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GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



LIESL EICHLER CLARK
DIRECTOR

VIA E-MAIL

TO: Members of the Michigan Legislature
FROM: Liesl Eichler Clark, Director 
DATE: March 17, 2022
SUBJECT: Report of Solid Waste Landfilled in Michigan for Fiscal Year 2021

In accordance with Section 11507a(2) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, attached is the Department of Environment, Great Lakes, and Energy's (EGLE) Report of Solid Waste Landfilled in Michigan for fiscal year (FY) 2021.

There was an overall 3 percent decrease in solid waste disposed in Michigan landfills last year:

- In FY 2021, 51,174,897 cubic yards were disposed.
- In FY 2020, 52,697,247 cubic yards were disposed.

Waste from Michigan residents and businesses decreased by 503,696 cubic yards. Imported waste decreased by 1,018,654 cubic yards. Total imported solid waste was approximately 22.1 percent of all waste disposed in Michigan landfills in FY 2021. The largest source of waste imports into Michigan continues to be from Canada at 17.4 percent of all waste disposed in Michigan landfills.

- In FY 2021, 11,291,954 cubic yards of waste were disposed from other states and Canada.
- In FY 2020, 12,310,608 cubic yards of waste were disposed from other states and Canada.

The disposal of this large volume of waste from outside of Michigan continues to highlight the relatively low cost for disposal. Low disposal costs hinder the development of a more sustainable materials management approach (i.e., reduce, reuse, recycle) to handling waste in Michigan. The life cycle costs for disposal versus materials management can be significantly higher when considering the long-term management expenses of waste disposal facilities.

Michigan landfills have a total of approximately 26 years of remaining noncaptive disposal capacity based on the capacity used during FY 2021, additional permitted landfill capacity, and the total remaining capacity of facilities open to the public. Please note that this estimate does not take into consideration any projected increase or decrease in waste disposal rates, waste diversion programs, or any imposed restrictions, such as volume limitations, special conditions, or the waste import/export authorizations of each county. It should be further noted that with even modest success in the materials management approach, future disposal capacity will grow beyond the currently identified 26 years.

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If you need further information, please contact Elizabeth M. Browne, Director, Materials Management Division, at 517-242-2746; or you may contact me at 517-512-5992.

Attachment

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REPORT OF SOLID WASTE LANDFILLED IN MICHIGAN

October 1, 2020, through September 30, 2021

Prepared By:
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March 17, 2022

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INTRODUCTION

Section 11507a(1) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, requires all landfills in Michigan to “annually submit a report to the state and the county and municipality in which the landfill is located that contains information on the amount of solid waste received by the landfill during the year itemized, to the extent possible, by county, state, or country of origin and the amount of remaining disposal capacity at the landfill.”

Section 11507a(2) of Part 115 states, “By January 31 of each year, the department shall submit to the legislature a report summarizing the information obtained under subsection (1).” This report covers the period from October 1, 2020, through September 30, 2021, and is the twenty sixth annual Report of Solid Waste Landfilled in Michigan, as compiled from the information submitted by the individual landfills.

It is recognized by the Department of Environment, Great Lakes, and Energy (EGLE), that the data may include estimates as to remaining capacity, volume, and point of origin of the waste stream reported by each landfill. Additionally, use of both standard and waste-specific conversion factors between tons and cubic yards¹ may further alter the data accuracy.

The landfills report the waste received by category using Re-TRAC Connect™ Michigan Solid Waste Authorization Program (Re-TRAC). For purposes of this report, MCW means municipal and commercial waste and is typically residential-like waste; IW means industrial waste; C&D means construction and demolition waste; ADC means alternate daily cover; and OTHER means asbestos, contaminated soils not used as ADC, and technologically enhanced naturally occurring radioactive material (TENORM). For additional information on the waste types that fall within each of these categories, see the Waste Type Key found in Appendix A. Certain IW types are accounted for

¹ Please note that Michigan uses the unit of measure of cubic yards to be reported by landfills. To aid in comparing other states' waste to Michigan's, a simple conversion of 3 cubic yards equals 1 ton of waste has been applied and is referenced in footnotes in this report.

specifically in Re-TRAC, primarily to calculate the financial assurance applicable to those types of wastes. These specially accounted wastes are: (1) foundry sand; (2) coal or wood ash; (3) wastewater treatment sludges; and (4) sludges from wood processing or paper manufacturing. If these wastes are placed in segregated cells or otherwise separated from other wastes in a landfill, they are labeled in this report as “IW – Segregated” (if each specially accounted waste is disposed separately) or “IW – Mixed” (if the specially accounted wastes are mixed). For additional information on these wastes, see Sections 11525(3) and (4) of Part 115.

It should be noted that this report addresses waste disposed in Michigan landfills from in-state and out-of-state locations. It does not address waste originating in Michigan that is transported to locations outside Michigan for disposal. Additionally, this report covers only waste landfilled in Michigan and does not attempt to determine the amount of waste removed from the overall waste stream prior to final disposal by such means as waste reduction and recycling. Incineration in Michigan is also not addressed except for the final landfilling of ash from municipal incinerators.

WASTE DISPOSAL SUMMARY INFORMATION

Total waste disposal in Michigan landfills was reported at 51,174,897 cubic yards, a decrease of 1,522,350.05 cubic yards or about 2.9 percent over the fiscal year (FY) 2020 report data. Waste generated in Michigan decreased from 40,386,639 cubic yards in the previous reporting period to 39,882,943 cubic yards, a decrease of about 1.2 percent. Total imports of waste into Michigan landfills decreased from the previous reporting period from 12,310,608 cubic yards to 11,291,954 cubic yards, a decrease of about 8.3 percent. The largest source of waste imports to Michigan continues to be from Canada, with total reported imports to landfills of 8,903,695 cubic yards, down 150,193.74 cubic yards or about 1.7 percent from the FY 2020 report data. Canadian waste imports equal about 17.4 percent of all waste disposed in Michigan landfills. Waste reported from other states and Canada totaled about 22.1 percent of all solid waste disposed in Michigan landfills. Imported waste comprised 23.4 percent of solid

waste disposed in Michigan landfills in the previous year. Further, the data that follows outlines the out-of-state imports to Michigan over the past twenty-six FYs. Imports from other states decreased to 2,388,259 cubic yards from 3,256,719 cubic yards, a decrease of about 26.7 percent. This information is presented in Tables 1 and 2 and Figures 1 and 2 and shows only the past ten years' data. Previous years' data can be found online by clicking the following hyperlink: [Annual Reports of Solid Waste Landfilled in Michigan](#).

Audits are performed by EGLE to reconcile quantities reported by the landfills, to ensure proper surcharge payments and Perpetual Care Fund (PCF) deposits. Therefore, please note that the quantities and percentages shown for previous years may reflect corrections submitted by the landfills since the last annual report was published. Consequently, Tables 1 and 2 and Figures 1 and 2 may differ from previous reports.

Recognizing that the solid waste data presented in this report is used to project revenues from solid waste surcharges specified in Section 11525a of Part 115, only the solid waste volumes reported at noncaptive² disposal facilities should be used for the calculation of the 12 cents per cubic yard surcharge. For FY 2021 that amount was 49,143,874 cubic yards. The remaining waste was received at captive facilities, which are subject to a flat fee of \$500 to \$3,000, based upon the volume of waste received. Note that the volumes in this report may not agree with the volumes also reported by the landfills in their quarterly surcharge reports.

² Part 115 recognizes two types of facilities, captive and noncaptive, for the purposes of the payment of the surcharge assessed under Section 11525a. Section 11525a(5) states, in pertinent part, "captive facility' means a landfill that accepts for disposal only nonhazardous industrial waste generated only by the owner of the landfill or a nonhazardous industrial waste landfill that is specified in section 11525(3)."

TABLE 1
SOLID WASTE DISPOSED IN MICHIGAN LANDFILLS
(All Figures in Cubic Yards)

Fiscal Year	Michigan	Canada	Other States	Totals
FY 2012	34,485,534	6,512,223	2,912,750	43,910,507
FY 2013	34,233,158	7,594,716	2,785,700	44,613,574
FY 2014	36,281,718	7,639,167	2,830,235	46,751,120
FY 2015	36,862,512	8,090,942	2,672,899	47,626,353
FY 2016	37,488,887	8,883,958	2,690,793	49,063,638
FY 2017	37,723,925	10,572,922	2,307,845	50,604,692
FY 2018	39,932,328	9,770,385	2,742,502	52,445,215
FY 2019	43,324,503	9,534,163	2,845,978	55,704,644
FY 2020	40,386,639	9,053,889	3,256,719	52,697,247
FY 2021	39,882,943 ³	8,903,695 ⁴	2,388,259 ⁵	51,174,897 ⁶

TABLE 2
SOLID WASTE DISPOSED IN MICHIGAN LANDFILLS
BY PERCENTAGE

Fiscal Year	Michigan	Canada	Other States
FY 2012	78.5%	14.8%	6.6%
FY 2013	76.7%	17%	6.2%
FY 2014	77.6%	16.3%	6.1%
FY 2015	77.4%	17%	5.6%
FY 2016	76.4%	18.1%	5.5%
FY 2017	74.5%	20.9%	4.6%
FY 2018	76.1%	18.6%	5.2%
FY 2019	77.8%	17.1%	5.1%
FY 2020	76.6%	17.2%	6.2%
FY 2021	77.9%	17.4%	4.7%

³ MICHIGAN WASTE: 13,294,320 tons

⁴ CANADIAN WASTE: 2,967,898 tons

⁵ OTHER STATES WASTE: 796,086 tons

⁶ TOTAL WASTE DISPOSED IN MICHIGAN LANDFILLS: 17,058,300 tons

Figure 1
Out-Of-State Waste As Percentage Of Total Disposal
in Michigan Landfills

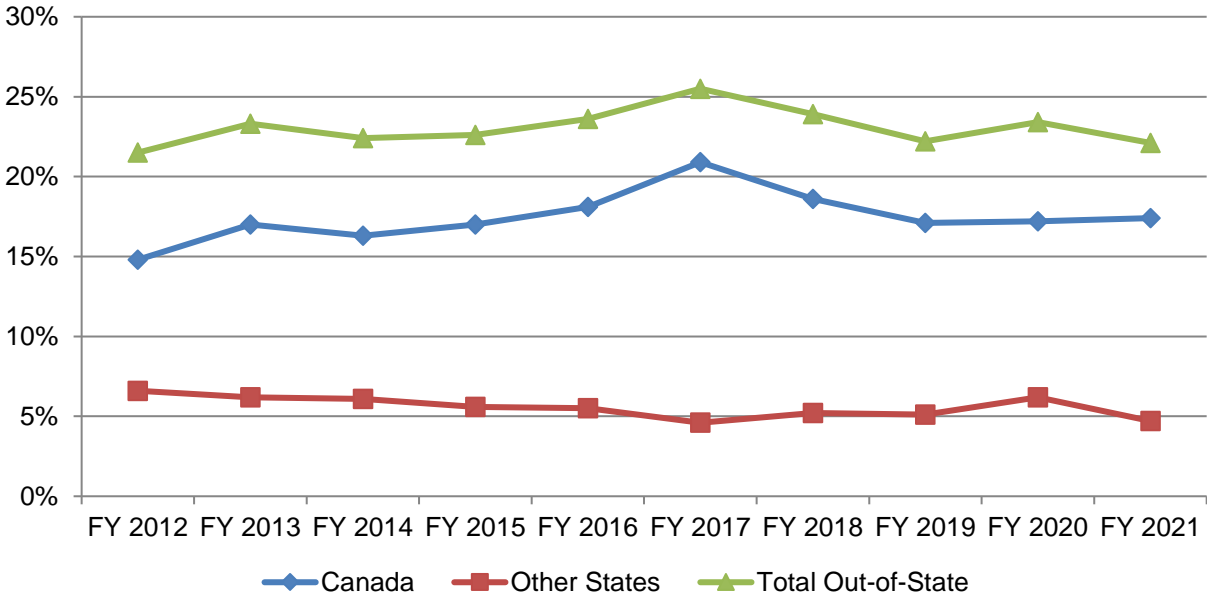
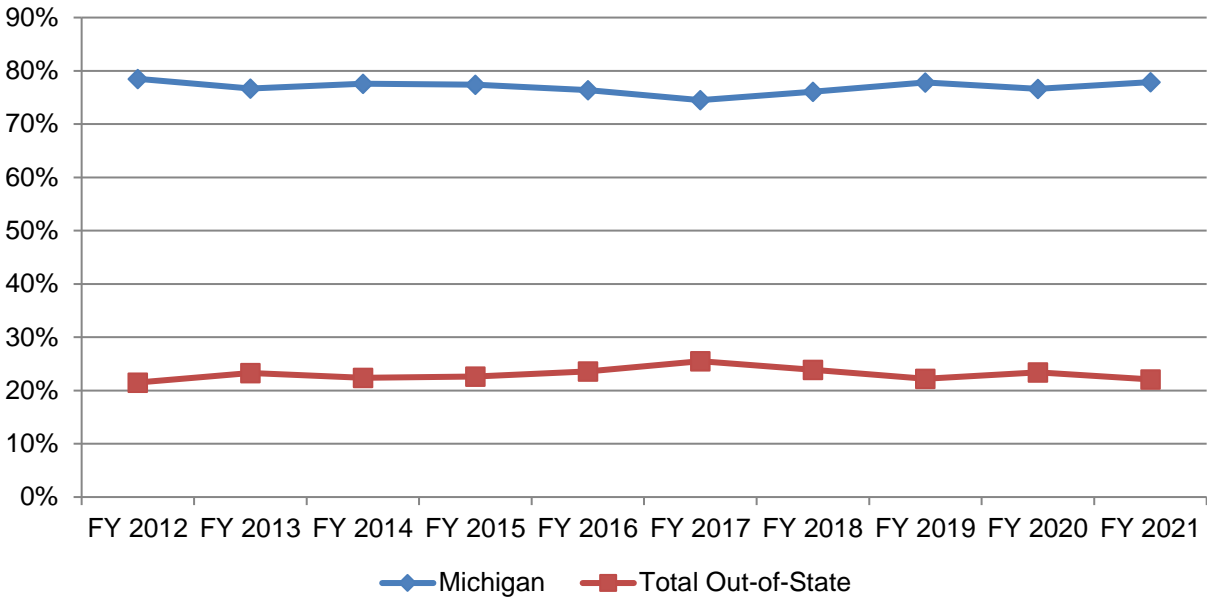


Figure 2
Michigan and Out-Of-State Waste as Percentage Of Total
Disposal In Michigan Landfills



The following provides details concerning the volumes of waste disposed in Michigan landfills and provides a breakdown of the waste imported into Michigan for disposal, for all landfills that reported this information. Table 3 displays waste disposal summary information for both in-state and imported waste. Some facilities may have reported data from an unknown origin. All unknown waste is reported as in-state waste; however, it is expected that some of the unassigned waste is from out-of-state sources.

TABLE 3			
SOLID WASTE DISPOSAL SOURCE SUMMARY			
(Volume in Cubic Yards)			
WASTE TYPE	IN-STATE	IMPORTED	TOTAL
MCW	26,842,272	9,523,000	36,365,272
MCW – MSW* INCINERATOR ASH	46,555	0	46,555
SUBTOTAL MCW	26,888,827	9,523,000	36,411,827
IW	3,185,160	496,554	3,681,714
IW – SEGREGATED	1,567,662	0	1,567,662
IW – MIXED	420,861	0	420,861
SUBTOTAL IW	5,173,683	496,554	5,670,237
C&D	4,009,729	872,443	4,882,171
ADC	863,970	331,408	1,195,378
OTHER	2,946,734	68,550	3,015,284
GRAND TOTAL	39,882,943	11,291,954	51,174,897

*Municipal Solid Waste

Table 3A displays the IW disposal summary for both in-state and imported waste. Landfills are only required to report to EGLE, to the extent possible; therefore, some landfills may not have broken down the materials disposed to the level of detail as shown below or have materials that are not specifically identified in Re-TRAC; thus, they have categorized all their industrial waste as “IW – Other.”

TABLE 3A			
INDUSTRIAL WASTE DISPOSAL SOURCE SUMMARY			
(Volume in Cubic Yards)			
WASTE TYPE	IN-STATE	IMPORTED	TOTAL
IW - Coal Ash	1,547,153	0	1,547,153
IW - Wood Ash	90,859	0	90,859
IW - Wood/Paper Sludges	120,129	1,103	121,232
IW - Wood/Paper Sediment	47,219	0	47,219
IW - Other	2,392,999	409,608	2,802,607
IW - Other Sludges	209,248	4,141	213,389
IW - Wastewater Sludges	310,056	5,739	315,795
IW - Cement Kiln Dust	260,000	0	260,000
IW - Foundry Sand	139,635	75,963	215,599
IW - Flue Gas Desulfurization Material	55,130	0	55,130
IW - Lime Kiln Dust	1,255	0	1,255
GRAND TOTAL	5,173,683	496,554	5,670,237

Table 3B displays the ADC Disposal summary for both in-state and imported waste. ADC is comprised of manufactured or certain waste materials, as defined in the Solid Waste Management rules⁷, that may be used in lieu of six inches of earthen materials at Type II and Type III landfills. Use of these materials must be in accordance with an operational plan approved by EGLE in an operating license.

⁷ [See R 299.4429](#)

TABLE 3B			
ALTERNATIVE DAILY COVER WASTE DISPOSAL SOURCE SUMMARY (Volume in Cubic Yards)			
WASTE TYPE	IN-STATE	IMPORTED	TOTAL
ADC - Other	116,047	286	116,333
ADC - Auto Shredder Residuals	469,035	284,912	753,947
ADC - Contaminated Soils	148,406	6,355	154,761
ADC - Chipped Tires	61,563	466	62,029
ADC - Sludges	33,058	1,319	34,377
ADC - Foundry Sand	35,861	38,070	73,931
GRAND TOTAL	863,970	331,408	1,195,378

Table 3C displays the Other Waste Types disposal summary for both in-state and imported waste that includes materials that do not typically fit under the other waste disposal categories such as MCW, C&D, or IW. These specifically include Asbestos, Contaminated Soils, and TENORM.

TABLE 3C			
OTHER WASTE DISPOSAL SOURCE SUMMARY (Volume in Cubic Yards)			
WASTE TYPE	IN-STATE	IMPORTED	TOTAL
O - Asbestos	287,586	29,096	316,682
O - Contaminated Soils	2,631,189	26,823	2,658,012
O - TENORM	27,865	12,621	40,486
GRAND TOTAL	2,946,640	68,540	3,015,180

WASTE IMPORTS

Based on the reported information for FY 2021, the solid waste industry in Michigan imported solid waste from 15 other states and Canada for disposal in Michigan landfills. Table 4 indicates the volume of MCW, IW, C&D, ADC, and OTHER imported and the

state or country of origin of the waste. Figure 3 indicates the total volume of waste imported by state or country of origin of the waste.

WASTE ORIGIN	MCW	IW	C&D	ADC	Other	TOTAL WASTE
CANADA	8,043,621	83,573	751,593	0	24,908	8,903,695
CONNECTICUT	0	943	0	0	0	943
IDAHO	0	0	0	0	1	1
ILLINOIS	0	0	0	466	1,106	1,572
INDIANA	427,980	23,436	66,985	6,355	962	525,718
KANSAS	0	0	0	0	5	5
KENTUCKY	0	0	0	0	12	12
MASSACHUSETTS	344,769	0	62	0	0	344,831
NEW JERSEY	0	22,103	0	0	0	22,103
OHIO	571,733	298,439	50,654	284,912	29,965	1,235,702
TENNESSEE	0	0	0	0	9	9
TEXAS	0	0	0	0	2	2
VIRGINIA	0	0	0	0	1	1
WASHINGTON	0	0	0	0	1	1
WEST VIRGINIA	90	0	30	0	4	124
WISCONSIN	134,807	68,060	3,120	39,675	11,574	257,235

**Figure 3
Imported Waste By Origin
(Volume in Cubic Yards)**

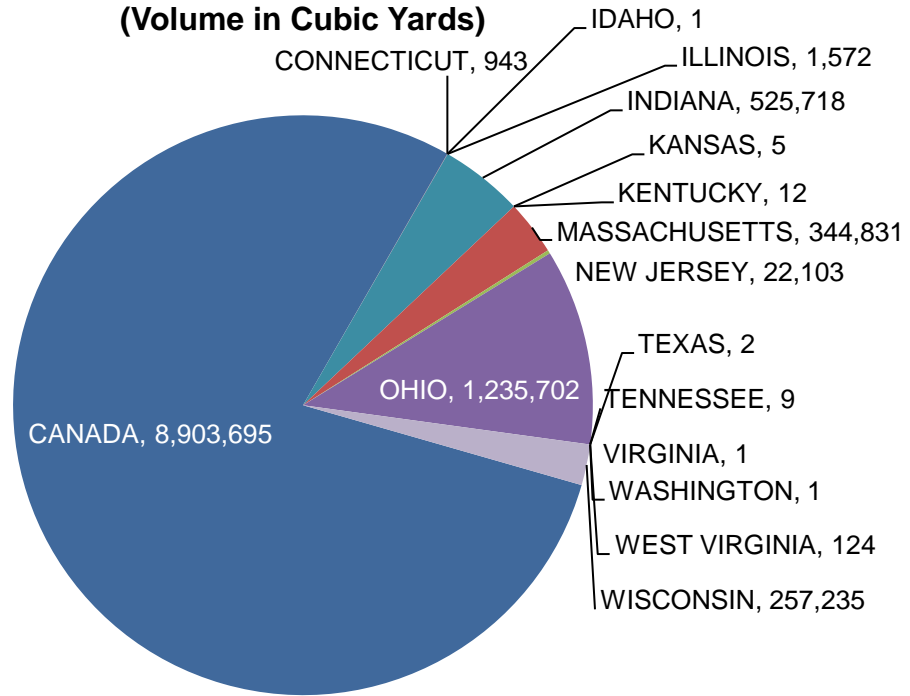


Table 5 shows the total amount of waste imported into each county from all out-of-state sources.

TABLE 5 IMPORTED WASTE BY COUNTY AND PLACE OF ORIGIN - FY 2021 (Volume in Cubic Yards)		
COUNTY	WASTE ORIGIN	WASTE VOLUME
ALGER	WISCONSIN	3,195
BERRIEN	ILLINOIS	466
BERRIEN	INDIANA	337,045
CHIPPEWA	CANADA	50,946
DICKINSON	WISCONSIN	85
GENESEE	CONNECTICUT	943
GENESEE	NEW JERSEY	22,103
GENESEE	OHIO	5,783

TABLE 5		
IMPORTED WASTE BY COUNTY AND PLACE OF ORIGIN - FY 2021		
(Volume in Cubic Yards)		
COUNTY	WASTE ORIGIN	WASTE VOLUME
JACKSON	OHIO	132,776
MACOMB	CANADA	4,530,138
MACOMB	OHIO	1,683
MENOMINEE	WISCONSIN	173,783
MONROE	OHIO	811,880
ONTONAGON	WISCONSIN	80,170
PRESQUE ISLE	CANADA	35,040
ST CLAIR	CANADA	391,034
ST JOSEPH	INDIANA	188,647
WASHTENAW	CANADA	579,446
WASHTENAW	OHIO	3,361
WAYNE	CANADA	3,317,091
WAYNE	MASSACHUSETTS	344,831
WAYNE	OHIO	280,192
WAYNE	WEST VIRGINIA	120
WEXFORD	IDAHO	1
WEXFORD	ILLINOIS	1,106
WEXFORD	INDIANA	26
WEXFORD	KANSAS	5
WEXFORD	KENTUCKY	12
WEXFORD	OHIO	28
WEXFORD	TENNESSEE	9
WEXFORD	TEXAS	2
WEXFORD	VIRGINIA	1
WEXFORD	WASHINGTON	1
WEXFORD	WEST VIRGINIA	4
WEXFORD	WISCONSIN	3

Table 6 shows the total amount of waste disposed in Michigan landfills from each Michigan county.

TABLE 6	
TOTAL WASTE DISPOSED IN MICHIGAN LANDFILLS FROM EACH COUNTY -	
FY 2021	
(Volume in Cubic Yards)	
COUNTY	WASTE VOLUME
ALCONA	22,968
ALGER	31,475
ALLEGAN	430,517
ALPENA	398,738
ANTRIM	176,121
ARENAC	40,670
BARAGA	38,615
BARRY	89,981
BAY	916,419
BENZIE	32,228
BERRIEN	830,331
BRANCH	131,294
CALHOUN	615,878
CASS	178,159
CHARLEVOIX	19,139
CHEBOYGAN	114,212
CHIPPEWA	109,511
CLARE	185,074
CLINTON	202,107
CRAWFORD	53,721
DELTA	132,077
DICKINSON	229,470
EATON	332,641
EMMET	144,321

TABLE 6
TOTAL WASTE DISPOSED IN MICHIGAN LANDFILLS FROM EACH COUNTY -
FY 2021
(Volume in Cubic Yards)

COUNTY	WASTE VOLUME
GENESEE	1,503,435
GLADWIN	56,460
GOGEBIC	24,216
GRAND TRAVERSE	404,241
GRATIOT	104,349
HILLSDALE	61,368
HOUGHTON	84,601
HURON	141,645
INGHAM	1,010,106
IONIA	135,856
IOSCO	111,195
IRON	11,751
ISABELLA	192,815
JACKSON	476,992
KALAMAZOO	1,167,314
KALKASKA	124,228
KENT	1,912,228
KEWEENAW	3,585
LAKE	23,229
LAPEER	291,524
LEELANAU	22,949
LENAWEE	59,256
LIVINGSTON	249,882
LUCE	15,250
MACKINAC	23,769
MACOMB	2,329,704
MANISTEE	180,824

TABLE 6
TOTAL WASTE DISPOSED IN MICHIGAN LANDFILLS FROM EACH COUNTY -
FY 2021
(Volume in Cubic Yards)

COUNTY	WASTE VOLUME
MARQUETTE	151,049
MASON	100,263
MECOSTA	75,927
MENOMINEE	58,698
MIDLAND	492,620
MISSAUKEE	52,336
MONROE	1,438,446
MONTCALM	177,879
MONTMORENCY	35,188
MUSKEGON	568,249
NEWAYGO	140,103
OAKLAND	3,775,191
OCEANA	79,976
OGEMAW	53,676
ONTONAGON	10,128
OSCEOLA	65,163
OSCODA	25,122
OTSEGO	34,511
OTTAWA	1,392,451
PRESQUE ISLE	25,161
ROSCOMMON	76,353
SAGINAW	561,430
SANILAC	127,168
SCHOOLCRAFT	87,873
SHIAWASSEE	273,233
ST CLAIR	846,453
ST JOSEPH	172,821

TABLE 6	
TOTAL WASTE DISPOSED IN MICHIGAN LANDFILLS FROM EACH COUNTY - FY 2021 (Volume in Cubic Yards)	
COUNTY	WASTE VOLUME
TUSCOLA	105,441
VAN BUREN	175,194
WASHTENAW	1,080,485
WAYNE	11,323,045
WEXFORD	122,873

Table 6A shows the total amount of waste disposed by each county that has a landfill. [Click here](#) to view an online map that indicates where Michigan's active solid waste landfills are located.

TABLE 6A	
TOTAL WASTE DISPOSED BY COUNTY - FY 2021 (Volume in Cubic Yards)	
COUNTY	TOTAL WASTE VOLUME
ALGER	155,466
ALPENA	260,000
BARRY	167,881
BAY	1,060,200
BERRIEN	1,764,779
CALHOUN	1,273,858
CHARLEVOIX	0
CHIPPEWA	143,239
CLARE	403,230
CLINTON	1,806,610
CRAWFORD	168,925
DELTA	158,589
DICKINSON	114,466

TABLE 6A
TOTAL WASTE DISPOSED BY COUNTY - FY 2021
(Volume in Cubic Yards)

COUNTY	TOTAL WASTE VOLUME
GENESEE	1,925,293
HURON	181,321
IONIA	235,396
JACKSON	441,682
KENT	844,121
LEELANAU	82,377
MACOMB	7,104,209
MANISTEE	304,866
MARQUETTE	150,222
MENOMINEE	210,802
MIDLAND	491,506
MONROE	1,309,304
MONTCALM	754,584
MONTMORENCY	237,181
MUSKEGON	423,298
OAKLAND	2,311,358
ONTONAGON	243,555
OTTAWA	2,597,363
PRESQUE ISLE	426,039
SAGINAW	613,751
SANILAC	81,572
SCHOOLCRAFT	92,860
SHIAWASSEE	618,478
ST CLAIR	1,248,654
ST JOSEPH	767,370
WASHTENAW	4,014,736
WAYNE	15,232,086

TABLE 6A	
TOTAL WASTE DISPOSED BY COUNTY - FY 2021 (Volume in Cubic Yards)	
COUNTY	TOTAL WASTE VOLUME
WEXFORD	753,672

FACILITY INFORMATION

The total of MCW disposed, total of IW, C&D, ADC, and OTHER disposed, and total volume disposed at each of the 66 reporting facilities is given in Table 7. Tables 8 and 9 list the MCW and the IW, C&D, ADC, and OTHER disposal volumes ranked in order of volume disposed. The highlighted type of waste in each of Tables 8 and 9 corresponds to the focus of that table. However, all waste information is also provided for reference purposes.

TABLE 7			
TOTAL WASTE DISPOSAL BY FACILITY - ALPHABETICAL LISTING - FY 2021 (Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
ARBOR HILLS LANDFILL, INC.	3,084,799	929,937	4,014,736
AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	482,455	533,365	1,015,820
BELLE RIVER POWER PLANT BOTTOM ASH AND DIVERSION BASINS	0	34,974	34,974
BRENT RUN LANDFILL	597,706	87,559	685,265
C & C EXPANDED SANITARY LANDFILL	984,793	289,065	1,273,858
CARLETON FARMS LANDFILL	4,115,217	2,140,642	6,255,859
CENTRAL SANITARY LANDFILL	703,576	51,008	754,584
CITIZENS DISPOSAL, INC.	593,562	646,466	1,240,028
CITY ENVIRONMENTAL SERVICES, INC. OF WATERS	124,598	44,328	168,925
CITY OF LIVONIA LANDFILL	0	2,358	2,358

TABLE 7			
TOTAL WASTE DISPOSAL BY FACILITY - ALPHABETICAL LISTING - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
CITY OF MIDLAND SANITARY LANDFILL	248,553	242,953	491,506
CONSUMERS ENERGY J H CAMPBELL COMPLEX	0	232,000	232,000
CONSUMERS WEADOCK COMPLEX	0	479,350	479,350
COUNTY OF MUSKEGON - SOLID WASTE LANDFILL	339,943	83,355	423,298
DAFTER SANITARY LANDFILL	135,142	8,097	143,239
DELTA COUNTY LANDFILL	101,247	17,200	118,447
DETROIT EDISON CO RANGE ROAD ASH DISPOSAL	0	203,494	203,494
DETROIT EDISON CO SIBLEY QUARRY	0	230,179	230,179
DTE MONROE POWER PLANT	0	378,528	378,528
EAGLE VALLEY RECYCLE & DISPOSAL FACILITY	1,305,429	233,117	1,538,545
EVER-GREEN LANDFILL AND RECYCLING CENTER, LLC	0	12,530	12,530
GENERAL MOTORS, LLC - SAGINAW METAL CASTING OPERATIONS - FORMERLY WDS NO. 395505	0	5,865	5,865
GFL NORTH MICHIGAN LANDFILL, LLC	350,606	75,434	426,039
GLENS SANITARY LANDFILL	64,852	17,525	82,377
GRANGER GRAND RIVER LANDFILL	243	0	243
GRANGER WOOD STREET LANDFILL	1,806,337	30	1,806,367
HAYWIRE LANDFILL	0	42,333	42,333
HIAWATHA SHORES LANDFILL	38,705	11,823	50,527
HURON LANDFILL CORP. - DBA HURON LANDFILL	116,819	64,502	181,321
K AND W LANDFILL, INC.	216,502	14,523	231,025

TABLE 7			
TOTAL WASTE DISPOSAL BY FACILITY - ALPHABETICAL LISTING - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
LAFARGE MIDWEST, INC.	0	260,000	260,000
LIBERTY ENVIRONMENTALISTS LANDFILL	0	243,540	243,540
MANISTEE COUNTY LANDFILL, INC.	206,376	98,490	304,866
MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY	111,132	39,090	150,222
MATLIN ROAD LANDFILL	0	5,924	5,924
MCGILL ROAD LANDFILL	176,657	21,485	198,142
MICHIGAN ENVIRONS, INC.	74,906	135,896	210,802
MONTMORENCY-OSCODA- ALPENA SWMA	154,289	82,891	237,181
NIAGARA DEVELOPMENT, LLC dba IN MICHIGAN AS NIAGARA DEVELOPMENT PARTNERS	0	8,954	8,954
NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY	213,738	189,492	403,230
OAKLAND HEIGHTS DEVELOPMENT, INC.	543,944	228,868	772,813
ORCHARD HILL SANITARY LANDFILL	755,739	0	755,739
OTTAWA COUNTY FARMS LANDFILL	808,966	540,577	1,349,543
PEOPLES LANDFILL, INC.	508,496	99,390	607,886
PINE TREE ACRES, INC.	6,713,751	390,458	7,104,209
PITSCH SANITARY LANDFILL	52,690	182,706	235,396
RIVERVIEW LAND PRESERVE	1,105,841	563,774	1,669,615
SAUK TRAIL HILLS LANDFILL	827,051	534,317	1,361,367
SC HOLDINGS, INC.	150,723	17,158	167,881
SMITHS CREEK LANDFILL	799,756	195,183	994,939

TABLE 7			
TOTAL WASTE DISPOSAL BY FACILITY - ALPHABETICAL LISTING - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
SOUTH KENT LANDFILL	689,821	153,260	843,080
SOUTHEAST BERRIEN COUNTY LANDFILL	808,530	200,510	1,009,040
SPARTA FOUNDRY WASTE FACILITY	0	1,041	1,041
ST CLAIR POWER PLANT BOTTOM ASH BASINS	0	15,247	15,247
ST MARYS CEMENT U.S., LLC	0	0	0
TRI-CITY RECYCLING AND DISPOSAL FACILITY	63,873	17,699	81,572
VENICE PARK RECYCLING & DISPOSAL FACILITY	429,650	188,828	618,478
VERSO ESCANABA, LLC	0	40,142	40,142
VERSO QUINNESEC, LLC	0	105,512	105,512
VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL	629,381	295,471	924,852
WESTSIDE RECYCLING & DISPOSAL FACILITY	550,680	216,690	767,370
WEXFORD COUNTY LANDFILL, LLC	651,539	102,133	753,672
WHITEFEATHER LANDFILL	338,631	242,219	580,850
WOOD ISLAND WASTE MANAGEMENT, INC.	141,960	13,506	155,466
WOODLAND MEADOWS RDF- VAN BUREN	3,492,624	2,220,083	5,712,707

TABLE 8			
MCW DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
PINE TREE ACRES, INC.	6,713,751	390,458	7,104,209
CARLETON FARMS LANDFILL	4,115,217	2,140,642	6,255,859

TABLE 8			
MCW DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
WOODLAND MEADOWS RDF- VAN BUREN	3,492,624	2,220,083	5,712,707
ADVANCED DISPOSAL SERVICES ARBOR HILLS LANDFILL, INC.	3,084,799	929,937	4,014,736
GRANGER WOOD STREET LANDFILL	1,806,337	30	1,806,367
EAGLE VALLEY RECYCLE & DISPOSAL FACILITY	1,305,429	233,117	1,538,545
RIVERVIEW LAND PRESERVE C & C EXPANDED SANITARY LANDFILL	1,105,841	563,774	1,669,615
SAUK TRAIL HILLS LANDFILL	827,051	534,317	1,361,367
OTTAWA COUNTY FARMS LANDFILL	808,966	540,577	1,349,543
SOUTHEAST BERRIEN COUNTY LANDFILL	808,530	200,510	1,009,040
SMITHS CREEK LANDFILL	799,756	195,183	994,939
ORCHARD HILL SANITARY LANDFILL	755,739	0	755,739
CENTRAL SANITARY LANDFILL	703,576	51,008	754,584
SOUTH KENT LANDFILL	689,821	153,260	843,080
WEXFORD COUNTY LANDFILL, LLC	651,539	102,133	753,672
VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL	629,381	295,471	924,852
BRENT RUN LANDFILL	597,706	87,559	685,265
CITIZENS DISPOSAL, INC.	593,562	646,466	1,240,028
WESTSIDE RECYCLING & DISPOSAL FACILITY	550,680	216,690	767,370
OAKLAND HEIGHTS DEVELOPMENT, INC.	543,944	228,868	772,813
PEOPLES LANDFILL, INC.	508,496	99,390	607,886

TABLE 8			
MCW DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	482,455	533,365	1,015,820
VENICE PARK RECYCLING & DISPOSAL FACILITY	429,650	188,828	618,478
GFL NORTH MICHIGAN LANDFILL, LLC	350,606	75,434	426,039
COUNTY OF MUSKEGON - SOLID WASTE LANDFILL	339,943	83,355	423,298
WHITEFEATHER LANDFILL	338,631	242,219	580,850
CITY OF MIDLAND SANITARY LANDFILL	248,553	242,953	491,506
K AND W LANDFILL, INC.	216,502	14,523	231,025
NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY	213,738	189,492	403,230
MANISTEE COUNTY LANDFILL, INC.	206,376	98,490	304,866
MCGILL ROAD LANDFILL	176,657	21,485	198,142
MONTMORENCY-OSCODA-ALPENA SWMA	154,289	82,891	237,181
SC HOLDINGS, INC.	150,723	17,158	167,881
WOOD ISLAND WASTE MANAGEMENT, INC.	141,960	13,506	155,466
DAFTER SANITARY LANDFILL	135,142	8,097	143,239
CITY ENVIRONMENTAL SERVICES, INC. OF WATERS	124,598	44,328	168,925
HURON LANDFILL CORP. - DBA HURON LANDFILL	116,819	64,502	181,321
MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY	111,132	39,090	150,222
DELTA COUNTY LANDFILL	101,247	17,200	118,447
MICHIGAN ENVIRONS, INC.	74,906	135,896	210,802
GLENS SANITARY LANDFILL	64,852	17,525	82,377

TABLE 8			
MCW DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
TRI-CITY RECYCLING AND DISPOSAL FACILITY	63,873	17,699	81,572
PITSCH SANITARY LANDFILL	52,690	182,706	235,396
HIAWATHA SHORES LANDFILL	38,705	11,823	50,527
GRANGER GRAND RIVER LANDFILL	243	0	243

TABLE 9			
IW AND C&D DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
WOODLAND MEADOWS RDF-VAN BUREN	3,492,624	2,220,083	5,712,707
CARLETON FARMS LANDFILL	4,115,217	2,140,642	6,255,859
ADVANCED DISPOSAL SERVICES ARBOR HILLS LANDFILL, INC.	3,084,799	929,937	4,014,736
CITIZENS DISPOSAL, INC.	593,562	646,466	1,240,028
RIVERVIEW LAND PRESERVE	1,105,841	563,774	1,669,615
OTTAWA COUNTY FARMS LANDFILL	808,966	540,577	1,349,543
SAUK TRAIL HILLS LANDFILL	827,051	534,317	1,361,367
AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	482,455	533,365	1,015,820
CONSUMERS WEADOCK COMPLEX	0	479,350	479,350
PINE TREE ACRES, INC.	6,713,751	390,458	7,104,209
DTE MONROE POWER PLANT	0	378,528	378,528
VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL	629,381	295,471	924,852

TABLE 9			
IW AND C&D DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
C & C EXPANDED SANITARY LANDFILL	984,793	289,065	1,273,858
LAFARGE MIDWEST, INC.	0	260,000	260,000
LIBERTY ENVIRONMENTALISTS LANDFILL	0	243,540	243,540
CITY OF MIDLAND SANITARY LANDFILL	248,553	242,953	491,506
WHITEFEATHER LANDFILL	338,631	242,219	580,850
EAGLE VALLEY RECYCLE & DISPOSAL FACILITY	1,305,429	233,117	1,538,545
CONSUMERS ENERGY J H CAMPBELL COMPLEX	0	232,000	232,000
DETROIT EDISON CO SIBLEY QUARRY	0	230,179	230,179
OAKLAND HEIGHTS DEVELOPMENT, INC.	543,944	228,868	772,813
WESTSIDE RECYCLING & DISPOSAL FACILITY	550,680	216,690	767,370
DETROIT EDISON CO RANGE ROAD ASH DISPOSAL	0	203,494	203,494
SOUTHEAST BERRIEN COUNTY LANDFILL	808,530	200,510	1,009,040
SMITHS CREEK LANDFILL	799,756	195,183	994,939
NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY	213,738	189,492	403,230
VENICE PARK RECYCLING & DISPOSAL FACILITY	429,650	188,828	618,478
PITSCH SANITARY LANDFILL	52,690	182,706	235,396
SOUTH KENT LANDFILL	689,821	153,260	843,080
MICHIGAN ENVIRONS, INC.	74,906	135,896	210,802
VERSO QUINNESEC, LLC	0	105,512	105,512
WEXFORD COUNTY LANDFILL, LLC	651,539	102,133	753,672

TABLE 9			
IW AND C&D DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
PEOPLES LANDFILL, INC.	508,496	99,390	607,886
MANISTEE COUNTY LANDFILL, INC.	206,376	98,490	304,866
BRENT RUN LANDFILL	597,706	87,559	685,265
COUNTY OF MUSKEGON - SOLID WASTE LANDFILL	339,943	83,355	423,298
MONTMORENCY-OSCODA- ALPENA SWMA	154,289	82,891	237,181
GFL NORTH MICHIGAN LANDFILL, LLC	350,606	75,434	426,039
HURON LANDFILL CORP. - DBA HURON LANDFILL	116,819	64,502	181,321
CENTRAL SANITARY LANDFILL	703,576	51,008	754,584
CITY ENVIRONMENTAL SERVICES, INC. OF WATERS	124,598	44,328	168,925
HAYWIRE LANDFILL	0	42,333	42,333
VERSO ESCANABA, LLC	0	40,142	40,142
MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY	111,132	39,090	150,222
BELLE RIVER POWER PLANT BOTTOM ASH AND DIVERSION BASINS	0	34,974	34,974
MCGILL ROAD LANDFILL	176,657	21,485	198,142
TRI-CITY RECYCLING AND DISPOSAL FACILITY	63,873	17,699	81,572
GLENS SANITARY LANDFILL	64,852	17,525	82,377
DELTA COUNTY LANDFILL	101,247	17,200	118,447
SC HOLDINGS, INC.	150,723	17,158	167,881
ST CLAIR POWER PLANT BOTTOM ASH BASINS	0	15,247	15,247
K AND W LANDFILL, INC.	216,502	14,523	231,025
WOOD ISLAND WASTE MANAGEMENT, INC.	141,960	13,506	155,466

TABLE 9			
IW AND C&D DISPOSAL BY FACILITY - RANKED BY VOLUME - FY 2021			
(Volume in Cubic Yards)			
FACILITY NAME	MCW DISPOSED	IW, C&D, ADC, AND OTHER DISPOSED	TOTAL WASTE DISPOSED
EVER-GREEN LANDFILL AND RECYCLING CENTER, LLC	0	12,530	12,530
HIAWATHA SHORES LANDFILL	38,705	11,823	50,527
NIAGARA DEVELOPMENT, LLC dba IN MICHIGAN AS NIAGARA DEVELOPMENT PARTNERS	0	8,954	8,954
DAFTER SANITARY LANDFILL	135,142	8,097	143,239
MATLIN ROAD LANDFILL	0	5,924	5,924
GENERAL MOTORS, LLC - SAGINAW METAL CASTING OPERATIONS - FORMERLY WDS NO. 395505	0	5,865	5,865
CITY OF LIVONIA LANDFILL	0	2,358	2,358
SPARTA FOUNDRY WASTE FACILITY	0	1,041	1,041
GRANGER WOOD STREET LANDFILL	1,806,337	30	1,806,367

CAPACITY INFORMATION

As defined in Section 11507a(1) of Part 115, “Remaining disposal capacity shall be calculated as the permitted capacity less waste in place for any area that has been constructed and is not yet closed plus the permitted capacity for each area that has a permit for construction under this part but has not yet been constructed.” Table 10 presents projected remaining noncaptive disposal capacity, capacity used during the fiscal year, estimated years of remaining capacity (rounded to the nearest year) as reported by each facility, and an EGLE-calculated estimate of years of remaining capacity, for each noncaptive facility, alphabetically. The data presented in Column (C) for each facility are based on site-specific calculations, which may vary among facilities. The data representing capacity used in FY 2021 and estimated years remaining, as

calculated by each facility, are presented for informational purposes only. It should also be noted that the amount of waste received at each facility may differ from the capacity used during the FY, depending on the type of waste disposed and the degree of compaction.

EGLE used a simplistic formula to calculate estimated years of remaining capacity for each facility, using the data provided by each facility: Column (A) divided by Column (B) equals Column (D). Although, in some cases, the facility-projected years of remaining capacity in Column (C) equals the calculated remaining capacity in Column (D), it must be noted that each facility may have used a different formula to calculate their projected years of remaining capacity, and therefore, may differ from the calculations presented in Column (D).

TABLE 10				
FACILITY CAPACITY AND YEARS REMAINING FOR NONCAPTIVE FACILITIES - FY 2021 (Volume in Cubic Yards)				
FACILITY NAME	(A)	(B)	(C)	(D)
	REMAINING CAPACITY	CAPACITY USED IN FY 2021	PROJECTED YEARS OF REMAINING CAPACITY	CALCULATED YEARS OF REMAINING CAPACITY
	REPORTED BY THE LANDFILL			
ADVANCED DISPOSAL SERVICES ARBOR HILLS LANDFILL, INC.	14,741,000	1,009,000	12	15
AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY	20,622,725	232,675	81	89
BRENT RUN LANDFILL	14,523,198	267,721	32	54
C & C EXPANDED SANITARY LANDFILL	40,145,164	649,832	62	62
CARLETON FARMS LANDFILL	46,526,320	2,302,281	20	20
CENTRAL SANITARY LANDFILL	7,804,082	329,140	29	24

TABLE 10
FACILITY CAPACITY AND YEARS REMAINING FOR
NONCAPTIVE FACILITIES - FY 2021
(Volume in Cubic Yards)

FACILITY NAME	(A)	(B)	(C)	(D)
	REMAINING CAPACITY	CAPACITY USED IN FY 2021	PROJECTED YEARS OF REMAINING CAPACITY	CALCULATED YEARS OF REMAINING CAPACITY
	REPORTED BY THE LANDFILL			
CITIZENS DISPOSAL, INC.	5,752,380	460,229	14	12
CITY ENVIRONMENTAL SERVICES, INC. OF WATERS	14,692,495	84,463	174	174
CITY OF MIDLAND SANITARY LANDFILL	6,499,202	170,235	31	38
COUNTY OF MUSKEGON - SOLID WASTE LANDFILL	505,644	229,751	2	2
DAFTER SANITARY LANDFILL	3,285,172	47,030	70	70
DELTA COUNTY LANDFILL	5,821,998	66,650	106	87
EAGLE VALLEY RECYCLE & DISPOSAL FACILITY	7,976,101	694,019	17	11
EVER-GREEN LANDFILL AND RECYCLING CENTER, LLC	446,863	12,510	29	36
GFL NORTH MICHIGAN LANDFILL, LLC	1,082,657	206,586	5	5
GLENS SANITARY LANDFILL	17,747,617	41,189	431	431
GRANGER GRAND RIVER LANDFILL	5,410,780	122	30	44,351
GRANGER WOOD STREET LANDFILL	15,927,588	742,956	21	21
HIAWATHA SHORES LANDFILL	1,682,536	50,527	67	33

TABLE 10
FACILITY CAPACITY AND YEARS REMAINING FOR
NONCAPTIVE FACILITIES - FY 2021
(Volume in Cubic Yards)

FACILITY NAME	(A)	(B)	(C)	(D)
	REMAINING CAPACITY	CAPACITY USED IN FY 2021	PROJECTED YEARS OF REMAINING CAPACITY	CALCULATED YEARS OF REMAINING CAPACITY
REPORTED BY THE LANDFILL				
HURON LANDFILL CORP. - DBA HURON LANDFILL	147,917	40,115	1	4
K AND W LANDFILL, INC.	1,125,360	105,005	8	11
LIBERTY ENVIRONMENTALISTS LANDFILL	2,598,064	320,998	11	8
MANISTEE COUNTY LANDFILL, INC.	8,094,955	188,002	68	43
MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY	5,042,782	104,000	50	48
MATLIN ROAD LANDFILL	332,369	5,924	121	56
MCGILL ROAD LANDFILL	236,850	91,057	3	3
MICHIGAN ENVIRONS, INC.	1,975,146	100,060	42	20
MONTMORENCY-OSCODA-ALPENA SWMA	1,773,315	128,600	14	14
NIAGARA DEVELOPMENT, LLC dba IN MICHIGAN AS NIAGARA DEVELOPMENT PARTNERS	1,838,615	7,939	231	232
NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY	6,062,384	201,615	30	30

TABLE 10
FACILITY CAPACITY AND YEARS REMAINING FOR
NONCAPTIVE FACILITIES - FY 2021
(Volume in Cubic Yards)

FACILITY NAME	(A)	(B)	(C)	(D)
	REMAINING CAPACITY	CAPACITY USED IN FY 2021	PROJECTED YEARS OF REMAINING CAPACITY	CALCULATED YEARS OF REMAINING CAPACITY
	REPORTED BY THE LANDFILL			
OAKLAND HEIGHTS DEVELOPMENT, INC.	732,190	245,893	2	3
ORCHARD HILL SANITARY LANDFILL	15,660,638	314,891	50	50
OTTAWA COUNTY FARMS LANDFILL	32,208,057	783,502	47	41
PEOPLES LANDFILL, INC.	4,722,538	243,535	20	19
PINE TREE ACRES INC	36,088,629	3,258,655	18	11
PITSCH SANITARY LANDFILL	1,770,374	237,916	20	7
RIVERVIEW LAND PRESERVE	7,395,585	684,804	11	11
SAUK TRAIL HILLS LANDFILL	4,483,248	576,204	8	8
SC HOLDINGS, INC.	1,783,261	102,629	22	17
SMITHS CREEK LANDFILL	17,267,605	458,564	38	38
SOUTH KENT LANDFILL	4,024,575	260,266	7	15
SOUTHEAST BERRIEN COUNTY LANDFILL	3,545,238	269,546	13	13
TRI-CITY RECYCLING AND DISPOSAL FACILITY	16,648,026	40,786	150	408
VENICE PARK RECYCLING & DISPOSAL FACILITY	7,264,475	246,935	24	29
VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL	3,209,915	450,250	7	7

TABLE 10				
FACILITY CAPACITY AND YEARS REMAINING FOR NONCAPTIVE FACILITIES - FY 2021 (Volume in Cubic Yards)				
FACILITY NAME	(A)	(B)	(C)	(D)
	REMAINING CAPACITY	CAPACITY USED IN FY 2021	PROJECTED YEARS OF REMAINING CAPACITY	CALCULATED YEARS OF REMAINING CAPACITY
	REPORTED BY THE LANDFILL			
WESTSIDE RECYCLING & DISPOSAL FACILITY	35,038,827	222,065	96	158
WEXFORD COUNTY LANDFILL, LLC	17,868,607	305,814	58	58
WHITEFEATHER LANDFILL	1,344,006	173,983	9	8
WOOD ISLAND WASTE MANAGEMENT, INC.	1,765,645	119,827	14	15
WOODLAND MEADOWS RDF-VAN BUREN	51,434,000	2,541,000	20	20
TOTAL	524,676,718	20,427,296		

Based on current capacity used for FY 2021 (20,427,296 cubic yards) and total remaining capacity at noncaptive facilities (524,676,718 cubic yards), which may include additional capacity permitted⁸ during the fiscal year, and using the same calculation for deriving the values in Column (D), it is estimated that Michigan noncaptive landfills have approximately 26 years of remaining disposal capacity left. This estimate does not take into consideration any projected increase or decrease in waste disposal rates, waste diversion programs, or any county-imposed restrictions, such as volume limitations, any special conditions, or the waste import/export authorizations of each county.

⁸ Construction permits were issued to the following landfills and were reflected in Re-TRAC; these permits increased or decreased their disposal capacities and have been reflected in this report: Woodland Meadows RDF-Van Buren.

APPENDIX A
WASTE TYPE KEY

APPENDIX A – WASTE TYPE KEY

WASTE TYPE KEY		
	Description	Reference
Municipal & Commercial Waste (MCW)	Commercial Waste	R 299.4102(b)
	Garbage	324.11503(20)
	Household Waste	R 299.4103(k)
	Medical Waste (Regulated)	R 299.4104(a) & 324.11504(6)
	Municipal Solid Waste Incinerator Ash	324.11504(15)
Industrial Waste (IW)	Ashes	324.11502(2)
	Auto Shredder Residue	**
	Cement Kiln Dust (CKD)	324.11502(12)
	Coal Ash	324.11502(15) & (16)
	Coal Bottom Ash	324.11502(19)
	Flue Gas Desulfurization Material	324.11503(16)
	Food Processing Residuals	324.11503(17)
	Food Processing Waste	R 299.4103(d)
	Foundry Sand	324.11503(18)
	Industrial Waste	324.11504(2) & R 299.4103(n)
	Lime Kiln Dust	324.11504(9)
	Low-Hazard Industrial Waste	324.11504(10)
	Pulp and Paper Mill Ash	324.11504(22)
	Pulp and Paper Mill Material	324.11504(23)
	Sludge	R 299.4105(e)
	Segregated Waste Types for Purposes of PCF: Coal Ash; Wood Ash; CKD; Wastewater Sludge; Wood Sediment; Paper Sediment; Foundry Sand; and Other Approved Materials	324.11525(3)
	Wood Ash	324.11506(13)

APPENDIX A
WASTE TYPE KEY

Construction & Demolition Waste (C&D)	Construction and Demolition Waste	R 299.4102(f)
	Scrap Wood	324.11505(8)
	Treated Wood	324.11506(8)
	Wood	324.11506(12)
Other Waste (O)	Asbestos Waste	R 299.4101(k)
	Contaminated Soils	***
	TENORM	324.11104(7)
Alternative Daily Cover (ADC)	Class B ADC	R 299.4429(2)(b)
	Chipped Tires	16901(cc)(v)
	Coal or Wood Ash	324.11502(15) & (16)/324.11506(13)
	Foundry Sand	11503(18)
	Sludge	R 299.4105(e)
	Class C ADC	R 299.429(2)(c)
	Contaminated Soils	***
	Auto Shredder Residue	**
	Other Approved	R 299.429(2)(c)(iv)
** Auto Shredder Residue	Means non-metallic waste material remaining after removal of metal scrap from shredded vehicles, household and commercial appliances, or other shredded items; also referenced as auto fluff.	
*** Contaminated Soils	Means any excavated soil or dredge sediment that is contaminated by a hazardous substance that falls below Part 201, Environmental Remediation, of the NREPA, generic residential soil direct contact cleanup criteria and hazardous substances in leachate from the soil or sediment, using (at the option of the generator) United States Environmental Protection Agency Method 1311, Toxicity Characteristic Leaching Procedure, 1312, or any other leaching protocol approved by the department, fall Synthetic Precipitation Leaching Procedure, below Part 201 generic residential health based groundwater drinking water values or criteria, and the soil or sediment would not cause a violation of any surface water quality standard established under Part 31, Water Resources Protection, of the NREPA, at the area of placement, disposal, or use.	

APPENDIX A
WASTE TYPE KEY

[Link to Part 115, Solid Waste Management, MCL 324.11501 *et seq.*](#)

[Link to Part 115, Solid Waste Management Act Administrative Rules, MAC R 229.4101 *et seq.*](#)

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

APPENDIX B – LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

The Appendix of this report alphabetically lists every reporting landfill and indicates the amount of waste received at the landfill, the type of waste received, and the place of origin of that waste.

ARBOR HILLS LANDFILL, INC. (WASHTENAW COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CALHOUN	805	0	0	0	0
CANADA	579,403	0	0	0	43
CASS	240	0	0	0	17
CLINTON	0	41	0	0	0
GENESEE	424	5	0	22	19
INGHAM	300	9	171	0	91
KENT	123	41	5,823	0	0
LENAWEE	50	20	0	0	0
LIVINGSTON	34,311	1,272	8,194	0	854
MACOMB	226,641	2,023	7,843	367	6,258
MIDLAND	1,757	10	48	108	159
MONROE	21,926	0	876	96	50
OAKLAND	1,155,191	9,794	94,880	3,330	23,848
OCEANA	0	0	0	0	0
OHIO	3,358	3	0	0	0
SAGINAW	0	0	17	0	0
WASHTENAW	221,329	13,725	44,791	2,527	173,334
WAYNE	838,939	10,200	163,050	37,036	318,943
TOTALS	3,084,799	37,143	325,693	43,486	523,615

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY (OTTAWA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	34,023	61,028	7,691	0	17,818
BARRY	164	4	99	0	36
BERRIEN	24	18	14	0	12
BRANCH	0	1	0	0	111
CALHOUN	0	282	389	0	42
EATON	400	0	2	0	2
IONIA	5,473	180	41	0	82
KALAMAZOO	66	4,981	214	0	8,007
KENT	82,624	31,134	6,324	0	10,585
MASON	0	71	0	0	34
MECOSTA	0	8	14	0	9
MONTCALM	137	27	41	0	0
MUSKEGON	51,606	3,548	215	0	63
NEWAYGO	5	0	0	0	28
OCEANA	13	2	0	0	0
OTTAWA	306,858	40,363	318,189	0	14,939
ST JOSEPH	0	0	9	0	5
VAN BUREN	1,062	352	199	0	6,152
TOTALS	482,455	141,999	333,441	0	57,925

BELLE RIVER POWER PLANT BOTTOM ASH AND DIVERSION BASINS (ST CLAIR COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ST CLAIR	0	34,974	0	0	0
TOTALS	0	34,974	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

BRENT RUN LANDFILL (GENESEE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	4,055	0	480	0	6,083
CLINTON	741	27	24	0	0
CONNECTICUT	0	943	0	0	0
EATON	15	0	0	0	0
GENESEE	325,799	3,743	9,746	13,817	49
GRATIOT	4,215	0	54	0	0
HURON	0	9	0	0	0
INGHAM	2,017	0	0	0	0
LAPEER	179,695	290	559	0	0
LIVINGSTON	95	89	33	0	0
NEW JERSEY	0	22,103	0	0	0
OAKLAND	4,846	67	389	0	2,399
OHIO	0	3,714	0	2,069	0
SAGINAW	53,522	195	12,545	0	112
SANILAC	4	0	6	0	0
SHIAWASSEE	6,975	2	1,160	0	523
TUSCOLA	15,727	0	1,018	0	0
WASHTENAW	0	0	0	0	0
WAYNE	0	4,064	0	1,250	0
TOTALS	597,706	35,243	26,014	17,136	9,166

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

C & C EXPANDED SANITARY LANDFILL (CALHOUN COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	0	1,191	0	0	0
BARRY	1	44	10	0	0
BERRIEN	80,166	0	9	0	0
BRANCH	67,413	36,836	5,020	0	0
CALHOUN	256,021	57,673	31,201	0	0
CASS	0	0	8	0	0
CLINTON	16	0	56	0	0
EATON	43,282	12,220	2,813	0	0
HILLSDALE	45,372	617	200	0	0
INGHAM	39,837	13,502	7,915	0	0
JACKSON	3,509	750	1,290	0	0
KALAMAZOO	449,103	83,615	25,439	8,264	0
MASON	0	0	10	0	0
ST JOSEPH	73	223	31	0	0
VAN BUREN	0	70	58	0	0
TOTALS	984,793	206,741	74,060	8,264	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

CARLETON FARMS LANDFILL (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CANADA	2,441,500	76,890	746,040	0	24,865
LENAWEE	0	1,365	233	0	471
LIVINGSTON	0	0	0	0	48
MACOMB	2,411	4,215	0	0	492
MASSACHUSETTS	344,769	0	62	0	0
MONROE	245,860	1,299	72,506	0	22,565
OAKLAND	28	55,928	0	0	256
OHIO	18,040	52,880	0	194,539	0
WASHTENAW	1,247	81	1,693	0	1,406
WAYNE	1,061,272	278,495	285,177	97,832	221,274
WEST VIRGINIA	90	0	30	0	0
TOTALS	4,115,217	471,153	1,105,740	292,371	271,377

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

CENTRAL SANITARY LANDFILL (MONTCALM COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	0	26	0	0	0
GRATIOT	15,874	293	0	0	0
IONIA	21,027	650	0	0	0
ISABELLA	15,486	684	0	2,635	0
KENT	463,809	12,809	371	14,062	236
LAKE	365	0	83	0	0
MASON	10	0	0	0	0
MECOSTA	59,157	39	2,490	0	0
MONTCALM	47,318	4,923	936	2,344	2,963
MUSKEGON	18	1,164	0	0	0
NEWAYGO	67,300	1,634	2,463	0	0
OSCEOLA	13,211	4	0	0	199
TOTALS	703,576	22,226	6,343	19,041	3,398

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

CITIZENS DISPOSAL, INC. (GENESEE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	0	1,481	0	0	1
CLINTON	0	10	198	0	0
EATON	0	59	716	0	0
GENESEE	437,483	150,791	300,053	0	31,038
GRATIOT	5	140	0	0	0
INGHAM	0	289	7,592	0	87
JACKSON	0	26	0	0	0
LAPEER	25,618	2,493	5,372	0	0
LENAWEE	55	1	0	0	0
LIVINGSTON	30,045	6,239	25,663	0	8,555
OAKLAND	65,018	1,945	28,400	0	947
SAGINAW	2,272	926	2,787	0	179
SANILAC	4	49,923	416	0	0
SHIAWASSEE	14,216	9,779	2,886	0	5,140
TUSCOLA	18,846	1,830	148	0	0
WASHTENAW	0	149	16	0	0
WAYNE	0	190	0	0	2
TOTALS	593,562	226,271	374,246	0	45,949

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

CITY ENVIRONMENTAL SERVICES, INC. OF WATERS (CRAWFORD COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALCONA	7,040	0	0	0	0
ALPENA	0	138	0	0	0
ANTRIM	15,413	9,552	1,184	0	89
ARENAC	4,111	0	0	0	0
CHARLEVOIX	9,639	457	1,232	0	3,132
CHEBOYGAN	4,102	9	178	0	0
CRAWFORD	22,839	15,681	2,518	0	2,000
EMMET	0	708	336	0	8
GRAND TRAVERSE	6,100	162	93	0	63
IOSCO	23,152	11	0	0	0
KALKASKA	260	47	127	0	57
MACKINAC	0	101	5	0	1
OGEMAW	15,542	0	11	0	0
OTSEGO	14,694	297	5,502	0	220
PRESQUE ISLE	44	35	84	0	18
ROSCOMMON	1,662	0	272	0	0
TOTALS	124,598	27,198	11,542	0	5,589

CITY OF LIVONIA LANDFILL (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
WAYNE	0	2,358	0	0	0
TOTALS	0	2,358	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

CITY OF MIDLAND SANITARY LANDFILL (MIDLAND COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	0	0	0	3,870	0
MIDLAND	248,553	6,213	210,502	6,055	16,313
TOTALS	248,553	6,213	210,502	9,925	16,313

CONSUMERS ENERGY J H CAMPBELL COMPLEX (OTTAWA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
OTTAWA	0	232,000	0	0	0
TOTALS	0	232,000	0	0	0

CONSUMERS WEADOCK COMPLEX (BAY COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	0	479,350	0	0	0
TOTALS	0	479,350	0	0	0

COUNTY OF MUSKEGON - SOLID WASTE LANDFILL (MUSKEGON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
LAKE	6,167	0	3,734	0	0
MUSKEGON	226,379	2,737	22,631	27,687	3,433
NEWAYGO	47,350	0	16,281	0	0
OCEANA	41,908	0	3,055	0	0
OTTAWA	18,139	67	3,729	0	0
TOTALS	339,943	2,804	49,431	27,687	3,433

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

DAFTER SANITARY LANDFILL (CHIPPEWA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALGER	1,405	0	0	0	0
CANADA	50,946	0	0	0	0
CHIPPEWA	50,092	3,356	0	0	4,191
LUCE	9,835	0	0	0	104
MACKINAC	22,848	287	0	0	148
SCHOOLCRAFT	17	0	0	0	10
TOTALS	135,142	3,643	0	0	4,454

DELTA COUNTY LANDFILL (DELTA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
DELTA	83,235	525	7,253	0	894
MARQUETTE	0	0	0	825	0
MENOMINEE	7,109	2,181	0	5,523	0
SCHOOLCRAFT	10,902	0	0	0	0
TOTALS	101,247	2,705	7,253	6,347	894

DETROIT EDISON CO RANGE ROAD ASH DISPOSAL (ST CLAIR COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
HURON	0	11,167	0	0	0
ST CLAIR	0	192,327	0	0	0
TOTALS	0	203,494	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

DETROIT EDISON CO SIBLEY QUARRY (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
MONROE	0	198,888	0	0	0
WAYNE	0	31,291	0	0	0
TOTALS	0	230,179	0	0	0

DTE MONROE POWER PLANT (MONROE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
MONROE	0	378,528	0	0	0
TOTALS	0	378,528	0	0	0

EAGLE VALLEY RECYCLE & DISPOSAL FACILITY (OAKLAND COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
GENESEE	125	118	0	0	0
LAPEER	8,477	881	0	0	0
LIVINGSTON	2,366	17	0	0	0
MACOMB	37,383	11,231	16,176	124	6,931
OAKLAND	1,256,855	54,344	32,846	19,979	46,083
WASHTENAW	224	0	0	0	0
WAYNE	0	106	0	23,595	20,685
TOTALS	1,305,429	66,697	49,022	43,698	73,699

EVER-GREEN LANDFILL AND RECYCLING CENTER, LLC (ONTONAGON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BARAGA	0	11,189	0	0	0
MENOMINEE	0	1,341	0	0	0
TOTALS	0	12,530	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

GENERAL MOTORS, LLC - SAGINAW METAL CASTING OPERATIONS - FORMERLY WDS NO. 395505 (SAGINAW COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
SAGINAW	0	5,865	0	0	0
TOTALS	0	5,865	0	0	0

GFL NORTH MICHIGAN LANDFILL, LLC (PRESQUE ISLE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ANTRIM	65,407	0	480	0	0
CANADA	35,040	0	0	0	0
CHARLEVOIX	0	0	4,476	0	132
CHEBOYGAN	56,497	12,000	15,292	20,905	0
CHIPPEWA	50,520	0	40	0	0
EMMET	127,570	0	15,428	0	0
MACKINAC	90	0	290	0	0
PRESQUE ISLE	15,482	0	6,391	0	0
TOTALS	350,606	12,000	42,397	20,905	132

GLENS SANITARY LANDFILL (LEELANAU COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ANTRIM	312	5	225	0	1
BENZIE	763	136	2,967	0	14
GRAND TRAVERSE	46,865	312	7,223	0	96
KALKASKA	482	8	6	0	0
LEELANAU	16,429	117	6,201	0	132
MANISTEE	0	15	40	0	26
TOTALS	64,852	593	16,662	0	270

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

GRANGER GRAND RIVER LANDFILL (CLINTON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
EATON	203	0	0	0	0
INGHAM	40	0	0	0	0
TOTALS	243	0	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

GRANGER WOOD STREET LANDFILL (CLINTON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	10	0	0	0	0
BARRY	2,441	0	0	0	0
CALHOUN	68,400	0	0	0	0
CLINTON	181,749	0	0	0	0
EATON	215,073	0	0	0	0
GENESEE	45	0	0	0	0
GRATIOT	58,178	0	0	0	0
INGHAM	856,486	0	0	0	30
IONIA	52,718	0	0	0	0
ISABELLA	73,663	0	0	0	0
JACKSON	139,832	0	0	0	0
KALAMAZOO	2	0	0	0	0
LIVINGSTON	47,686	0	0	0	0
MONTCALM	61,566	0	0	0	0
OAKLAND	110	0	0	0	0
OTTAWA	1	0	0	0	0
SAGINAW	2,555	0	0	0	0
SHIAWASSEE	32,092	0	0	0	0
WASHTENAW	13,676	0	0	0	0
WAYNE	53	0	0	0	0
TOTALS	1,806,337	0	0	0	30

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

HAYWIRE LANDFILL (SCHOOLCRAFT COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
LUCE	0	5,087	0	0	0
SCHOOLCRAFT	0	37,246	0	0	0
TOTALS	0	42,333	0	0	0

HIAWATHA SHORES LANDFILL (SCHOOLCRAFT COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
GOGEBIC	10,829	0	0	0	0
SCHOOLCRAFT	27,875	7,803	4,011	0	8
TOTALS	38,705	7,803	4,011	0	8

HURON LANDFILL CORP. - DBA HURON LANDFILL (HURON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
HURON	61,467	28,986	24,947	0	481
LAPEER	4,882	0	440	0	0
SANILAC	14,658	0	3,023	0	0
TUSCOLA	35,812	2,233	4,392	0	0
TOTALS	116,819	31,219	32,802	0	481

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

K AND W LANDFILL, INC. (ONTONAGON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BARAGA	22,590	540	0	0	4,296
GOGEBIC	13,033	348	0	0	5
HOUGHTON	75,674	561	0	0	8,367
IRON	11,422	275	0	0	31
KEWEENAW	3,585	0	0	0	0
ONTONAGON	10,096	0	0	0	32
WISCONSIN	80,102	0	0	0	68
TOTALS	216,502	1,724	0	0	12,799

LAFARGE MIDWEST, INC. (ALPENA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALPENA	0	260,000	0	0	0
TOTALS	0	260,000	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

LIBERTY ENVIRONMENTALISTS LANDFILL (JACKSON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BRANCH	0	0	506	0	0
CALHOUN	0	0	5,160	0	0
EATON	0	0	1,284	0	0
HILLSDALE	0	0	11,454	0	0
INGHAM	0	0	3,886	0	0
JACKSON	0	5,630	60,940	0	0
LENAWEE	0	0	14,666	0	0
OHIO	0	132,776	0	0	0
WASHTENAW	0	0	7,238	0	0
TOTALS	0	138,406	105,134	0	0

MANISTEE COUNTY LANDFILL, INC. (MANISTEE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BENZIE	18,696	0	671	0	2,996
GRAND TRAVERSE	233	0	95	0	0
LAKE	7,494	0	436	0	0
LEELANAU	61	0	9	0	0
MANISTEE	91,129	72,387	7,849	1,740	5,322
MASON	76,226	1,505	4,156	0	1,206
WEXFORD	12,537	0	119	0	0
TOTALS	206,376	73,892	13,334	1,740	9,524

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

MARQUETTE COUNTY SOLID WASTE MANAGEMENT AUTHORITY (MARQUETTE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
MARQUETTE	111,132	0	39,090	0	0
TOTALS	111,132	0	39,090	0	0

MATLIN ROAD LANDFILL (MONROE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
MONROE	0	0	435	0	0
OAKLAND	0	0	20	0	0
WASHTENAW	0	0	5,284	0	0
WAYNE	0	0	185	0	0
TOTALS	0	0	5,924	0	0

MCGILL ROAD LANDFILL (JACKSON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BARRY	0	10	0	0	0
CALHOUN	1,738	2,306	49	0	273
EATON	8,760	0	4	0	0
HILLSDALE	1,029	62	2,526	0	0
JACKSON	155,558	5,332	4,401	0	6,333
KALAMAZOO	0	58	0	0	0
ST JOSEPH	0	109	0	0	0
WASHTENAW	9,572	0	22	0	0
TOTALS	176,657	7,877	7,002	0	6,606

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

MICHIGAN ENVIRONS, INC. (MENOMINEE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
DELTA	0	20	7	0	0
DICKINSON	0	0	0	0	256
IRON	0	0	1	0	0
MENOMINEE	23,396	9,581	2,040	1,716	2
WISCONSIN	51,511	68,060	3,035	39,675	11,503
TOTALS	74,906	77,661	5,083	41,391	11,761

MONTMORENCY-OSCODA-ALPENA SWMA (MONTMORENCY COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALCONA	855	0	1,909	0	170
ALPENA	79,877	30	57,467	0	1,227
CHARLEVOIX	5	0	0	0	0
CHEBOYGAN	2,178	0	3,050	0	0
CRAWFORD	6	0	12	0	0
EMMET	0	0	11	0	0
GRAND TRAVERSE	6	0	0	0	0
IOSCO	23,855	0	1,374	0	0
KALKASKA	4	0	0	0	0
MONTMORENCY	25,908	0	8,615	468	197
OGEMAW	21	0	273	0	6
OSCODA	18,224	0	6,004	0	247
OTSEGO	1,125	0	452	0	0
PRESQUE ISLE	2,219	0	889	0	0
ROSCOMMON	6	0	2	0	489
TOTALS	154,289	30	80,058	468	2,335

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

NIAGARA DEVELOPMENT, LLC dba IN MICHIGAN AS NIAGARA DEVELOPMENT PARTNERS (DICKINSON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
DICKINSON	0	6,923	1,946	0	0
WISCONSIN	0	0	85	0	0
TOTALS	0	6,923	2,031	0	0

NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY (CLARE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALCONA	1,101	11,841	52	0	0
ARENAC	2,527	87	6	0	1
BAY	0	0	9	0	18
CHARLEVOIX	0	0	27	0	9
CLARE	61,852	2,313	22,705	0	72,653
GLADWIN	14,617	90	1,659	0	29
GRATIOT	16,245	357	751	0	110
IOSCO	3,263	0	1	0	0
ISABELLA	45,766	1,001	4,030	0	31,929
KALKASKA	0	0	0	0	1
LAKE	3,992	0	283	0	0
MECOSTA	12,986	211	487	0	21
MISSAUKEE	6,161	17,045	1,255	0	0
MONTCALM	0	0	0	0	36
OGEMAW	3,081	1,353	150	0	162
OSCEOLA	7,525	3,005	4,604	0	108
ROSCOMMON	29,586	36	10,681	0	14
WEXFORD	5,035	2	331	0	29
TOTALS	213,738	37,341	47,031	0	105,120

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

OAKLAND HEIGHTS DEVELOPMENT, INC. (OAKLAND COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
GENESEE	4	9,103	6,501	0	0
LIVINGSTON	0	297	0	0	0
MACOMB	73,500	52,792	7,319	1,976	9,378
OAKLAND	470,440	8,425	131,896	0	1,182
TOTALS	543,944	70,616	145,716	1,976	10,560

ORCHARD HILL SANITARY LANDFILL (BERRIEN COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	4,361	0	0	0	0
BERRIEN	219,364	0	0	0	0
BRANCH	576	0	0	0	0
CALHOUN	110	0	0	0	0
CASS	17,032	0	0	0	0
INDIANA	98	0	0	0	0
KALAMAZOO	356,783	0	0	0	0
OTTAWA	147	0	0	0	0
ST JOSEPH	90	0	0	0	0
VAN BUREN	157,178	0	0	0	0
TOTALS	755,739	0	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

OTTAWA COUNTY FARMS LANDFILL (OTTAWA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	195,564	13,204	1,527	0	950
BARRY	1,682	1,040	57	0	35
CALHOUN	10	0	0	0	141
CLINTON	0	0	0	0	1
EATON	6	0	1	0	3
IONIA	16	1,677	9	0	0
KALAMAZOO	32	5	34	0	83
KENT	147,236	54,161	38,160	130,063	53,514
LAKE	8	0	8	0	0
MASON	93	14,031	434	0	14
MECOSTA	0	0	12	0	41
MONTCALM	0	1,049	0	0	28
MUSKEGON	164,161	41,002	12,195	0	9,483
NEWAYGO	187	0	78	0	4,744
OCEANA	23,734	2,540	8,712	0	1
OTTAWA	276,152	51,853	42,543	11,344	45,797
ST JOSEPH	6	0	0	0	0
VAN BUREN	79	3	0	0	0
TOTALS	808,966	180,565	103,770	141,407	114,835

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

PEOPLES LANDFILL, INC. (SAGINAW COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	139,755	1,452	7,492	0	68
GENESEE	9,866	10,960	1,651	0	172
GRATIOT	5,504	213	1,021	0	0
SAGINAW	349,037	12,577	48,313	0	7,959
SHIAWASSEE	8	56	392	0	0
TUSCOLA	4,327	2,224	3,382	0	1,457
TOTALS	508,496	27,483	62,251	0	9,656

PINE TREE ACRES, INC. (MACOMB COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CANADA	4,530,138	0	0	0	0
LAPEER	34,483	96	100	0	0
MACOMB	1,645,591	35,385	46,280	23,235	57,164
OAKLAND	54	652	0	4,820	0
OHIO	0	0	0	1,683	0
SANILAC	0	1,032	0	0	0
WASHTENAW	156	10,636	0	0	0
WAYNE	503,329	113,297	368	85,805	9,904
TOTALS	6,713,751	161,098	46,749	115,544	67,068

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

PITSCH SANITARY LANDFILL (IONIA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	1	0	928	0	14
BARRY	19	39	98	0	46
CALHOUN	0	133	560	0	0
CLINTON	40	0	1,002	0	0
EATON	163	0	265	0	0
INGHAM	40	10	3,917	0	0
IONIA	5,510	7	19,603	0	24
ISABELLA	1,934	0	2,382	0	0
KALAMAZOO	0	13	6,225	0	5
KENT	10,964	143	123,196	0	160
MASON	0	0	1,206	0	0
MECOSTA	133	0	271	0	0
MONTCALM	33,875	0	18,843	0	0
MUSKEGON	0	335	1,516	0	72
NEWAYGO	0	0	19	0	0
OCEANA	0	0	6	0	0
OTTAWA	12	5	1,567	0	7
VAN BUREN	0	0	93	0	0
TOTALS	52,690	684	181,694	0	327

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

RIVERVIEW LAND PRESERVE (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CANADA	20,314	0	799	0	0
LENAWEE	2,094	0	0	0	0
MACOMB	11,424	217	268	22	0
MONROE	287,259	360	6,055	0	0
OAKLAND	36,394	549	0	0	0
OHIO	0	206	0	0	0
WASHTENAW	0	18	0	0	0
WAYNE	748,355	8,421	377,703	169,155	0
TOTALS	1,105,841	9,772	384,826	169,177	0

SAUK TRAIL HILLS LANDFILL (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
GENESEE	7	0	0	0	0
JACKSON	0	0	1	0	0
LAPEER	0	0	10	0	0
LENAWEE	0	17	0	0	0
LIVINGSTON	0	0	7	0	0
MACOMB	1,246	3,338	108	0	0
MIDLAND	0	0	0	0	0
MONROE	0	19,805	1,545	0	0
OAKLAND	316	5,050	632	0	0
OHIO	0	450	0	0	0
WASHTENAW	11,591	676	30,762	0	0
WAYNE	813,891	143,936	261,595	60,635	5,749
TOTALS	827,051	173,272	294,660	60,635	5,749

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

SC HOLDINGS, INC. (BARRY COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	1,802	97	40	0	0
BARRY	64,051	2,641	2,138	0	30
BERRIEN	101	0	0	0	0
CALHOUN	75	57	6	0	2
CLINTON	1,935	1,211	0	0	0
EATON	38,728	2,065	46	0	0
INGHAM	4,088	282	45	0	5
IONIA	26,643	863	111	0	0
KALAMAZOO	44	34	16	0	77
KENT	13,236	4,219	116	0	0
MONTCALM	20	0	0	0	0
OTTAWA	0	3,056	0	0	0
TOTALS	150,723	14,525	2,518	0	114

SMITHS CREEK LANDFILL (ST CLAIR COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CANADA	386,280	0	4,754	0	0
ST CLAIR	413,476	25,174	83,813	870	80,572
TOTALS	799,756	25,174	88,567	870	80,572

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

SOUTH KENT LANDFILL (KENT COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	75,369	923	12,283	0	46
BARRY	11,668	0	3,426	0	78
CALHOUN	3	0	62	0	14
CLINTON	0	0	11	0	0
EATON	61	0	1,436	0	65
IONIA	466	0	636	0	35
KALAMAZOO	589	0	2,064	0	0
KENT	590,558	14,802	102,110	0	607
MECOSTA	0	0	8	0	41
MONTCALM	0	0	12	0	0
MUSKEGON	2	0	0	0	0
NEWAYGO	8	0	7	0	0
OCEANA	0	0	4	0	0
OTTAWA	11,097	4,382	10,170	0	35
TOTALS	689,821	20,106	132,232	0	922

SOUTHEAST BERRIEN COUNTY LANDFILL (BERRIEN COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BERRIEN	492,251	21,684	11,658	3,221	118
CASS	72,427	935	59,643	9,690	0
ILLINOIS	0	0	0	466	0
INDIANA	243,852	20,953	64,830	6,355	957
TOTALS	808,530	43,572	136,131	19,732	1,075

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

SPARTA FOUNDRY WASTE FACILITY (KENT COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
KENT	0	1,041	0	0	0
TOTALS	0	1,041	0	0	0

ST CLAIR POWER PLANT BOTTOM ASH BASINS (ST CLAIR COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ST CLAIR	0	15,247	0	0	0
TOTALS	0	15,247	0	0	0

ST MARYS CEMENT U.S., LLC (CHARLEVOIX COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
N/A	0	0	0	0	0
TOTALS	0	0	0	0	0

TRI-CITY RECYCLING AND DISPOSAL FACILITY (SANILAC COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
HURON	12,867	679	146	0	896
LAPEER	976	0	0	0	0
SANILAC	43,755	6,944	3,631	0	3,773
TUSCOLA	6,275	920	710	0	0
TOTALS	63,873	8,543	4,487	0	4,669

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

VENICE PARK RECYCLING & DISPOSAL FACILITY (SHIAWASSEE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
BAY	10	81	0	0	0
CLINTON	12,043	2,657	0	0	345
EATON	4,761	106	91	0	10
GENESEE	158,115	18,889	5,883	0	7,976
GRATIOT	1,089	20	0	0	0
INGHAM	43,802	2,039	22,947	0	678
IONIA	85	0	0	0	0
LAPEER	22,159	136	220	0	4,637
LIVINGSTON	73,117	2,848	28	0	408
MACOMB	0	0	0	0	5
MONTCALM	3,702	60	0	0	0
OAKLAND	3,212	14	0	4,904	1
SAGINAW	2,948	28	17	0	47
SHIAWASSEE	104,572	89,875	1,650	0	3,908
WASHTENAW	36	0	0	0	0
WAYNE	0	3,613	0	14,706	0
TOTALS	429,650	120,366	30,837	19,610	18,014

VERSO ESCANABA, LLC (DELTA COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
DELTA	0	40,142	0	0	0
TOTALS	0	40,142	0	0	0

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

VERSO QUINNESEC, LLC (DICKINSON COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
DICKINSON	0	105,512	0	0	0
TOTALS	0	105,512	0	0	0

VIENNA JUNCTION INDUSTRIAL PARK SANITARY LANDFILL (MONROE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
LENAWEE	30,289	6,944	2,864	0	0
MONROE	53,747	12,800	5,559	0	2
OAKLAND	25	0	0	0	0
OHIO	545,238	105,467	50,654	86,621	23,900
WAYNE	83	649	0	0	11
TOTALS	629,381	125,860	59,077	86,621	23,912

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

WESTSIDE RECYCLING & DISPOSAL FACILITY (ST JOSEPH COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALLEGAN	841	126	29	0	626
BARRY	0	124	0	0	0
BERRIEN	83	590	674	0	344
BRANCH	18,624	1,793	414	0	0
CALHOUN	169,053	20,619	636	0	57
CASS	16,396	754	1,017	0	0
GENESEE	0	460	0	0	0
HILLSDALE	85	12	0	0	11
INDIANA	184,030	2,483	2,134	0	0
KALAMAZOO	59,327	88,128	1,233	0	14,444
ST JOSEPH	93,398	68,197	5,269	0	5,411
VAN BUREN	8,843	879	164	0	62
TOTALS	550,680	184,165	11,570	0	20,955

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

WEXFORD COUNTY LANDFILL, LLC (WEXFORD COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ANTRIM	82,356	0	177	137	46
BENZIE	1,969	2,423	1,292	150	150
CHARLEVOIX	0	0	0	0	30
CLARE	1,763	0	13	0	524
CRAWFORD	3,882	1,250	183	5,301	50
EMMET	1	0	37	0	37
GRAND TRAVERSE	331,683	79	1,225	142	8,066
IDAHO	0	0	0	0	1
ILLINOIS	0	0	0	0	1,106
INDIANA	0	0	21	0	5
KALKASKA	102,792	4,022	267	14,059	2,055
KANSAS	0	0	0	0	5
KENTUCKY	0	0	0	0	12
LAKE	178	114	365	0	3
MANISTEE	892	57	1,277	26	65
MASON	232	103	817	0	117
MISSAUKEE	25,170	140	2,193	373	0
OHIO	0	0	0	0	28
OSCEOLA	27,092	3,479	4,573	1,349	16
OSCODA	0	0	0	648	0
OTSEGO	49	215	0	11,942	14
TENNESSEE	0	0	0	0	9
TEXAS	0	0	0	0	2
VIRGINIA	0	0	0	0	1
WASHINGTON	0	0	0	0	1
WEST VIRGINIA	0	0	0	0	4
WEXFORD	73,481	3,469	14,170	13,219	482
WISCONSIN	0	0	0	0	3
TOTALS	651,539	15,349	26,607	47,345	12,831

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

WHITEFEATHER LANDFILL (BAY COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ANTRIM	30	705	0	0	0
ARENAC	21,816	677	10,932	0	512
BAY	142,184	30,761	85,291	0	13,978
CLARE	11,399	7,133	2,336	0	2,382
EMMET	67	0	120	0	0
GENESEE	151	40	30	0	26
GLADWIN	32,964	528	6,354	0	220
GRAND TRAVERSE	28	0	1,770	0	0
GRATIOT	20	240	20	0	0
IOSCO	34,751	648	24,140	0	0
ISABELLA	65	476	12,360	0	404
KALKASKA	0	0	40	0	0
MIDLAND	555	1,410	910	0	27
OGEMAW	19,752	230	12,891	0	205
ROSCOMMON	26,892	244	6,358	0	110
SAGINAW	42,820	10,381	4,747	0	1,579
TUSCOLA	5,137	900	24	0	80
TOTALS	338,631	54,373	168,323	0	19,523

APPENDIX B

LANDFILL DISPOSAL BY WASTE ORIGIN AND TYPE

WOOD ISLAND WASTE MANAGEMENT, INC. (ALGER COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
ALGER	21,251	8,819	0	0	0
CHIPPEWA	1,313	0	0	0	0
DICKINSON	114,334	497	0	0	0
IRON	21	0	0	0	0
LUCE	224	0	0	0	0
MARQUETTE	0	2	0	0	0
MENOMINEE	1,621	4,188	0	0	0
WISCONSIN	3,195	0	0	0	0
TOTALS	141,960	13,506	0	0	0

WOODLAND MEADOWS RDF-VAN BUREN (WAYNE COUNTY)					
ORIGIN	MCW	IW	C&D	ADC	OTHER
CANADA	0	6,683	0	0	0
GENESEE	275	0	0	0	50
JACKSON	90,292	318	74	0	2,706
KALAMAZOO	0	58,429	0	0	0
LENAWEE	0	0	0	0	187
LIVINGSTON	6,353	547	0	0	811
MACOMB	3,363	234	0	0	34,765
MONROE	86,942	10,807	10	0	10,527
OAKLAND	200,665	13,222	2,685	0	32,548
OHIO	5,097	2,942	0	0	6,037
WASHTENAW	467,034	52,545	1,081	0	9,636
WAYNE	2,632,603	586,421	24,464	0	1,362,354
TOTALS	3,492,624	732,148	28,314	0	1,459,621