%	0%	5800000	0%	0%	--	--	--
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	--	--	--	--	--	--	--	2.1E+10	0%	0%	310000	0%	0%	--	--	--
SVOCs	Benzyl dichloride	98-87-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	180000	0%	0%
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	0%	13000	0%	0%	13000	0%	0%	12000000	0%	0%	58000	0%	0%	--	--	--
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	--	--	--	--	--	--	--	8.9E+08	0%	0%	10000000	0%	0%	--	--	--
SVOCs	Bisphenol-A	80-05-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	3100000	0%	0%
SVOCs	Caprolactam	105-60-2	ug/kg	--	--	--	--	--	--	--	2.9E+08	0%	0%	3.1E+08	0%	0%	--	--	--
SVOCs	Carbazole	86-74-8	ug/kg	--	--	--	--	--	--	--	78000000	0%	0%	2400000	0%	0%	--	--	--
SVOCs	Chlorobenzilate	510-15-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	4400	0%	0%
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	0%	23000	0%	0%	56000	0%	0%	59000000	0%	0%	34000000	0%	0%	--	--	--
SVOCs	Chrysene	218-01-9	ug/kg	--	--	--	--	--	--	--	--	--	--	8000000	0%	0%	--	--	--
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	--	--	--	--	--	--	--	2.9E+09	0%	0%	36000000	0%	0%	--	--	--
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	8000	0%	0%
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	--	--	--	--	--	--	--	--	--	--	8000	0%	0%	--	--	--
SVOCs	Dibenzofuran	132-64-9	ug/kg	0%	160000	0%	0%	160000	0%	0%	2900000	0%	0%	--	--	--	--	--	--
SVOCs	Diethyl phthalate	84-66-2	ug/kg	--	--	--	--	--	--	--	1.5E+09	0%	0%	740000	0%	0%	--	--	--
SVOCs	Dimethoate	60-51-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	0%	0%
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	--	--	--	--	--	--	--	1.5E+09	0%	0%	790000	0%	0%	--	--	--
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	--	--	--	--	--	--	--	1.5E+09	0%	0%	760000	0%	0%	--	--	--
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	--	--	--	--	--	--	--	1.4E+10	0%	0%	20000000	0%	0%	--	--	--
SVOCs	Dinoseb	88-85-7	ug/kg	--	--	--	--	--	--	--	1.2E+08	0%	0%	140000	0%	0%	--	--	--
SVOCs	Diphenylamine	122-39-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	1500000	0%	0%
SVOCs	Disulfoton	298-04-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2400	0%	0%
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Famphur	52-85-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	0%	8.8E+08	0%	0%	8.8E+08	0%	0%	4.1E+09	0%	0%	1.3E+08	0%	0%	--	--	--
SVOCs	Fluorene	86-73-7	ug/kg	0%	1.5E+08	0%	0%	1.5E+08	0%	0%	4.1E+09	0%	0%	87000000	0%	0%	--	--	--
SVOCs	Hexabromobenzene	87-82-1	ug/kg	--	--	--	--	--	--	--	--	--	--	3100000	0%	0%	--	--	--
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	--	--	--	--	--	--	--	--	--	--	4800	0%	0%	--	--	--
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	0%	56000	0%	0%	56000	0%	0%	8500000	0%	0%	37000	0%	0%	--	--	--
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	0%	460000	0%	0%	460000	0%	0%	1.8E+08	0%	0%	350000	0%	0%	--	--	--
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	0%	60000	0%	0%	60000	0%	0%	5900000	0%	0%	720000	0%	0%	--	--	--
SVOCs	Hexachloroethane	67-72-1	ug/kg	0%	1400000	0%	0%	1400000	0%	0%	1E+08	0%	0%	730000	0%	0%	--	--	--
SVOCs	Hexachlorophene	70-30-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	18000	0%	0%
SVOCs	Hexachloropropene	1888-71-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	--	--	--	--	--	--	--	--	--	--	80000	0%	0%	--	--	--
SVOCs	Isodrin	465-73-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
SVOCs	Benzoic acid	65-85-0	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzyl alcohol	100-51-6	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	Benzyl Butyl Phthalate	85-68-7	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Benzyl dichloride	98-87-3	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	beta,beta-2,3,4,5,6-Heptachlorostyrene	29082-75-5	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Bis(2-Chloroethoxy) methane	111-91-1	ug/kg	1800000	0%	0%	25	0%	100%	--	D4	--
SVOCs	Bis(2-Chloroethyl) ether	111-44-4	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	bis(2-Chloroisopropyl)ether	39638-32-9	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Bisphenol-A	80-05-7	ug/kg	31000000	0%	0%	140000	0%	0%	--	--	--
SVOCs	Caprolactam	105-60-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Carbazole	86-74-8	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Chlorobenzilate	510-15-6	ug/kg	16000	0%	0%	2	0%	100%	--	D4	--
SVOCs	Chlorpyrifos	2921-88-2	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Chrysene	218-01-9	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	cis-Nonachlor	5103-73-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Cresol, Total	MEPH1314	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Diallate (total of cis and trans isomers)	2303-16-4	ug/kg	28000	0%	0%	1.6	0%	100%	--	D4	--
SVOCs	Dibenz(a,h)anthracene	53-70-3	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Dibenzofuran	132-64-9	ug/kg	--	--	--	--	--	--	--	--	D6
SVOCs	Diethyl phthalate	84-66-2	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Dimethoate	60-51-5	ug/kg	120000	0%	0%	1.6	0%	100%	--	D4	--
SVOCs	Dimethyl phthalate	131-11-3	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	Di-n-butyl phthalate	84-74-2	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Di-n-octylphthalate	117-84-0	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Dinoseb	88-85-7	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Diphenylamine	122-39-4	ug/kg	15000000	0%	0%	1700	0%	2%	--	D4	--
SVOCs	Disulfoton	298-04-4	ug/kg	25000	0%	0%	2.7	0%	100%	--	D4	--
SVOCs	Ethyl methanesulfonate	62-50-0	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Famphur	52-85-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Fluoranthene	206-44-0	ug/kg	--	--	--	--	--	--	--	--	D6
SVOCs	Fluorene	86-73-7	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Hexabromobenzene	87-82-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Hexabromobiphenyl	HEX - varies	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Hexachlorobenzene	118-74-1	ug/kg	--	--	--	--	--	--	--	--	D6
SVOCs	Hexachlorobutadiene	87-68-3	ug/kg	--	--	--	--	--	--	--	--	D5
SVOCs	Hexachlorocyclopentadiene	77-47-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Hexachloroethane	67-72-1	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Hexachlorophene	70-30-4	ug/kg	180000	0%	0%	15000	0%	0%	--	--	--
SVOCs	Hexachloropropene	1888-71-7	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Indeno(1,2,3-c,d)Pyrene	193-39-5	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Isodrin	465-73-6	ug/kg	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
SVOCs	Isophorone	78-59-1	ug/kg	23	72	0	33	128	0.8%	218	187	120	120	330	4,100	919	--	330
SVOCs	Isosafrole	120-58-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Kepone	143-50-0	ug/kg	0	72	0	0	72	0%	--	--	--	--	1,780	4,650	4,650	--	--
SVOCs	Methapyrilene	91-80-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	0	0	99	0	99	0%	--	--	--	--	33	66	66	--	--
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Nitrobenzene	98-95-3	ug/kg	23	72	99	33	227	0.9%	134	170	34	69	44	4,100	919	--	330
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	23	72	0	33	128	0%	--	--	--	--	330	4,100	919	--	330
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	23	72	0	33	128	2%	218	187	130	160	330	4,100	919	--	330
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	0	0	99	0	99	0%	--	--	--	--	17.6	35.2	35.2	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	0	0	99	0	99	3%	9.32	2.61	12	14	16.665	33.33	33.33	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	0	0	99	0	99	6%	48.1	21.6	31	215	83.325	167	167	--	--
SVOCs	o-Toluidine	95-53-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Parathion, Methyl	298-00-0	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	40
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	0	72	0	33	105	0%	--	--	--	--	330	919	919	--	330
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	330
SVOCs	Pentachlorophenol	87-86-5	ug/kg	23	72	99	33	227	15%	425	848	3	755	17	21,000	2,300	--	20
SVOCs	Pentachlorethane	76-01-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Phenacetin	62-44-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Phenanthrene	85-01-8	ug/kg	23	72	99	33	227	52%	304	970	8.86	8,938	210	432	432	--	330
SVOCs	Phenol	108-95-2	ug/kg	23	72	0	33	128	22%	183	133	21	1,200	330	919	919	--	330
SVOCs	Phorate	298-02-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Pronamide	23950-58-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Propachlor	1918-16-7	ug/kg	0	0	99	0	99	1%	14.7	4.0	16.166	16.166	26.664	53.328	53.328	--	200
SVOCs	Pyrene	129-00-0	ug/kg	15	72	0	33	120	86%	312	885	15	7,985	350	432	432	--	330
SVOCs	Pyridine	110-86-1	ug/kg	0	72	0	33	105	0%	--	--	--	--	352	930	930	--	330
SVOCs	Ronnel	299-84-3	ug/kg	0	0	99	0	99	0%	--	--	--	--	37.4	74.8	74.8	--	--
SVOCs	Safrole	94-59-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	0	72	0	0	72	0%	--	--	--	--	352	919	919	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
SVOCs	Isophorone	78-59-1	ug/kg	No	No	Yes	--	Yes	15000	--	15000	0%	0%	26000	0%	0%	2400000	0%	0%
SVOCs	Isosafrole	120-58-1	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Kepone	143-50-0	ug/kg	No	No	No	--	Yes	0.24	--	--	--	--	--	--	--	--	--	--
SVOCs	Methapyrilene	91-80-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	No	No	Yes	B3	Yes	1700	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	No	No	No	--	Yes	0.14	--	--	--	--	--	--	--	--	--	--
SVOCs	Nitrobenzene	98-95-3	ug/kg	No	No	No	--	Yes	330	--	330	0%	52%	3600	0%	0.4%	220000	0%	0%
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	No	No	No	--	Yes	0.000053	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	No	No	No	--	Yes	0.0001	--	--	--	--	--	--	--	--	--	--
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	No	No	No	--	Yes	0.005	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	No	No	No	--	Yes	330	--	330	0%	92%	--	--	--	7200	0%	0%
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	No	No	Yes	--	Yes	5400	--	5400	0%	0%	--	--	--	700000	0%	0%
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	No	No	No	--	Yes	0.00088	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	No	No	No	--	Yes	0.0025	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	No	No	No	--	Yes	0.0038	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	No	No	No	--	Yes	0.012	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	No	No	Yes	--	Yes	470	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Toluidine	95-53-4	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	No	No	Yes	B3	Yes	1100	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Methyl	298-00-0	ug/kg	No	No	No	--	Yes	46	--	46	0%	100%	--	--	--	76000	0%	0%
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	No	No	No	--	Yes	0.062	--	--	--	--	--	--	--	--	--	--
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	No	No	Yes	B3	Yes	9500	--	29000	0%	0%	9500	0%	0%	190000	0%	0%
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	No	No	Yes	B3	Yes	37000	--	37000	0%	0%	--	--	--	37000	0%	0%
SVOCs	Pentachlorophenol	87-86-5	ug/kg	No	No	No	--	Yes	22	--	22	8%	58%	17000	0%	0.4%	4300	0%	0.9%
SVOCs	Pentachlorethane	76-01-7	ug/kg	No	No	No	--	Yes	0.36	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenacetin	62-44-2	ug/kg	No	No	No	--	Yes	8.6	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenanthrene	85-01-8	ug/kg	No	No	Yes	--	Yes	2100	--	56000	0%	0%	2100	3%	0%	1100000	0%	0%
SVOCs	Phenol	108-95-2	ug/kg	No	No	Yes	--	Yes	9000	--	88000	0%	0%	9000	0%	0%	12000000	0%	0%
SVOCs	Phorate	298-02-2	ug/kg	No	No	No	--	Yes	8.2	--	--	--	--	--	--	--	--	--	--
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	No	No	Yes	B3	Yes	1900	--	--	--	--	--	--	--	--	--	--
SVOCs	Pronamide	23950-58-5	ug/kg	No	No	Yes	B3	Yes	2800	--	--	--	--	--	--	--	--	--	--
SVOCs	Propachlor	1918-16-7	ug/kg	Yes	Yes	Yes	--	Yes	1900	--	1900	0%	0%	--	--	--	8800000	0%	0%
SVOCs	Pyrene	129-00-0	ug/kg	No	No	Yes	--	Yes	480000	--	480000	0%	0%	--	--	--	480000	0%	0%
SVOCs	Pyridine	110-86-1	ug/kg	No	No	No	--	Yes	400	--	400	0%	57%	--	--	--	37000	0%	0%
SVOCs	Ronnel	299-84-3	ug/kg	No	No	Yes	B3	Yes	17000	--	--	--	--	--	--	--	--	--	--
SVOCs	Safrole	94-59-7	ug/kg	No	No	No	--	Yes	0.19	--	--	--	--	--	--	--	--	--	--
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	No	No	Yes	B3	Yes	3900	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
SVOCs	Isophorone	78-59-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.2E+10	0%	0%	2400000
SVOCs	Isosafrole	120-58-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Kepone	143-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methapyrilene	91-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Nitrobenzene	98-95-3	ug/kg	91000	0%	0%	54000	0%	0%	54000	0%	0%	54000	0%	0%	47000000	0%	0%	100000
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1600000	0%	0%	1200
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	2.2E+09	0%	0%	1700000
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Toluidine	95-53-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Methyl	298-00-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56000
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	190000
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	120000	0%	0%	230000	0%	0%	230000	0%	0%	230000	0%	0%	3.3E+08	0%	0%	1700000
SVOCs	Pentachlorophenol	87-86-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1E+08	0%	0%	90000
SVOCs	Pentachlorethane	76-01-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenacetin	62-44-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenanthrene	85-01-8	ug/kg	2800000	0%	0%	160000	0%	0%	160000	0%	0%	160000	0%	0%	6700000	0%	0%	1600000
SVOCs	Phenol	108-95-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	4E+10	0%	0%	12000000
SVOCs	Phorate	298-02-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Pronamide	23950-58-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Propachlor	1918-16-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2900000
SVOCs	Pyrene	129-00-0	ug/kg	1E+09	0%	0%	6.5E+08	0%	0%	6.5E+08	0%	0%	6.5E+08	0%	0%	6.7E+09	0%	0%	29000000
SVOCs	Pyridine	110-86-1	ug/kg	1100	0%	0%	8200	0%	0%	40000	0%	0%	97000	0%	0%	2.3E+08	0%	0%	37000
SVOCs	Ronnel	299-84-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Safrole	94-59-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(D) Pathway-Specific Toxicity Screening Criteria															
				Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
SVOCs	Isophorone	78-59-1	ug/kg	0%	0%	2400000	0%	0%	62000	0%	0%	2400000	0%	0%	--	--	--	--	--
SVOCs	Isosafrole	120-58-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Kepone	143-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methapyrilene	91-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Nitrobenzene	98-95-3	ug/kg	0%	0%	490000	0%	0%	330	0%	52%	220000	0%	0%	170000	0%	0%	64000	0%
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	0%	2%	1500000	0%	0%	330	0%	92%	7200	0%	0%	--	--	--	--	--
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	0%	0%	--	--	--	22000	0%	0%	700000	0%	0%	--	--	--	--	--
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Toluidine	95-53-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Methyl	298-00-0	ug/kg	0%	0%	--	--	--	130	0%	100%	76000	0%	0%	--	--	--	--	--
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	0%	0%	190000	0%	0%	81000	0%	0%	190000	0%	0%	--	--	--	--	--
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	0%	0%	--	--	--	37000	0%	0%	37000	0%	0%	220000	0%	0%	280000	0%
SVOCs	Pentachlorophenol	87-86-5	ug/kg	0%	0%	--	--	--	22	8%	58%	4300	0%	0.9%	--	--	--	--	--
SVOCs	Pentachlorethane	76-01-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenacetin	62-44-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Phenanthrene	85-01-8	ug/kg	0%	0%	--	--	--	160000	0%	0%	1100000	0%	0%	5100000	0%	0%	190000	0%
SVOCs	Phenol	108-95-2	ug/kg	0%	0%	12000000	0%	0%	260000	0%	0%	12000000	0%	0%	--	--	--	--	--
SVOCs	Phorate	298-02-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Pronamide	23950-58-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Propachlor	1918-16-7	ug/kg	0%	0%	--	--	--	5400	0%	0%	8800000	0%	0%	--	--	--	--	--
SVOCs	Pyrene	129-00-0	ug/kg	0%	0%	--	--	--	480000	0%	0%	480000	0%	0%	1E+09	0%	0%	7.8E+08	0%
SVOCs	Pyridine	110-86-1	ug/kg	0%	0%	37000	0%	0%	420	0%	45%	37000	0%	0%	2000	0%	0%	9800	0%
SVOCs	Ronnel	299-84-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Safrole	94-59-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
SVOCs	Isophorone	78-59-1	ug/kg	--	--	--	--	--	--	--	8.2E+09	0%	0%	2400000	0%	0%	--	--	--
SVOCs	Isosafrole	120-58-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Kepone	143-50-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	49	0%	100%
SVOCs	Methapyrilene	91-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	610000	0%	0%
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	4900	0%	0%
SVOCs	Nitrobenzene	98-95-3	ug/kg	0%	64000	0%	0%	64000	0%	0%	21000000	0%	0%	340000	0%	0%	--	--	--
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	0.77	0%	100%
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2.3	0%	100%
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	87	0%	100%
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	--	--	--	--	--	--	--	2000000	0%	0%	5400	0%	0%	--	--	--
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	--	--	--	--	--	--	--	2.8E+09	0%	0%	7800000	0%	0%	--	--	--
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	22	0%	100%
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	72	0%	100%
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	52	0%	100%
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	230	0%	100%
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	250000	0%	0%
SVOCs	o-Toluidine	95-53-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	370000	0%	0%
SVOCs	Parathion, Methyl	298-00-0	ug/kg	--	--	--	--	--	--	--	--	--	--	180000	0%	0%	--	--	--
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	110	0%	100%
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	--	--	--	--	--	--	--	--	--	--	190000	0%	0%	--	--	--
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	0%	280000	0%	0%	280000	0%	0%	1.5E+08	0%	0%	5500000	0%	0%	--	--	--
SVOCs	Pentachlorophenol	87-86-5	ug/kg	--	--	--	--	--	--	--	1.3E+08	0%	0%	320000	0%	0%	--	--	--
SVOCs	Pentachlorethane	76-01-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	5400	0%	0%
SVOCs	Phenacetin	62-44-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	220000	0%	0%
SVOCs	Phenanthrene	85-01-8	ug/kg	0%	190000	0%	0%	190000	0%	0%	2900000	0%	0%	5200000	0%	0%	--	--	--
SVOCs	Phenol	108-95-2	ug/kg	--	--	--	--	--	--	--	1.8E+10	0%	0%	12000000	0%	0%	--	--	--
SVOCs	Phorate	298-02-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	12000	0%	0%
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	12000000	0%	0%
SVOCs	Pronamide	23950-58-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	4600000	0%	0%
SVOCs	Propachlor	1918-16-7	ug/kg	--	--	--	--	--	--	--	--	--	--	9500000	0%	0%	--	--	--
SVOCs	Pyrene	129-00-0	ug/kg	0%	7.8E+08	0%	0%	7.8E+08	0%	0%	2.9E+09	0%	0%	84000000	0%	0%	--	--	--
SVOCs	Pyridine	110-86-1	ug/kg	0%	40000	0%	0%	97000	0%	0%	1E+08	0%	0%	37000	0%	0%	--	--	--
SVOCs	Ronnel	299-84-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	3100000	0%	0%
SVOCs	Safrole	94-59-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2200	0%	0%
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	2200000	0%	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
SVOCs	Isophorone	78-59-1	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	Isosafrole	120-58-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Kepone	143-50-0	ug/kg	170	0%	100%	0.24	0%	100%	--	D4	--
SVOCs	Methapyrilene	91-80-5	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Methyl chlorpyrifos	5598-13-0	ug/kg	6200000	0%	0%	1700	0%	0%	--	--	--
SVOCs	Methyl methanesulfonate	66-27-3	ug/kg	17000	0%	0%	0.14	0%	100%	--	D4	--
SVOCs	Nitrobenzene	98-95-3	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	n-Nitrosodiethylamine	55-18-5	ug/kg	11	0%	100%	0.000053	0%	100%	--	D4	--
SVOCs	n-Nitrosodimethylamine	62-75-9	ug/kg	34	0%	100%	0.0001	0%	100%	--	D4	--
SVOCs	N-Nitroso-di-n-butylamine	924-16-3	ug/kg	400	0%	38%	0.005	0%	100%	--	D4	--
SVOCs	n-Nitrosodi-n-propylamine	621-64-7	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	n-Nitrosodiphenylamine	86-30-6	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	n-Nitrosomethylethylamine	10595-95-6	ug/kg	78	0%	100%	0.00088	0%	100%	--	D4	--
SVOCs	n-Nitrosomorpholine	59-89-2	ug/kg	260	0%	100%	0.0025	0%	100%	--	D4	--
SVOCs	n-Nitrosopiperidine	100-75-4	ug/kg	180	0%	100%	0.0038	0%	100%	--	D4	--
SVOCs	n-Nitrosopyrrolidine	930-55-2	ug/kg	820	0%	1%	0.012	0%	100%	--	D4	--
SVOCs	O,O,O-Triethyl Phosphorothioate	126-68-1	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	O,O-Diethyl O-2-Pyrazinyl Phosphorothioate (Thionazin)	297-97-2	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	o,p'-DDD	53-19-0	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Octachlorostyrene	29082-74-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	o-Phenylphenol	90-43-7	ug/kg	890000	0%	0%	470	0%	0%	D3	--	--
SVOCs	o-Toluidine	95-53-4	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Parathion, Ethyl (Parathion)	56-38-2	ug/kg	3700000	0%	0%	1100	0%	0%	--	--	--
SVOCs	Parathion, Methyl	298-00-0	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	p-Dimethylaminoazobenzene	60-11-7	ug/kg	370	0%	85%	0.062	0%	100%	--	D4	--
SVOCs	Pentachlorobenzene	608-93-5	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Pentachloronitrobenzene	82-68-8	ug/kg	--	--	--	--	--	--	--	--	--
SVOCs	Pentachlorophenol	87-86-5	ug/kg	--	--	--	--	--	--	--	--	D6
SVOCs	Pentachlorethane	76-01-7	ug/kg	19000	0%	0%	0.36	0%	100%	--	D4	--
SVOCs	Phenacetin	62-44-2	ug/kg	780000	0%	0%	8.6	0%	100%	--	D4	--
SVOCs	Phenanthrene	85-01-8	ug/kg	--	--	--	--	--	--	--	--	D6
SVOCs	Phenol	108-95-2	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Phorate	298-02-2	ug/kg	120000	0%	0%	8.2	0%	100%	--	D4	--
SVOCs	p-Phenylenediamine	106-50-3	ug/kg	1.2E+08	0%	0%	1900	0%	0%	--	--	--
SVOCs	Pronamide	23950-58-5	ug/kg	46000000	0%	0%	2800	0%	0%	--	--	--
SVOCs	Propachlor	1918-16-7	ug/kg	--	--	--	--	--	--	D2	--	--
SVOCs	Pyrene	129-00-0	ug/kg	--	--	--	--	--	--	D3	--	--
SVOCs	Pyridine	110-86-1	ug/kg	--	--	--	--	--	--	--	D4	--
SVOCs	Ronnel	299-84-3	ug/kg	31000000	0%	0%	17000	0%	0%	--	--	--
SVOCs	Safrole	94-59-7	ug/kg	7800	0%	0%	0.19	0%	100%	--	D4	--
SVOCs	Sym-Trinitrobenzene	99-35-4	ug/kg	27000000	0%	0%	3900	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	0	72	0	0	72	0%	--	--	--	--	704	1,840	1,840	--	--
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	0	0	99	0	99	0%	--	--	--	--	23.331	46.662	46.662	--	--
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	100
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	0	0	0	28	28	0%	--	--	--	--	720	1,900	1,900	--	250
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	0	0	99	28	127	0.8%	39.1	57.5	9	9	20	480	480	--	50
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	100
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	0	0	99	0	99	13%	7.96	5.38	5	45	14	14	14	--	--
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	23	0	0	28	51	18%	89.5	76.3	34	300	0.5	480	480	--	100
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	970	970	--	10
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	20
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	23	72	99	28	222	3%	91.8	95.1	5	370	0.5	919	919	--	100
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	23	72	0	28	123	0.8%	53.1	53.8	40	40	0.5	480	480	--	50
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	23	0	0	28	51	4%	82.2	69.0	74	81	0.5	480	480	--	100
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	23	72	99	28	222	11%	90.0	96.9	4	380	0.5	919	919	--	100
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	0	0	0	28	28	0%	--	--	--	--	180	480	480	--	50
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	0	0	0	28	28	0%	--	--	--	--	180	480	480	--	100
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	23	72	99	28	222	9%	96.1	123.6	5	1,300	0.5	919	919	--	100
VOCs	1,4-Dioxane	123-91-1	ug/kg	0	72	0	28	100	0%	--	--	--	--	352	48,000	48,000	--	500
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	0	0	99	28	127	0%	--	--	--	--	10	480	480	--	50
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	0	0	0	28	28	0%	--	--	--	--	1,800	4,800	4,800	--	5000
VOCs	2-Chlorotoluene	95-49-8	ug/kg	0	0	99	28	127	0.8%	36.3	60.2	144	144	10	480	480	--	50
VOCs	2-Hexanone	591-78-6	ug/kg	23	72	0	28	123	0.8%	155	238	470	470	1	1,900	1,900	--	2500
VOCs	2-Propanol	67-63-0	ug/kg	0	0	0	28	28	0%	--	--	--	--	7,200	19,000	19,000	--	4400
VOCs	4-Chlorotoluene	106-43-4	ug/kg	0	0	99	28	127	0%	--	--	--	--	20	480	480	--	50
VOCs	Acetone	67-64-1	ug/kg	23	72	0	28	123	27%	468	316	49.1	1,880	5	2,700	2,700	--	1000
VOCs	Acetonitrile	75-05-8	ug/kg	0	72	0	28	100	0%	--	--	--	--	873	9,700	9,700	--	2500
VOCs	Acrolein	107-02-8	ug/kg	0	72	0	28	100	0%	--	--	--	--	436	9,700	9,700	--	250
VOCs	Acrylonitrile	107-13-1	ug/kg	23	72	99	28	222	2%	467	956	212	563	0.5	9,700	9,700	--	100
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	0	72	0	0	72	0%	--	--	--	--	87.3	618	618	--	--
VOCs	Benzene	71-43-2	ug/kg	23	72	99	28	222	19%	35.2	46.5	10.5	200	0.5	480	480	--	50
VOCs	Bromobenzene	108-86-1	ug/kg	23	0	0	28	51	0%	--	--	--	--	0.5	480	480	--	100
VOCs	Bromodichloromethane	75-27-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	100
VOCs	Bromoform	75-25-2	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	100
VOCs	Bromomethane	74-83-9	ug/kg	23	72	0	28	123	6%	109	112	100	372	1	970	970	--	200
VOCs	Carbon disulfide	75-15-0	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	250

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	No	No	No	--	Yes	13	--	--	--	--	--	--	--	--	--	
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	No	No	Yes	B3	Yes	1500	--	1500	0%	0%	--	--	--	440000	0%	0%
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	No	No	Yes	B3	Yes	1800	--	4000	0%	0%	1800	0%	0%	460000	0%	0%
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	No	No	No	--	Yes	170	--	170	0%	24%	1600	0%	0%	94000	0%	0%
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	No	No	No	--	Yes	100	--	100	0%	26%	6600	0%	0%	420000	0%	0%
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	No	No	No	--	Yes	1700	--	550000	0%	0%	1700	0%	4%	550000	0%	0%
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	No	No	Yes	B3	Yes	15000	--	18000	0%	0%	15000	0%	0%	890000	0%	0%
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	No	No	No	--	Yes	62	--	140	0%	24%	2600	0%	0%	220000	0%	0%
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	No	No	Yes	B3	Yes	840	--	840	0%	0%	--	--	--	830000	0%	0%
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	No	No	Yes	--	Yes	570	--	2100	0%	0%	570	0%	0%	110000	0%	0%
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	No	No	No	--	Yes	10	--	10	0%	93%	--	--	--	1200	0%	0%
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	No	No	No	--	Yes	20	--	20	0%	93%	110	0%	26%	500	0%	0%
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	No	No	No	--	Yes	280	--	14000	0%	0%	280	0.5%	37%	210000	0%	0%
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	No	No	No	--	Yes	100	--	100	0%	26%	7200	0%	0%	380000	0%	0%
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	No	No	No	--	Yes	100	--	100	0%	26%	4600	0%	0%	320000	0%	0%
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	No	No	Yes	--	Yes	1100	--	1800	0%	0%	1100	0%	0%	94000	0%	0%
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	No	No	No	--	Yes	170	--	170	0.5%	45%	680	0%	0.9%	51000	0%	0%
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	No	No	No	--	Yes	250	--	--	--	--	--	--	--	--	--	
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	No	No	No	--	Yes	170	--	170	0%	100%	180	0%	96%	110000	0%	0%
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	No	No	No	--	Yes	360	--	1700	0%	0%	360	0.5%	33%	140000	0%	0%
VOCs	1,4-Dioxane	123-91-1	ug/kg	No	No	No	--	Yes	1700	--	1700	0%	28%	56000	0%	0%	34000000	0%	0%
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	Yes	Yes	Yes	B1	Yes	1900000	--	--	--	--	--	--	--	--	--	
VOCs	2-Chlorotoluene	95-49-8	ug/kg	No	No	Yes	--	Yes	3300	--	3300	0%	0%	--	--	--	500000	0%	0%
VOCs	2-Hexanone	591-78-6	ug/kg	Yes	Yes	Yes	--	Yes	20000	--	20000	0%	0%	--	--	--	2500000	0%	0%
VOCs	2-Propanol	67-63-0	ug/kg	No	No	No	--	Yes	9400	--	9400	0%	82%	1100000	0%	0%	1.1E+08	0%	0%
VOCs	4-Chlorotoluene	106-43-4	ug/kg	No	No	Yes	B3	Yes	2500	--	--	--	--	--	--	--	--	--	
VOCs	Acetone	67-64-1	ug/kg	No	No	Yes	--	Yes	15000	--	15000	0%	0%	34000	0%	0%	1.1E+08	0%	0%
VOCs	Acetonitrile	75-05-8	ug/kg	No	No	No	--	Yes	2800	--	2800	0%	30%	--	--	--	22000000	0%	0%
VOCs	Acrolein	107-02-8	ug/kg	No	No	No	--	Yes	310	--	2400	0%	29%	--	--	--	23000000	0%	0%
VOCs	Acrylonitrile	107-13-1	ug/kg	No	No	No	--	Yes	100	--	100	2%	43%	100	2%	43%	280000	0%	0%
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	No	No	No	--	Yes	0.21	--	--	--	--	--	--	--	--	--	
VOCs	Benzene	71-43-2	ug/kg	No	No	No	--	Yes	100	--	100	0.9%	14%	4000	0%	0%	220000	0%	0%
VOCs	Bromobenzene	108-86-1	ug/kg	No	No	Yes	B3	Yes	550	--	550	0%	0%	--	--	--	360000	0%	0%
VOCs	Bromodichloromethane	75-27-4	ug/kg	No	No	Yes	B3	Yes	1200	--	1600	0%	0%	--	--	--	280000	0%	0%
VOCs	Bromoform	75-25-2	ug/kg	No	No	Yes	B3	Yes	1600	--	1600	0%	0%	--	--	--	870000	0%	0%
VOCs	Bromomethane	74-83-9	ug/kg	No	No	No	--	Yes	200	--	200	0.8%	25%	700	0%	4%	1400000	0%	0%
VOCs	Carbon disulfide	75-15-0	ug/kg	No	No	Yes	B3	Yes	16000	--	16000	0%	0%	--	--	--	280000	0%	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	6200	0%	0%	36000	0%	0%	54000	0%	0%	100000	0%	0%	4.2E+08	0%	0%	440000
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	250000	0%	0%	3800000	0%	0%	12000000	0%	0%	28000000	0%	0%	6.7E+10	0%	0%	460000
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	4300	0%	0%	10000	0%	0%	10000	0%	0%	14000	0%	0%	54000000	0%	0%	53000
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	4600	0%	0%	17000	0%	0%	21000	0%	0%	44000	0%	0%	1.9E+08	0%	0%	180000
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	550000	0%	0%	1.8E+08	0%	0%	8.8E+08	0%	0%	2.1E+09	0%	0%	5.10E+12	0%	0%	550000
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	230000	0%	0%	2100000	0%	0%	5900000	0%	0%	14000000	0%	0%	3.3E+10	0%	0%	890000
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	62	0%	38%	1100	0%	0%	5300	0%	0%	13000	0%	0%	62000000	0%	0%	200000
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	4000	0%	0%	9200	0%	0%	9200	0%	0%	11000	0%	0%	20000000	0%	0%	830000
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	110000	0%	0%	21000000	0%	0%	5E+08	0%	0%	5E+08	0%	0%	8.2E+10	0%	0%	110000
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	1200	0%	0%	13000	0%	0%	13000	0%	0%	13000	0%	0%	13000000	0%	0%	1200
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	670	0%	0%	1700	0%	0%	1700	0%	0%	3300	0%	0%	14000000	0%	0%	92
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	210000	0%	0%	39000000	0%	0%	39000000	0%	0%	52000000	0%	0%	1E+11	0%	0%	210000
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	2100	0%	0%	6200	0%	0%	11000	0%	0%	26000	0%	0%	1.2E+08	0%	0%	91000
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	4000	0%	0%	25000	0%	0%	50000	0%	0%	110000	0%	0%	2.7E+08	0%	0%	140000
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	94000	0%	0%	16000000	0%	0%	3.8E+08	0%	0%	3.8E+08	0%	0%	8.2E+10	0%	0%	94000
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	26000	0%	0%	79000	0%	0%	79000	0%	0%	110000	0%	0%	2E+08	0%	0%	170000
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	1000	0%	0%	18000	0%	0%	68000	0%	0%	160000	0%	0%	7.8E+08	0%	0%	10000
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	19000	0%	0%	77000	0%	0%	77000	0%	0%	110000	0%	0%	4.5E+08	0%	0%	400000
VOCs	1,4-Dioxane	123-91-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	5.7E+08	0%	0%	530000
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chlorotoluene	95-49-8	ug/kg	270000	0%	0%	1200000	0%	0%	2900000	0%	0%	6300000	0%	0%	4.7E+09	0%	0%	500000
VOCs	2-Hexanone	591-78-6	ug/kg	990000	0%	0%	1100000	0%	0%	1100000	0%	0%	1400000	0%	0%	2.7E+09	0%	0%	2500000
VOCs	2-Propanol	67-63-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.5E+10	0%	0%	14000000
VOCs	4-Chlorotoluene	106-43-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Acetone	67-64-1	ug/kg	1.1E+08	0%	0%	1.3E+08	0%	0%	1.3E+08	0%	0%	1.9E+08	0%	0%	3.9E+11	0%	0%	23000000
VOCs	Acetonitrile	75-05-8	ug/kg	4800000	0%	0%	1600000	0%	0%	1600000	0%	0%	2100000	0%	0%	4E+09	0%	0%	4300000
VOCs	Acrolein	107-02-8	ug/kg	410	0%	100%	310	0%	100%	310	0%	100%	610	0%	48%	1300000	0%	0%	3600000
VOCs	Acrylonitrile	107-13-1	ug/kg	6600	0%	3%	5000	0%	6%	5100	0%	6%	10000	0%	0%	46000000	0%	0%	16000
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Benzene	71-43-2	ug/kg	1600	0%	0%	13000	0%	0%	34000	0%	0%	79000	0%	0%	3.8E+08	0%	0%	180000
VOCs	Bromobenzene	108-86-1	ug/kg	310000	0%	0%	450000	0%	0%	450000	0%	0%	450000	0%	0%	5.3E+08	0%	0%	540000
VOCs	Bromodichloromethane	75-27-4	ug/kg	1200	0%	0%	9100	0%	0%	9700	0%	0%	19000	0%	0%	84000000	0%	0%	110000
VOCs	Bromoform	75-25-2	ug/kg	150000	0%	0%	900000	0%	0%	900000	0%	0%	900000	0%	0%	2.8E+09	0%	0%	820000
VOCs	Bromomethane	74-83-9	ug/kg	860	0%	0.8%	11000	0%	0%	57000	0%	0%	140000	0%	0%	3.3E+08	0%	0%	320000
VOCs	Carbon disulfide	75-15-0	ug/kg	76000	0%	0%	1300000	0%	0%	7900000	0%	0%	19000000	0%	0%	4.7E+10	0%	0%	280000

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

				(D) Pathway-Specific Toxicity Screening Criteria															
Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	0%	0%	440000	0%	0%	6400	0%	0%	440000	0%	0%	33000	0%	0%	120000	0%
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	0%	0%	460000	0%	0%	4000	0%	0%	460000	0%	0%	460000	0%	0%	450000	0%
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	0%	0%	870000	0%	0%	700	0%	0%	94000	0%	0%	23000	0%	0%	34000	0%
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	0%	0%	920000	0%	0%	100	0%	26%	420000	0%	0%	24000	0%	0%	57000	0%
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	0%	0%	550000	0%	0%	550000	0%	0%	550000	0%	0%	550000	0%	0%	2.1E+08	0%
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	0%	0%	890000	0%	0%	50000	0%	0%	890000	0%	0%	430000	0%	0%	250000	0%
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	0%	0%	570000	0%	0%	140	0%	24%	220000	0%	0%	330	0%	5%	3700	0%
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	0%	0%	830000	0%	0%	2400	0%	0%	830000	0%	0%	7500	0%	0%	11000	0%
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	0%	0%	110000	0%	0%	2100	0%	0%	110000	0%	0%	110000	0%	0%	2500000	0%
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	0%	0%	1200	0%	0%	10	0%	93%	1200	0%	0%	1200	0%	0%	15000	0%
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	0%	26%	890000	0%	0%	20	0%	93%	500	0%	0%	3600	0%	0%	5800	0%
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	0%	0%	210000	0%	0%	14000	0%	0%	210000	0%	0%	210000	0%	0%	4600000	0%
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	0%	0%	1200000	0%	0%	100	0%	26%	380000	0%	0%	11000	0%	0%	21000	0%
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	0%	0%	550000	0%	0%	100	0%	26%	320000	0%	0%	7400	0%	0%	30000	0%
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	0%	0%	94000	0%	0%	1800	0%	0%	94000	0%	0%	94000	0%	0%	1900000	0%
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	0%	0%	170000	0%	0%	480	0%	1%	51000	0%	0%	48000	0%	0%	94000	0%
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	0%	0%	620000	0%	0%	700	0%	0%	110000	0%	0%	5400	0%	0%	60000	0%
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	0%	0%	--	--	--	1700	0%	0%	140000	0%	0%	100000	0%	0%	260000	0%
VOCs	1,4-Dioxane	123-91-1	ug/kg	0%	0%	97000000	0%	0%	7000	0%	28%	34000000	0%	0%	--	--	--	--	--
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	--	--	1900000	0%	0%	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chlorotoluene	95-49-8	ug/kg	0%	0%	500000	0%	0%	9300	0%	0%	500000	0%	0%	500000	0%	0%	150000	0%
VOCs	2-Hexanone	591-78-6	ug/kg	0%	0%	2500000	0%	0%	58000	0%	0%	2500000	0%	0%	1800000	0%	0%	1300000	0%
VOCs	2-Propanol	67-63-0	ug/kg	0%	0%	1.1E+08	0%	0%	26000	0%	0%	1.1E+08	0%	0%	--	--	--	--	--
VOCs	4-Chlorotoluene	106-43-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Acetone	67-64-1	ug/kg	0%	0%	1.1E+08	0%	0%	42000	0%	0%	1.1E+08	0%	0%	11000000	0%	0%	1.6E+08	0%
VOCs	Acetonitrile	75-05-8	ug/kg	0%	0%	22000000	0%	0%	8000	0%	3%	2200000	0%	0%	8800000	0%	0%	1900000	0%
VOCs	Acrolein	107-02-8	ug/kg	0%	0%	23000000	0%	0%	6600	0%	6%	2300000	0%	0%	760	0%	35%	370	0%
VOCs	Acrylonitrile	107-13-1	ug/kg	0%	0%	8300000	0%	0%	220	1%	43%	280000	0%	0%	35000	0%	0%	17000	0%
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Benzene	71-43-2	ug/kg	0%	0%	400000	0%	0%	100	0.9%	14%	220000	0%	0%	8400	0%	0%	45000	0%
VOCs	Bromobenzene	108-86-1	ug/kg	0%	0%	760000	0%	0%	1500	0%	0%	360000	0%	0%	580000	0%	0%	540000	0%
VOCs	Bromodichloromethane	75-27-4	ug/kg	0%	0%	1500000	0%	0%	1600	0%	0%	280000	0%	0%	6400	0%	0%	31000	0%
VOCs	Bromoform	75-25-2	ug/kg	0%	0%	870000	0%	0%	1600	0%	0%	870000	0%	0%	770000	0%	0%	310000	0%
VOCs	Bromomethane	74-83-9	ug/kg	0%	0%	2200000	0%	0%	580	0%	10%	1400000	0%	0%	1600	0%	0%	13000	0%
VOCs	Carbon disulfide	75-15-0	ug/kg	0%	0%	280000	0%	0%	46000	0%	0%	280000	0%	0%	140000	0%	0%	160000	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	31000	0%	0%
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	0%	210000	0%	0%	330000	0%	0%	5.3E+08	0%	0%	440000	0%	0%	--	--	--
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	0%	15000000	0%	0%	31000000	0%	0%	2.9E+10	0%	0%	460000	0%	0%	--	--	--
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	0%	34000	0%	0%	34000	0%	0%	68000000	0%	0%	240000	0%	0%	--	--	--
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	0%	57000	0%	0%	120000	0%	0%	2.5E+08	0%	0%	840000	0%	0%	--	--	--
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	0%	8.9E+08	0%	0%	2.1E+09	0%	0%	2.30E+12	0%	0%	550000	0%	0%	--	--	--
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	0%	6000000	0%	0%	14000000	0%	0%	1.5E+10	0%	0%	890000	0%	0%	--	--	--
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	0%	15000	0%	0%	37000	0%	0%	78000000	0%	0%	570000	0%	0%	--	--	--
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	0%	11000	0%	0%	12000	0%	0%	8800000	0%	0%	830000	0%	0%	--	--	--
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	0%	6E+08	0%	0%	6E+08	0%	0%	3.6E+10	0%	0%	110000	0%	0%	--	--	--
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	0%	15000	0%	0%	15000	0%	0%	5900000	0%	0%	1200	0%	0%	--	--	--
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	0%	5800	0%	0%	9800	0%	0%	18000000	0%	0%	430	0%	0.8%	--	--	--
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	0%	46000000	0%	0%	55000000	0%	0%	4.4E+10	0%	0%	210000	0%	0%	--	--	--
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	0%	33000	0%	0%	74000	0%	0%	1.5E+08	0%	0%	420000	0%	0%	--	--	--
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	0%	51000	0%	0%	120000	0%	0%	1.2E+08	0%	0%	550000	0%	0%	--	--	--
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	0%	4.6E+08	0%	0%	4.6E+08	0%	0%	3.6E+10	0%	0%	94000	0%	0%	--	--	--
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	0%	94000	0%	0%	110000	0%	0%	88000000	0%	0%	170000	0%	0%	--	--	--
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	1600000	0%	0%
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	0%	200000	0%	0%	470000	0%	0%	5.9E+08	0%	0%	240000	0%	0%	--	--	--
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	0%	260000	0%	0%	340000	0%	0%	5.7E+08	0%	0%	1900000	0%	0%	--	--	--
VOCs	1,4-Dioxane	123-91-1	ug/kg	--	--	--	--	--	--	--	7.1E+08	0%	0%	2400000	0%	0%	--	--	--
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	2-Chlorotoluene	95-49-8	ug/kg	0%	3100000	0%	0%	6400000	0%	0%	2.1E+09	0%	0%	500000	0%	0%	--	--	--
VOCs	2-Hexanone	591-78-6	ug/kg	0%	1300000	0%	0%	1500000	0%	0%	1.2E+09	0%	0%	2500000	0%	0%	--	--	--
VOCs	2-Propanol	67-63-0	ug/kg	--	--	--	--	--	--	--	6.5E+09	0%	0%	47000000	0%	0%	--	--	--
VOCs	4-Chlorotoluene	106-43-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	5500000	0%	0%
VOCs	Acetone	67-64-1	ug/kg	0%	1.6E+08	0%	0%	2E+08	0%	0%	1.7E+11	0%	0%	73000000	0%	0%	--	--	--
VOCs	Acetonitrile	75-05-8	ug/kg	0%	1900000	0%	0%	2200000	0%	0%	1.8E+09	0%	0%	14000000	0%	0%	--	--	--
VOCs	Acrolein	107-02-8	ug/kg	100%	370	0%	100%	630	0%	45%	590000	0%	0%	12000000	0%	0%	--	--	--
VOCs	Acrylonitrile	107-13-1	ug/kg	0%	17000	0%	0%	31000	0%	0%	58000000	0%	0%	74000	0%	0%	--	--	--
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	680	0%	0%
VOCs	Benzene	71-43-2	ug/kg	0%	99000	0%	0%	230000	0%	0%	4.7E+08	0%	0%	400000	0%	0%	--	--	--
VOCs	Bromobenzene	108-86-1	ug/kg	0%	540000	0%	0%	540000	0%	0%	2.4E+08	0%	0%	760000	0%	0%	--	--	--
VOCs	Bromodichloromethane	75-27-4	ug/kg	0%	31000	0%	0%	57000	0%	0%	1.1E+08	0%	0%	490000	0%	0%	--	--	--
VOCs	Bromoform	75-25-2	ug/kg	0%	3100000	0%	0%	3100000	0%	0%	3.6E+09	0%	0%	870000	0%	0%	--	--	--
VOCs	Bromomethane	74-83-9	ug/kg	0%	57000	0%	0%	140000	0%	0%	1.5E+08	0%	0%	1000000	0%	0%	--	--	--
VOCs	Carbon disulfide	75-15-0	ug/kg	0%	8000000	0%	0%	19000000	0%	0%	2.1E+10	0%	0%	280000	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
SVOCs	Tetraethyl Dithiopyrophosphate (Sulfotepp)	3689-24-5	ug/kg	310000	0%	0%	13	0%	100%	--	D4	--
SVOCs	trans-Nonachlor	39765-80-5	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,1,1-Trichloroethane	71-55-6	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,1,2-Trichloroethane	79-00-5	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,1,2-Trichlorotrifluoroethane	76-13-1	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,1-Dichloroethane	75-34-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,1-Dichloroethene	75-35-4	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,1-Dichloropropene	563-58-6	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,2,3-Trichloropropane	96-18-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,2,3-Trimethylbenzene	526-73-8	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	1,2,4-Trimethylbenzene	95-63-6	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,2-Dibromoethane (EDB)	106-93-4	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,2-Dichlorobenzene	95-50-1	ug/kg	--	--	--	--	--	--	--	--	D5
VOCs	1,2-Dichloroethane	107-06-2	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,2-Dichloropropane	78-87-5	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,3,5-Trimethylbenzene	108-67-8	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	1,3-Dichlorobenzene	541-73-1	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	1,3-Dichloropropane	142-28-9	ug/kg	20000000	0%	0%	250	0%	50%	--	D4	--
VOCs	1,3-Dichloropropene, Total	542-75-6	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	1,4-Dichlorobenzene	106-46-7	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	1,4-Dioxane	123-91-1	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	2,2-Dichloropropane	594-20-7	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	2-Chloroethyl vinyl ether	110-75-8	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	2-Chlorotoluene	95-49-8	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	2-Hexanone	591-78-6	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	2-Propanol	67-63-0	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	4-Chlorotoluene	106-43-4	ug/kg	72000000	0%	0%	2500	0%	0%	--	--	--
VOCs	Acetone	67-64-1	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	Acetonitrile	75-05-8	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Acrolein	107-02-8	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Acrylonitrile	107-13-1	ug/kg	--	--	--	--	--	--	--	--	D5
VOCs	Allyl Chloride (3-Chloropropene)	107-05-1	ug/kg	3400	0%	0%	0.21	0%	100%	--	D4	--
VOCs	Benzene	71-43-2	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	Bromobenzene	108-86-1	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Bromodichloromethane	75-27-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Bromoform	75-25-2	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Bromomethane	74-83-9	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	Carbon disulfide	75-15-0	ug/kg	--	--	--	--	--	--	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics							(A) Background Screen	MDEQ Target Detection Levels	
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)		Group A?
VOCs	Carbon tetrachloride	56-23-5	ug/kg	23	72	0	28	123	2%	53.3	53.8	17	71	0.5	480	480	--	50
VOCs	Chlorobenzene	108-90-7	ug/kg	23	72	99	28	222	0.5%	40.9	146.4	2,100	2,100	0.5	480	480	--	50
VOCs	Chlorobromomethane	74-97-5	ug/kg	23	0	0	28	51	0%	--	--	--	--	0.5	480	480	--	100
VOCs	Chloroethane	75-00-3	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	970	970	--	250
VOCs	Chloroform	67-66-3	ug/kg	23	72	0	28	123	4%	53.7	53.7	27.5	88	0.5	480	480	--	50
VOCs	Chloromethane	74-87-3	ug/kg	23	72	0	28	123	2%	86.3	114.8	87	113	1	970	970	--	250
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	0	72	0	0	72	0%	--	--	--	--	436	3,090	3,090	--	--
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	23	0	0	28	51	0%	--	--	--	--	0.5	240	240	--	50
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50
VOCs	Cyclohexane	110-82-7	ug/kg	0	0	99	0	99	3%	7.16	15.24	11	137	10	10	10	--	--
VOCs	Cyclohexanone	108-94-1	ug/kg	0	0	0	28	28	0%	--	--	--	--	2,900	7,800	7,800	--	2500
VOCs	Dibromochloromethane	124-48-1	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	100
VOCs	Dibromomethane	74-95-3	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	250
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	23	72	0	28	123	0.8%	87.3	113.9	44.8	44.8	0.5	970	970	--	250
VOCs	Ethyl Benzene	100-41-4	ug/kg	23	72	0	28	123	10%	59.8	57.1	25.6	229	0.5	480	480	--	50
VOCs	Ethyl ether	60-29-7	ug/kg	23	0	0	28	51	0%	--	--	--	--	0.5	970	970	--	200
VOCs	Ethyl methacrylate	97-63-2	ug/kg	0	72	0	0	72	0%	--	--	--	--	62.7	618	618	--	--
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	0	0	99	0	99	0%	--	--	--	--	10	10	10	--	250
VOCs	Ethylene oxide	75-21-8	ug/kg	0	0	0	28	28	0%	--	--	--	--	110,000	290,000	290,000	--	10000
VOCs	Isobutanol	78-83-1	ug/kg	0	72	0	28	100	0%	--	--	--	--	4,360	30,900	30,900	--	4400
VOCs	Isopropyl Ether	108-20-3	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	30	30	--	250
VOCs	Isopropylbenzene	98-82-8	ug/kg	23	0	0	28	51	8%	85.9	69.7	8.6	110	0.5	480	480	--	250
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	23	72	0	28	123	0.8%	226	215	39	39	5	1,900	1,900	--	750
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	23	72	0	28	123	18%	62.7	74.8	52	542	0.5	480	480	--	100
VOCs	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/kg	23	72	0	28	123	3%	177	234	56	750	0.5	1,900	1,900	--	2500
VOCs	Methyl methacrylate	80-62-6	ug/kg	0	72	0	0	72	0%	--	--	--	--	87.3	618	618	--	--
VOCs	Methylacrylonitrile	126-98-7	ug/kg	0	72	0	0	72	0%	--	--	--	--	218	1,540	1,540	--	--
VOCs	Methylene Chloride	75-09-2	ug/kg	23	72	99	28	222	69%	284	326	6	2,175	0.5	762	762	--	100
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	23	0	0	0	23	0%	--	--	--	--	0.5	42	--	--	250
VOCs	Naphthalene	91-20-3	ug/kg	23	72	99	28	222	27%	201	493	31	7,200	127	2,300	970	--	330
VOCs	n-Butanol	71-36-3	ug/kg	0	0	0	28	28	0%	--	--	--	--	7,200	19,000	19,000	--	4400
VOCs	n-Butylbenzene	104-51-8	ug/kg	23	0	0	28	51	4%	86.0	69.8	84	99	0.5	480	480	--	50
VOCs	N-Propylbenzene	103-65-1	ug/kg	23	0	0	28	51	10%	87.2	70.3	6.3	170	0.5	480	480	--	100
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	23	0	0	0	23	17%	16.2	14.3	8.6	53	0.5	42	--	--	100
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	0	72	0	0	72	1%	630	346	506	506	873	6,180	6,180	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	23	0	0	28	51	6%	84.8	69.7	6.3	58	0.5	480	480	--	50
VOCs	Styrene	100-42-5	ug/kg	23	72	0	28	123	5%	56.9	54.9	17	157	0.5	480	480	--	50
VOCs	t-Butanol	75-65-0	ug/kg	0	0	99	0	99	0%	--	--	--	--	110	110	110	--	2500
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	0	0	99	0	99	0%	--	--	--	--	30	30	30	--	250
VOCs	tert-Butylbenzene	98-06-6	ug/kg	23	0	0	28	51	2%	83.5	70.8	37	37	0.5	480	480	--	50
VOCs	Tetrachloroethene	127-18-4	ug/kg	23	72	99	28	222	5%	45.9	146.7	5	2,100	0.5	480	480	--	50

**Table 5-2
Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations**

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria			Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?									
VOCs	Carbon tetrachloride	56-23-5	ug/kg	No	No	No	--	Yes	100	--	100	0%	26%	900	0%	0%	92000	0%	0%
VOCs	Chlorobenzene	108-90-7	ug/kg	No	No	Yes	--	Yes	500	--	2000	0.5%	0%	500	0.5%	0%	260000	0%	0%
VOCs	Chlorobromomethane	74-97-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
VOCs	Chloroethane	75-00-3	ug/kg	No	No	Yes	B3	Yes	8600	--	8600	0%	0%	22000	0%	0%	950000	0%	0%
VOCs	Chloroform	67-66-3	ug/kg	No	No	Yes	--	Yes	1600	--	1600	0%	0%	7000	0%	0%	1500000	0%	0%
VOCs	Chloromethane	74-87-3	ug/kg	No	No	Yes	--	Yes	2300	--	5200	0%	0%	--	--	--	1100000	0%	0%
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	No	No	No	--	Yes	0.0085	--	--	--	--	--	--	--	--	--	--
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	No	No	Yes	B3	Yes	1400	--	1400	0%	0%	12000	0%	0%	640000	0%	0%
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexane	110-82-7	ug/kg	No	No	Yes	--	Yes	13000	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexanone	108-94-1	ug/kg	No	No	Yes	B3	Yes	17000	--	5200000	0%	0%	--	--	--	2.2E+08	0%	0%
VOCs	Dibromochloromethane	124-48-1	ug/kg	No	No	Yes	B3	Yes	1600	--	1600	0%	0%	--	--	--	360000	0%	0%
VOCs	Dibromomethane	74-95-3	ug/kg	No	No	Yes	B3	Yes	1600	--	1600	0%	0%	--	--	--	2000000	0%	0%
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	No	No	Yes	--	Yes	95000	--	95000	0%	0%	--	--	--	1000000	0%	0%
VOCs	Ethyl Benzene	100-41-4	ug/kg	No	No	No	--	Yes	360	--	1500	0%	0%	360	0%	3%	140000	0%	0%
VOCs	Ethyl ether	60-29-7	ug/kg	No	No	No	--	Yes	200	--	200	0%	55%	--	--	--	7400000	0%	0%
VOCs	Ethyl methacrylate	97-63-2	ug/kg	No	No	Yes	B3	Yes	770	--	--	--	--	--	--	--	--	--	--
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	Yes	Yes	Yes	B1	Yes	980	--	980	0%	0%	--	--	--	--	--	--
VOCs	Ethylene oxide	75-21-8	ug/kg	No	No	No	--	Yes	0.0091	--	--	--	--	--	--	--	--	--	--
VOCs	Isobutanol	78-83-1	ug/kg	No	No	Yes	B3	Yes	46000	--	46000	0%	0%	--	--	--	8900000	0%	0%
VOCs	Isopropyl Ether	108-20-3	ug/kg	Yes	Yes	Yes	B1	Yes	600	--	600	0%	0%	--	--	--	1300	0%	0%
VOCs	Isopropylbenzene	98-82-8	ug/kg	No	No	Yes	--	Yes	3200	--	91000	0%	0%	3200	0%	0%	390000	0%	0%
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	No	No	Yes	--	Yes	44000	--	260000	0%	0%	44000	0%	0%	27000000	0%	0%
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	No	No	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
VOCs	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/kg	Yes	Yes	Yes	--	Yes	36000	--	36000	0%	0%	--	--	--	2700000	0%	0%
VOCs	Methyl methacrylate	80-62-6	ug/kg	No	No	No	--	Yes	310	--	--	--	--	--	--	--	--	--	--
VOCs	Methylacrylonitrile	126-98-7	ug/kg	No	No	No	--	Yes	0.24	--	--	--	--	--	--	--	--	--	--
VOCs	Methylene Chloride	75-09-2	ug/kg	No	No	No	--	Yes	100	--	100	58%	21%	30000	0%	0%	2300000	0%	0%
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	Yes	Yes	Yes	B1	Yes	800	--	800	0%	0%	140000	0%	0%	5900000	0%	0%
VOCs	Naphthalene	91-20-3	ug/kg	No	No	No	--	Yes	730	--	35000	0%	0%	730	0.9%	3%	2100000	0%	0%
VOCs	n-Butanol	71-36-3	ug/kg	No	No	Yes	B3	Yes	19000	--	19000	0%	0%	--	--	--	8700000	0%	0%
VOCs	n-Butylbenzene	104-51-8	ug/kg	No	No	Yes	--	Yes	1600	--	1600	0%	0%	--	--	--	120000	0%	0%
VOCs	N-Propylbenzene	103-65-1	ug/kg	No	No	Yes	--	Yes	1600	--	1600	0%	0%	--	--	--	300000	0%	0%
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	Yes	Yes	Yes	--	No	--	C2	--	--	--	--	--	--	--	--	--
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	No	No	Yes	--	No	--	C1	--	--	--	--	--	--	--	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	No	No	Yes	--	Yes	1600	--	1600	0%	0%	--	--	--	88000	0%	0%
VOCs	Styrene	100-42-5	ug/kg	No	No	Yes	--	Yes	2100	--	2700	0%	0%	2100	0%	0%	270000	0%	0%
VOCs	t-Butanol	75-65-0	ug/kg	Yes	Yes	Yes	B1	Yes	78000	--	78000	0%	0%	--	--	--	1.1E+08	0%	0%
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	Yes	Yes	Yes	B1	Yes	3900	--	3900	0%	0%	--	--	--	440000	0%	0%
VOCs	tert-Butylbenzene	98-06-6	ug/kg	No	No	Yes	--	Yes	1600	--	1600	0%	0%	--	--	--	180000	0%	0%
VOCs	Tetrachloroethene	127-18-4	ug/kg	No	No	No	--	Yes	100	--	100	2%	14%	1200	0.5%	0%	88000	0%	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
VOCs	Carbon tetrachloride	56-23-5	ug/kg	190	0%	23%	3500	0%	0%	12000	0%	0%	28000	0%	0%	1.3E+08	0%	0%	96000
VOCs	Chlorobenzene	108-90-7	ug/kg	120000	0%	0%	770000	0%	0%	990000	0%	0%	2100000	0%	0%	4.7E+09	0%	0%	260000
VOCs	Chlorobromomethane	74-97-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Chloroethane	75-00-3	ug/kg	950000	0%	0%	3000000	0%	0%	1.2E+08	0%	0%	2.8E+08	0%	0%	6.7E+11	0%	0%	950000
VOCs	Chloroform	67-66-3	ug/kg	7200	0%	0%	45000	0%	0%	120000	0%	0%	270000	0%	0%	1.3E+09	0%	0%	1200000
VOCs	Chloromethane	74-87-3	ug/kg	2300	0%	0%	40000	0%	0%	410000	0%	0%	1000000	0%	0%	4.9E+09	0%	0%	1100000
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	22000	0%	0%	180000	0%	0%	420000	0%	0%	990000	0%	0%	2.3E+09	0%	0%	640000
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexane	110-82-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexanone	108-94-1	ug/kg	17000	0%	0%	1000000	0%	0%	11000000	0%	0%	27000000	0%	0%	6.7E+10	0%	0%	2.2E+08
VOCs	Dibromochloromethane	124-48-1	ug/kg	3900	0%	0%	24000	0%	0%	24000	0%	0%	33000	0%	0%	1.3E+08	0%	0%	110000
VOCs	Dibromomethane	74-95-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2000000
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	900000	0%	0%	5300000	0%	0%	5.5E+08	0%	0%	1.4E+09	0%	0%	3.30E+12	0%	0%	1000000
VOCs	Ethyl Benzene	100-41-4	ug/kg	87000	0%	0%	720000	0%	0%	1000000	0%	0%	2200000	0%	0%	1E+10	0%	0%	140000
VOCs	Ethyl ether	60-29-7	ug/kg	7400000	0%	0%	8500000	0%	0%	1.5E+08	0%	0%	3.4E+08	0%	0%	8E+11	0%	0%	7400000
VOCs	Ethyl methacrylate	97-63-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	540000	0%	0%	1900000	0%	0%	4500000	0%	0%	11000000	0%	0%	2.5E+10	0%	0%	--
VOCs	Ethylene oxide	75-21-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Isobutanol	78-83-1	ug/kg	8900000	0%	0%	79000000	0%	0%	79000000	0%	0%	79000000	0%	0%	1E+11	0%	0%	8900000
VOCs	Isopropyl Ether	108-20-3	ug/kg	1300	0%	0%	340000	0%	0%	760000	0%	0%	1800000	0%	0%	4.1E+09	0%	0%	1300
VOCs	Isopropylbenzene	98-82-8	ug/kg	390000	0%	0%	1700000	0%	0%	1700000	0%	0%	2800000	0%	0%	5.8E+09	0%	0%	390000
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	27000000	0%	0%	29000000	0%	0%	29000000	0%	0%	35000000	0%	0%	6.7E+10	0%	0%	27000000
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/kg	2700000	0%	0%	4500000	0%	0%	4500000	0%	0%	6700000	0%	0%	1.4E+11	0%	0%	2700000
VOCs	Methyl methacrylate	80-62-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methylacrylonitrile	126-98-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methylene Chloride	75-09-2	ug/kg	45000	0%	0%	210000	0%	0%	590000	0%	0%	1400000	0%	0%	6.6E+09	0%	0%	1300000
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	5900000	0%	0%	25000000	0%	0%	39000000	0%	0%	87000000	0%	0%	2E+11	0%	0%	1500000
VOCs	Naphthalene	91-20-3	ug/kg	250000	0%	0%	300000	0%	0%	300000	0%	0%	300000	0%	0%	2E+08	0%	0%	1600000
VOCs	n-Butanol	71-36-3	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	2.3E+10	0%	0%	8700000
VOCs	n-Butylbenzene	104-51-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	2E+09	0%	0%	2500000
VOCs	N-Propylbenzene	103-65-1	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	1.3E+09	0%	0%	2500000
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	4E+08	0%	0%	2500000
VOCs	Styrene	100-42-5	ug/kg	250000	0%	0%	970000	0%	0%	970000	0%	0%	1400000	0%	0%	5.5E+09	0%	0%	400000
VOCs	t-Butanol	75-65-0	ug/kg	1.1E+08	0%	0%	9700000	0%	0%	2E+08	0%	0%	2E+08	0%	0%	1.3E+11	0%	0%	1.1E+08
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	58000	0%	0%	340000	0%	0%	760000	0%	0%	1800000	0%	0%	4.1E+09	0%	0%	440000
VOCs	tert-Butylbenzene	98-06-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	6.7E+08	0%	0%	2500000
VOCs	Tetrachloroethene	127-18-4	ug/kg	11000	0%	0%	180000	0%	0%	480000	0%	0%	1100000	0%	0%	5.4E+09	0%	0%	88000

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(D) Pathway-Specific Toxicity Screening Criteria															
				Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
VOCs	Carbon tetrachloride	56-23-5	ug/kg	0%	0%	390000	0%	0%	100	0%	26%	92000	0%	0%	990	0%	0%	12000	0%
VOCs	Chlorobenzene	108-90-7	ug/kg	0%	0%	260000	0%	0%	2000	0.5%	0%	260000	0%	0%	220000	0%	0%	920000	0%
VOCs	Chlorobromomethane	74-97-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Chloroethane	75-00-3	ug/kg	0%	0%	950000	0%	0%	34000	0%	0%	950000	0%	0%	950000	0%	0%	36000000	0%
VOCs	Chloroform	67-66-3	ug/kg	0%	0%	1500000	0%	0%	1600	0%	0%	1500000	0%	0%	38000	0%	0%	150000	0%
VOCs	Chloromethane	74-87-3	ug/kg	0%	0%	1100000	0%	0%	22000	0%	0%	1100000	0%	0%	10000	0%	0%	120000	0%
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	0%	0%	640000	0%	0%	1400	0%	0%	640000	0%	0%	41000	0%	0%	210000	0%
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexane	110-82-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexanone	108-94-1	ug/kg	0%	0%	2.2E+08	0%	0%	15000000	0%	0%	2.2E+08	0%	0%	32000	0%	0%	1300000	0%
VOCs	Dibromochloromethane	124-48-1	ug/kg	0%	0%	610000	0%	0%	1600	0%	0%	360000	0%	0%	21000	0%	0%	80000	0%
VOCs	Dibromomethane	74-95-3	ug/kg	0%	0%	2000000	0%	0%	4600	0%	0%	2000000	0%	0%	--	--	--	--	--
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	0%	0%	1000000	0%	0%	270000	0%	0%	1000000	0%	0%	1700000	0%	0%	63000000	0%
VOCs	Ethyl Benzene	100-41-4	ug/kg	0%	0%	140000	0%	0%	1500	0%	0%	140000	0%	0%	140000	0%	0%	2400000	0%
VOCs	Ethyl ether	60-29-7	ug/kg	0%	0%	7400000	0%	0%	200	0%	55%	7400000	0%	0%	7400000	0%	0%	1E+08	0%
VOCs	Ethyl methacrylate	97-63-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	--	--	650000	0%	0%	980	0%	0%	--	--	--	650000	0%	0%	2300000	0%
VOCs	Ethylene oxide	75-21-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Isobutanol	78-83-1	ug/kg	0%	0%	8900000	0%	0%	130000	0%	0%	8900000	0%	0%	8900000	0%	0%	95000000	0%
VOCs	Isopropyl Ether	108-20-3	ug/kg	0%	0%	1300	0%	0%	1300	0%	0%	1300	0%	0%	1300	0%	0%	3200000	0%
VOCs	Isopropylbenzene	98-82-8	ug/kg	0%	0%	390000	0%	0%	260000	0%	0%	390000	0%	0%	390000	0%	0%	2000000	0%
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	0%	0%	27000000	0%	0%	760000	0%	0%	27000000	0%	0%	27000000	0%	0%	35000000	0%
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/kg	0%	0%	2700000	0%	0%	100000	0%	0%	2700000	0%	0%	2700000	0%	0%	53000000	0%
VOCs	Methyl methacrylate	80-62-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methylacrylonitrile	126-98-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methylene Chloride	75-09-2	ug/kg	0%	0%	2300000	0%	0%	100	58%	21%	2300000	0%	0%	240000	0%	0%	700000	0%
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	0%	0%	5900000	0%	0%	800	0%	0%	5900000	0%	0%	5900000	0%	0%	30000000	0%
VOCs	Naphthalene	91-20-3	ug/kg	0%	0%	--	--	--	100000	0%	0%	2100000	0%	0%	470000	0%	0%	350000	0%
VOCs	n-Butanol	71-36-3	ug/kg	0%	0%	8700000	0%	0%	54000	0%	0%	8700000	0%	0%	--	--	--	--	--
VOCs	n-Butylbenzene	104-51-8	ug/kg	0%	0%	10000000	0%	0%	4600	0%	0%	120000	0%	0%	--	--	--	--	--
VOCs	N-Propylbenzene	103-65-1	ug/kg	0%	0%	10000000	0%	0%	4600	0%	0%	300000	0%	0%	--	--	--	--	--
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	0%	0%	10000000	0%	0%	4600	0%	0%	88000	0%	0%	--	--	--	--	--
VOCs	Styrene	100-42-5	ug/kg	0%	0%	520000	0%	0%	2700	0%	0%	270000	0%	0%	520000	0%	0%	3300000	0%
VOCs	t-Butanol	75-65-0	ug/kg	0%	0%	1.1E+08	0%	0%	220000	0%	0%	1.1E+08	0%	0%	1.1E+08	0%	0%	1.2E+08	0%
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	0%	0%	440000	0%	0%	3900	0%	0%	440000	0%	0%	110000	0%	0%	400000	0%
VOCs	tert-Butylbenzene	98-06-6	ug/kg	0%	0%	10000000	0%	0%	4600	0%	0%	180000	0%	0%	--	--	--	--	--
VOCs	Tetrachloroethene	127-18-4	ug/kg	0%	0%	88000	0%	0%	100	2%	14%	88000	0%	0%	60000	0%	0%	600000	0%

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
VOCs	Carbon tetrachloride	56-23-5	ug/kg	0%	34000	0%	0%	79000	0%	0%	1.7E+08	0%	0%	390000	0%	0%	--	--	--
VOCs	Chlorobenzene	108-90-7	ug/kg	0%	1100000	0%	0%	2100000	0%	0%	2.1E+09	0%	0%	260000	0%	0%	--	--	--
VOCs	Chlorobromomethane	74-97-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Chloroethane	75-00-3	ug/kg	0%	1.2E+08	0%	0%	2.8E+08	0%	0%	2.9E+11	0%	0%	950000	0%	0%	--	--	--
VOCs	Chloroform	67-66-3	ug/kg	0%	340000	0%	0%	790000	0%	0%	1.6E+09	0%	0%	1500000	0%	0%	--	--	--
VOCs	Chloromethane	74-87-3	ug/kg	0%	1000000	0%	0%	2500000	0%	0%	2.6E+09	0%	0%	1100000	0%	0%	--	--	--
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	9.4	0%	100%
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	0%	430000	0%	0%	1000000	0%	0%	1E+09	0%	0%	640000	0%	0%	--	--	--
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexane	110-82-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	7000000	0%	0%
VOCs	Cyclohexanone	108-94-1	ug/kg	0%	11000000	0%	0%	27000000	0%	0%	2.9E+10	0%	0%	2.2E+08	0%	0%	--	--	--
VOCs	Dibromochloromethane	124-48-1	ug/kg	0%	80000	0%	0%	98000	0%	0%	1.6E+08	0%	0%	500000	0%	0%	--	--	--
VOCs	Dibromomethane	74-95-3	ug/kg	--	--	--	--	--	--	--	--	--	--	2000000	0%	0%	--	--	--
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	0%	5.5E+08	0%	0%	1.4E+09	0%	0%	1.50E+12	0%	0%	1000000	0%	0%	--	--	--
VOCs	Ethyl Benzene	100-41-4	ug/kg	0%	3100000	0%	0%	6500000	0%	0%	1.3E+10	0%	0%	140000	0%	0%	--	--	--
VOCs	Ethyl ether	60-29-7	ug/kg	0%	1.6E+08	0%	0%	3.5E+08	0%	0%	3.5E+11	0%	0%	7400000	0%	0%	--	--	--
VOCs	Ethyl methacrylate	97-63-2	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	7000000	0%	0%
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	0%	4600000	0%	0%	11000000	0%	0%	1.1E+10	0%	0%	--	--	--	--	--	--
VOCs	Ethylene oxide	75-21-8	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	170	0%	100%
VOCs	Isobutanol	78-83-1	ug/kg	0%	95000000	0%	0%	95000000	0%	0%	4.4E+10	0%	0%	8900000	0%	0%	--	--	--
VOCs	Isopropyl Ether	108-20-3	ug/kg	0%	4800000	0%	0%	10000000	0%	0%	1.1E+10	0%	0%	1300	0%	0%	--	--	--
VOCs	Isopropylbenzene	98-82-8	ug/kg	0%	2000000	0%	0%	3000000	0%	0%	2.6E+09	0%	0%	390000	0%	0%	--	--	--
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	0%	35000000	0%	0%	36000000	0%	0%	2.9E+10	0%	0%	27000000	0%	0%	--	--	--
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	ug/kg	0%	53000000	0%	0%	70000000	0%	0%	6E+10	0%	0%	2700000	0%	0%	--	--	--
VOCs	Methyl methacrylate	80-62-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	4800000	0%	0%
VOCs	Methylacrylonitrile	126-98-7	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	3200	0%	0%
VOCs	Methylene Chloride	75-09-2	ug/kg	0%	1700000	0%	0%	4000000	0%	0%	8.3E+09	0%	0%	2300000	0%	0%	--	--	--
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	0%	41000000	0%	0%	89000000	0%	0%	8.8E+10	0%	0%	5900000	0%	0%	--	--	--
VOCs	Naphthalene	91-20-3	ug/kg	0%	350000	0%	0%	350000	0%	0%	88000000	0%	0%	52000000	0%	0%	--	--	--
VOCs	n-Butanol	71-36-3	ug/kg	--	--	--	--	--	--	--	1E+10	0%	0%	8700000	0%	0%	--	--	--
VOCs	n-Butylbenzene	104-51-8	ug/kg	--	--	--	--	--	--	--	8.8E+08	0%	0%	8000000	0%	0%	--	--	--
VOCs	N-Propylbenzene	103-65-1	ug/kg	--	--	--	--	--	--	--	5.9E+08	0%	0%	8000000	0%	0%	--	--	--
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	--	--	--	--	--	--	--	1.8E+08	0%	0%	8000000	0%	0%	--	--	--
VOCs	Styrene	100-42-5	ug/kg	0%	3300000	0%	0%	4200000	0%	0%	6.9E+09	0%	0%	520000	0%	0%	--	--	--
VOCs	t-Butanol	75-65-0	ug/kg	0%	2.4E+08	0%	0%	2.4E+08	0%	0%	5.6E+10	0%	0%	1.1E+08	0%	0%	--	--	--
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	0%	780000	0%	0%	1800000	0%	0%	1.8E+09	0%	0%	440000	0%	0%	--	--	--
VOCs	tert-Butylbenzene	98-06-6	ug/kg	--	--	--	--	--	--	--	2.9E+08	0%	0%	8000000	0%	0%	--	--	--
VOCs	Tetrachloroethene	127-18-4	ug/kg	0%	1400000	0%	0%	3300000	0%	0%	6.8E+09	0%	0%	88000	0%	0%	--	--	--

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
VOCs	Carbon tetrachloride	56-23-5	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Chlorobenzene	108-90-7	ug/kg	--	--	--	--	--	--	--	--	D5
VOCs	Chlorobromomethane	74-97-5	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Chloroethane	75-00-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Chloroform	67-66-3	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Chloromethane	74-87-3	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Chloroprene (2-Chloro-1,3-Butadiene)	126-99-8	ug/kg	47	0%	100%	0.0085	0%	100%	--	D4	--
VOCs	cis-1,2-Dichloroethene	156-59-2	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	cis-1,3-Dichloropropene	10061-01-5	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Cyclohexane	110-82-7	ug/kg	29000000	0%	0%	13000	0%	0%	D2	--	--
VOCs	Cyclohexanone	108-94-1	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Dibromochloromethane	124-48-1	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Dibromomethane	74-95-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Dichlorodifluoromethane	75-71-8	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Ethyl Benzene	100-41-4	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Ethyl ether	60-29-7	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Ethyl methacrylate	97-63-2	ug/kg	92000000	0%	0%	770	0%	0%	--	--	--
VOCs	Ethyl tert-Butyl Ether	637-92-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Ethylene oxide	75-21-8	ug/kg	830	0%	100%	0.0091	0%	100%	--	D4	--
VOCs	Isobutanol	78-83-1	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Isopropyl Ether	108-20-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Isopropylbenzene	98-82-8	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	Methyl Ethyl Ketone (2-Butanone)	78-93-3	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Methyl Iodide (Iodomethane)	74-88-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Methyl Isobutyl Ketone (4-Methyl 2-Pentanone)	108-10-1	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Methyl methacrylate	80-62-6	ug/kg	21000000	0%	0%	310	0%	1%	--	D4	--
VOCs	Methylacrylonitrile	126-98-7	ug/kg	18000	0%	0%	0.24	0%	100%	--	D4	--
VOCs	Methylene Chloride	75-09-2	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	Methyl-t-butyl ether	1634-04-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Naphthalene	91-20-3	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	n-Butanol	71-36-3	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	n-Butylbenzene	104-51-8	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	N-Propylbenzene	103-65-1	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	p-Isopropyltoluene	99-87-6	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Propionitrile, Ethyl Cyanide	107-12-0	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	sec-Butylbenzene	135-98-8	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	Styrene	100-42-5	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	t-Butanol	75-65-0	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	tert-Amyl Methyl Ether	994-05-8	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	tert-Butylbenzene	98-06-6	ug/kg	--	--	--	--	--	--	D2	--	--
VOCs	Tetrachloroethene	127-18-4	ug/kg	--	--	--	--	--	--	--	--	D5

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Number of Samples					Summary Statistics									(A) Background Screen	MDEQ Target Detection Levels
				No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	Max RL of NDs (Off-site)	Group A?		
VOCs	Tetrahydrofuran	109-99-9	ug/kg	23	0	0	28	51	16%	332	284	78	180	25.5	1,900	1,900	--	1000	
VOCs	Toluene	108-88-3	ug/kg	23	72	99	28	222	75%	434	1,181	4	7,010	25.5	480	480	--	100	
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	309	309	--	50	
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	50	
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	480	480	--	--	
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	23	72	0	28	123	2%	53.4	53.5	11	51	0.5	480	480	--	50	
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	970	970	--	100	
VOCs	Trihalomethanes, Total	STL00209	ug/kg	0	0	0	28	28	0%	--	--	--	--	180	480	480	--	--	
VOCs	Vinyl acetate	108-05-4	ug/kg	0	72	0	28	100	0%	--	--	--	--	43.6	970	970	--	5000	
VOCs	Vinyl chloride	75-01-4	ug/kg	23	72	0	28	123	0%	--	--	--	--	0.5	970	970	--	40	
VOCs	Xylenes, Total	1330-20-7	ug/kg	23	72	99	28	222	24%	92.8	160.2	10.05	1,470	1.5	926	926	--	150	
Notes:																			
If duplicates exist, the average of the duplicate results was used as a single data point.																			
Nondetects were substituted by half of reporting limit (RL) for the computation of summary statistics.																			
Laboratory QAQC results are not included.																			
Isomer:																			
When the lab reports a total for one of these "isomer" groups, use that value. If the lab reports only the individual constituents, add them together for the total to compare to criteria. (Use half of RL for NDs in the summation; unless otherwise noted.)																			
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m-Xylene. m and p-Xylenes are usually grouped together.																		
Endosulfan	Total Endosulfan is composed of Endosulfan I and Endosulfan II.																		
Cresol	Total Cresol or Methylphenol is composed of 2-Methylphenol (2-Cresol), 3-Methylphenol (3-Cresol, and 4-Methylphenol (4-Cresol). 3 and 4-Methylphenol are sometimes grouped together.																		
Chlordane	Total Chlordane is the sum of alpha-Chlordane and gamma-Chlordane (also called trans-Chlordane), as well as oxychlordane if such data are present.																		
PCBs	Total PCBs is the sum of all individual PCBs. (ND aroclors are substituted by zero in the summation.)																		

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	(B) Target Detection Level Screen				(C) Identify Criteria											
				Max RL of NDs < TDL	Max RL of NDs (Off-site) < TDL	Max RL of NDs < All Criteria	Group B?	Have Criteria?	Minimum Criteria	Group C?	Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Groundwater Surface Water Interface Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Groundwater Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)
VOCs	Tetrahydrofuran	109-99-9	ug/kg	No	No	No	--	Yes	1900	--	1900	0%	0%	220000	0%	0%	32000000	0%	0%
VOCs	Toluene	108-88-3	ug/kg	No	No	Yes	--	Yes	5400	--	16000	0%	0%	5400	2%	0%	250000	0%	0%
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	No	No	Yes	B3	Yes	2000	--	2000	0%	0%	30000	0%	0%	1400000	0%	0%
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	No	No	No	--	Yes	0.00054	--	--	--	--	--	--	--	--	--	--
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	No	No	No	--	Yes	100	--	100	0%	26%	4000	0%	0%	440000	0%	0%
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	No	No	Yes	B3	Yes	52000	--	52000	0%	0%	--	--	--	560000	0%	0%
VOCs	Trihalomethanes, Total	STL00209	ug/kg	No	No	Yes	B3	No	--	--	--	--	--	--	--	--	--	--	--
VOCs	Vinyl acetate	108-05-4	ug/kg	Yes	Yes	Yes	B1	Yes	13000	--	13000	0%	0%	--	--	--	2400000	0%	0%
VOCs	Vinyl chloride	75-01-4	ug/kg	No	No	No	--	Yes	40	--	40	0%	83%	260	0%	24%	20000	0%	0%
VOCs	Xylenes, Total	1330-20-7	ug/kg	No	No	No	--	Yes	820	--	5600	0%	0%	820	1%	0.5%	150000	0%	0%
Notes:																			
If duplicates exist, the average of the duplicate results was used as																			
Nondetects were substituted by half of reporting limit (RL) for the c																			
Laboratory QAQC results are not included.																			
Isomer:																			
When the lab reports a total for one of these "isomer" groups, use t																			
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m																		
Endosulfan	Total Endosulfan is composed of Endosulfan I and En																		
Cresol	Total Cresol or Methylphenol is composed of 2-Methyl																		
Chlordane	Total Chlordane is the sum of alpha-Chlordane and ga																		
PCBs	Total PCBs is the sum of all individual PCBs. (ND aro																		

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Residential Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Residential Direct Contact
VOCs	Tetrahydrofuran	109-99-9	ug/kg	1300000	0%	0%	13000000	0%	0%	67000000	0%	0%	1.6E+08	0%	0%	3.9E+11	0%	0%	2900000
VOCs	Toluene	108-88-3	ug/kg	250000	0%	0%	2800000	0%	0%	5100000	0%	0%	12000000	0%	0%	2.7E+10	0%	0%	250000
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	23000	0%	0%	280000	0%	0%	830000	0%	0%	2000000	0%	0%	4.7E+09	0%	0%	1400000
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	7100	0%	0%	78000	0%	0%	170000	0%	0%	390000	0%	0%	1.8E+09	0%	0%	500000
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	560000	0%	0%	92000000	0%	0%	6.3E+08	0%	0%	1.5E+09	0%	0%	3.80E+12	0%	0%	560000
VOCs	Trihalomethanes, Total	STL00209	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Vinyl acetate	108-05-4	ug/kg	790000	0%	0%	1700000	0%	0%	2600000	0%	0%	5800000	0%	0%	1.3E+10	0%	0%	2400000
VOCs	Vinyl chloride	75-01-4	ug/kg	270	0%	24%	4200	0%	0%	30000	0%	0%	73000	0%	0%	3.5E+08	0%	0%	3800
VOCs	Xylenes, Total	1330-20-7	ug/kg	150000	0%	0%	46000000	0%	0%	61000000	0%	0%	1.3E+08	0%	0%	2.9E+11	0%	0%	150000
Notes:																			
If duplicates exist, the average of the duplicate results was used as																			
Nondetects were substituted by half of reporting limit (RL) for the c																			
Laboratory QAQC results are not included.																			
Isomer:																			
When the lab reports a total for one of these "isomer" groups, use t																			
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m																		
Endosulfan	Total Endosulfan is composed of Endosulfan I and En																		
Cresol	Total Cresol or Methylphenol is composed of 2-Methyl																		
Chlordane	Total Chlordane is the sum of alpha-Chlordane and ga																		
PCBs	Total PCBs is the sum of all individual PCBs. (ND aro																		

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

				(D) Pathway-Specific Toxicity Screening Criteria															
Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Soil Saturation Screening Levels	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Drinking Water Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential GW Contact Protection	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Soil Volatilization to Indoor Air Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air	Percent Exceed (Detect)
VOCs	Tetrahydrofuran	109-99-9	ug/kg	0%	0%	1.2E+08	0%	0%	5400	0%	0%	32000000	0%	0%	2400000	0%	0%	15000000	0%
VOCs	Toluene	108-88-3	ug/kg	0%	0%	250000	0%	0%	16000	0%	0%	250000	0%	0%	250000	0%	0%	3300000	0%
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	0%	0%	1400000	0%	0%	2000	0%	0%	1400000	0%	0%	43000	0%	0%	330000	0%
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	0%	0%	500000	0%	0%	100	0%	26%	440000	0%	0%	37000	0%	0%	260000	0%
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	0%	0%	560000	0%	0%	150000	0%	0%	560000	0%	0%	560000	0%	0%	1.1E+08	0%
VOCs	Trihalomethanes, Total	STL00209	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Vinyl acetate	108-05-4	ug/kg	0%	0%	2400000	0%	0%	36000	0%	0%	2400000	0%	0%	1500000	0%	0%	2000000	0%
VOCs	Vinyl chloride	75-01-4	ug/kg	0%	0%	490000	0%	0%	40	0%	83%	20000	0%	0%	2800	0%	0%	29000	0%
VOCs	Xylenes, Total	1330-20-7	ug/kg	0%	0%	150000	0%	0%	5600	0%	0%	150000	0%	0%	150000	0%	0%	54000000	0%
Notes:																			
If duplicates exist, the average of the duplicate results was used as																			
Nondetects were substituted by half of reporting limit (RL) for the c																			
Laboratory QAQC results are not included.																			
Isomer:																			
When the lab reports a total for one of these "isomer" groups, use t																			
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m																		
Endosulfan	Total Endosulfan is composed of Endosulfan I and En																		
Cresol	Total Cresol or Methylphenol is composed of 2-Methyl																		
Chlordane	Total Chlordane is the sum of alpha-Chlordane and ga																		
PCBs	Total PCBs is the sum of all individual PCBs. (ND aro																		

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air1	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Volatilization to Ambient Air2	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Res Particulate Soil Inhalation	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Non-Residential Soil Direct Contact	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Residential Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)
VOCs	Tetrahydrofuran	109-99-9	ug/kg	0%	67000000	0%	0%	1.6E+08	0%	0%	1.7E+11	0%	0%	9500000	0%	0%	--	--	--
VOCs	Toluene	108-88-3	ug/kg	0%	36000000	0%	0%	36000000	0%	0%	1.2E+10	0%	0%	250000	0%	0%	--	--	--
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	0%	840000	0%	0%	2000000	0%	0%	2.1E+09	0%	0%	1400000	0%	0%	--	--	--
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	6.9	0%	93%
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	0%	440000	0%	0%	1100000	0%	0%	2.3E+09	0%	0%	500000	0%	0%	--	--	--
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	0%	1.4E+11	0%	0%	1.4E+11	0%	0%	1.70E+12	0%	0%	560000	0%	0%	--	--	--
VOCs	Trihalomethanes, Total	STL00209	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs	Vinyl acetate	108-05-4	ug/kg	0%	2700000	0%	0%	5900000	0%	0%	5.9E+09	0%	0%	2400000	0%	0%	--	--	--
VOCs	Vinyl chloride	75-01-4	ug/kg	0%	170000	0%	0%	420000	0%	0%	8.9E+08	0%	0%	34000	0%	0%	--	--	--
VOCs	Xylenes, Total	1330-20-7	ug/kg	0%	65000000	0%	0%	1.3E+08	0%	0%	1.3E+11	0%	0%	150000	0%	0%	--	--	--
Notes:																			
If duplicates exist, the average of the duplicate results was used as																			
Nondetects were substituted by half of reporting limit (RL) for the c																			
Laboratory QAQC results are not included.																			
Isomer:																			
When the lab reports a total for one of these "isomer" groups, use t																			
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m																		
Endosulfan	Total Endosulfan is composed of Endosulfan I and En																		
Cresol	Total Cresol or Methylphenol is composed of 2-Methyl																		
Chlordane	Total Chlordane is the sum of alpha-Chlordane and ga																		
PCBs	Total PCBs is the sum of all individual PCBs. (ND aro																		

Table 5-2

Summary Statistics and Comparison with Screening Criteria of Combined Results -- 2005/6 Dow On-site, 2006 COM Blind, 2010 Dow, and 2010 MDEQ Data, The Dow Chemical Company, Michigan Operations

Analyte Group	Analyte	CAS Number	Unit	EPA Industrial Soil	Percent Exceed (Detect)	Percent Exceed (Non-detect)	EPA Risk-Based SSL	Percent Exceed (Detect)	Percent Exceed (Non-detect)	Group D2 and D3?	Group D4?	Group D5 and D6?
VOCs	Tetrahydrofuran	109-99-9	ug/kg	--	--	--	--	--	--	D3	--	--
VOCs	Toluene	108-88-3	ug/kg	--	--	--	--	--	--	--	--	D6
VOCs	trans-1,2-Dichloroethene	156-60-5	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	trans-1,3-Dichloropropene	10061-02-6	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	trans-1,4-Dichloro-2-butene	110-57-6	ug/kg	35	0%	83%	0.00054	0%	100%	--	D4	--
VOCs	Trichloroethene (TCE)	79-01-6	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Trichlorofluoromethane	75-69-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Trihalomethanes, Total	STL00209	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Vinyl acetate	108-05-4	ug/kg	--	--	--	--	--	--	--	--	--
VOCs	Vinyl chloride	75-01-4	ug/kg	--	--	--	--	--	--	--	D4	--
VOCs	Xylenes, Total	1330-20-7	ug/kg	--	--	--	--	--	--	--	--	D6
Notes:												
If duplicates exist, the average of the duplicate results was used as												
Nondetects were substituted by half of reporting limit (RL) for the c												
Laboratory QAQC results are not included.												
Isomer:												
When the lab reports a total for one of these "isomer" groups, use t												
Xylenes	Total Xylenes is the total of o-Xylene, p-Xylene, and m											
Endosulfan	Total Endosulfan is composed of Endosulfan I and En											
Cresol	Total Cresol or Methylphenol is composed of 2-Methyl											
Chlordane	Total Chlordane is the sum of alpha-Chlordane and ga											
PCBs	Total PCBs is the sum of all individual PCBs. (ND aro											

**Table 5-3
Summary Statistics of Dioxin Results**

Analyte	Unit	Number of Samples					Summary Statistics						
		No. of Samples from 2005/6 Dow On-Site	No. of Samples from 2006 COM Blind	No. of Samples from 2010 Dow	No. of Samples from 2010 MDEQ	Total No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs
WHO-TEQ 2005	ppt	28	258	537	31	854	100.0%	981	11,538	0.231	299,017	-	-
1,2,3,4,6,7,8-HpCDD	ppt	28	196	536	33	793	100.0%	2,763	14,480	0.962	287,057	-	-
1,2,3,4,6,7,8-HpCDF	ppt	27	196	536	33	792	99.9%	2,097	8,994	0.922	116,877	0.743	0.743
1,2,3,4,7,8,9-HpCDF	ppt	27	196	521	33	777	98.3%	103	673	0.276	16,507	0.536	0.749
1,2,3,4,7,8-HxCDD	ppt	28	196	527	33	784	99.0%	49.4	189.1	0.130	3,596	0.142	0.571
1,2,3,4,7,8-HxCDF	ppt	28	196	535	33	792	99.6%	201	1,252	0.214	30,935	0.143	0.149
1,2,3,6,7,8-HxCDD	ppt	28	196	534	33	791	99.5%	150	529	0.166	10,319	0.149	0.59
1,2,3,6,7,8-HxCDF	ppt	23	196	533	33	785	99.5%	83.5	534.5	0.189	12,514	0.143	0.157
1,2,3,7,8,9-HxCDD	ppt	28	196	532	33	789	99.2%	92.5	333.8	0.164	5,640	0.143	0.623
1,2,3,7,8,9-HxCDF	ppt	20	196	505	33	754	97.9%	18.7	190.8	0.160	4,967	0.142	6.3
1,2,3,7,8-PCDD	ppt	28	196	529	33	786	99.0%	84.3	422.5	0.145	6,960	0.096	0.335
1,2,3,7,8-PCDF	ppt	28	196	535	33	792	99.7%	59.9	227.3	0.0950	4,000	0.096	0.099
2,3,4,6,7,8-HxCDF	ppt	27	196	526	33	782	92.5%	95.9	753.8	0.145	15,602	0.149	28.8
2,3,4,7,8-PCDF	ppt	28	196	517	33	774	99.9%	83.4	411.8	0.167	8,529	0.295	0.295
2,3,7,8-TCDD	ppt	28	196	531	33	788	99.5%	812	11,472	0.111	289,000	0.157	0.679
2,3,7,8-TCDF	ppt	28	196	528	33	785	99.7%	84.9	329.4	0.151	6,572	0.137	0.804
OCDD	ppt	28	196	537	33	794	100.0%	28,202	147,339	4.21	2,911,985	-	-
OCDF	ppt	28	196	533	33	790	99.9%	3,811	20,879	1.04	393,873	2.23	2.23
Notes:													
If duplicates exist, the average of the duplicate results was used as a single data point.													
Nondetects were substituted by half of reporting limit (RL) for the computation of summary statistics.													
Laboratory QAQC results are not included.													
Missing data are pending to be included.													

Table 5-4
Summary of Non-dioxin Data Screening Results, The Dow Chemical Company, Michigan Operations

A1 ¹ Metals Screen-out by Statewide Default Background	A2 ¹ Metals Screen-out by Regional Background Screening Levels	B1 ¹ Screen-out by all NDs; RLS met MDEQ target detection levels	B2 ¹ Screen-out by off-site NDs; RLs met MDEQ target detection levels	B3 ¹ Screen-out by all NDs; all RLs ≤ all Part 201/EPA criteria	C1 ² No criteria; detected ≤ 5%	C2 ² No criteria; detected > 5%	D1 ¹ Screen-out by other reasons	D2 ¹ Detected ≤ 5%; screen-out by Part 201/EPA criteria	D3 ¹ Detected > 5%; screen-out by Part 201/EPA criteria	D4 ² Not detected above Part 201/EPA criteria; but have elevated RLS for NDs	D5 ² Detected ≤ 5%; one or more detected concentrations > Part 201/EPA criteria	D6 ² Detected > 5%; one or more detected concentrations > Part 201/EPA criteria	E1 ³ Eliminate through a review of spacial distribution	E2 Eliminate based on leach testing results	E3 Eliminate - analyte not sourced by Dow
(none)	Barium	Silvex (2,4,5-TP)	bis(2-Chloroisopropyl)ether	Endrin ketone	Delta BHC	Calcium	(none)	2,4,5-T (Trichlorophenoxyacetic Acid)	2,4-D (Dichlorophenoxyacetic Acid)	Thallium	alpha-BHC	Cyanide, Total	Delta BHC	Pending	Pending
	Cadmium Magnesium Manganese	3,3'-Dichlorobenzidine 4,4'-Methylene bis(2-chloroaniline) 2-Chloroethyl vinyl ether Ethyl tert-Butyl Ether Isopropyl Ether Methyl-t-butyl ether t-Butanol tert-Amyl Methyl Ether Vinyl acetate	Hexabromobenzene Hexabromobiphenyl	Heptachlor (E)-alpha,beta-2,3,4,5,6- Heptachlorostyrene (E)-beta-2,3,4,5,6- Hexachlorostyrene (Z)-alpha,beta-2,3,4,5,6- Heptachlorostyrene (Z)-beta-2,3,4,5,6- Hexachlorostyrene 1,2,3-Trichlorobenzene 1,2,4,5- Tetrachlorobenzene 1,4-Naphthoquinone 1-Naphthylamine 2,3,4,5,6- Pentachlorostyrene 2,4-Dimethylphenol 2,6-Dichlorophenol 2-Acetylaminofluorene 2-Chloronaphthalene 3-Nitroaniline 4-Nitrophenol 4-Nitroquinoline-1-oxide 4-tert-Butylphenol Alpha, Alpha Dimethylphenethylamine alpha-2,3,4,5,6- Hexachlorostyrene Benzyl dichloride beta,beta-2,3,4,5,6- Heptachlorostyrene Bisphenol-A Caprolactam cis-Nonachlor Di-n-octylphthalate Ethyl methanesulfonate Famphur Hexachlorocyclopentadi ene Hexachlorophene Hexachloropropene Isodrin Isosafrole Methapyrilene Methyl chlorpyrifos O,O,O-Triethyl Phosphorothioate O,O-Diethyl O-2- Pyrazinyl Phosphorothioate (Thionazin) o,p'-DDD o-Toluidine Parathion, Ethyl (Parathion) Pentachlorobenzene	Endrin aldehyde 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Octachlorostyrene 1,1-Dichloropropene Propionitrile, Ethyl Cyanide 1,2,3-Trimethylbenzene Methyl Iodide (Iodomethane) p-Isopropyltoluene	Potassium Thorium Titanium Endosulfan sulfate Sulfide 1,2,3,4- Tetrachlorobenzene 1,2,3-Trimethylbenzene Methyl Iodide (Iodomethane) p-Isopropyltoluene	(none)	Endrin Mirex 1,2,4-Trichlorobenzene 2,4,5-Trichlorophenol Azobenzene Benzyl alcohol Dimethyl phthalate Isophorone n-Nitrosodiphenylamine Propachlor 1,3,5-Trimethylbenzene 2-Chlorotoluene 2-Hexanone Chloroform Chloromethane Cyclohexane Dichlorodifluoromethane Methyl Ethyl Ketone (2- Butanone) Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) n-Butylbenzene Styrene tert-Butylbenzene	Beryllium Sodium Tin 4,4'-DDD 4,4'-DDE 4,4'-DDT Chlordane, Total Endosulfan, Total Heptachlor epoxide Methoxychlor 2,3,4,6- Tetrachlorophenol 2-Methylnaphthalene Acenaphthene Acenaphthylene Acetophenone Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzoic acid Benzyl Butyl Phthalate bis(2-ethylhexyl) phthalate Carbazole Chrysene Di-n-butyl phthalate Fluorene Indeno(1,2,3-c,d)Pyrene o-Phenylphenol Phenol Pyrene 1,2,4-Trimethylbenzene Acetone Isopropylbenzene N-Propylbenzene sec-Butylbenzene Tetrahydrofuran	PCBs, Total Aldrin Beta BHC Dieldrin Toxaphene Tris(2,3- dibromopropyl)phosphat e 1,2-Diphenyl-hydrazine 1,3-Dinitrobenzene 2,2'-Oxybis(1- Chloropropane) 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dimethylphenol 2,6-Dinitrotoluene 2-Nitroaniline 2-Nitrophenol 3,3'-Dimethylbenzidine 3-Methylcholanthrene 4,6-Dinitro-2- methylphenol 4-Aminobiphenyl 4-Chloro-3-methylphenol 4-Chloroaniline 4-Nitroaniline 5-Nitro-o-toluidine 7,12- Dimethylbenz(a)anthrac ene Aniline Aramite (Total) Benzidine Bis(2-Chloroethoxy) methane Bis(2-Chloroethyl) ether Chlorobenzilate Chlorpyrifos Cresol, Total Diallate (total of cis and trans isomers) Dibenz(a,h)anthracene Diethyl phthalate Dimethoate Dinoseb	Gamma BHC (Lindane) Hexachlorobutadiene 1,2-Dichlorobenzene Acrylonitrile Chlorobenzene Tetrachloroethene Chromium VI 1,3-Dinitrobenzene 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dimethylphenol 2,6-Dinitrotoluene 2-Nitroaniline 2-Nitrophenol 2,4-Dichlorophenol 4-Aminobiphenyl 4-Chloro-3-methylphenol	Mercury Aluminum Antimony Arsenic Boron Chromium Chromium VI Cobalt Copper Iron Lead Lithium Molybdenum Nickel Selenium Silver Strontium Vanadium Zinc Benzo[a]pyrene Dibenzofuran Fluoranthene Hexachlorobenzene Pentachlorophenol Phenanthrene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene Bromomethane Methylene Chloride Naphthalene Toluene Xylenes, Total	Endrin aldehyde 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether Octachlorostyrene 1,1-Dichloropropene Propionitrile, Ethyl Cyanide Calcium Potassium Thorium Titanium Endosulfan sulfate Sulfide 1,2,3,4- Tetrachlorobenzene 1,2,3-Trimethylbenzene Methyl Iodide (Iodomethane) p-Isopropyltoluene PCBs, Total Aldrin Beta BHC Dieldrin Toxaphene Tris(2,3- dibromopropyl)phosphat e 1,2-Diphenyl-hydrazine 1,3-Dinitrobenzene 2,2'-Oxybis(1- Chloropropane) 2,4,6-Trichlorophenol 2,4-Dichlorophenol 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dimethylphenol 2,6-Dinitrotoluene 2-Chlorophenol 2-Naphthylamine 2-Nitroaniline 2-Nitrophenol 3,3'-Dimethylbenzidine 3-Methylcholanthrene 4,6-Dinitro-2- methylphenol 4-Aminobiphenyl 4-Chloro-3-methylphenol		

Table 5-4
Summary of Non-dioxin Data Screening Results, The Dow Chemical Company, Michigan Operations

A1 ¹ Metals Screen-out by Statewide Default Background	A2 ¹ Metals Screen-out by Regional Background Screening Levels	B1 ¹ Screen-out by all NDs; RLs met MDEQ target detection levels	B2 ¹ Screen-out by off-site NDs; RLs met MDEQ target detection levels	B3 ¹ Screen-out by all NDs; all RLs ≤ all Part 201/EPA criteria	C1 ² No criteria; detected ≤ 5%	C2 ² No criteria; detected > 5%	D1 ¹ Screen-out by other reasons	D2 ¹ Detected ≤ 5%; screen-out by Part 201/EPA criteria	D3 ¹ Detected > 5%; screen-out by Part 201/EPA criteria	D4 ² Not detected above Part 201/EPA criteria; but have elevated RLs for NDs	D5 ² Detected ≤ 5%; one or more detected concentrations > Part 201/EPA criteria	D6 ² Detected > 5%; one or more detected concentrations > Part 201/EPA criteria	E1 ³ Eliminate through a review of spacial distribution	E2 Eliminate based on leach testing results	E3 Eliminate - analyte not sourced by Dow
				Pentachloronitrobenzene						Diphenylamine					4-Chloroaniline
				p-Phenylenediamine						Disulfoton					4-Nitroaniline
				Pronamide						Hexachloroethane					5-Nitro-o-toluidine
				Ronnel						Kepone					7,12-Dimethylbenz(a)anthracene
				Sym-Trinitrobenzene						Methyl methanesulfonate					Aniline
				trans-Nonachlor						Nitrobenzene					Aramite (Total)
				1,1,1,2-Tetrachloroethane						n-Nitrosodiethylamine					Benzidine
				1,1,1-Trichloroethane						n-Nitrosodimethylamine					Bis(2-Chloroethoxy)methane
				1,1-Dichloroethane						N-Nitroso-di-n-butylamine					Bis(2-Chloroethyl) ether
				1,2,3-Trichloropropane						n-Nitrosodi-n-propylamine					Chlorobenzilate
				2,2-Dichloropropane						n-Nitrosomethylethylamine					Chlorpyrifos
				4-Chlorotoluene						n-Nitrosomorpholine					Cresol, Total
				Bromobenzene						n-Nitrosopiperidine					Diallate (total of cis and trans isomers)
				Bromodichloromethane						n-Nitrosopyrrolidine					Dibenz(a,h)anthracene
				Bromoform						Parathion, Methyl					Diethyl phthalate
				Carbon disulfide						p-Dimethylaminoazobenzene					Dimethoate
				Chlorobromomethane						Pentachlorethane					Dinoseb
				Chloroethane						Phenacetin					Diphenylamine
				cis-1,2-Dichloroethene						Phorate					Disulfoton
				cis-1,3-Dichloropropene						Pyridine					Hexachloroethane
				Cyclohexanone						Safrole					Kepone
				Dibromochloromethane						Tetraethyl Dithiopyrophosphate (Sulfotepp)					Methyl methanesulfonate
				Dibromomethane						1,1,2,2-Tetrachloroethane					Nitrobenzene
				Ethyl methacrylate						1,1,2-Trichloroethane					n-Nitrosodiethylamine
				Isobutanol						1,1,2-Trichlorotrifluoroethane					n-Nitrosodimethylamine
				n-Butanol						1,1-Dichloroethene					N-Nitroso-di-n-butylamine
				trans-1,2-Dichloroethene						1,2-Dibromo-3-chloropropane					n-Nitrosodi-n-propylamine
				trans-1,3-Dichloropropene						1,2-Dibromoethane (EDB)					n-Nitrosomethylethylamine
				Trichlorofluoromethane						1,2-Dichloroethane					n-Nitrosomorpholine
				Trihalomethanes, Total						1,2-Dichloropropane					n-Nitrosopiperidine
										1,3-Dichloropropane					n-Nitrosopyrrolidine
										1,3-Dichloropropene, Total					Parathion, Methyl
										1,4-Dioxane					p-Dimethylaminoazobenzene
										2-Propanol					Pentachlorethane
										Acetonitrile					Phenacetin
										Acrolein					Phorate
										Allyl Chloride (3-Chloropropene)					Pyridine
										Carbon tetrachloride					Safrole
										Chloroprene (2-Chloro-1,3-Butadiene)					Tetraethyl Dithiopyrophosphate (Sulfotepp)
										Ethyl Benzene					1,1,2,2-Tetrachloroethane
										Ethyl ether					1,1,2-Trichloroethane
										Ethylene oxide					1,1,2-Trichlorotrifluoroethane
										Methyl methacrylate					1,1-Dichloroethene
										Methylacrylonitrile					1,2-Dibromo-3-chloropropane
										trans-1,4-Dichloro-2-butene					1,2-Dibromoethane (EDB)
										Trichloroethene (TCE)					1,2-Dichloroethane
										Vinyl chloride					1,2-Dichloropropane

Table 5-4
Summary of Non-dioxin Data Screening Results, The Dow Chemical Company, Michigan Operations

A1 ¹ Metals Screen-out by Statewide Default Background	A2 ¹ Metals Screen-out by Regional Background Screening Levels	B1 ¹ Screen-out by all NDs; RLs met MDEQ target detection levels	B2 ¹ Screen-out by off-site NDs; RLs met MDEQ target detection levels	B3 ¹ Screen-out by all NDs; all RLs ≤ all Part 201/EPA criteria	C1 ² No criteria; detected ≤ 5%	C2 ² No criteria; detected > 5%	D1 ¹ Screen-out by other reasons	D2 ¹ Detected ≤ 5%; screen-out by Part 201/EPA criteria	D3 ¹ Detected > 5%; screen-out by Part 201/EPA criteria	D4 ² Not detected above Part 201/EPA criteria; but have elevated RLs for NDs	D5 ² Detected ≤ 5%; one or more detected concentrations > Part 201/EPA criteria	D6 ² Detected > 5%; one or more detected concentrations > Part 201/EPA criteria	E1 ³ Eliminate through a review of spatial distribution	E2 Eliminate based on leach testing results	E3 Eliminate - analyte not sourced by Dow
													1,3-Dichloropropane		
													1,3-Dichloropropene, Total		
													1,4-Dioxane		
													2-Propanol		
													Acetonitrile		
													Acrolein		
													Allyl Chloride (3-Chloropropene)		
													Carbon tetrachloride		
													Chloroprene (2-Chloro-1,3-Butadiene)		
													Ethyl Benzene		
													Ethyl ether		
													Ethylene oxide		
													Methyl methacrylate		
													Methylacrylonitrile		
													trans-1,4-Dichloro-2-butene		
													Trichloroethene (TCE)		
													Vinyl chloride		
													alpha-BHC		
													Gamma BHC (Lindane)		
													1,2-Dichlorobenzene		
													Acrylonitrile		
													Chlorobenzene		
													Tetrachloroethene		
													Cyanide, Total		
													Mercury		
													Aluminum		
													Antimony		
													Chromium		
													Cobalt		
													Copper		
													Iron		
													Lead		
													Molybdenum		
													Nickel		
													Selenium		
													Silver		
													Vanadium		
													Benzo[a]pyrene		
													Dibenzofuran		
													Fluoranthene		
													Phenanthrene		
													1,3-Dichlorobenzene		
													1,4-Dichlorobenzene		
													Benzene		
													Bromomethane		
													Methylene Chloride		
													Naphthalene		
													Toluene		
													Xylenes, Total		

Notes:
 Figure 5-4 serves as a companion figure to this table.
 Screen-out
 Eliminate
 May require additional evaluation
 Requires additional evaluation

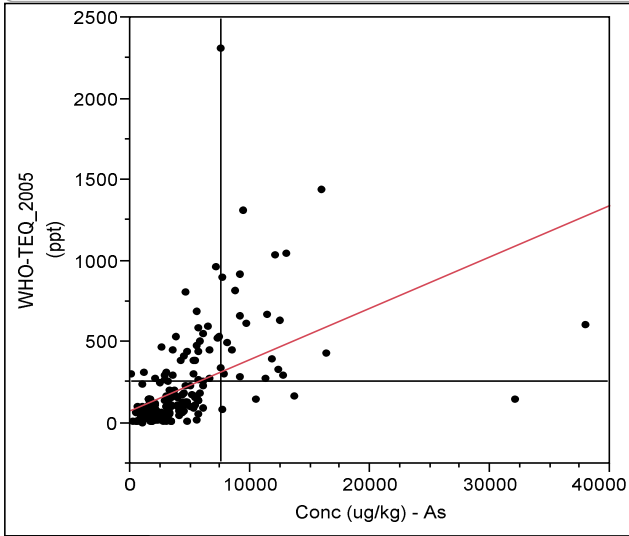
¹ Analytes in categories A1, A2, B1, B2, B3, D1, D2, and D3 screened-out from further evaluation based on the screening category they were placed.
² Analytes in categories C1, C2, D4, D5, and D6 were initially retained and were each evaluated in a series of meetings and conference calls (held in May through July 2011) attended by MDEQ, EPA, and Dow stal
³ Analytes from categories C1, C2, D4, D5, and D6 (shaded in gray) were placed in category E1 when the analyte was determined to be eliminated from further evaluation based on the results of the meetings and conference calls

Table 5-5
Dioxin/Furan TEQ and Arsenic Direct Contact Exceedance Correlations

		Summary Statistics					
Analyte	Unit	# of Sampling Periods	Detection Rate	Mean	Std Dev	Min	Max
Arsenic	ug/kg	192	98%	4444	4440	195	38029
WHO-TEQ 2005	ng/kg	192	100%	216	291	0.49	2310
		Correlation Analysis -- Parametric Method					
		Linear Regression R-Square	p-value	Conclusion			
		0.233	<.0001	Positive Correlation			
		Correlation Analysis -- Non-parametric Method					
		Kendall's Tau Correlation Coefficient	p-value	Conclusion			
		0.488	<.0001	Positive Correlation			
Notes:							
Nondetects were substituted by half of reporting limit (RL) for the statistical evaluation.							
DOS-series data were excluded.							
Only samples which were analyzed for both arsenic and TEQ were included.							
Correlation was tested at a 5% significance level.							

Table 5-5
Dioxin/Furan TEQ and Arsenic Direct Contact Exceedance Correlations

Bivariate Fit of WHO-TEQ_2005 (ppt) By Conc (ug/kg) - As



Linear Fit

$$\text{WHO-TEQ}_{2005} \text{ (ppt)} = 75.125479 + 0.0316933 \cdot \text{Conc (ug/kg) - As}$$

Summary of Fit

RSquare	0.233277
RSquare Adj	0.229241
Root Mean Square Error	255.772
Mean of Response	215.9758
Observations (or Sum Wgts)	192

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	3781748	3781748	57.8078
Error	190	12429673	65419	Prob > F
C. Total	191	16211421		<.0001*

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	75.125479	26.1517	2.87	0.0045*
Conc (ug/kg) - As	0.0316933	0.004168	7.60	<.0001*

Samples which are <250 ng/Kg TEQ, but >7600 ug/Kg As:

Sample ID	Arsenic (ug/kg)	WHO-TEQ 2005 (ng/kg)
A2-01_6"-1'_12/17/2010_TDF	10580	148
A2-02_6"-1'_12/17/2010_TDF	32128	141
A2-03_6"-1'_12/17/2010_TDF	13754	162
F1-02_6"-1'_12/17/2010_TDF	7703	84.1

Table 5-5
Dioxin/Furan TEQ and Arsenic Direct Contact Exceedance Correlations

Multivariate

Nonparametric: Kendall's τ

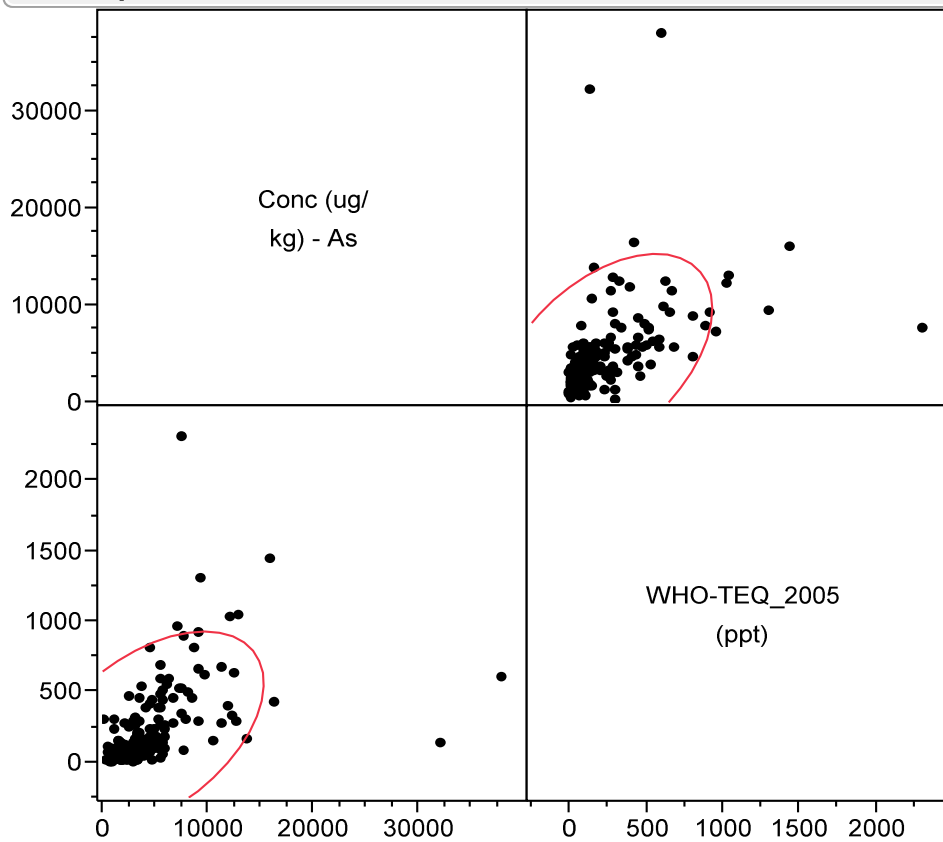
Variable	by Variable	Kendall τ	Prob> τ	-.8	-.6	-.4	-.2	0	.2	.4	.6	.8
WHO-TEQ_2005 (ppt)	Conc (ug/kg) - As	0.4879	<.0001*									

Univariate Simple Statistics

Column	N	DF	Mean	Std Dev	Sum	Minimum	Maximum
Conc (ug/kg) - As	192	191.00	4444.17	4439.79	853281	195.000	38028.8
WHO-TEQ_2005 (ppt)	192	191.00	215.976	291.336	41467.4	0.4900	2310.00

Note: Statistics were calculated for each column independently without regard for missing values in other columns.

Scatterplot Matrix



**Table 5-6
Summary Statistics of Dioxin Results by Data Set and Depth**

Analyte	Unit	Depth Interval	2005/6 Dow On-Site								2006 COM Blind								2010 Dow/MDEQ								
			No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	Min RL of NDs	Max RL of NDs	
2,3,7,8-TCDF	ppt	(1) 0 in - 1 in	28	100%	759	1,519	5	6,572	-	-	161	100%	33.1	58.6	0.416	412	-	-	137	100%	76.1	104	1.4	622	-	-	
2,3,7,8-TCDF	ppt	(2) 1 in - 6 in	0	-	-	-	-	-	-	-	35	100%	43.3	82.4	0.261	462	-	-	137	100%	81.2	134	0.74	935	-	-	
2,3,7,8-TCDF	ppt	(3) 6 in - 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	134	100%	76.8	147	0.296	1,139	-	-	
2,3,7,8-TCDF	ppt	(4) > 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	153	99%	43.9	107	0.151	863	0.137	0.804	
OCDD	ppt	(1) 0 in - 1 in	28	100%	368,918	707,133	890	2,911,985	-	-	161	100%	12,514	15,684	104	121,000	-	-	139	100%	27,899	26,595	560	151,009	-	-	
OCDD	ppt	(2) 1 in - 6 in	0	-	-	-	-	-	-	-	35	100%	16,125	18,087	101	91,700	-	-	139	100%	21,755	22,254	348	146,440	-	-	
OCDD	ppt	(3) 6 in - 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	138	100%	12,924	22,695	85.9	145,854	-	-	
OCDD	ppt	(4) > 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	154	100%	5,181	8,951	4.21	59,361	-	-	
OCDF	ppt	(1) 0 in - 1 in	28	100%	56,375	97,470	75	393,873	-	-	161	100%	1,202	1,445	7.48	9,900	-	-	139	100%	3,065	3,818	45.9	26,700	-	-	
OCDF	ppt	(2) 1 in - 6 in	0	-	-	-	-	-	-	-	35	100%	1,616	1,783	7.07	7,440	-	-	138	100%	2,614	3,738	27.7	34,995	-	-	
OCDF	ppt	(3) 6 in - 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	138	100%	1,935	3,797	8.95	26,000	-	-	
OCDF	ppt	(4) > 1 ft	0	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	151	99%	851	1,587	1.04	10,600	2.23	2.23	
Notes:																											
If duplicates exist, the average of the duplicate results was used as a single data point.																											
Nondetects were substituted by half of reporting limit (RL) for the computation of summary statistics.																											
Laboratory QAQC results are not included.																											
Missing data are pending to be included.																											

**Table 5-7
Summary Statistics of Dioxin Results for the Combined 2006 CH2M Hill and 2010 Dow and MDEQ Data Sets by Depth**

Chemical	Unit	Depth Interval	Summary Statistics of Combined 2006 CH2M Hill and 2010 Dow/MDEQ						Compare to Dioxin Criteria			
			No. of Samples	Detection Rate	Mean	Std Dev	Min Detected Value	Max Detected Value	No. of Samples > 250 ppt	% of Samples > 250 ppt	No. of Samples > 300 ppt	% of Samples > 300 ppt
WHO-TEQ_2005	ppt	(1) 0 in - 1 in	361	100%	221	295	2.5	2750	102	28%	82	23%
WHO-TEQ_2005	ppt	(2) 1 in - 6 in	173	100%	303	817	2.9	10500	69	40%	56	32%
WHO-TEQ_2005	ppt	(3) 6 in - 1 ft	138	100%	196	282	0.49	1310	32	23%	28	20%
WHO-TEQ_2005	ppt	(4) > 1 ft	154	100%	76.8	109.4	0.231	807	11	7%	8	5%
Notes:												
If duplicates exist, the average of the duplicate results was used as a single data point.												
Nondetects were substituted by half of reporting limit (RL) for the computation of summary statistics.												
Laboratory QAQC results are not included.												
Missing data are pending to be included.												

Table 8-1
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Owner Address	Owner Zip	Owner State	Owner Zip	ZONING	Property ID Number	Property Acreage
North of Facility								
501 STATE ST	48640	717 E INDIAN / P O Box 183	MIDLAND	MI	48640-0183	MULT	14-21-10-622	0.98901508
704 E GROVE ST	48640	704 E GROVE ST	MIDLAND	MI	48640-5279	RB	14-21-10-630	0.16537673
615 E INDIAN ST	48640	5414 GARDENBROOK DR	MIDLAND	MI	48642-3237	OS	14-16-50-064	0.34579973
611 E INDIAN ST	48640	804 VANCE RD	MIDLAND	MI	48640-4170	OS	14-16-50-063	0.14101992
502 GEORGE ST	48640	804 VANCE RD	MIDLAND	MI	48640	OS	14-16-50-062	0.13441228
508 GEORGE ST	48640	608 SYLVAN LN	MIDLAND	MI	48640-2903	OS	14-16-50-060	0.12929165
612 E GROVE ST	48640	612 E GROVE	MIDLAND	MI	48640	RB	14-16-40-410	0.16528703
512 GEORGE ST	48640	608 SYLVAN LN	MIDLAND	MI	48640	RB	14-16-50-058	0.15422875
516 GEORGE ST	48640	5800 SWEDE AVE	MIDLAND	MI	48642	RB	14-16-50-056	0.15447731
616 E GROVE ST	48640	616 E GROVE ST	MIDLAND	MI	48640-5225	RB	14-16-40-406	0.27343940
515 E BUTTLES ST	48640	PO BOX 1010	MIDLAND	MI	48641-1010	OS	14-16-50-096	0.16497238
509 E BUTTLES ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-16-50-095	0.16705044
411 GEORGE ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-16-50-065	0.16697036
505 E BUTTLES ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-16-50-094	0.16747404
415 GEORGE ST	48640	110 N MICHIGAN AVE	SAGINAW	MI	48602-4234	OS	14-16-50-066	0.16566392
501 E BUTTLES ST	48640	1111 MICHIGAN AVE STE 200	EAST LANSING	MI	48823	OS	14-16-50-092	0.16647342
412 CRONKRIGHT ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-16-50-090	0.16554370
416 CRONKRIGHT ST	48640	416 CRONKRIGHT	MIDLAND	MI	48640	OS	14-16-50-088	0.16567915
1010 E GROVE ST	48640	P O BOX 1647	MIDLAND	MI	48641-1647	RB	14-21-10-410	1.31230565
1015 E GROVE ST	48640	1015 E GROVE ST	MIDLAND	MI	48640-5203	RB	14-21-10-408	0.16629517
915 E INDIAN ST	48640	P O BOX 2455	MIDLAND	MI	48641-2455	OS	14-21-10-536	0.16629517
1011 E GROVE ST	48640	1011 E GROVE ST	MIDLAND	MI	48640-5203	RB	14-21-10-406	0.16600602
909 E INDIAN ST	48640	P O BOX 2455	MIDLAND	MI	48641-2455	OS	14-21-10-534	0.16600602
609 FOURNIE ST	48640	609 FOURNIE ST	MIDLAND	MI	48640	RB	14-21-10-346	0.16643427
602 HALEY ST	48640	602 HALEY ST	MIDLAND	MI	48640	RB	14-21-10-404	0.16528465
916 E GROVE ST	48640	829 PAWTUCKET DR	HOPE	MI	48628-9716	RB	14-21-10-520	0.16628969
613 FOURNIE ST	48640	613 FOURNIE ST	MIDLAND	MI	48640	RB	14-21-10-350	0.16585503
606 HALEY ST	48640	606 HALEY ST	MIDLAND	MI	48640-5310	RB	14-21-10-402	0.16585962
914 E GROVE ST	48640	914 E GROVE ST	MIDLAND	MI	48640	RB	14-21-10-522	0.16600094
901 E INDIAN ST	48640	901 E INDIAN ST	MIDLAND	MI	48640-5233	OS	14-21-10-530	0.33114397
510 MILL ST	48640	3310 JEFFERSON AVE	MIDLAND	MI	48640-3502	RB	14-21-10-528	0.12729187
612 HALEY ST	48640	612 HALEY ST	MIDLAND	MI	48640	RB	14-21-10-400	0.20659728
614 HALEY ST	48640	4878 BAILEY BRIDGE	FREELAND	MI	48623-9801	RB	14-21-10-398	0.12453433
516 MILL ST	48640	516 MILL	MIDLAND	MI	48642	RB	14-21-10-524	0.20383985
915 E GROVE ST	48640	406 IRELAND	AUBURN	MI	48611	RB	14-21-10-554	0.16629517
913 E GROVE ST	48640	913 E GROVE ST	MIDLAND	MI	48640	RB	14-21-10-552	0.16600602
811 E INDIAN ST	48640	3310 JEFFERSON AVE	MIDLAND	MI	48640-3502	OS	14-21-10-604	0.33230088
613 HALEY ST	48640	613 HALEY ST	MIDLAND	MI	48640	RB	14-21-10-538	0.16643427
602 MILL ST	48640	602 MILL ST	MIDLAND	MI	48640-5333	RB	14-21-10-550	0.16528434
816 E GROVE ST	48640	4878 BAILEY BRIDGE	FREELAND	MI	48623-9801	RB	14-21-10-590	0.16628969
615 HALEY ST	48640	2855 N MID-BAY CO LINE	MIDLAND	MI	48642	RB	14-21-10-540	0.16585503
606 MILL ST	48640	606 MILL ST	MIDLAND	MI	48640-5333	RB	14-21-10-548	0.16585993
812 E GROVE ST	48640	812 E GROVE ST	MIDLAND	MI	48640-5227	RB	14-21-10-592	0.16600019
610 MILL ST	48640	3065 ALETHA CT	MIDLAND	MI	48640	RB	14-21-10-546	0.16527855
502 STATE ST	48640	3310 JEFFERSON AVE	MIDLAND	MI	48640-3502	OS	14-21-10-600	0.49642131
906 E PINE ST	48640	72 E YOUNGS CT	MIDLAND	MI	48640	RB	14-21-10-542	0.16585352
808 E GROVE ST	48640	3310 JEFFERSON	MIDLAND	MI	48640	RB	14-21-10-594	0.16585412
1110 E GROVE ST	48640	P O BOX 1647	MIDLAND	MI	48641-1647	RB	14-21-10-344	0.30664443
1110 E PINE ST	48640	P O BOX 1647	MIDLAND	MI	48641-1647	RB	14-21-10-308	1.20047272

Table 8-1
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Owner Address	Owner Zip	Owner State	Owner Zip	ZONING	Property ID Number	Property Acreage
North of Facility								
613 E BUTTLES ST	48640	613 E BUTTLES ST	MIDLAND	MI	48640-5215	OS	14-21-80-470	0.16768470
609 E BUTTLES ST	48640	609 E BUTTLES ST	MIDLAND	MI	48640	OS	14-21-80-468	0.16769386
616 E INDIAN ST	48640	1111 MICHIGAN AVE STE 200	EAST LANSING	MI	48823	OS	14-21-80-492	0.20861647
612 E INDIAN ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-21-80-494	0.16607560
402 GEORGE ST	48640	718 E BUTTLES ST	MIDLAND	MI	48640	OS	14-21-80-499	0.33541056
412 GEORGE ST	48640	117 W REARDON STREET	MIDLAND	MI	48640	OS	14-21-80-498	0.16649730
416 GEORGE ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-21-80-496	0.16567915
715 E BUTTLES ST	48640	825 E MAIN ST	MIDLAND	MI	48640	OS	14-21-80-480	0.16629638
711 E BUTTLES ST	48640	P O BOX 1010	MIDLAND	MI	48641	OS	14-21-80-478	0.12453265
409 STATE ST	48640	P O BOX 1010	MIDLAND	MI	48641-1010	OS	14-21-80-482	0.08321736
707 E BUTTLES ST	48640	1111 E MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-21-80-476	0.12436890
411 STATE ST	48640	P O BOX 1647	MIDLAND	MI	48641-1647	OS	14-21-80-484	0.08307177
701 E BUTTLES ST	48640	1111 MICHIGAN AVE STE 201	EAST LANSING	MI	48823	OS	14-21-80-472	0.24732236
712 E INDIAN ST	48640	P O BOX 1010	MIDLAND	MI	48641-1010	OS	14-21-80-486	0.18262313
706 E INDIAN ST	48640	706 E INDIAN ST	MIDLAND	MI	48640	OS	14-21-80-488	0.14908812
702 E INDIAN ST	48640	1111 MICHIGAN AVE STE 200	EAST LANSING	MI	48823	OS	14-21-80-490	0.12409203
East of Facility								
306 KENT CT	48642	306 KENT ST	MIDLAND	MI	48642	RB	14-23-60-154	0.21775498
301 WALTER CT	48642	301 WALTER CT	MIDLAND	MI	48640	RB	14-23-60-088	0.24200219
310 KENT CT	48642	310 KENT CT	MIDLAND	MI	48642	RB	14-23-60-152	0.20934214
307 WALTER CT	48642	307 WALTER CT	MIDLAND	MI	48642	RB	14-23-60-090	0.25817845
309 WALTER CT	48642	309 WALTER CT	MIDLAND	MI	48642	RB	14-23-60-092	0.21984235
306 WALTER CT	48642	4285 TWO MILE ROAD	BAY CITY	MI	48706-2332	RB	14-23-60-080	1.46912935
314 KENT CT	48642	314 KENT CT	MIDLAND	MI	48642-5909	RB	14-23-60-148	0.15080430
311 WALTER CT	48642	1104 W PARK DR	MIDLAND	MI	48640-4251	RB	14-23-60-094	0.21493851
316 WALTER CT	48642	4285 TWO MILE RD	BAY CITY	MI	48706	RB	14-23-60-078	0.47353458
320 WALTER CT	48642	4285 TWO MILE RD	BAY CITY	MI	48706	RB	14-23-60-076	0.34032174
324 WALTER CT	48642	4285 TWO MILE	BAY CITY	MI	48706	RB	14-23-60-074	0.34036939
322 KENT CT	48642	322 KENT CT	MIDLAND	MI	48642	RB	14-23-60-144	0.22899550
328 WALTER CT	48642	328 WALTER ST	MIDLAND	MI	48642-5917	RB	14-23-60-072	0.32339420
328 KENT CT	48642	2810 SWEDE AVE	MIDLAND	MI	48642-4716	RB	14-23-60-142	0.24580309
329 WALTER CT	48642	329 WALTER CT	MIDLAND	MI	48640	RB	14-23-60-102	0.22128358
332 WALTER CT	48642	332 WALTER ST	MIDLAND	MI	48642-5917	RB	14-23-60-070	0.39721059
332 KENT CT	48642	332 KENT CT	MIDLAND	MI	48642	RB	14-23-60-140	0.22007870
401 WALTER CT	48642	401 WALTER ST	MIDLAND	MI	48642-5916	RB	14-23-60-106	0.22008762
400 WALTER CT	48642	400 WALTER	MIDLAND	MI	48640	RB	14-23-60-068	0.63567175
400 KENT CT	48642	P O BOX 1647	MIDLAND	MI	48641-1647	RB	14-23-60-132	0.67557556
408 WALTER CT	48642	408 WALTER CT	MIDLAND	MI	48642	RB	14-23-60-064	0.48253987
410 KENT CT	48642	410 KENT CT	MIDLAND	MI	48642	RB	14-23-60-131	0.18237201
409 WALTER CT	48642	409 WALTER ST	MIDLAND	MI	48642-5916	RB	14-23-60-110	0.19853196
410 WALTER CT	48642	410 WALTER CT	MIDLAND	MI	48642	RB	14-23-60-062	0.49399140
412 KENT CT	48642	1525 S NINE MILE RD	MIDLAND	MI	48640-9148	RB	14-23-60-130	0.27060826
413 WALTER CT	48642	3310 JEFFERSON AVE	MIDLAND	MI	48640-3502	RB	14-23-60-112	0.29507442
416 KENT CT	48642	416 KENT	MIDLAND	MI	48640	RB	14-23-60-128	0.42686996
424 KENT CT	48642	424 KENT CT	MIDLAND	MI	48642	RB	14-23-60-124	0.22662708
2201 MARK PUTNAM RD	48642	P O BOX 1647	MIDLAND	MI	48641-1647	IA	14-23-50-060	2.07206636
425 WALTER CT	48642	3310 JEFFERSON AVE	MIDLAND	MI	48640-3502	RB	14-23-60-120	0.48391618
420 KENT CT	48642	420 KENT CT	MIDLAND	MI	48642	RB	14-23-60-126	0.27800628
2208 BAY CITY RD	48642	2727 W. N. UNION	MIDLAND	MI	48642	RB	14-23-60-122	0.23895908

Table 8-1
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Owner Address	Owner Zip	Owner State	Owner Zip	ZONING	Property ID Number	Property Acreage
North of Facility								
319 WALTER CT	48642	319 WALTER	MIDLAND	MI	48640	RB	14-23-60-098	0.17675209
318 KENT CT	48642	318 KENT CT	MIDLAND	MI	48642	RB	14-23-60-146	0.21563785
325 WALTER CT	48642	325 WALTER ST	MIDLAND	MI	48642-5916	RB	14-23-60-100	0.22112573
312 KENT CT	48642	312 KENT CT	MIDLAND	MI	48640	RB	14-23-60-150	0.22631085
301 KENT CT	48642	301 KENT CT	MIDLAND	MI	48640	RB	14-23-60-156	0.37979005
309 KENT CT	48642	202 SEMINOLE CT	MIDLAND	MI	48642-3560	MULT	14-23-60-160	1.58009593
315 KENT CT	48642	315 KENT CT	MIDLAND	MI	48642	MULT	14-23-60-164	0.15546996
315 KENT CT	48642	315 KENT CT	MIDLAND	MI	48642	MULT	14-23-60-164	0.97523373
319 KENT CT	48642	3439 HIGHLAND DR	BAY CITY	MI	48706-2414	MULT	14-23-60-168	0.48764888
323 KENT CT	48642	5101 OAKRIDGE DR	MIDLAND	MI	48640	MULT	14-23-60-170	0.48765170
327 KENT CT	48642	327 KENT CT	MIDLAND	MI	48640	MULT	14-23-60-172	0.97033524
331 KENT CT	48642	331 KENT CT	MIDLAND	MI	48640	MULT	14-23-60-176	0.96961809
409 KENT CT	48642	409 KENT CT	MIDLAND	MI	48640	RB	14-23-60-184	0.42574975
415 KENT CT	48642	415 KENT CT	MIDLAND	MI	48640	RB	14-23-60-190	0.26772867
419 KENT CT	48642	419 KENT CT	MIDLAND	MI	48640	RB	14-23-60-196	0.26461667
2127 MARK PUTNAM RD	48642	P O BOX 1647	MIDLAND	MI	48641-1647	IA	14-23-50-070	0.95232106

¹ All Properties are within the City of Midland, MI

Table 8-2
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Property ID Number	Total Property Acreage	Available Acreage for Sampling (Total acreage - Permanent Structures)	# of Increments	Does Property Contain Woodland Areas of >7,200 sq ft in size (Y/N)	Land Use (Residential / Non-residential)
North of Facility							
501 STATE ST	48640	14-21-10-622	0.98901508	0.566556	20	N	Residential
704 E GROVE ST	48640	14-21-10-630	0.16537673	0.130034	10	N	Residential
615 E INDIAN ST	48640	14-16-50-064	0.17946900	0.140559	10	N	Residential
611 E INDIAN ST	48640	14-16-50-063	0.24226700	0.214774	10	N	Residential
502 GEORGE ST	48640	14-16-50-062	0.16690400	0.106663	10	N	Residential
508 GEORGE ST	48640	14-16-50-060	0.16234300	0.128113	10	N	Residential
612 E GROVE ST	48640	14-16-40-410	0.16528703	0.118291	10	N	Residential
512 GEORGE ST	48640	14-16-50-058	0.15422875	0.107175	10	N	Residential
516 GEORGE ST	48640	14-16-50-056	0.15447731	0.114754	10	N	Residential
616 E GROVE ST	48640	14-16-40-406	0.27343940	0.213142	10	N	Residential
515 E BUTTLES ST	48640	14-16-50-096	0.16497238	0.1243	10	N	Residential
509 E BUTTLES ST	48640	14-16-50-095	0.16705044	0.16705044	10	N	Residential
411 GEORGE ST	48640	14-16-50-065	0.16697036	0.16697036	10	N	Residential
505 E BUTTLES ST	48640	14-16-50-094	0.16747404	0.16747404	10	N	Residential
415 GEORGE ST	48640	14-16-50-066	0.16566392	0.098344	10	N	Residential
501 E BUTTLES ST	48640	14-16-50-092	0.16647342	0.16647342	10	N	Residential
412 CRONKRIGHT ST	48640	14-16-50-090	0.16554370	0.16554370	10	N	Residential
416 CRONKRIGHT ST	48640	14-16-50-088	0.16567915	0.132966	10	N	Residential
1010 E GROVE ST	48640	14-21-10-410	1.31230565	1.31230565	30+ or Divide	N	Residential
1015 E GROVE ST	48640	14-21-10-408	0.16629517	0.109175	10	N	Residential
915 E INDIAN ST	48640	14-21-10-536	0.16629517	0.134492	10	N	Residential
1011 E GROVE ST	48640	14-21-10-406	0.16600602	0.131489	10	N	Residential
909 E INDIAN ST	48640	14-21-10-534	0.16600602	0.139956	10	N	Residential
609 FOURNIE ST	48640	14-21-10-346	0.16643427	0.137542	10	N	Residential
602 HALEY ST	48640	14-21-10-404	0.16528465	0.131391	10	N	Residential
916 E GROVE ST	48640	14-21-10-520	0.16628969	0.126479	10	N	Residential
613 FOURNIE ST	48640	14-21-10-350	0.16585503	0.134705	10	N	Residential
606 HALEY ST	48640	14-21-10-402	0.16585962	0.142187	10	N	Residential
914 E GROVE ST	48640	14-21-10-522	0.16600094	0.132333	10	N	Residential
901 E INDIAN ST	48640	14-21-10-530	0.33114397	0.091629	0	N	Non-Residential
510 MILL ST	48640	14-21-10-528	0.12729187	0.090434	10	N	Residential

Table 8-2
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Property ID Number	Total Property Acreage	Available Acreage for Sampling (Total acreage - Permanent Structures)	# of Increments	Does Property Contain Woodland Areas of >7,200 sq ft in size (Y/N)	Land Use (Residential / Non-residential)
612 HALEY ST	48640	14-21-10-400	0.20659728	0.163746	10	N	Residential
614 HALEY ST	48640	14-21-10-398	0.12453433	0.078837	0	N	Non-Residential
516 MILL ST	48640	14-21-10-524	0.20383985	0.17637	10	N	Residential
915 E GROVE ST	48640	14-21-10-554	0.16629517	0.13073	10	N	Residential
913 E GROVE ST	48640	14-21-10-552	0.16600602	0.108048	10	N	Residential
811 E INDIAN ST	48640	14-21-10-604	0.33230088	0.272936	20	N	Residential
613 HALEY ST	48640	14-21-10-538	0.16643427	0.122409	10	N	Residential
602 MILL ST	48640	14-21-10-550	0.16528434	0.103426	10	N	Residential
816 E GROVE ST	48640	14-21-10-590	0.16628969	0.148412	10	N	Residential
615 HALEY ST	48640	14-21-10-540	0.16585503	0.140417	10	N	Residential
606 MILL ST	48640	14-21-10-548	0.16585993	0.118682	10	N	Residential
812 E GROVE ST	48640	14-21-10-592	0.16600019	0.131359	10	N	Residential
610 MILL ST	48640	14-21-10-546	0.16527855	0.147001	10	N	Residential
502 STATE ST	48640	14-21-10-600	0.49642131	0.382029	20	N	Residential
906 E PINE ST	48640	14-21-10-542	0.16585352	0.107773	10	N	Residential
808 E GROVE ST	48640	14-21-10-594	0.16585412	0.131669	10	N	Residential
1110 E GROVE ST	48640	14-21-10-344	0.30664443	0.30664443	20	N	Residential
1110 E PINE ST	48640	14-21-10-308	1.20047272	1.20047272	30+ or Divide	N	Residential
613 E BUTTLES ST	48640	14-21-80-470	0.16768470	0.136036	10	N	Residential
609 E BUTTLES ST	48640	14-21-80-468	0.16769386	0.134515	10	N	Residential
616 E INDIAN ST	48640	14-21-80-492	0.20861647	0.20861647	10	N	Residential
612 E INDIAN ST	48640	14-21-80-494	0.16607560	0.16607560	10	N	Residential
402 GEORGE ST	48640	14-21-80-499	0.33541056	0	0	N	Non-Residential
412 GEORGE ST	48640	14-21-80-498	0.16649730	0.143428	10	N	Residential
416 GEORGE ST	48640	14-21-80-496	0.16567915	0.16567915	10	N	Residential
715 E BUTTLES ST	48640	14-21-80-480	0.16629638	0.16629638	10	N	Residential
711 E BUTTLES ST	48640	14-21-80-478	0.12453265	0.100969	10	N	Residential
409 STATE ST	48640	14-21-80-482	0.08321736	0.059792	10	N	Residential
707 E BUTTLES ST	48640	14-21-80-476	0.12436890	0.12436890	10	N	Residential
411 STATE ST	48640	14-21-80-484	0.08307177	0.08307177	10	N	Residential
701 E BUTTLES ST	48640	14-21-80-472	0.24732236	0.24732236	10	N	Residential
712 E INDIAN ST	48640	14-21-80-486	0.18262313	0.154943	10	N	Residential

Table 8-2
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Property ID Number	Total Property Acreage	Available Acreage for Sampling (Total acreage - Permanent Structures)	# of Increments	Does Property Contain Woodland Areas of >7,200 sq ft in size (Y/N)	Land Use (Residential / Non-residential)
706 E INDIAN ST	48640	14-21-80-488	0.14908812	0.112363	10	N	Residential
702 E INDIAN ST	48640	14-21-80-490	0.12409203	0.12409203	10	N	Residential
East of Facility							
306 KENT CT	48642	14-23-60-154	0.21775498	0.187263	10	N	Residential
301 WALTER CT	48642	14-23-60-088	0.24200219	0.195877	10	N	Residential
310 KENT CT	48642	14-23-60-152	0.20934214	0.166711	10	N	Residential
307 WALTER CT	48642	14-23-60-090	0.25817845	0.209166	10	N	Residential
309 WALTER CT	48642	14-23-60-092	0.21984235	0.179094	10	N	Residential
306 WALTER CT	48642	14-23-60-080	1.46912935	0.996877	20	N	Residential
314 KENT CT	48642	14-23-60-148	0.15080430	0.107066	10	N	Residential
311 WALTER CT	48642	14-23-60-094	0.21493851	0.178137	10	N	Residential
316 WALTER CT	48642	14-23-60-078	0.47353458	0.439364	20	N	Residential
320 WALTER CT	48642	14-23-60-076	0.34032174	0.311071	20	N	Residential
324 WALTER CT	48642	14-23-60-074	0.34036939	0.307745	20	N	Residential
322 KENT CT	48642	14-23-60-144	0.22899550	0.190652	10	N	Residential
328 WALTER CT	48642	14-23-60-072	0.32339420	0.263022	20	N	Residential
328 KENT CT	48642	14-23-60-142	0.24580309	0.24580309	10	N	Residential
329 WALTER CT	48642	14-23-60-102	0.22128358	0.197536	10	N	Residential
332 WALTER CT	48642	14-23-60-070	0.39721059	0.356687	20	N	Residential
332 KENT CT	48642	14-23-60-140	0.22007870	0.177137	10	N	Residential
401 WALTER CT	48642	14-23-60-106	0.22008762	0.166554	10	N	Residential
400 WALTER CT	48642	14-23-60-068	0.63567175	0.596985	20	N	Residential
400 KENT CT	48642	14-23-60-132	0.67557556	0.63986456	20	N	Residential
408 WALTER CT	48642	14-23-60-064	0.48253987	0.432122	20	N	Residential
410 KENT CT	48642	14-23-60-131	0.18237201	0.101571	10	N	Residential
409 WALTER CT	48642	14-23-60-110	0.19853196	0.15915	10	N	Residential
410 WALTER CT	48642	14-23-60-062	0.49399140	0.447218	20	N	Residential
412 KENT CT	48642	14-23-60-130	0.27060826	0.233946	10	N	Residential
413 WALTER CT	48642	14-23-60-112	0.29507442	0.261346	20	N	Residential
416 KENT CT	48642	14-23-60-128	0.42686996	0.37274	20	N	Residential
424 KENT CT	48642	14-23-60-124	0.22662708	0.204476	10	N	Residential
2201 MARK PUTNAM RD	48642	14-23-50-060	2.07206636	1.85033536	0	N	Non-Residential

Table 8-2
Year 1 Property Information
Implementation Plan for 2012

Property Address ¹	Property Zip	Property ID Number	Total Property Acreage	Available Acreage for Sampling (Total acreage - Permanent Structures)	# of Increments	Does Property Contain Woodland Areas of >7,200 sq ft in size (Y/N)	Land Use (Residential / Non-residential)
425 WALTER CT	48642	14-23-60-120	0.48391618	0.48391618	20	N	Residential
420 KENT CT	48642	14-23-60-126	0.27800628	0.245668	10	N	Residential
2208 BAY CITY RD	48642	14-23-60-122	0.23895908	0.199316	10	N	Residential
319 WALTER CT	48642	14-23-60-098	0.17675209	0.149673	10	N	Residential
318 KENT CT	48642	14-23-60-146	0.21563785	0.21473085	10	N	Residential
325 WALTER CT	48642	14-23-60-100	0.22112573	0.170721	10	N	Residential
312 KENT CT	48642	14-23-60-150	0.22631085	0.190768	10	N	Residential
301 KENT CT	48642	14-23-60-156	0.37979005	0.32929705	20	N	Residential
309 KENT CT	48642	14-23-60-160	1.46912935	1.46912935	0	N	Non-Residential
315 KENT CT	48642	14-23-60-164 (ne)	0.15546996	0.15546996	10	Y	Residential
315 KENT CT	48642	14-23-60-164	0.97523373	0.91544973	20	Y	Residential
319 KENT CT	48642	14-23-60-168	0.48764888	0.41908588	20	Y	Residential
323 KENT CT	48642	14-23-60-170	0.48765170	0.4561707	20	Y	Residential
327 KENT CT	48642	14-23-60-172	0.97033525	0.95121325	20	Y	Residential
331 KENT CT	48642	14-23-60-176	0.96961810	0.9433811	20	Y	Residential
409 KENT CT	48642	14-23-60-184	0.42574975	0.37153475	20	N	Residential
415 KENT CT	48642	14-23-60-190	0.26772867	0.17317567	10	N	Residential
419 KENT CT	48642	14-23-60-196	0.26461667	0.21962467	10	N	Residential
2127 MARK PUTNAM RD	48642	14-23-50-070	0.95232106	0.95232106	0	N	Non-Residential

Notes:

- > 0.25 acres = 10 increments
- <0.25 but >1 acre = 20 increments
- > 1 acre = 30 + increments or divide

¹ All Properties are within the City of Midland, MI