

APPENDIX E.3

WASTE DISPOSAL RATES



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES**Methodology**

The following steps were utilized to estimate per capita waste disposal rates for the Chicago metropolitan area and downstate counties. The metropolitan area is comprised of Cook County, DuPage County, Kane County, Lake County, McHenry County and Will County -- however, only Cook and Lake Counties and a portion of McHenry County are within the proposed service area. The methodology utilizes landfill disposal data during the period 1996-2008, and represents the most current information on disposal rates.

Step 1. Landfills that are known to accept waste from the metropolitan area were identified through the following process:

- A. Illinois landfills which are currently utilized to dispose of waste from the metropolitan area were identified through several methods. First, landfills located within the six-county metropolitan area were assumed to accept waste from the metropolitan area. Second, a number of transfer stations located within the metropolitan area were surveyed to determine which landfills they utilize (including, potentially, landfills located outside of the metropolitan area). Third, government agencies that have negotiated long-term contracts for transfer and disposal capacity were contacted to determine which landfills they utilize.
 - i. Illinois landfills located within the six-county metropolitan area were identified from the IEPA annual report, *Nonhazardous Solid Waste Management and Landfill Capacity in Illinois*, as well as from landfill capacity certification forms which all Illinois landfills are required to submit to the IEPA on an annual basis.
 - ii. A survey of Illinois transfer stations was performed to determine which landfills they utilized. This survey was conducted by reviewing IEPA inspection reports for the transfer stations, or by contacting the operators of the transfer stations directly. The results of the transfer station survey are presented in Table E.3-1.
 - iii. Government agencies that have negotiated long-term contracts for transfer and disposal capacity were contacted to determine which landfills they utilize. The results of this research are presented in Table E.3-2.
- B. Indiana landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual report published by the Indiana Department of Environmental Management, the *Summary of Indiana Solid Waste Facility Data*. Indiana landfills are required to report waste disposal quantities to IDEM based on the county and state of origin of the waste.
- C. Michigan landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual report published by the Michigan Department of Environmental Quality, the *Report of Solid Waste Landfilled in Michigan*.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

- D. Wisconsin landfills that currently accept waste from the Chicago metropolitan area were identified by consulting an annual landfill capacity report published by the Wisconsin Department of Natural Resources, the *Wisconsin Solid Waste Landfill Tonnage/Capacity Report*.¹

Utilizing this methodology, a total of 46 landfills (and one incinerator) in Illinois, Indiana, Michigan and Wisconsin were identified as accepting waste from the Chicago metropolitan area over the period 1996 to 2008 (refer to Figure E.3-1). During this period, some landfills closed while others began operating; therefore, not all facilities were operating during each year of the period.

¹ Note that only Indiana landfills are required to report *both* the county and state of origin for wastes received. Landfills in Illinois, Michigan and Wisconsin are only required to report the state of origin of wastes received. Michigan and Wisconsin landfills that reported receiving waste from Illinois were assumed to have received that waste from the Chicago metropolitan area due to their proximity to the metro area.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

TABLE E.3-1. SURVEY OF TRANSFER STATIONS (LANDFILLS HISTORICALLY UTILIZED)	
Transfer Station	Landfills Utilized
Loop-64 th Street	Livingston, County Line, Lee County, Newton County.
ARC	Kestrel Hawk, Orchard Hills, Mallard Ridge, Newton County, Woodland.
Calumet	Livingston, County Line, Newton County.
Clearing	Livingston, Laraway, Liberty.
DuKane	Lee County.
Greenwood	Winnebago
Heartland	Livingston, Lee County, Forest Lawn, Kestrel Hawk, Winnebago, Rochelle.
Homewood Disposal	Livingston, Newton County, Forest Lawn.
Loop-Laflin	Livingston, County Line, Newton County.
Liberty	Livingston, Environtech, Streator.
Midtown	Livingston, County Line, Newton County.
Planet Recovery	Livingston, County Line, Newton County.
Rolling Meadows	Orchard Hills, Lee County.
Shred-All	Livingston, Newton County, County Line.
Star Disposal	Livingston, Environtech, Newton County, Forest Lawn.
Veolia - Batavia	Orchard Hills.
Veolia - Evanston	Zion, Orchard Hills.
Veolia - Melrose Park	Livingston, Orchard Hills, Lee County.
Veolia - Northbrook	Zion.
WM-Elburn	Lee County, Orchard Hills, Prairie Hill, Settler's Hill.
Source:	
1. Review of IEPA transfer station inspection reports and telephone surveys.	



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

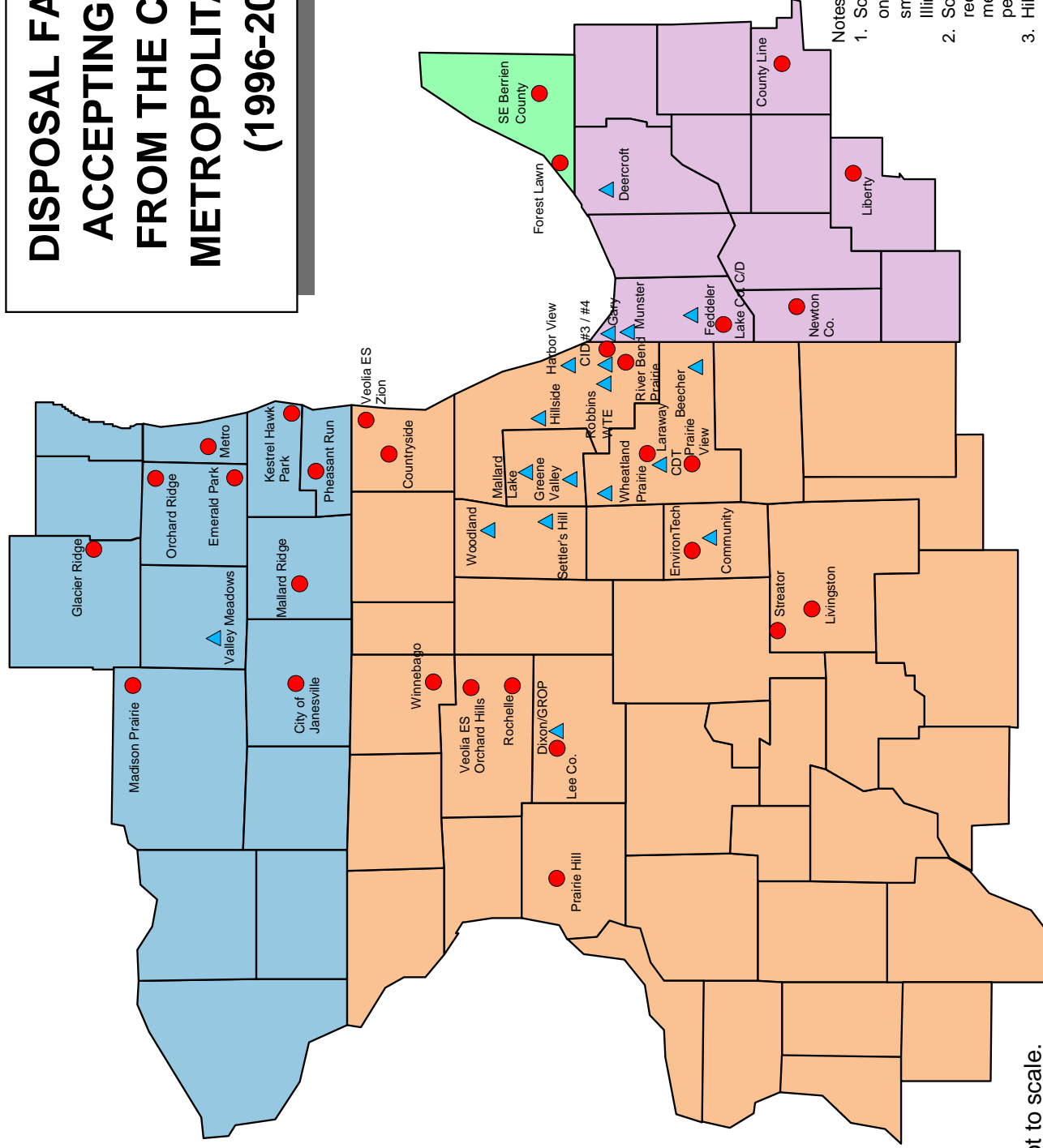
Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

TABLE E.3-2. LANDFILLS UTILIZED BY PUBLIC AGENCIES CONTRACTING FOR DISPOSAL CAPACITY			
Jurisdiction	County	Transfer Stations Utilized	Landfills Utilized
City of Chicago	Cook	34th Street MRRF, Medill MRRF, Northwest MRRF	Livingston Landfill
SWANCC	Cook	Wheeling Township TS	Winnebago Landfill
WCCSWA	Cook	Liberty-McCook TS, Northlake TS	Livingston Landfill, Lee County Landfill
Notes: 1. SWANCC = Solid Waste Agency of Northern Cook County. WCCSWA = West Cook County Solid Waste Agency. 2. Based on phone interviews of representatives of each jurisdiction.			

DISPOSAL FACILITIES ACCEPTING WASTE FROM THE CHICAGO METROPOLITAN AREA (1996-2008)



Not to scale.

FIGURE E.3-1



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

Step 2. Annual quantities of waste disposed during the period 1996 - 2008 were obtained for each of the 47 facilities (46 landfills and one incinerator) identified in Step 1 from IEPA, IDEM, MDEQ and WDNR. For the Illinois landfills, the quantity of waste received at each facility from the Chicago metropolitan area was estimated using the following equation:

$$(\text{Waste from Metropolitan Area}) = (\text{Total Landfill Throughput}^2) - (\text{Out-of-State Waste})$$

For the Indiana landfills, the quantity of waste received at each facility from the Chicago metropolitan area was obtained directly from IDEM reports. As was noted previously, Indiana landfills must report to IDEM both the state and county of origin of waste received.

For the Michigan and Wisconsin landfills, the quantity of waste received at each facility from the Chicago metropolitan area was estimated from MDEQ and WDNR reports. Michigan and Wisconsin require landfills to report the state of origin but, unlike Indiana, do not require the county of origin to be reported. Due to their proximity to the Chicago area, it was conservatively assumed that all Illinois waste received at the Michigan and Wisconsin landfills originated from the Chicago metropolitan area.

Disposal quantities are summarized in Table E.3-3. Note that Indiana and Wisconsin landfills report disposal quantities in tons. Illinois and Michigan landfills report disposal quantities in cubic yards. For the Illinois landfills, cubic yard data was converted to tonnage data using facility-specific densities that the landfills report to IEPA. For the Michigan landfills, cubic yard data was converted to tonnage data using an industry conversion factor of 3.3 cubic yards per ton.

Step 3. Disposal quantities (after adjustment for imports in the case of Illinois landfills) were then adjusted to account for special waste. This was done to provide per capita disposal rates for municipal waste and for total waste (the latter category includes special waste). Indiana, Michigan and Wisconsin landfills all track special waste quantities separately from municipal solid waste quantities³. Therefore, no adjustments were required.

The annual Illinois landfill report documents the total quantity of waste received by each landfill, but does not distinguish between special waste and municipal solid waste. Thus, the disposal quantities reported in Table E.3-3 for Illinois landfills have to be reduced to account for special waste in order to compute municipal waste.

Each load of special waste in Illinois must be tracked by a manifest from the point of generation to the point of disposal. The manifests must then be submitted to the IEPA. A computer database file of all the special waste manifests was obtained from the IEPA for the years 2000 - 2007. A search of the database indicated that, on average, special waste accounted for approximately

² For landfills located outside the Chicago metropolitan area, Total Landfill Throughput includes waste from the host county -- an adjustment for this is made in Step 4.

³ Non-hazardous special waste includes industrial process waste and pollution control waste (such as contaminated soil from a remediation project). Municipal solid waste includes residential waste, commercial waste, light industrial waste, and construction and demolition debris.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

4 percent of the total volume of waste received annually by the Illinois landfills presented in Table E.3-3.

To convert this value to a tonnage figure, the reported densities of waste received at the CID RDF #3 Landfill, the CID RDF #4 Landfill, and the Laraway RDF Landfill were averaged (refer to Table E.3-4). These facilities handle high volumes of special waste relative to municipal solid waste. The resulting average density for special waste was computed to be approximately 1,600 pounds per cubic yard (special waste typically has a higher density than municipal solid waste). Using this estimated density value, the reported volume of special waste corresponds to an average of about 9 percent of the total tonnage of waste accepted by the landfills annually. Accordingly, the total tonnage of waste for the Illinois landfills in Table E.3-3 was reduced by 9 percent to account for special waste (actual special waste tonnages were used for years 2000 to 2007).

Step 4. The estimated total quantity of waste disposed by the Chicago metropolitan area (Step 1), after adjusting for out-of-state imports (Step 2), was then compared with population estimates to calculate a per capita total waste disposal rate (in pounds per capita per day). A municipal waste disposal rate (in pounds per capita per day) was also calculated following the same methodology, utilizing the adjustment for special waste (Step 3).

As was indicated earlier, waste from the Chicago metropolitan area is disposed at Illinois landfills located both within the metropolitan area and outside the metropolitan area. It is judged that the vast majority of waste disposed at landfills within the six-county metro area originates from the six counties. This is because landfill tipping fees are typically higher in the metropolitan area, and hence there would be less incentive for more rural counties to transport their waste to metro area landfills.

Illinois landfills located outside the metropolitan area receive waste from both the metro area and from the rural "host" counties in which they are located. For the facilities identified in Table E.3-3, these host counties include Grundy County (Community Landfill and EnvironTech Landfill), Lee County (Lee County Landfill and Dixon/GROP Landfill; the latter facility is now closed), Livingston County (Livingston Landfill and Streator Area Landfill), and Ogle County (Orchard Hills Landfill). Beginning in the year 2006, the host counties also include Whiteside County (Prairie Hill RDF) and Winnebago County (Winnebago Landfill) because the transfer station survey indicated greater use of the Prairie Hill RDF and Winnebago Landfill (as well as the Rochelle Municipal Landfill in Ogle County) by Chicago area transfer stations. The population of the host counties was added to the population of the six-county metro area to derive the per capita disposal rates.⁴ Population projections for the period 1996 - 2008 are provided in Table E.3-5.

⁴

It is possible that these landfills also receive waste from rural counties that neighbor the "host" counties -- however, these quantities are likely to be relatively small.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

			2008						
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0	
CDT Landfill	Will	IL	0	0	0	0	0	0	
CiD RDF #3	Cook	IL	0	0	0	0	0	0	
CiD RDF #4	Cook	IL	2,000	12,000	12,000	0	0	12,000	
Community Landfill	Grundy	IL	0	0	0	0	0	0	
Countryside RDF	Lake	IL	500	1,761,647	440,412	0	0	440,412	
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0	
Envirotech	Grundy	IL	770	844,543	325,149	2,796	1,076	324,073	
Greene Valley	DuPage	IL	0	0	0	0	0	0	
Harbor View	Cook	IL	0	0	0	0	0	0	
Hillside	Cook	IL	600	30,046	9,014	0	0	9,014	
Laraway RDF	Will	IL	3,400	76,730	130,441	0	0	130,441	
Lee County Landfill	Lee	IL	600	3,695,096	1,108,529	19,717	5,915	1,102,614	
Livingston Landfill	Livingston	IL	656	3,255,723	1,067,877	0	0	1,067,877	
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0	
Orchard Hills Landfill	Ogle	IL	519	6,878,666	1,785,014	949	246	1,784,768	
Prairie Hill RDF	Whiteside	IL	551	1,405,844	387,310	131,054	36,105	351,205	
Prairie View RDF	Will	IL	504	2,984,678	752,139	0	0	752,139	
River Bend Prairie	Cook	IL	784	1,226,000	480,592	28,790	11,286	469,306	
Rochelle Landfill	Ogle	IL	1,120	364,000	203,840	0	0	203,840	
Settler's Hill RDF	Kane	IL	0	0	0	0	0	0	
Streator Area Landfill	Livingston	IL	600	0	0	0	0	0	
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0	
Winnebago Landfill	Winnebago	IL	509	2,654,046	675,455	0	0	675,455	
Woodland RDF	Kane	IL	0	0	0	0	0	0	
Zion Landfill	Lake	IL	578	2,167,940	626,535	43,717	12,634	613,901	
Subtotal			=====	585	27,356,959	8,004,307	227,023	67,262	7,937,045
Less, Special Waste									714,334
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0	0
Total MSW									7,222,711

			2008					
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
County Line Landfill	Fulton	IN			178,885		58,232	58,232
Munster Landfill	Lake	IN			0		0	0
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			26,786		15,398	15,398
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			2,926,489		1,838,200	1,838,200
Liberty Landfill	White	IN			643,978		330,169	330,169
Subtotal					3,776,138		2,241,999	2,241,999
Less, Special Waste								63,073
Total MSW								2,178,926

			2008					
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Forest Lawn Landfill	Berrien	MI		2,191,731	664,161	859,072	260,325	260,325
SE Berrien County	Berrien	MI		921,821	279,340	0	0	0
Subtotal				3,113,552	943,501	859,072	260,325	260,325

			2008					
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)
Madison Prairie	Dane	WI			81,548		16	16
Glacier Ridge	Dodge	WI			372,337		17,275	17,275
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			794,235		608,691	608,691
Metro RDF	Milwaukee	WI			492,622		21	21
Kestrel Hawk	Racine	WI			171,135		46,013	46,013
City of Janesville - Rock Co. LF	Rock	WI			311,617		31,783	31,783
Mallard Ridge	Walworth	WI			639,974		389,718	389,718
Emerald Park	Waukesha	WI			644,144		0	0
Orchard Ridge RDF	Waukesha	WI			1,048,179		18	18
Subtotal					4,555,791		1,093,535	1,093,535
Less, Special Waste								16
Total MSW								1,093,519
Total Waste - All States								11,532,904
Total MSW - All States								10,755,481
Population (see Table E.3-5)								9,290,166
Waste Disposal (pcd) - Total Waste								6.8
Waste Disposal (pcd) - MSW Only								6.3

Notes:
1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2007					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	0	0	0	0	0	0
CID RDF #4	Cook	IL	2,000	12,207	12,207	11,649	11,649	558
Community Landfill	Grundy	IL	0	0	0	0	0	0
Countryside RDF	Lake	IL	500	1,751,478	437,870	0	0	437,870
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	770	881,449	339,358	4,408	1,697	337,661
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	3,963,321	1,188,996	0	0	1,188,996
Laraway RDF	Will	IL	3,400	48,661	82,724	0	0	82,724
Lee County Landfill	Lee	IL	600	2,506,750	752,025	156	47	751,978
Livingston Landfill	Livingston	IL	656	4,591,439	1,505,992	0	0	1,505,992
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	524	6,296,274	1,648,994	3,293	862	1,648,132
Prairie Hill RDF	Whiteside	IL	541	1,315,685	355,893	107,866	29,178	326,715
Prairie View RDF	Will	IL	587	2,918,871	856,689	0	0	856,689
River Bend Prairie	Cook	IL	895	966,409	432,468	167	75	432,393
Rochelle Landfill	Ogle	IL	1,120	344,813	193,095	0	0	193,095
Settler's Hill RDF	Kane	IL	0	0	0	0	0	0
Streator Area Landfill	Livingston	IL	600	0	0	0	0	0
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Winnebago Landfill	Winnebago	IL	438	3,348,184	733,252	0	0	733,252
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	627	2,582,253	809,536	40,645	12,742	796,794
Subtotal			593	31,527,793	9,349,099	168,184	56,250	9,292,849
Less, Special Waste								559,170
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,733,679

Landfill	County	State	2007					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			214,577		106,339	106,339
Munster Landfill	Lake	IN			0		0	0
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			54,972		10,555	10,555
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			2,692,455		1,465,200	1,465,200
Liberty Landfill	White	IN			721,817		421,937	421,937
Subtotal					3,683,821		2,004,031	2,004,031
Less, Special Waste								113,633
Total MSW								1,890,398

Landfill	County	State	2007					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		2,102,367	637,081	561,859	170,260	170,260
SE Berrien County	Berrien	MI		855,135	259,132	5,562	1,685	1,685
Subtotal				855,135	896,213	567,421	171,945	171,945

Landfill	County	State	2007					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			117,022		0	0
Glacier Ridge	Dodge	WI			326,634		15,855	15,855
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			951,667		766,801	766,801
Metro RDF	Milwaukee	WI			500,708		6	6
Kestrel Hawk	Racine	WI			187,696		48,706	48,706
City of Janesville - Rock Co. LF	Rock	WI			310,622		29,334	29,334
Mallard Ridge	Walworth	WI			650,050		399,699	399,699
Emerald Park	Waukesha	WI			726,196		0	0
Orchard Ridge RDF	Waukesha	WI			1,074,810		7	7
Subtotal					4,845,405		1,260,408	1,260,408
Less, Special Waste								0
Total MSW								1,260,408
Total Waste - All States								12,729,233
Total MSW - All States								12,056,430
Population (see Table E.3-5)								9,203,286
Waste Disposal (pcd) - Total Waste								7.6
Waste Disposal (pcd) - MSW Only								7.2

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2006					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	2,000	1,091	1,091	0	0	1,091
CID RDF #4	Cook	IL	2,000	972	972	90	90	882
Community Landfill	Grundy	IL	0	0	0	0	0	0
Countyside RDF	Lake	IL	500	1,559,997	389,999	0	0	389,999
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	770	1,123,943	432,718	0	0	432,718
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	574,965	172,490	0	0	172,490
Laraway RDF	Will	IL	2,000	112	112	0	0	112
Lee County Landfill	Lee	IL	600	3,062,370	918,711	287	86	918,625
Livingston Landfill	Livingston	IL	656	6,145,905	2,015,857	0	0	2,015,857
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	540	6,567,694	1,773,934	244	66	1,773,868
Prairie Hill RDF	Whiteside	IL	536	1,014,600	271,913	92,428	24,771	247,142
Prairie View RDF	Will	IL	559	2,462,307	688,215	0	0	688,215
River Bend Prairie	Cook	IL	986	720,267	355,092	221	109	354,983
Rochelle Landfill	Ogle	IL	1,120	445,000	249,200	0	0	249,200
Settler's Hill RDF	Kane	IL	629	3,336,576	1,049,353	0	0	1,049,353
Streator Area Landfill	Livingston	IL	600	0	0	0	0	0
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Winnebago Landfill	Winnebago	IL	438	2,630,580	576,097	0	0	576,097
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	686	2,579,859	884,892	59,289	20,336	864,556
Subtotal			607	32,226,238	9,780,646	152,558	45,458	9,735,188
Less, Special Waste								892,252
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,842,936

Landfill	County	State	2006					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			665,594		511,031	511,031
Munster Landfill	Lake	IN			0		0	0
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			66,547		42,180	42,180
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			2,604,061		1,313,549	1,313,549
Liberty Landfill	White	IN			562,685		278,470	278,470
Subtotal					3,898,887		2,145,230	2,145,230
Less, Special Waste								94,370
Total MSW								2,050,860

Landfill	County	State	2006					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		4,063,461	1,231,352	1,588,424	481,341	481,341
SE Berrien County	Berrien	MI		724,376	219,508	0	0	0
Subtotal				4,787,837	1,450,860	1,588,424	481,341	481,341

Landfill	County	State	2006					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			149,279		0	0
Glacier Ridge	Dodge	WI			275,663		11,503	11,503
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			1,033,438		838,080	838,080
Metro RDF	Milwaukee	WI			540,890		3,796	3,796
Kestrel Hawk	Racine	WI			298,319		135,457	135,457
City of Janesville - Rock Co. LF	Rock	WI			225,340		23,893	23,893
Mallard Ridge	Walworth	WI			542,344		209,955	209,955
Emerald Park	Waukesha	WI			890,257		0	0
Orchard Ridge RDF	Waukesha	WI			1,227,189		0	0
Subtotal					5,182,719		1,222,684	1,222,684
Less, Special Waste								0
Total MSW								1,222,684
Total Waste - All States								13,584,443
Total MSW - All States								12,597,821
Population (see Table E.3-5)								9,116,400
Waste Disposal (pcd) - Total Waste								8.2
Waste Disposal (pcd) - MSW Only								7.6

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2005					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	2,000	99,808	99,808	1,243	1,243	98,565
CID RDF #4	Cook	IL	2,000	24,241	24,241	5,110	5,110	19,131
Community Landfill	Grundy	IL	0	0	0	0	0	0
Countryside RDF	Lake	IL	600	1,742,516	522,755	0	0	522,755
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	770	1,260,446	485,272	0	0	485,272
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	308,313	92,494	0	0	92,494
Laraway RDF	Will	IL	2,000	195	195	0	0	195
Lee County Landfill	Lee	IL	600	4,044,660	1,213,398	141	42	1,213,356
Livingston Landfill	Livingston	IL	656	6,667,994	2,187,102	0	0	2,187,102
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	484	5,097,255	1,232,516	55	13	1,232,503
Prairie View RDF	Will	IL	487	1,876,777	456,995	0	0	456,995
River Bend Prairie	Cook	IL	1,055	737,276	388,913	585	309	388,604
Settler's Hill RDF	Kane	IL	629	2,485,345	781,641	0	0	781,641
Streator Area Landfill	Livingston	IL	600	67,663	20,299	53	16	20,283
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	742	2,805,300	1,040,766	75,864	28,146	1,012,620
Subtotal			=====	=====	=====	=====	=====	=====
			628	27,217,789	8,546,395	83,051	34,879	8,511,516
Less, Special Waste								1,061,263
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								7,450,253

Landfill	County	State	2005					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			1,200,430		1,092,741	1,092,741
Munster Landfill	Lake	IN			0		0	0
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			199,048		165,950	165,950
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			2,145,175		1,090,179	1,090,179
Liberty Landfill	White	IN			577,613		252,630	252,630
Subtotal					=====		=====	=====
					4,122,266		2,601,500	2,601,500
Less, Special Waste								80,449
Total MSW								2,521,051

Landfill	County	State	2005					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		3,712,950	1,125,136	1,249,612	378,670	378,670
SE Berrien County	Berrien	MI		689,221	208,855	2	1	1
Subtotal				=====	=====	=====	=====	=====
				4,402,171	1,333,991	1,249,614	378,671	378,671

Landfill	County	State	2005					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			170,650		2	2
Glacier Ridge	Dodge	WI			320,825		14,236	14,236
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			1,154,006		970,742	970,742
Metro RDF	Milwaukee	WI			617,974		1,016	1,016
Kestrel Hawk	Racine	WI			439,427		357,971	357,971
City of Janesville - Rock Co. LF	Rock	WI			205,206		16,961	16,961
Mallard Ridge	Walworth	WI			337,970		51,104	51,104
Emerald Park	Waukesha	WI			872,487		0	0
Orchard Ridge RDF	Waukesha	WI			1,200,920		6	6
Subtotal					=====		=====	=====
					5,319,465		1,412,038	1,412,038
Less, Special Waste								2
Total MSW								1,412,036
Total Waste - All States								12,903,725
Total MSW - All States								11,762,011
Population (see Table E.3-5)								8,677,461
Waste Disposal (pcd) - Total Waste								8.1
Waste Disposal (pcd) - MSW Only								7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2004					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	2,400	303,857	364,628	6,296	7,555	357,073
CID RDF #4	Cook	IL	2,400	133,232	159,878	2,183	2,620	157,258
Community Landfill	Grund	IL	0	0	0	0	0	0
Countryside RDF	Lake	IL	600	1,881,489	564,447	0	0	564,447
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grund	IL	811	1,147,644	465,370	0	0	465,370
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	359,255	107,777	0	0	107,777
Laraway RDF	Will	IL	2,400	2,629	3,155	0	0	3,155
Lee County Landfill	Lee	IL	600	4,025,263	1,207,579	15,812	4,744	1,202,835
Livingston Landfill	Livingston	IL	656	7,547,607	2,475,615	0	0	2,475,615
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	475	4,721,672	1,121,161	277	66	1,121,095
Prairie View RDF	Will	IL	436	1,885,665	411,075	0	0	411,075
River Bend Prairie	Cook	IL	1,031	716,530	369,371	2,630	1,356	368,015
Settler's Hill RDF	Kane	IL	592	2,461,334	728,555	0	0	728,555
Streator Area Landfill	Livingston	IL	600	554,032	166,210	2,644	793	165,417
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	643	2,593,587	833,838	81,528	26,211	807,627
Subtotal			=====	=====	=====	=====	=====	=====
			634	28,333,796	8,978,659	111,370	43,345	8,935,314
Less, Special Waste								869,993
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,065,321

Landfill	County	State	2004					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			712,180		605,664	605,664
Munster Landfill	Lake	IN			73,313		17,347	17,347
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			270,807		223,521	223,521
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			1,685,838		952,734	952,734
Liberty Landfill	White	IN			583,737		291,005	291,005
Subtotal					=====		=====	=====
					3,325,875		2,090,271	2,090,271
Less, Special Waste								93,662
Total MSW								1,996,609

Landfill	County	State	2004					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI			4,029,803		535,937	535,937
SE Berrien County	Berrien	MI			651,732		55	17
Subtotal					=====		=====	=====
					4,681,535		535,954	535,954

Landfill	County	State	2004					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			218,686		28	28
Glacier Ridge	Dodge	WI			308,934		17,511	17,511
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			1,168,236		955,813	955,813
Metro RDF	Milwaukee	WI			890,133		27,544	27,544
Kestrel Hawk	Racine	WI			576,742		344,666	344,666
City of Janesville - Rock Co. LF	Rock	WI			155,554		16,617	16,617
Mallard Ridge	Walworth	WI			345,908		45,408	45,408
Emerald Park	Waukesha	WI			639,921		0	0
Orchard Ridge RDF	Waukesha	WI			883,997		3	3
Subtotal					=====		=====	=====
					5,188,111		1,407,590	1,407,590
Less, Special Waste								28
Total MSW								1,407,562
Total Waste - All States								12,969,129
Total MSW - All States								12,005,446
Population (see Table E.3-5)								8,593,172
Waste Disposal (pcd) - Total Waste								8.3
Waste Disposal (pcd) - MSW Only								7.7

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2003					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	985	301,618	148,547	1,396	688	147,859
CID RDF #4	Cook	IL	1,842	78,638	72,426	2,286	2,105	70,321
Community Landfill	Grund	IL	600	0	0	0	0	0
Countryside RDF	Lake	IL	600	1,796,279	538,884	0	0	538,884
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grund	IL	730	1,346,988	491,651	0	0	491,651
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	387,266	116,180	0	0	116,180
Laraway RDF	Will	IL	1,980	19,688	19,491	0	0	19,491
Lee County Landfill	Lee	IL	600	4,337,507	1,301,252	60,908	18,273	1,282,979
Livingston Landfill	Livingston	IL	656	10,550,336	3,460,510	0	0	3,460,510
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	426	4,928,362	1,049,741	3,294	702	1,049,039
River Bend Prairie	Cook	IL	722	663,684	239,590	28,190	10,176	229,414
Settler's Hill RDF	Kane	IL	495	4,766,833	1,179,791	0	0	1,179,791
Streator Area Landfill	Livingston	IL	600	369,803	110,941	5,394	1,618	109,323
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Woodland RDF	Kane	IL	0	0	0	0	0	0
Zion Landfill	Lake	IL	590	2,661,210	785,057	84,000	24,780	760,277
Subtotal			591	32,208,212	9,514,061	185,469	58,342	9,455,719
Less, Special Waste								864,307
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,591,412

Landfill	County	State	2003					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			303,978		104,739	104,739
Munster Landfill	Lake	IN			164,719		34,769	34,769
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			112,585		63,966	63,966
Deercroft RDF	LaPorte	IN			0		0	0
Newton County Landfill	Newton	IN			1,102,460		536,777	536,777
Liberty Landfill	White	IN			321,545		23,164	23,164
Subtotal					2,005,287		763,415	763,415
Less, Special Waste								43,901
Total MSW								719,514

Landfill	County	State	2003					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		3,875,979	1,174,539	1,811,172	548,840	548,840
SE Berrien County	Berrien	MI		589,082	178,510	115	35	35
Subtotal				4,465,061	1,353,049	1,811,287	548,875	548,875

Landfill	County	State	2003					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			153,399		165	165
Glacier Ridge	Dodge	WI			285,370		12,526	12,526
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			670,868		469,627	469,627
Metro RDF	Milwaukee	WI			871,920		80,941	80,941
Kestrel Hawk	Racine	WI			508,510		279,436	279,436
City of Janesville - Rock Co. LF	Rock	WI			150,087		22,088	22,088
Mallard Ridge	Walworth	WI			323,067		33,728	33,728
Emerald Park	Waukesha	WI			637,418		0	0
Orchard Ridge RDF	Waukesha	WI			822,442		15	15
Subtotal					4,423,081		898,526	898,526
Less, Special Waste								165
Total MSW								898,361
Total Waste - All States								11,666,535
Total MSW - All States								10,758,162
Population (see Table E.3-5)								8,508,886
Waste Disposal (pcd) - Total Waste								7.5
Waste Disposal (pcd) - MSW Only								6.9

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	2002					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	985	526,100	259,104	0	0	259,104
CID RDF #4	Cook	IL	1,842	512,730	472,224	5,653	5,206	487,018
Community Landfill	Grund	IL	600	87,426	26,228	0	0	26,228
Countryside RDF	Lake	IL	600	1,803,372	541,012	0	0	541,012
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grund	IL	600	1,835,948	550,784	0	0	550,784
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	452,925	135,878	0	0	135,878
Laraway RDF	Will	IL	1,980	65,819	65,161	0	0	65,161
Lee County Landfill	Lee	IL	600	3,444,057	1,033,217	91,022	27,307	1,005,910
Livingston Landfill	Livingston	IL	656	9,630,512	3,158,808	0	0	3,158,808
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	468	4,413,427	1,032,742	25,663	6,005	1,026,737
River Bend Prairie	Cook	IL	900	620,753	279,339	31,138	14,012	265,327
Settler's Hill RDF	Kane	IL	513	4,299,246	1,102,757	0	0	1,102,757
Streator Area Landfill	Livingston	IL	600	173,077	51,923	1,403	421	51,502
Wheatland Prairie RDF	Will	IL	0	0	0	0	0	0
Woodland RDF	Kane	IL	606	928,610	281,397	180	55	281,342
Zion Landfill	Lake	IL	603	2,463,544	742,759	91,440	27,569	715,190
Subtotal			623	31,257,546	9,733,333	246,499	80,575	9,652,758
Less, Special Waste								940,773
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,711,985

Landfill	County	State	2002					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			395,923		168,999	168,999
Munster Landfill	Lake	IN			157,587		33,029	33,029
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			28,669		20,756	20,756
Deercroft RDF	LaPorte	IN			787,289		512,325	512,325
Newton County Landfill	Newton	IN			1,073,722		547,819	547,819
Liberty Landfill	White	IN			138,668		8,453	8,453
Subtotal					2,581,858		1,291,381	1,291,381
Less, Special Waste								50,862
Total MSW								1,240,519

Landfill	County	State	2002					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		3,578,631	1,084,434	1,639,322	496,764	496,764
SE Berrien County	Berrien	MI		537,792	162,967	395	120	120
Subtotal				4,116,423	1,247,401	1,639,717	496,884	496,884

Landfill	County	State	2002					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			143,371		4,645	4,645
Glacier Ridge	Dodge	WI			342,641		13,969	13,969
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			603,264		419,530	419,530
Metro RDF	Milwaukee	WI			803,491		64,711	64,711
Kestrel Hawk	Racine	WI			537,054		322,503	322,503
City of Janesville - Rock Co. LF	Rock	WI			153,951		22,905	22,905
Mallard Ridge	Walworth	WI			364,177		75,656	75,656
Emerald Park	Waukesha	WI			792,372		0	0
Orchard Ridge RDF	Waukesha	WI			749,172		4	4
Subtotal					4,489,493		923,923	923,923
Less, Special Waste								4,645
Total MSW								919,278
Total Waste - All States								12,364,946
Total MSW - All States								11,368,666
Population (see Table E.3-5)								8,424,601
Waste Disposal (pcd) - Total Waste								8.0
Waste Disposal (pcd) - MSW Only								7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

			2001					Illinois (tons)
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	0	0	0	0	0	0
CID RDF #3	Cook	IL	985	647,212	318,752	4,107	2,023	316,729
CID RDF #4	Cook	IL	1,842	246,097	226,655	3,380	3,113	223,542
Community Landfill	Grund	IL	600	167,619	50,286	0	0	50,286
Countryside RDF	Lake	IL	600	1,717,380	515,214	0	0	515,214
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grund	IL	600	1,657,071	497,121	0	0	497,121
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	513,520	154,056	0	0	154,056
Laraway RDF	Will	IL	1,980	115,889	114,730	0	0	114,730
Lee County Landfill	Lee	IL	600	3,440,363	1,032,109	102,024	30,607	1,001,502
Livingston Landfill	Livingston	IL	656	9,747,743	3,197,260	654	215	3,197,045
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0
Orchard Hills Landfill	Ogle	IL	487	3,515,139	855,936	15,138	3,686	852,250
River Bend Prairie	Cook	IL	600	607,781	182,334	7,268	2,180	180,154
Settler's Hill RDF	Kane	IL	457	3,919,894	895,696	0	0	895,696
Streator Area Landfill	Livingston	IL	600	216,229	64,869	640	192	64,877
Wheatland Prairie RDF	Will	IL	550	192,208	52,857	0	0	52,857
Woodland RDF	Kane	IL	714	1,317,117	470,211	1,096	391	469,820
Zion Landfill	Lake	IL	572	2,359,617	674,850	77,039	22,033	652,817
Subtotal			612	30,380,879	9,302,936	211,346	64,440	9,238,496
Less, Special Waste								723,305
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								8,515,191

			2001					Illinois (tons)
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			530,075		220,363	220,363
Munster Landfill	Lake	IN			157,622		33,580	33,580
Feddeler C/D Landfill	Lake	IN			0		0	0
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			0		0	0
Deercroft RDF	LaPorte	IN			881,725		611,772	611,772
Newton County Landfill	Newton	IN			1,176,499		647,816	647,816
Liberty Landfill	White	IN			0		0	0
Subtotal					2,745,921		1,513,531	1,513,531
Less, Special Waste								94,836
Total MSW								1,418,695

			2001					Illinois (tons)
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	Mi		4,544,318	1,377,066		2,559,811	775,700
SE Berrien County	Berrien	Mi		557,892	169,058		3,185	965
Subtotal				5,102,210	1,546,124		2,562,996	776,665

			2001					Illinois (tons)
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			140,972		2,703	2,703
Glacier Ridge	Dodge	WI			441,749		11,709	11,709
Superior Valley Meadows	Jefferson	WI			0		0	0
Pheasant Run RDF	Kenosha	WI			718,715		525,908	525,908
Metro RDF	Milwaukee	WI			596,399		0	0
Kestrel Hawk	Racine	WI			778,277		526,377	526,377
City of Janesville - Rock Co. LF	Rock	WI			127,365		253	253
Mallard Ridge	Walworth	WI			231,640		14,220	14,220
Emerald Park	Waukesha	WI			788,481		0	0
Orchard Ridge RDF	Waukesha	WI			865,768		1,815	1,815
Subtotal					4,689,366		1,082,985	1,082,985
Less, Special Waste								2,703
Total MSW								1,080,282
Total Waste - All States								12,611,677
Total MSW - All States								11,790,833
Population (see Table E.3-5)								8,340,315
Waste Disposal (pcd) - Total Waste								8.3
Waste Disposal (pcd) - MSW Only								7.7

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

			2000						
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	Illinois (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0	
CDT Landfill	Will	IL	800	308,050	123,220	0	0	123,220	
CID RDF #3	Cook	IL	985	584,545	287,888	2,259	1,113	286,775	
CID RDF #4	Cook	IL	1,842	224,365	206,640	2,682	2,470	204,170	
Community Landfill	Grund	IL	600	205,701	61,710	0	0	61,710	
Countryside RDF	Lake	IL	600	1,529,215	458,765	0	0	458,765	
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0	
Envirotech	Grund	IL	600	2,083,157	624,947	0	0	624,947	
Greene Valley	DuPage	IL	0	0	0	0	0	0	
Harbor View	Cook	IL	0	0	0	0	0	0	
Hillside	Cook	IL	600	161,865	48,560	0	0	48,560	
Laraway RDF	Will	IL	1,980	475,642	470,886	778	770	470,116	
Lee County Landfill	Lee	IL	600	3,052,273	915,682	0	0	915,682	
Livingston Landfill	Livingston	IL	656	8,272,419	2,713,353	291	95	2,713,258	
Mallard Lake Landfill	DuPage	IL	0	0	0	0	0	0	
Orchard Hills Landfill	Ogle	IL	553	2,600,000	718,900	132	36	718,864	
River Bend Prairie	Cook	IL	600	507,816	152,345	507	152	152,193	
Settler's Hill RDF	Kane	IL	466	3,920,084	913,380	0	0	913,380	
Streator Area Landfill	Livingston	IL	600	674,652	202,396	2,070	621	201,775	
Wheatland Prairie RDF	Will	IL	550	742,564	204,205	0	0	204,205	
Woodland Prairie RDF	Kane	IL	606	858,419	260,101	3,130	948	259,153	
Zion Landfill	Lake	IL	521	2,012,593	524,280	85,244	22,206	502,074	
Subtotal			630	28,213,360	8,887,258	97,093	28,411	8,858,847	
Less, Special Waste								765,103	
Plus, Robbins WTE	Cook	IL	606	683,413	207,095	0	0	207,095	
Total MSW								8,300,839	

			2000						
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)	
County Line Landfill	Fulton	IN			494,433		202,427	202,427	
Munster Landfill	Lake	IN			149,260		40,423	40,423	
Feddeler C/D Landfill	Lake	IN			7,631		53	53	
Gary Sanitary Landfill	Lake	IN			0		0	0	
Lake County C/D Site	Lake	IN			0		0	0	
Deercroft RDF	LaPorte	IN			1,074,816		652,779	652,779	
Newton County Landfill	Newton	IN			885,336		546,497	546,497	
Liberty Landfill	White	IN			0		0	0	
Subtotal					2,611,476		1,442,179	1,442,179	
Less, Special Waste								37,078	
Total MSW								1,405,101	

			2000						
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)	
Forest Lawn Landfill	Berrien	MI		4,145,910	1,256,336	2,106,015	638,186	638,186	
SE Berrien County	Berrien	MI		548,559	166,230	6,082	1,843	1,843	
Subtotal				4,694,469	1,422,566	2,112,097	640,029	640,029	

			2000						
Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	Illinois (tons)	
Madison Prairie	Dane	WI			155,002		14,720	14,720	
Glacier Ridge	Dodge	WI			428,317		7,019	7,019	
Superior Valley Meadows	Jefferson	WI			0		0	0	
Pheasant Run RDF	Kenosha	WI			797,312		612,712	612,712	
Metro RDF	Milwaukee	WI			451,949		0	0	
Kestrel Hawk	Racine	WI			558,611		393,838	393,838	
City of Janesville - Rock Co. LF	Rock	WI			156,873		20,476	20,476	
Mallard Ridge	Walworth	WI			265,584		76,151	76,151	
Emerald Park	Waukesha	WI			650,172		1,043	1,043	
Orchard Ridge RDF	Waukesha	WI			932,685		873	873	
Subtotal					4,396,505		1,126,832	1,126,832	
Less, Special Waste								14,720	
Total MSW								1,112,112	
Total Waste - All States								12,067,887	
Total MSW - All States								11,458,081	
Population (see Table E.3-5)								8,256,027	
Waste Disposal (pcd) - Total Waste								8.0	
Waste Disposal (pcd) - MSW Only								7.6	

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	1999					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	262,000	104,800	0	0	104,800
CID RDF #3	Cook	IL	985	465,831	229,422	4,597	2,264	227,158
CID RDF #4	Cook	IL	1,842	41,916	38,605	11,467	10,561	28,044
Community Landfill	Grundy	IL	600	303,067	90,920	0	0	90,920
Countryside RDF	Lake	IL	600	1,434,843	430,453	0	0	430,453
Dixon/GROP #2	Lee	IL	0	0	0	0	0	0
Envirotech	Grundy	IL	600	1,487,889	446,367	0	0	446,367
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	0	0	0	0	0	0
Hillside	Cook	IL	600	813,843	244,153	0	0	244,153
Laraway RDF	Will	IL	1,980	188,785	186,897	4,904	4,855	182,042
Lee County Landfill	Lee	IL	600	2,227,247	668,174	0	0	668,174
Livingston Landfill	Livingston	IL	656	6,792,024	2,227,784	530	174	2,227,610
Mallard Lake Landfill	DuPage	IL	580	469,317	136,102	0	0	136,102
Orchard Hills Landfill	Ogle	IL	460	4,369,843	1,005,064	0	0	1,005,064
River Bend Prairie	Cook	IL	600	954,946	286,484	15,583	4,675	281,809
Settler's Hill RDF	Kane	IL	481	4,081,394	981,575	0	0	981,575
Streator Area Landfill	Livingston	IL	600	553,694	166,108	0	0	166,108
Wheatland Prairie RDF	Will	IL	490	2,027,665	496,778	0	0	496,778
Woodland RDF	Kane	IL	669	1,171,698	391,933	4,650	1,555	390,378
Zion Landfill	Lake	IL	578	1,788,741	516,946	72,677	21,004	495,942
Subtotal			588	29,434,743	8,648,565	114,408	45,088	8,603,477
Less, Special Waste								774,313
Plus, Robbins WTE	Cook	IL	540	1,398,929	377,852	0	0	377,852
Total MSW								8,207,016

Landfill	County	State	1999					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			807,409		310,470	310,470
Munster Landfill	Lake	IN			126,396		44,230	44,230
Feddeler C/D Landfill	Lake	IN			47,002		21,754	21,754
Gary Sanitary Landfill	Lake	IN			0		0	0
Lake County C/D Site	Lake	IN			0		0	0
Deercroft RDF	LaPorte	IN			544,913		155,661	155,661
Newton County Landfill	Newton	IN			1,416,299		1,174,481	1,174,481
Liberty Landfill	White	IN			100,578		34,288	34,288
Subtotal					3,042,597		1,740,884	1,740,884
Less, Special Waste								124,076
Total MSW								1,616,808

Landfill	County	State	1999					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		2,329,695	705,968	552,889	167,542	167,542
SE Berrien County	Berrien	MI		604,862	183,292	5,133	1,555	1,555
Subtotal				2,934,557	889,260	558,022	169,097	169,097

Landfill	County	State	1999					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			169,669		0	0
Glacier Ridge	Dodge	WI			369,727		5,032	5,032
Superior Valley Meadows	Jefferson	WI			30,747		398	398
Pheasant Run RDF	Kenosha	WI			910,633		740,142	740,142
Metro RDF	Milwaukee	WI			758,539		0	0
Kestrel Hawk	Racine	WI			458,901		310,053	310,053
City of Janesville - Rock Co. LF	Rock	WI			187,590		19,495	19,495
Mallard Ridge	Walworth	WI			198,839		23,886	23,886
Emerald Park	Waukesha	WI			746,152		550	550
Orchard Ridge RDF	Waukesha	WI			702,790		264	264
Subtotal					4,533,587		1,099,820	1,099,820
Less, Special Waste								0
Total MSW								1,099,820
Total Waste - All States								11,613,278
Total MSW - All States								11,092,741
Population (see Table E.3-5)								8,171,741
Waste Disposal (pcd) - Total Waste								7.8
Waste Disposal (pcd) - MSW Only								7.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	1998		Imports (tons)	Illinois (tons)
					Throughput (tons)	Imports (c.y.)		
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	507,000	202,800	0	0	202,800
CID RDF #3	Cook	IL	985	194,718	95,899	7,283	3,587	92,312
CID RDF #4	Cook	IL	1,842	49,946	46,000	0	0	46,000
Community Landfill	Grund	IL	600	248,125	74,438	0	0	74,438
Countryside RDF	Lake	IL	500	1,382,555	345,639	0	0	345,639
Dixon/GROP #2	Lee	IL	600	819,224	245,767	0	0	245,767
Envirotech	Grund	IL	600	433,093	129,928	0	0	129,928
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	606	2,098,965	635,986	60,628	18,370	617,616
Hillside	Cook	IL	600	842,646	252,794	0	0	252,794
Laraway RDF	Will	IL	1,980	221,879	219,660	27,125	26,854	192,806
Lee County Landfill	Lee	IL	600	123,342	37,003	0	0	37,003
Livingston Landfill	Livingston	IL	656	5,319,565	1,744,817	7,946	2,606	1,742,211
Mallard Lake Landfill	DuPage	IL	580	3,152,203	914,139	0	0	914,139
Orchard Hills Landfill	Ogle	IL	507	1,412,146	357,979	0	0	357,979
River Bend Prairie	Cook	IL	600	297,172	89,152	12,674	3,802	85,350
Settler's Hill RDF	Kane	IL	533	3,050,916	813,069	36	10	813,059
Streator Area Landfill	Livingston	IL	600	693,813	208,144	24,640	7,392	200,752
Wheatland Prairie RDF	Will	IL	560	1,008,693	282,434	0	0	282,434
Woodland RDF	Kane	IL	679	1,267,663	430,372	5,481	1,861	428,511
Zion Landfill	Lake	IL	682	964,685	328,958	40,142	13,688	315,270
Subtotal			=====	=====	=====	=====	=====	=====
			619	24,088,349	7,454,978	185,955	78,170	7,376,808
Less, Special Waste								663,913
Plus, Robbins WTE	Cook	IL	606	1,524,468	461,960	0	0	461,960
Total MSW								7,174,855

Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	1998		IL-Imports (tons)	Illinois (tons)
					Throughput (tons)	IL-Imports (c.y.)		
County Line Landfill	Fulton	IN			605,666	327,314	327,314	
Munster Landfill	Lake	IN			163,575	63,451	63,451	
Feddeler C/D Landfill	Lake	IN			45,661	26,556	26,556	
Gary Sanitary Landfill	Lake	IN			0	0	0	
Lake County C/D Site	Lake	IN			0	0	0	
Deercroft RDF	LaPorte	IN			1,053,526	561,039	561,039	
Newton County Landfill	Newton	IN			1,454,465	1,114,593	1,114,593	
Liberty Landfill	White	IN			659,988	461,119	461,119	
Subtotal					=====	=====	=====	=====
					3,982,881	2,554,072	2,554,072	
Less, Special Waste								164,995
Total MSW								2,389,077

Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	1998		IL-Imports (tons)	Illinois (tons)
					Throughput (tons)	IL-Imports (c.y.)		
Forest Lawn Landfill	Berrien	MI			1,294,962	157,218	47,642	47,642
SE Berrien County	Berrien	MI			631,321	191,309	359	359
Subtotal					=====	=====	=====	=====
					1,926,283	583,722	158,403	48,001

Landfill	County	State	Density (lbs/c.y.)	Throughput (c.y.)	1998		IL-Imports (tons)	Illinois (tons)
					Throughput (tons)	IL-Imports (c.y.)		
Madison Prairie	Dane	WI			210,357	1,442	1,442	
Glacier Ridge	Dodge	WI			416,878	3,782	3,782	
Superior Valley Meadows	Jefferson	WI			136,373	1,862	1,862	
Pheasant Run RDF	Kenosha	WI			845,808	705,800	705,800	
Metro RDF	Milwaukee	WI			863,160	1	1	
Kestrel Hawk	Racine	WI			359,385	112,561	112,561	
City of Janesville - Rock Co. LF	Rock	WI			164,679	20,359	20,359	
Mallard Ridge	Walworth	WI			336,596	110,600	110,600	
Emerald Park	Waukesha	WI			914,942	162,422	162,422	
Orchard Ridge RDF	Waukesha	WI			507,783	242	242	
Subtotal					=====	=====	=====	=====
					4,755,961	1,119,071	1,119,071	
Less, Special Waste								1,442
Total MSW								1,117,629
Total Waste - All States								11,097,952
Total MSW - All States								10,729,562
Population (see Table E.3-5)								8,087,453
Waste Disposal (pcd) - Total Waste								7.5
Waste Disposal (pcd) - MSW Only								7.3

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	1997					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	0	0	0	0	0	0
CDT Landfill	Will	IL	800	625,000	250,000	0	0	250,000
CID RDF #3	Cook	IL	985	449,492	221,375	10,542	5,192	216,183
CID RDF #4	Cook	IL	1,842	405	373	0	0	373
Community Landfill	Grund	IL	600	150,753	45,226	0	0	45,226
Countryside RDF	Lake	IL	500	1,189,121	297,280	0	0	297,280
Dixon/GROP #2	Lee	IL	600	993,033	297,910	0	0	297,910
Envirotech	Grund	IL	663	485,470	160,933	0	0	160,933
Greene Valley	DuPage	IL	0	0	0	0	0	0
Harbor View	Cook	IL	600	707,047	212,114	50,540	15,162	196,952
Hillside	Cook	IL	600	341,138	102,341	0	0	102,341
Laraway RDF	Will	IL	2,000	137,700	137,700	28,264	28,264	109,436
Lee County Landfill	Lee	IL	0	0	0	0	0	0
Livingston Landfill	Livingston	IL	656	5,447,732	1,786,856	13,520	4,435	1,782,421
Mallard Lake Landfill	DuPage	IL	643	3,174,600	1,020,634	0	0	1,020,634
Orchard Hills Landfill	Ogle	IL	0	0	0	0	0	0
River Bend Prairie	Cook	IL	600	292,224	87,667	5,100	1,530	86,137
Settler's Hill RDF	Kane	IL	567	3,387,618	960,390	0	0	960,390
Streator Area Landfill	Livingston	IL	600	572,457	171,737	664	199	171,538
Wheatland Prairie RDF	Will	IL	598	755,232	225,814	0	0	225,814
Woodland RDF	Kane	IL	683	1,240,288	423,558	46,795	15,980	407,578
Zion Landfill	Lake	IL	700	23,163	8,107	0	0	8,107
Subtotal			642	19,972,473	6,410,015	155,425	70,762	6,339,253
Less, Special Waste								570,533
Plus, Robbins WTE	Cook	IL	606	1,333,555	404,067	0	0	404,067
Total MSW								6,172,787

Landfill	County	State	1997					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			551,200		317,124	317,124
Munster Landfill	Lake	IN			0		0	0
Feddeler C/D Landfill	Lake	IN			64,915		37,506	37,506
Gary Sanitary Landfill	Lake	IN			8,425		0	0
Lake County C/D Site	Lake	IN			0		0	0
Deercroft RDF	LaPorte	IN			1,006,120		589,533	589,533
Newton County Landfill	Newton	IN			1,108,051		849,324	849,324
Liberty Landfill	White	IN			774,450		585,740	585,740
Subtotal					3,513,161		2,379,227	2,379,227
Less, Special Waste								177,673
Total MSW								2,201,554

Landfill	County	State	1997					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		1,384,960	419,685	298,828	90,554	90,554
SE Berrien County	Berrien	MI		653,744	198,104	384	116	116
Subtotal				2,038,704	617,789	299,212	90,670	90,670

Landfill	County	State	1997					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			113,006		3,932	3,932
Glacier Ridge	Dodge	WI			315,832		0	0
Superior Valley Meadows	Jefferson	WI			135,690		2,744	2,744
Pheasant Run RDF	Kenosha	WI			837,621		722,188	722,188
Metro RDF	Milwaukee	WI			463,463		0	0
Kestrel Hawk	Racine	WI			149,900		36,509	36,509
City of Janesville - Rock Co. LF	Rock	WI			133,435		19,461	19,461
Mallard Ridge	Watworth	WI			314,224		100,580	100,580
Emerald Park	Waukesha	WI			693,385		2,559	2,559
Orchard Ridge RDF	Waukesha	WI			421,651		135	135
Subtotal					3,578,207		888,108	888,108
Less, Special Waste								3,932
Total MSW								884,176
Total Waste - All States								9,697,258
Total MSW - All States								9,349,187
Population (see Table E.3-5)								8,003,170
Waste Disposal (pcd) - Total Waste								6.6
Waste Disposal (pcd) - MSW Only								6.4

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-3 - CALCULATION OF DISPOSAL RATES (CHICAGO METROPOLITAN AREA)

Landfill	County	State	1996					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	Imports (c.y.)	Imports (tons)	
Beecher Development	Will	IL	400	539,395	107,879	7,819	1,564	106,315
CDT Landfill	Will	IL	800	764,000	305,600	0	0	305,600
CID RDF #3	Cook	IL	770	549,000	211,365	6,397	2,463	208,902
CID RDF #4	Cook	IL	2,525	0	0	0	0	0
Community Landfill	Grund	IL	600	297,988	89,396	0	0	89,396
Countryside RDF	Lake	IL	500	1,328,669	332,167	0	0	332,167
Dixon/GROP #2	Lee	IL	600	897,793	269,338	0	0	269,338
Envirotech	Grund	IL	749	506,463	189,670	0	0	189,670
Greene Valley	DuPage	IL	606	6,586,306	1,995,651	0	0	1,995,651
Harbor View	Cook	IL	600	724,274	217,282	55,906	16,772	200,510
Hillside	Cook	IL	600	1,682,700	504,810	0	0	504,810
Laraway RDF	Will	IL	2,000	133,861	133,861	67,317	67,317	66,544
Lee County Landfill	Lee	IL	0	0	0	0	0	0
Livingston Landfill	Livingston	IL	715	2,855,962	1,021,006	3,830	1,369	1,019,637
Mallard Lake Landfill	DuPage	IL	641	4,520,040	1,448,673	0	0	1,448,673
Orchard Hills Landfill	Ogle	IL	0	0	0	0	0	0
River Bend Prairie	Cook	IL	600	279,114	83,734	258	77	83,657
Seller's Hill RDF	Kane	IL	572	2,473,276	707,357	16	5	707,352
Streator Area Landfill	Livingston	IL	600	479,017	143,705	757	227	143,478
Wheatland Prairie RDF	Will	IL	900	326,898	147,104	0	0	147,104
Woodland RDF	Kane	IL	892	1,447,866	645,748	6,406	2,857	642,891
Zion Landfill	Lake	IL	700	231,379	80,983	28,159	9,856	71,127
Subtotal			649	26,624,001	8,635,329	176,865	102,507	8,532,822
Less, Special Waste								767,954
Plus, Robbins WTE	Cook	IL	0	0	0	0	0	0
Total MSW								7,764,868

Landfill	County	State	1996					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
County Line Landfill	Fulton	IN			587,779		383,391	383,391
Munster Landfill	Lake	IN			36,281		0	0
Feddeler C/D Landfill	Lake	IN			100,918		70,519	70,519
Gary Sanitary Landfill	Lake	IN			212,673		144,271	144,271
Lake County C/D Site	Lake	IN			0		0	0
Deercroft RDF	LaPorte	IN			680,833		278,594	278,594
Newton County Landfill	Newton	IN			543,918		370,701	370,701
Liberty Landfill	White	IN			605,409		388,592	388,592
Subtotal					2,767,811		1,636,068	1,636,068
Less, Special Waste								81,902
Total MSW								1,554,166

Landfill	County	State	1996					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Forest Lawn Landfill	Berrien	MI		1,604,199	486,121		168,775	168,775
SE Berrien County	Berrien	MI		468,448	148,015		6,529	6,529
Subtotal				2,092,647	634,136		175,304	175,304

Landfill	County	State	1996					Illinois (tons)
			Density (lbs/c.y.)	Throughput (c.y.)	Throughput (tons)	IL-Imports (c.y.)	IL-Imports (tons)	
Madison Prairie	Dane	WI			0		0	0
Glacier Ridge	Dodge	WI			314,405		0	0
Superior Valley Meadows	Jefferson	WI			151,104		2,614	2,614
Pheasant Run RDF	Kenosha	WI			451,324		346,315	346,315
Metro RDF	Milwaukee	WI			446,033		0	0
Kestrel Hawk	Racine	WI			167,299		1,000	1,000
City of Janesville - Rock Co. LF	Rock	WI			130,677		16,758	16,758
Mallard Ridge	Walworth	WI			294,280		98,390	98,390
Emerald Park	Waukesha	WI			571,524		0	0
Orchard Ridge RDF	Waukesha	WI			442,724		252	252
Subtotal					2,969,370		465,329	465,329
Less, Special Waste								0
Total MSW								465,329
Total Waste - All States								10,809,523
Total MSW - All States								9,959,667
Population (see Table E.3-5)								7,918,882
Waste Disposal (pcd) - Total Waste								7.5
Waste Disposal (pcd) - MSW Only								6.9

Notes:

1. MSW = Municipal Solid Waste; PCD = pounds per capita per day.
2. Density of waste assumed for Michigan landfills: 3.3 cubic yards = 1 ton.
3. Disposal rate based on 365 days per year.

VEOLIA ES ZON LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-4 - SPECIAL WASTE LANDFILLED IN ILLINOIS LANDFILLS UTILIZED BY THE CHICAGO METROPOLITAN AREA

Facility	2007 (cubic yards)	2008 (cubic yards)	2009 (cubic yards)	2010 (cubic yards)	2011 (cubic yards)	2012 (cubic yards)	2013 (cubic yards)	2014 (cubic yards)	2015 (cubic yards)	2016 (cubic yards)	2017 (cubic yards)	2018 (cubic yards)	2019 (cubic yards)	2020 (cubic yards)
CID #3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CID #4	28,793	7,550	127,857	379,848	311,408	585,601	166,573	178,807	166,573	166,573	166,573	166,573	166,573	166,573
Community Landfill	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Countrywide RDF	28,448	22,290	14,222	30,546	67,705	21,524	70,036	26,400	70,036	70,036	70,036	70,036	70,036	70,036
EnvironTech	105,156	336,138	336,138	213,744	254,027	155,822	134,220	134,220	134,220	134,220	134,220	134,220	134,220	134,220
Laraway RDF	48,434	268,004	248	1,564	8,751	5,158	13,200	13,200	13,200	13,200	13,200	13,200	13,200	13,200
Lee County Landfill	18,551	9,394	27,733	9,170	9,881	17,000	20,564	20,564	20,564	20,564	20,564	20,564	20,564	20,564
Livingston Landfill	7,832	14,572	27,913	23,548	83,020	49,608	43,151	43,151	43,151	43,151	43,151	43,151	43,151	43,151
Orchard Hills Landfill	15,983	108,665	26,091	36,382	567	12,424	8,985	8,985	8,985	8,985	8,985	8,985	8,985	8,985
Prairie View RDF	138,801	335,105	7,258	9,275	0	0	0	0	0	0	0	0	0	0
River Bend Prairie	210,389	144,739	242,907	136,970	72,099	108,642	134,328	58,610	134,328	134,328	134,328	134,328	134,328	134,328
Rochelle Municipal Landfill	12,663	10,074	332,505	115,980	157,864	150,964	47,524	48,366	47,524	47,524	47,524	47,524	47,524	47,524
Settler's Hill RDF	0	99,395	12,409	18,511	37,498	5,866	11,368	88,853	11,368	11,368	11,368	11,368	11,368	11,368
Streator Area Landfill	7,737	8,512	0	0	0	5,796	69,895	35,158	69,895	69,895	69,895	69,895	69,895	69,895
Woodland RDF	72,225	84,025	171,301	111,973	77,564	77,552	174,941	28,160	174,941	174,941	174,941	174,941	174,941	174,941
Zion Landfill	699,982	1,115,315	1,326,579	1,087,481	1,600,384	1,175,966	904,131	956,379	904,131	904,131	904,131	904,131	904,131	904,131
Total Special Waste	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard	cubic yards	lbs/cubic yard
Density	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
Total Special Waste	559,170	892,252	1,061,263	869,983	864,307	940,773	723,305	765,103	723,305	723,305	723,305	723,305	723,305	723,305
Total Waste Landfilled	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards	cubic yards
% Special Waste by Volume	2.2%	3.5%	4.9%	3.8%	3.4%	3.8%	3.0%	3.4%	3.0%	3.0%	3.4%	3.4%	3.4%	3.5%
Total Waste Landfilled, Tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons	tons
% Special Waste by Weight	6.0%	9.1%	12.4%	9.7%	9.1%	9.7%	7.8%	8.6%	7.8%	7.8%	8.6%	8.6%	8.6%	9.0%

Notes:
1. Average density of special waste:

CID #3	885
CID #4	1,842
Laraway RDF	1,360
Average	1,600

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-5 - POPULATION DATA FOR CHICAGO METROPOLITAN AREA AND RURAL LANDFILL HOST COUNTIES

County	1980	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Change 1990-2000	% Change 1990-2000
Cook	5,105,067	5,132,234	5,159,402	5,186,569	5,213,737	5,240,904	5,268,071	5,295,239	5,322,406	5,349,574	5,376,741	5,403,908	5,431,076	5,458,243	5,485,411	5,512,578	5,539,745	5,566,913	5,594,080	271,674	5.3%
DuPage	781,666	793,916	806,165	818,415	830,664	842,914	855,163	867,413	879,662	891,912	904,161	916,411	928,660	940,910	953,159	965,409	977,658	989,908	1,002,157	122,495	15.7%
Kane	317,471	326,136	334,801	343,465	352,130	360,795	369,460	378,125	386,789	395,454	404,119	412,784	421,449	430,113	438,778	447,443	456,108	464,773	473,437	86,648	27.3%
Lake	516,418	529,212	542,006	554,799	567,593	580,387	593,181	605,975	618,768	631,562	644,356	657,150	669,944	682,737	695,531	708,325	721,119	733,913	746,706	127,938	24.8%
McHenry	183,241	190,925	198,608	206,292	213,975	221,659	229,343	237,026	244,710	252,393	260,077	267,761	275,444	283,128	290,811	298,495	306,179	313,862	321,546	76,836	41.9%
Will	357,313	371,808	386,304	400,799	415,294	429,790	444,285	458,780	473,275	487,771	502,266	516,761	531,257	545,752	560,247	574,743	589,238	603,733	618,228	144,953	40.6%
Subtotal	7,261,176	7,344,231	7,427,285	7,510,339	7,593,393	7,676,449	7,759,503	7,842,558	7,925,610	8,008,665	8,091,720	8,174,775	8,257,830	8,340,883	8,423,937	8,506,993	8,590,047	8,673,102	8,756,154	830,544	11.4%
Grundy	32,337	32,857	33,377	33,896	34,416	34,936	35,456	35,976	36,495	37,015	37,535	38,055	38,575	39,094	39,614	40,134	40,654	41,174	41,693	5,198	16.1%
Lee	34,392	34,559	34,726	34,893	35,060	35,227	35,394	35,561	35,728	35,895	36,062	36,229	36,396	36,563	36,730	36,897	37,064	37,231	37,398	1,670	4.9%
Livingston	39,301	39,339	39,376	39,414	39,452	39,490	39,527	39,565	39,603	39,640	39,678	39,716	39,753	39,791	39,829	39,867	39,904	39,942	39,980	377	1.0%
Ogle	45,957	46,465	46,972	47,480	47,987	48,495	49,002	49,510	50,017	50,525	51,032	51,540	52,047	52,555	53,062	53,570	54,077	54,585	55,092	5,075	11.0%
Subtotal	151,987	153,220	154,451	155,683	156,915	158,148	159,379	160,612	161,843	163,075	164,307	165,540	166,771	168,003	169,235	170,468	171,699	172,932	174,163	12,320	8.1%
Whiteside	60,186	60,233	60,279	60,326	60,373	60,420	60,466	60,513	60,560	60,606	60,653	60,700	60,746	60,793	60,840	60,887	60,933	60,980	61,027	467	0.8%
Winnebago	252,913	255,464	258,014	260,565	263,115	265,666	268,216	270,767	273,317	275,868	278,418	280,969	283,519	286,070	288,620	291,171	293,721	296,272	298,822	25,505	10.1%
Total	7,413,163	7,497,451	7,581,737	7,666,022	7,750,308	7,834,597	7,918,882	8,003,170	8,087,453	8,171,741	8,256,027	8,340,315	8,424,601	8,508,886	8,593,172	8,677,461	8,761,749	8,846,036	8,930,322	868,836	11.4%

Source:

1. Years 1990 and 2000 = U.S. Census Bureau.

2. All other years interpolated/extrapolated between 1990 and 2000 and beyond 2000.

Notes:

1. Winnebago County and Whiteside County population included in Total population beginning in 2006.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES**Results**

Based on the analysis performed in Steps 1-4, the estimated total waste disposal rate for the Chicago metropolitan area has ranged from 6.6 pounds per capita per day in 1997 to 8.3 pounds per capita per day in 2004.

1996	=	7.5 pounds per capita per day
1997	=	6.6 pounds per capita per day
1998	=	7.5 pounds per capita per day
1999	=	7.8 pounds per capita per day
2000	=	8.0 pounds per capita per day
2001	=	8.3 pounds per capita per day
2002	=	8.0 pounds per capita per day
2003	=	7.5 pounds per capita per day
2004	=	8.3 pounds per capita per day
2005	=	8.1 pounds per capita per day
2006	=	7.8 pounds per capita per day
2007	=	7.6 pounds per capita per day
2008	=	6.8 pounds per capita per day

The estimated municipal solid waste disposal rate for the Chicago metropolitan area has ranged from 6.4 pounds per capita per day in 1997 to 7.7 pounds per capita per day in 2004.

1996	=	6.9 pounds per capita per day
1997	=	6.4 pounds per capita per day
1998	=	7.3 pounds per capita per day
1999	=	7.4 pounds per capita per day
2000	=	7.6 pounds per capita per day
2001	=	7.7 pounds per capita per day
2002	=	7.4 pounds per capita per day
2003	=	6.9 pounds per capita per day
2004	=	7.7 pounds per capita per day
2005	=	7.6 pounds per capita per day
2006	=	7.3 pounds per capita per day
2007	=	7.2 pounds per capita per day
2008	=	6.3 pounds per capita per day

Over the period 1996-2006, disposal rates have generally increased. Periodic cyclical downturns have also occurred during this time. For example, disposal rates decreased slightly during 2002 and 2003 due in part to the economic downturn experienced in 2001 and 2002. During such periods, disposal is likely to decrease for several reasons, including: 1) manufacturing decreases because manufacturers rely more heavily on inventoried stock; 2) consumers extend the life of durable goods and delay home improvement projects; 3) reliance on disposable goods decreases. During 2003 the economy began a period of recovery, which was reflected in the increase in the disposal rate within the metropolitan area. Disposal rates declined again in 2007-2008 as the result of the current recession, which is more severe than in 2001-2002.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES**Comparison Analysis**

In order to test the conclusions reached in the above analysis for the Chicago metropolitan area, a similar analysis was performed for the State of Illinois as a whole, as well as for the States of Indiana, Michigan and Wisconsin. The following steps were utilized to perform the second analysis.

Step 1. Quantify the amount of waste disposed in all landfills in Illinois (as well as the landfills in the other states).

Step 2. Adjust the quantity in Step 1 for the import and export of waste between the states.

Step 3. Adjust the quantity in Step 2 for special waste. As was noted before, Indiana, Michigan and Wisconsin track special waste separately from municipal solid waste. To quantify the amount of special waste disposed in Illinois landfills, the previously-cited IEPA database of special waste manifests was searched for the years 2000 - 2007. On average, special waste has accounted for about 5 percent by volume and 12 percent by weight of the waste landfilled in Illinois⁵.

Step 4. Divide the estimated amount of waste disposed by each state (derived in Steps 1-3) by the population of each state to calculate the per capita disposal rate.

The data and calculations for each step are summarized in Tables E.3-6, E.3-7 and E.3-8. Total waste disposal rates in Illinois ranged from 6.7 pounds per capita per day in 1997 to 7.9 pounds per capita per day in 2001. The same upward trend is apparent for Illinois as a whole as was indicated for the Chicago metropolitan area. Disposal rates are somewhat higher in the Chicago metropolitan area, likely as the result of greater development and economic activity.

Total waste disposal rates for Indiana ranged from 8.6 pounds per capita per day to 12.7 pounds per capita per day. Total waste disposal rates for Michigan ranged from 6.9 pounds per capita per day to 8.6 pounds per capita per day. Total waste disposal rates for Wisconsin ranged from 7.9 pounds per capita per day to 9.5 pounds per capita per day. These data are largely consistent with the results observed for Illinois.

5

As was previously noted, IEPA does not currently publish a report on special waste quantities. In the early 1990s, however, IEPA did publish an annual report on special waste. The last such report was *Illinois - 1994 Nonhazardous Special Waste Annual Report*, published in June 1996. That report indicated that during the period 1979 to 1994, the amount of special waste landfilled in Illinois (including material disposed at on-site landfills) ranged from 1,551,000 cubic yards (1982) to 3,575,000 cubic yards (1993), consistent with the latest available data (refer to Table E.3-7).

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2008

Illinois Data		MSW Only		All Waste		Notes:
		2008	2008	2008	2008	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Illinois						
Landfilled	46,667,960	13,099,779		49,124,168	14,886,112	IEPA Capacity Certification Forms, 1/1/2009. Reflects est. special waste of 5 % by volume and 12 % by weight.
Incinerated	0	0		0	0	
Plus, Exports						
Indiana		2,345,538			2,464,489	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Data (2007 data; 2008 data not available as of June 2009) WDNR Annual Spreadsheet. Includes LFs.
Michigan	390,396	118,302		859,072	260,325	
Ohio		0			32	
Wisconsin		1,097,115			1,097,131	
Minus, Imports	5,935,250	1,666,035		6,247,632	1,893,222	IEPA 2008 Quarterly State of Origin Reports. Reflects est. special waste of 5 % by volume and 12 % by weight.
Total Disposed		=====		=====		
		14,994,699			16,814,867	
Population		13,210,246			13,210,246	
Disposal Rate (pcd)		6.2			7.0	
Indiana Data		MSW Only		All Waste		Notes:
		2008	2008	2008	2008	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Indiana						
Landfilled		8,716,931			14,602,432	IDEM Quarterly Waste Origin Database. LFs only. TSs excluded to avoid double counting. IDEM Quarterly Waste Origin Database. Incinerators only.
Incinerated		587,811			656,560	
Plus, Exports						
Illinois	133,327	40,402		133,327	40,402	IEPA Quarterly Waste Origin Reports. MDEQ Annual Report, Table 4. OEPA Data (2007 data; 2008 data not available as of June 2009) WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,082,113	327,913		1,405,435	425,889	
Ohio		109,863			228,659	
Wisconsin		16			16	
Minus, Imports		2,687,544			2,889,976	IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators.
Total Disposed		=====		=====		
		7,095,392			13,063,982	
Population		6,509,546			6,509,546	
Disposal Rate (pcd)		6.0			11.0	
Michigan Data		MSW Only		All Waste		Notes:
		2008	2008	2008	2008	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Michigan						
Landfilled	41,803,789	12,667,815		57,119,896	17,309,059	MDEQ Annual Report, Table 3. Includes LFs. MDEQ Data (2007 data; 2008 data not available as of June 2009)
Incinerated		965,601			989,158	
Plus, Exports						
Illinois	7,259	2,200		7,259	2,200	IEPA Quarterly Waste Origin Reports. IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. OEPA Data (2007 data; 2008 data not available as of June 2009) WDNR Annual Spreadsheet. Includes LFs.
Indiana		72,213			76,238	
Ohio		21,661			24,398	
Wisconsin		28,336			28,336	
Minus, Imports	13,721,014	4,157,883		17,206,260	5,214,018	MDEQ Annual Report, Table 3.
Total Disposed		=====		=====		
		9,599,943			13,215,371	
Population		10,452,962			10,452,962	
Disposal Rate (pcd)		5.0			6.9	
Wisconsin Data		MSW Only		All Waste		Notes:
		2008	2008	2008	2008	
		(cu yds)	(tons)	(cu yds)	(tons)	
Landfilled in Wisconsin		6,217,142			10,180,794	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	127,605	38,668		127,605	38,668	IEPA Quarterly Waste Origin Reports. IDEM Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Data (2007 data; 2008 data not available as of June 2009)
Indiana		404			3,894	
Michigan	304,772	92,355		353,036	106,981	
Ohio		0			0	
Minus, Imports		1,720,711			1,721,897	WDNR Annual Spreadsheet. Includes LFs.
Total Disposed		=====		=====		
		4,626,672			8,608,440	
Population		5,741,200			5,741,200	
Disposal Rate (pcd)		4.4			8.2	

Notes:

1. Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2007

Illinois Data		MSW Only 2007 (cu yds)	2007 (tons)	All Waste 2007 (cu yds)	2007 (tons)	Notes:
Disposed in Illinois						IEPA Capacity Certification Forms, 1/1/2008. Reflects 1,598,360 c.y. (1,278,688 tons) of special waste.
Landfilled	52,184,681	15,019,203		53,783,041	16,297,891	
Incinerated	0	0		0	0	
Plus, Exports						IDEM Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Data WDNR Annual Spreadsheet. Includes LFs.
Indiana		2,093,319			2,250,835	
Michigan	567,539	171,982		817,665	247,777	
Ohio		0			32	
Wisconsin		1,261,654			1,261,654	
Minus, Imports	6,673,954	1,873,391		7,025,215	2,128,853	IEPA 2007 Quarterly State of Origin Reports. Reflects est. special waste of 5 % by volume and 12 % by weight.
Total Disposed		16,672,767			17,929,336	
Population		13,111,377			13,111,377	
Disposal Rate (pcd)		7.0			7.5	
Indiana Data		MSW Only 2007 (cu yds)	2007 (tons)	All Waste 2007 (cu yds)	2007 (tons)	
Disposed in Indiana						IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Landfilled		8,742,944		14,519,425		
Incinerated		556,132		612,097		
Plus, Exports						IEPA Quarterly Waste Origin Reports. MDEQ Annual Report, Table 4. OEPA Data WDNR Annual Spreadsheet. Includes LFs.
Illinois	254,155	77,017		254,155	77,017	
Michigan	1,436,334	435,253		1,810,564	548,656	
Ohio		109,863			228,659	
Wisconsin		1			1	
Minus, Imports		2,449,229			2,720,427	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,471,980			13,265,428	
Population		6,455,913			6,455,913	
Disposal Rate (pcd)		6.3			11.3	
Michigan Data		MSW Only 2007 (cu yds)	2007 (tons)	All Waste 2007 (cu yds)	2007 (tons)	
Disposed in Michigan						MDEQ Annual Report, Table 3. Includes LFs. MDEQ Data.
Landfilled	43,767,246	13,262,802		58,204,510	17,637,730	
Incinerated		965,601			989,158	
Plus, Exports						IEPA Quarterly Waste Origin Reports. IDEM Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. OEPA Data WDNR Annual Spreadsheet. Includes LFs.
Illinois	1,328	402		1,328	402	
Indiana		84,489			88,717	
Ohio		21,661			24,398	
Wisconsin		3,546			3,546	
Minus, Imports	14,252,199	4,318,848		17,154,838	5,198,436	MDEQ Annual Report, Table 3.
Total Disposed		10,019,653			13,545,515	
Population		10,388,647			10,388,647	
Disposal Rate (pcd)		5.3			7.1	
Wisconsin Data		MSW Only 2007 (cu yds)	2007 (tons)	All Waste 2007 (cu yds)	2007 (tons)	
Landfilled in Wisconsin		6,516,037		10,896,255		WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						IEPA Quarterly Waste Origin Reports. IDEM Annual Report, Table 17 and Quarterly Waste Origin Database. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Data
Illinois	127,680	38,691		127,680	38,691	
Indiana		650			4,298	
Michigan	393,042	119,104		435,091	131,846	
Ohio		0			0	
Minus, Imports		1,912,174			1,915,103	WDNR Annual Spreadsheet. Includes LFs.
Total Disposed		4,759,379			9,155,987	
Population		5,694,009			5,694,009	
Disposal Rate (pcd)		4.6			8.8	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2006

Illinois Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	Notes:
Disposed in Illinois						
Landfilled		52,785,837	14,927,310	54,935,862	16,647,170	IEPA Capacity Certification Forms, 1/1/2007. Reflects 2,149,825 c.y. (1,719,860 tons) of special waste.
Incinerated		0	0	0	0	
Plus, Exports						
Indiana			2,228,978		2,361,847	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,588,424		481,341	1,588,424	481,341	
Ohio			0		12	
Wisconsin			1,224,077		1,224,077	
Minus, Imports		6,782,934	1,903,982	7,139,931	2,163,615	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			=====		=====	
			16,957,724		18,550,831	
Population			13,012,508		13,012,508	
Disposal Rate (pcd)			7.1		7.8	
Indiana Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Disposed in Indiana						
Landfilled			9,138,449		14,542,880	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			600,183		644,655	
Plus, Exports						
Illinois		662,044	200,619	662,044	200,619	IEPA Quarterly Waste Origin Database. MDEQ Annual Report, Table 4. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	2,196,646		665,650	2,196,909	665,730	
Ohio			125,075		251,006	
Wisconsin			0		0	
Minus, Imports			2,521,688		2,770,714	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			=====		=====	
			8,208,288		13,534,177	
Population			6,402,281		6,402,281	
Disposal Rate (pcd)			7.0		11.6	
Michigan Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Disposed in Michigan						
Landfilled		44,923,089	13,613,057	61,887,555	18,753,805	MDEQ Annual Report, Table 3. Includes LFs. MDEQ data.
Incinerated			1,159,814		1,208,017	
Plus, Exports						
Illinois		0	0	0	0	IEPA Quarterly Waste Origin Database. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			97,308		101,028	
Ohio			33,544		37,674	
Wisconsin			2,142		2,142	
Minus, Imports		16,433,441	4,979,831	19,035,532	5,768,343	MDEQ Annual Report, Table 4.
Total Disposed			=====		=====	
			9,928,034		14,334,323	
Population			10,324,332		10,324,332	
Disposal Rate (pcd)			5.3		7.6	
Wisconsin Data		MSW Only 2006 (cu yds)	2006 (tons)	All Waste 2006 (cu yds)	2006 (tons)	
Landfilled in Wisconsin			8,565,763		11,258,230	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	152,418		46,187	152,418	46,187	IEPA Quarterly Waste Origin Database. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana			512		2,768	
Michigan	357,244		108,256	426,875	129,356	
Ohio			0		49	
Minus, Imports			1,910,007		1,914,098	WDNR Annual Spreadsheet. Includes LFs.
Total Disposed			=====		=====	
			4,810,711		9,522,492	
Population			5,646,819		5,646,819	
Disposal Rate (pcd)			4.7		9.2	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2005

Illinois Data	MSW Only		All Waste		Notes:
	2005 (cu yds)	2005 (tons)	2005 (cu yds)	2005 (tons)	
Disposed in Illinois					
Landfilled	49,513,776	13,621,854	52,295,275	15,847,053	IEPA Capacity Certification Forms, 1/1/2006. Reflects 2,781,499 c.y. (2,225,199 tons) of special waste.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		2,632,160		2,733,598	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,249,614	378,671	1,249,614	378,671	
Ohio		0		11	
Wisconsin		1,412,151		1,412,153	
Minus, Imports	6,430,009	1,804,914	6,768,430	2,051,039	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		=====		=====	
		16,239,922		18,320,447	
Population		12,913,639		12,913,639	
Disposal Rate (pcd)		6.9		7.8	
Indiana Data	MSW Only		All Waste		Notes:
	2005 (cu yds)	2005 (tons)	2005 (cu yds)	2005 (tons)	
Disposed in Indiana					
Landfilled		9,315,942		15,087,433	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated		622,348		666,550	
Plus, Exports					
Illinois		61,854	204,119	61,854	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	2,193,810	664,791	2,193,915	664,823	
Ohio		106,696		174,577	
Wisconsin		0		0	
Minus, Imports		2,918,895		3,127,479	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		=====		=====	
		7,852,736		13,527,758	
Population		6,348,648		6,348,648	
Disposal Rate (pcd)		6.8		11.7	
Michigan Data	MSW Only		All Waste		Notes:
	2005 (cu yds)	2005 (tons)	2005 (cu yds)	2005 (tons)	
Disposed in Michigan					
Landfilled	49,882,921	15,116,037	63,792,120	19,330,945	MDEQ Annual Report, Table 3. Includes LFs. MDEQ data.
Incinerated		877,190		877,190	
Plus, Exports					
Illinois	0	0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana		78,587		84,368	
Ohio		49,105		56,465	
Wisconsin		1,676		1,676	
Minus, Imports	16,326,132	4,947,313	18,490,320	5,603,127	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		=====		=====	
		11,175,282		14,747,517	
Population		10,260,018		10,260,018	
Disposal Rate (pcd)		6.0		7.9	
Wisconsin Data	MSW Only		All Waste		Notes:
	2005 (cu yds)	2005 (tons)	2005 (cu yds)	2005 (tons)	
Landfilled in Wisconsin		6,685,042		11,099,240	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	155,284	47,056	155,284	47,056	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana		0		1,521	
Michigan	634,944	192,407	645,514	195,610	
Ohio		0		8	
Minus, Imports		2,143,094		2,143,133	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		=====		=====	
		4,781,411		9,200,302	
Population		5,599,628		5,599,628	
Disposal Rate (pcd)		4.7		9.0	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2004

Illinois Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	Notes:
Disposed in Illinois						
Landfilled		50,984,114	14,152,329	53,594,741	16,240,831	IEPA Capacity Certification Forms, 1/1/2005. Reflects 2,610,628 c.y. (2,088,502 tons) of special waste.
Incinerated		0	0	0	0	
Plus, Exports						
Indiana			2,074,438		2,179,642	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,768,849		536,015	1,769,209	536,124	
Ohio			0		447	
Wisconsin			1,407,917		1,407,945	
Minus, Imports		6,878,310	1,930,753	7,240,326	2,194,038	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			16,239,946		18,170,951	
Population			12,814,769		12,814,769	
Disposal Rate (pcd)			6.9		7.8	
Indiana Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Disposed in Indiana						
Landfilled			8,636,352		13,906,496	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			647,911		684,007	
Plus, Exports						
Illinois	203,180		61,570	203,180	61,570	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,963,208		594,912	1,965,948	595,742	
Ohio			89,542		152,113	
Wisconsin			0		0	
Minus, Imports			2,365,291		2,563,561	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			7,664,996		12,836,367	
Population			6,295,015		6,295,015	
Disposal Rate (pcd)			6.7		11.2	
Michigan Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Disposed in Michigan						
Landfilled	50,316,545		15,247,438	64,287,255	19,480,986	MDEQ Annual Report, Table 3. Includes LFs. MDEQ data.
Incinerated			842,637		852,823	
Plus, Exports						
Illinois	55		17	55	17	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			72,539		84,547	
Ohio			47,926		63,075	
Wisconsin			9,081		9,081	
Minus, Imports		15,692,073	4,755,174	18,136,302	5,495,849	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed			11,464,464		14,994,680	
Population			10,195,703		10,195,703	
Disposal Rate (pcd)			6.2		8.1	
Wisconsin Data		MSW Only 2004 (cu yds)	2004 (tons)	All Waste 2004 (cu yds)	2004 (tons)	
Landfilled in Wisconsin			6,734,457		11,098,114	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	191,493		58,028	191,493	58,028	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Table 4. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana			0		1,380	
Michigan	406,901		123,303	467,057	141,532	
Ohio			0		0	
Minus, Imports			2,155,171		2,155,365	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled			4,760,617		9,143,689	
Population			5,552,437		5,552,437	
Disposal Rate (pcd)			4.7		9.0	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2003

Illinois Data		MSW Only		All Waste		Notes:
		2003 (cu yds)	2003 (tons)	2003 (cu yds)	2003 (tons)	
Disposed in Illinois						
Landfilled		54,819,290	15,465,946	57,125,185	17,310,862	IEPA Capacity Certification Forms, 1/1/2004. Reflects 2,305,895 c.y. (1,844,716 tons) of special waste.
Incinerated		0	0	0	0	
Plus, Exports						
Indiana			776,275		831,010	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 6 & 7. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,846,199		559,454	1,846,199	559,454	
Ohio			0		447	
Wisconsin			898,569		898,734	
Minus, Imports		5,896,513	1,655,161	6,206,856	1,880,865	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
			=====		=====	
Total Disposed			16,045,083		17,719,442	
Population			12,715,900		12,715,900	
Disposal Rate (pcd)			6.9		7.6	
Indiana Data		MSW Only		All Waste		Notes:
		2003 (cu yds)	2003 (tons)	2003 (cu yds)	2003 (tons)	
Disposed in Indiana						
Landfilled			7,273,562		12,336,489	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			697,634		722,338	
Plus, Exports						
Illinois	139,294		42,210	139,294	42,210	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 6 & 7. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,783,267		540,384	1,783,267	540,384	
Ohio			100,514		157,512	
Wisconsin			0		0	
Minus, Imports			1,002,077		1,134,878	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
			=====		=====	
Total Disposed			7,652,227		12,664,055	
Population			6,241,383		6,241,383	
Disposal Rate (pcd)			6.7		11.1	
Michigan Data		MSW Only		All Waste		Notes:
		2003 (cu yds)	2003 (tons)	2003 (cu yds)	2003 (tons)	
Disposed in Michigan						
Landfilled		56,557,341	17,138,588	62,615,429	18,974,372	MDEQ Annual Report, Tables 1 & 3. Includes LFs. MDEQ data.
Incinerated			775,085		795,831	
Plus, Exports						
Illinois	0		0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			66,639		77,777	
Ohio			34,067		45,562	
Wisconsin			16,427		16,427	
Minus, Imports		14,860,620	4,503,218	15,499,468	4,686,808	MDEQ Annual Report, Table 5. Includes LFs.
			=====		=====	
Total Disposed			13,527,598		15,213,161	
Population			10,131,388		10,131,388	
Disposal Rate (pcd)			7.3		8.2	
Wisconsin Data		MSW Only		All Waste		Notes:
		2003 (cu yds)	2003 (tons)	2003 (cu yds)	2003 (tons)	
Landfilled in Wisconsin			5,987,193		9,939,092	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	165,069		50,021	165,069	50,021	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 6 & 7. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana			0		682	
Michigan	541,094		163,968	551,569	167,142	
Ohio			0		0	
Minus, Imports			1,480,823		1,480,988	WDNR Annual Spreadsheet. Includes LFs.
			=====		=====	
Total Landfilled			4,720,359		8,675,949	
Population			5,505,247		5,505,247	
Disposal Rate (pcd)			4.7		8.6	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (L/IN/MI/WI)
YEAR 2002

Illinois Data		MSW Only		All Waste		Notes:
		2002	2002	2002	2002	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Illinois						
Landfilled	51,968,372	14,415,271		54,650,066	16,560,626	IEPA Annual Report. Reflects 2,681,694 c.y. (2,145,355 tons) of special waste.
Incinerated	0	0		0	0	
Plus, Exports						
Indiana		1,311,260			1,376,041	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,697,247	514,317		1,697,441	514,376	
Ohio		1			4,844	
Wisconsin		919,277			923,922	
Minus, Imports	5,517,528	1,548,780		5,807,924	1,759,977	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
		=====			=====	
Total Disposed		15,611,346			17,619,832	
Population		12,617,031			12,617,031	
Disposal Rate (pcd)		6.8			7.7	
Indiana Data		MSW Only		All Waste		Notes:
		2002	2002	2002	2002	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Indiana						
Landfilled		7,472,237			12,686,771	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated		646,621			688,212	
Plus, Exports						
Illinois	143,334	43,435		143,334	43,435	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,701,290	515,542		1,701,290	515,542	
Ohio		84,767			142,375	
Wisconsin		0			0	
Minus, Imports		1,445,435			1,557,930	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
		=====			=====	
Total Disposed		7,317,167			12,518,405	
Population		6,187,750			6,187,750	
Disposal Rate (pcd)		6.5			11.1	
Michigan Data		MSW Only		All Waste		Notes:
		2002	2002	2002	2002	
		(cu yds)	(tons)	(cu yds)	(tons)	
Disposed in Michigan						
Landfilled	51,041,788	15,467,208		57,540,922	17,436,643	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated		779,703			800,495	
Plus, Exports						
Illinois	2	1		2	1	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana		71,714			78,596	
Ohio		37,741			60,380	
Wisconsin		51,587			51,587	
Minus, Imports	11,450,596	3,469,878		11,494,443	3,483,165	MDEQ Annual Report, Table 3. Includes LFs.
		=====			=====	
Total Disposed		12,938,076			14,944,537	
Population		10,067,073			10,067,073	
Disposal Rate (pcd)		7.0			8.1	
Wisconsin Data		MSW Only		All Waste		Notes:
		2002	2002	2002	2002	
		(cu yds)	(tons)	(cu yds)	(tons)	
Landfilled in Wisconsin		5,889,087			10,119,418	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	199,039	60,315		199,039	60,315	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana		54			472	
Michigan	423,374	128,295		437,981	132,722	
Ohio		0			50	
Minus, Imports		1,402,347			1,406,992	WDNR Annual Spreadsheet. Includes LFs.
		=====			=====	
Total Landfilled		4,675,404			8,905,985	
Population		5,458,056			5,458,056	
Disposal Rate (pcd)		4.7			8.9	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2001

Illinois Data		MSW Only		All Waste		Notes:
		2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Illinois						
Landfilled		50,746,374	14,431,782	52,649,722	15,954,461	IEPA Annual Report. Reflects 1,903,348 c.y. (1,522,679 tons) of special waste.
Incinerated		0	0	0	0	
Plus, Exports						
Indiana			1,490,443		1,595,205	IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	2,572,316		779,480	2,572,326	779,493	
Ohio			17		54,677	
Wisconsin			1,080,282		1,082,985	
Minus, Imports	4,517,438		1,268,053	4,755,198	1,440,969	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			16,513,961		18,025,852	
Population			12,518,162		12,518,162	
Disposal Rate (pcd)			7.2		7.9	
Indiana Data		MSW Only		All Waste		Notes:
		2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Indiana						
Landfilled			7,743,865		13,019,918	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			636,072		666,346	
Plus, Exports						
Illinois	162,032		49,101	162,032	49,101	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,768,909		536,033	1,768,909	536,033	
Ohio			117,682		180,407	
Wisconsin			0		0	
Minus, Imports			1,599,115		1,739,778	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			7,483,638		12,712,027	
Population			6,134,118		6,134,118	
Disposal Rate (pcd)			6.7		11.4	
Michigan Data		MSW Only		All Waste		Notes:
		2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Disposed in Michigan						
Landfilled		52,786,891	15,996,028	60,250,612	18,257,761	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated			812,301		833,196	
Plus, Exports						
Illinois	0		0	0	0	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			61,667		65,222	
Ohio			49,478		81,136	
Wisconsin			956		956	
Minus, Imports	11,790,113		3,572,762	11,872,507	3,597,729	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed			13,347,668		15,640,542	
Population			10,002,759		10,002,759	
Disposal Rate (pcd)			7.3		8.6	
Wisconsin Data		MSW Only		All Waste		Notes:
		2001 (cu yds)	2001 (tons)	2001 (cu yds)	2001 (tons)	
Landfilled in Wisconsin			5,858,904		10,387,654	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	188,326		57,068	188,326	57,068	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana			1,239		1,340	
Michigan	483,258		146,442	483,258	146,442	
Ohio			0		15	
Minus, Imports			1,542,728		1,545,431	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled			4,520,925		9,047,088	
Population			5,410,866		5,410,866	
Disposal Rate (pcd)			4.6		9.2	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 2000

Illinois Data		MSW Only		All Waste		Notes:
	2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)		
Disposed in Illinois						
Landfilled	46,941,372	13,056,378	49,292,180	14,937,024		IEPA Annual Report. Reflects 2,350,808 c.y. (1,880,646 tons) of special waste. IEPA Annual Report.
Incinerated	683,413	207,095	683,413	207,095		
Plus, Exports						
Indiana		1,441,761		1,515,891		IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	2,112,419	640,127	2,112,428	640,130		
Ohio		0		1		
Wisconsin		1,112,113		1,126,833		
Minus, Imports	4,851,218	1,361,745	5,106,545	1,547,438		IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		15,095,729		16,879,536		
Population		12,419,293		12,419,293		
Disposal Rate (pcd)		6.7		7.4		
Indiana Data		MSW Only		All Waste		
	2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)		
Disposed in Indiana						
Landfilled		7,664,057		13,071,081		IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated		632,880		661,552		
Plus, Exports						
Illinois	170,742	51,740	170,742	51,740		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,878,791	569,331	1,878,791	569,331		
Ohio		118,253		158,667		
Wisconsin		0		0		
Minus, Imports		1,530,728		1,611,901		IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed		7,505,533		12,900,470		
Population		6,080,485		6,080,485		
Disposal Rate (pcd)		6.8		11.6		
Michigan Data		MSW Only		All Waste		
	2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)		
Disposed in Michigan						
Landfilled	50,385,066	15,268,202	56,152,311	17,015,852		MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated		689,713		711,243		
Plus, Exports						
Illinois	710	215	710	215		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana		40,188		40,256		
Ohio		38,145		45,845		
Wisconsin		7,805		7,805		
Minus, Imports	9,348,355	2,832,835	9,373,115	2,840,338		MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		13,211,433		14,980,878		
Population		9,938,444		9,938,444		
Disposal Rate (pcd)		7.3		8.3		
Wisconsin Data		MSW Only		All Waste		
	2000 (cu yds)	2000 (tons)	2000 (cu yds)	2000 (tons)		
Landfilled in Wisconsin		5,623,852		9,936,153		WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						
Illinois	188,650	57,167	188,650	57,167		IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana		921		968		
Michigan	504,652	152,925	504,652	152,925		
Ohio		0		23		
Minus, Imports		1,438,783		1,453,503		WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		4,396,082		8,693,733		
Population		5,363,675		5,363,675		
Disposal Rate (pcd)		4.5		8.9		

Notes:

1. Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
2. Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
3. Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
4. MSW = Municipal Solid Waste. PCD = pounds per capita per day.
5. "All Waste" includes special waste and municipal solid waste.
6. Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (L/IN/MI/WT)
YEAR 1999

Illinois Data		MSW Only		All Waste		Notes:
		1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Illinois						
Landfilled		48,023,939	13,480,404	50,551,515	15,318,641	IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight. IEPA Annual Report.
Incinerated		1,398,929	377,852	1,398,929	377,852	
Plus, Exports						IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			1,645,396		1,779,180	
Michigan		558,117	169,126	558,167	169,142	
Ohio			0		60	
Wisconsin			1,107,136		1,107,136	
Minus, Imports		4,833,875	1,356,877	5,088,289	1,541,906	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			=====		=====	
			15,423,037		17,210,105	
Population			12,320,424		12,320,424	
Disposal Rate (pcd)			6.9		7.7	
Indiana Data		MSW Only		All Waste		
		1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Indiana						
Landfilled			7,838,469		13,611,071	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			669,718		697,619	
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Illinois		210,568	63,808	210,568	63,808	
Michigan		1,827,413	553,762	1,827,413	553,762	
Ohio			78,603		131,142	
Wisconsin			0		8	
Minus, Imports			1,753,096		2,147,830	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			=====		=====	
			7,451,264		12,909,580	
Population			6,026,852		6,026,852	
Disposal Rate (pcd)			6.8		11.7	
Michigan Data		MSW Only		All Waste		
		1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Disposed in Michigan						
Landfilled		44,938,189	13,617,633	51,957,465	15,744,686	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated			968,129		991,899	
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Illinois		0	0	0	0	
Indiana			35,947		37,021	
Ohio			36,697		87,669	
Wisconsin			11,632		11,632	
Minus, Imports		6,331,735	1,918,708	6,349,695	1,924,150	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed			=====		=====	
			12,751,330		14,948,757	
Population			9,874,129		9,874,129	
Disposal Rate (pcd)			7.1		8.3	
Wisconsin Data		MSW Only		All Waste		
		1999 (cu yds)	1999 (tons)	1999 (cu yds)	1999 (tons)	
Landfilled in Wisconsin			5,413,566		10,163,642	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Illinois		182,129	55,191	182,129	55,191	
Indiana			1,118		1,274	
Michigan		619,824	187,825	619,824	187,825	
Ohio			0		535	
Minus, Imports			1,392,049		1,392,049	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled			=====		=====	
			4,265,651		9,016,418	
Population			5,316,484		5,316,484	
Disposal Rate (pcd)			4.4		9.3	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (L/IN/MI/WI)
YEAR 1998

Illinois Data		MSW Only		All Waste		Notes:
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Illinois						
Landfilled		42,553,983	11,944,977	44,793,666	13,573,838	IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight. IEPA Annual Report.
Incinerated		1,498,205	461,960	1,498,205	461,960	
Plus, Exports						IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana			2,433,903		2,604,269	
Michigan		158,414	48,004	158,417	48,005	
Ohio			0		161	
Wisconsin			1,117,628		1,119,070	
Minus, Imports		4,630,957	1,299,918	4,874,692	1,477,179	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed			=====		=====	
			14,706,554		16,330,124	
Population			12,221,555		12,221,555	
Disposal Rate (pcd)			6.6		7.3	
Indiana Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Indiana						
Landfilled			8,459,772		15,392,694	IDEM Annual Report, Table 6. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 14.
Incinerated			670,380		695,932	
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Illinois		255,967	77,566	255,967	77,566	
Michigan		1,265,613	383,519	1,265,613	383,519	
Ohio			78,504		142,872	
Wisconsin			0		0	
Minus, Imports			2,559,470		2,871,225	IDEM Annual Report, Table 18. Includes LFs, TSs, and incinerators.
Total Disposed			=====		=====	
			7,110,271		13,821,358	
Population			5,973,220		5,973,220	
Disposal Rate (pcd)			6.5		12.7	
Michigan Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Disposed in Michigan						
Landfilled		41,747,904	12,650,880	46,741,233	14,164,010	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated			981,515		1,020,374	
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Illinois		0	0	0	0	
Indiana			37,854		38,008	
Ohio			54,571		60,057	
Wisconsin			1,029		1,029	
Minus, Imports		5,704,054	1,728,501	5,735,187	1,737,935	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed			=====		=====	
			11,997,348		13,545,543	
Population			9,809,815		9,809,815	
Disposal Rate (pcd)			6.7		7.6	
Wisconsin Data		MSW Only		All Waste		
		1998 (cu yds)	1998 (tons)	1998 (cu yds)	1998 (tons)	
Landfilled in Wisconsin			5,413,566		10,163,642	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports						IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 17. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Illinois		98,341	29,800	98,341	29,800	
Indiana			807		1,171	
Michigan		631,774	191,447	631,774	191,447	
Ohio			0		395	
Minus, Imports			1,216,363		1,217,805	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled			=====		=====	
			4,419,257		9,168,650	
Population			5,269,294		5,269,294	
Disposal Rate (pcd)			4.6		9.5	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (L/LIN/MI/WI)
YEAR 1997

Illinois Data	MSW Only		All Waste		Notes:
	1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Illinois					
Landfilled	38,374,102	10,771,678	40,393,792	12,240,543	IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight. IEPA Annual Report.
Incinerated	1,333,555	404,067	1,333,555	404,067	
Plus, Exports					
Indiana		2,244,290		2,435,357	IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	299,373	90,719	299,403	90,728	
Ohio		0		319	
Wisconsin		884,157		888,089	
Minus, Imports	4,107,810	1,153,069	4,324,010	1,310,306	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
Total Disposed		=====		=====	
		13,241,842		14,748,797	
Population		12,122,686		12,122,686	
Disposal Rate (pcd)		6.0		6.7	
Indiana Data	MSW Only		All Waste		
	1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Indiana					
Landfilled		7,927,373		13,821,044	IDEM Annual Report, Table 5. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 13.
Incinerated		681,147		709,330	
Plus, Exports					
Illinois	155,204	47,032	155,204	47,032	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	1,223,534	370,768	1,223,534	370,768	
Ohio		67,602		85,001	
Wisconsin		412		412	
Minus, Imports		2,366,762		2,695,974	IDEM Annual Report, Table 17. Includes LFs, TSs, and incinerators.
Total Disposed		=====		=====	
		6,727,572		12,337,613	
Population		5,919,587		5,919,587	
Disposal Rate (pcd)		6.2		11.4	
Michigan Data	MSW Only		All Waste		
	1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Disposed in Michigan					
Landfilled	39,074,692	11,840,816	43,669,640	13,233,224	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated		1,232,515		1,232,515	
Plus, Exports					
Illinois	4,011	1,215	4,011	1,215	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana		26,181		26,402	
Ohio		46,083		46,083	
Wisconsin		7,108		7,108	
Minus, Imports	5,596,540	1,695,921	5,581,452	1,691,349	MDEQ Annual Report, Table 3. Includes LFs.
Total Disposed		=====		=====	
		11,457,997		12,855,198	
Population		9,745,500		9,745,500	
Disposal Rate (pcd)		6.4		7.2	
Wisconsin Data	MSW Only		All Waste		
	1997 (cu yds)	1997 (tons)	1997 (cu yds)	1997 (tons)	
Landfilled in Wisconsin		5,094,214		8,665,711	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	87,184	26,419	87,184	26,419	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana		518		700	
Michigan	543,847	164,802	543,847	164,802	
Ohio		0		49	
Minus, Imports		1,164,417		1,168,355	WDNR Annual Spreadsheet. Includes LFs.
Total Landfilled		=====		=====	
		4,121,536		7,689,326	
Population		5,222,103		5,222,103	
Disposal Rate (pcd)		4.3		8.1	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3-6 - CALCULATION OF DISPOSAL RATES (IL/IN/MI/WI)
YEAR 1996

Illinois Data	MSW Only		All Waste		Notes:
	1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Illinois					
Landfilled	43,827,496	12,302,455	46,134,206	13,980,062	IEPA Annual Report. Reflects est. special waste of 5 % by volume and 12 % by weight. IEPA Annual Report.
Incinerated	0	0	0	0	
Plus, Exports					
Indiana		1,604,733		1,690,228	IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	578,503	175,304	578,503	175,304	
Ohio		20		877	
Wisconsin		465,329		465,329	
Minus, Imports	4,197,851	1,178,345	4,418,791	1,339,028	IEPA Quarterly Waste Origin Database. Reflects est. special waste of 5% by volume and 12% by weight.
		=====		=====	
Total Disposed		13,369,496		14,972,772	
Population		12,023,817		12,023,817	
Disposal Rate (pcd)		6.1		6.8	
Indiana Data	MSW Only		All Waste		
	1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Indiana					
Landfilled		6,992,701		12,754,111	IDEM Annual Report, Table 5. LFs only. TSs excluded to avoid double counting. IDEM Annual Report, Table 13.
Incinerated		687,870		710,652	
Plus, Exports					
Illinois	176,883	53,601	176,883	53,601	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Michigan	982,328	297,675	982,328	297,675	
Ohio		80,476		80,476	
Wisconsin		8		8	
Minus, Imports		1,744,106		1,942,068	IDEM Annual Report, Table 17. Includes LFs, TSs, and incinerators.
		=====		=====	
Total Disposed		6,368,225		11,954,455	
Population		5,865,955		5,865,955	
Disposal Rate (pcd)		5.9		11.2	
Michigan Data	MSW Only		All Waste		
	1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Disposed in Michigan					
Landfilled	37,576,777	11,386,902	42,282,403	12,812,849	MDEQ Annual Report, Table 1. Includes LFs. MDEQ data.
Incinerated		1,998,025		1,998,025	
Plus, Exports					
Illinois	280	85	280	85	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. OEPA Annual Summary Import/Export Data. Includes LFs. WDNR Annual Spreadsheet. Includes LFs.
Indiana		15,014		15,236	
Ohio		47,560		47,560	
Wisconsin		9,949		9,949	
Minus, Imports	5,491,993	1,664,240	5,689,767	1,724,172	MDEQ Annual Report, Table 3. Includes LFs.
		=====		=====	
Total Disposed		11,793,295		13,159,532	
Population		9,681,185		9,681,185	
Disposal Rate (pcd)		6.7		7.4	
Wisconsin Data	MSW Only		All Waste		
	1996 (cu yds)	1996 (tons)	1996 (cu yds)	1996 (tons)	
Landfilled in Wisconsin		4,344,421		7,932,520	WDNR Annual Spreadsheet. Includes LFs.
Plus, Exports					
Illinois	82,343	24,952	82,343	24,952	IEPA Quarterly Waste Origin Database. Includes LFs and incinerators. IDEM Annual Report, Facility Profiles and Table 16. Includes LFs, TSs, and incinerators. MDEQ Annual Report, Tables 4 & 5. Includes LFs. OEPA Annual Summary Import/Export Data. Includes LFs.
Indiana		211		220	
Michigan	327,616	99,278	500,475	151,659	
Ohio		0		0	
Minus, Imports		655,558		655,558	WDNR Annual Spreadsheet. Includes LFs.
		=====		=====	
Total Landfilled		3,813,304		7,453,793	
Population		5,174,913		5,174,913	
Disposal Rate (pcd)		4.0		7.9	

Notes:

- Indiana landfills report the following types of waste:
MSW, Construction/Demolition, Foundry, Other Special, Coal Ash, FGD Waste, and Other Non-MSW.
MSW and Construction/Demolition fall under the Illinois definition of municipal solid waste.
- Michigan landfills report the following types of waste:
Type II, General Type III, Type III Mixed, and Type III Separated.
Type II includes MSW and Incinerator Ash; Type III includes Construction/Demolition and Industrial.
Type II generally falls under the Illinois definition of municipal solid waste.
- Wisconsin landfills report the following types of waste:
Municipal Waste, Utility Ash, Pulp/Papermill, Foundry, POTW Sludge, All other SW,
Fee Exempt Waste - Berms, Incinerator Ash, Industrial Waste - Daily Cover, Shredder Fluff - Daily Cover,
Contaminated Soil - Daily Cover.
Municipal Waste falls under the Illinois definition of municipal solid waste.
- MSW = Municipal Solid Waste. PCD = pounds per capita per day.
- "All Waste" includes special waste and municipal solid waste.
- Refer to Table E.3-8 for population estimates.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E.3.7 - SPECIAL WASTE LANDFILLED IN ILLINOIS

Total, Special Waste	cubic yards	2007									
		1,588,360	cubic yards	2,149,825	cubic yards	2,781,499	cubic yards	2,610,628	cubic yards	2,305,895	cubic yards
Density	lbs/cubic yard	1,600	lbs/cubic yard	1,600	lbs/cubic yard	1,600	lbs/cubic yard	1,600	lbs/cubic yard	1,600	lbs/cubic yard
Total, Special Waste	tons	1,278,688	tons	1,719,860	tons	2,225,199	tons	2,088,502	tons	1,844,716	tons
Total Waste Landfilled	cubic yards	53,783,041	cubic yards	54,935,682	cubic yards	52,295,275	cubic yards	53,694,741	cubic yards	57,125,185	cubic yards
% Special Waste by Volume		3.0%		3.8%		5.3%		4.9%		4.0%	
Total Waste Landfilled, Tons	tons	16,297,891	tons	16,847,770	tons	15,847,063	tons	16,240,831	tons	17,310,662	tons
% Special Waste by Weight		7.8%		10.3%		14.0%		12.9%		10.7%	

Notes:
1. Average density of special waste:
CID #3 985 lbs/c.y
CID #4 1,842 lbs/c.y
Landway RDF 1,980 lbs/c.y
Average 1,600 lbs/c.y

Average
4.3%

Average
11.3%

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION
TABLE E3-8 - STATE POPULATION DATA

State	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Change 1990-2000	% Change 1990-2000
Illinois	11,430,602	11,529,471	11,628,340	11,727,209	11,826,078	11,924,948	12,023,817	12,122,686	12,221,555	12,320,424	12,419,293	12,518,162	12,617,031	12,715,900	12,814,769	12,913,639	13,012,508	13,111,377	13,210,246	988,681	8.6%
Indiana	5,544,159	5,597,792	5,651,424	5,705,057	5,758,689	5,812,322	5,865,955	5,919,587	5,973,220	6,026,852	6,080,485	6,134,118	6,187,750	6,241,383	6,295,015	6,348,648	6,402,281	6,455,913	6,509,546	538,326	9.7%
Michigan	9,295,297	9,359,612	9,423,926	9,488,241	9,552,556	9,616,871	9,681,185	9,745,500	9,809,815	9,874,129	9,938,444	10,002,759	10,067,073	10,131,388	10,195,703	10,260,018	10,324,332	10,388,647	10,452,962	643,147	6.9%
Wisconsin	4,891,769	4,938,960	4,986,150	5,033,341	5,080,531	5,127,722	5,174,913	5,222,103	5,269,294	5,316,484	5,363,675	5,410,866	5,458,056	5,505,247	5,552,437	5,599,628	5,646,819	5,694,009	5,741,200	471,906	9.6%
Total	31,161,827	31,425,635	31,689,840	31,953,848	32,217,854	32,481,863	32,745,870	33,009,876	33,273,884	33,537,889	33,801,897	34,065,905	34,329,910	34,593,918	34,857,924	35,121,933	35,385,940	35,649,946	35,913,954	2,640,070	8.5%

Source:

1. Years 1990 and 2000 = U.S. Census Bureau.
2. All other years interpolated/extrapolated between 1990 and 2000.



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES**Calculation of Waste Disposal Rates for Rural and Downstate Illinois Counties**

The previous analyses have resulted in the calculation of two disposal rates in Illinois: a statewide disposal rate and a disposal rate for the Chicago metropolitan area. Using these calculated rates, the disposal rate for rural and downstate counties was determined by the following steps.

- Step 1. Calculate the amount of waste disposed by the state as a whole by multiplying the per capita disposal rate by the population of the state (see Table E.3-8).
- Step 2. Calculate the amount of waste disposed by the Chicago metropolitan area by multiplying the per capita disposal rate by the population of the region (see Table E.3-5).
- Step 3. Determine the population in the rural and downstate counties by subtracting the population of the Chicago metropolitan area from the total population of the State.
- Step 4. Subtract the amount of waste disposed by the Chicago metropolitan area from the amount of waste disposed by the state as a whole to determine the amount of waste disposed by rural and downstate counties.
- Step 5. Divide the amount of waste disposed by the rural and downstate counties (Step 4) by the population of the rural and downstate counties (Step 3) to calculate the per capita waste disposal rate for the rural and downstate counties.

As summarized in Tables A-9 and A-10, the analysis shows that rural and downstate counties disposed of 5.5 to 7.8 pounds per capita per day of total waste and 4.6 to 6.9 pounds per capita per day of municipal waste between 1996 and 2008.

For the service area waste projections presented in Appendix E.2, the Chicago metropolitan area total waste disposal rate for 2008 was utilized for Cook and Lake Counties. The Wisconsin statewide total waste disposal rate for 2008 was utilized for Kenosha County. Although disposal rates generally were higher than the 2008 rates during the period 1996-2008, the per capita disposal rates utilized in projecting future disposal quantities were assumed to remain constant at 2008 levels. Hence, the projections of future disposal quantities in Appendix E.2 are conservatively low.

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-9 - TOTAL WASTE DISPOSAL RATE CALCULATION FOR REMAINDER OF ILLINOIS

	2008		2007		2006	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	13,210,246	7.0	13,111,377	7.5	13,012,508	7.8
Metro-Area	9,229,139	6.8	9,180,131	7.6	8,761,746	8.2
	=====	=====	=====	=====	=====	=====
Remainder of State	3,981,107	7.5	3,931,246	7.3	4,250,762	7.0

	2005		2004		2003	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,913,639	7.8	12,814,769	7.8	12,715,900	7.6
Metro-Area	8,677,461	8.1	8,423,937	8.3	8,340,883	7.5
	=====	=====	=====	=====	=====	=====
Remainder of State	4,236,178	7.2	4,390,832	6.8	4,375,017	7.8

	2002		2001		2000	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,617,031	7.7	12,518,162	7.9	12,419,293	7.4
Metro-Area	8,257,830	8.0	8,174,775	8.3	8,091,720	8.0
	=====	=====	=====	=====	=====	=====
Remainder of State	4,359,201	7.1	4,343,387	7.1	4,327,573	6.3

	1999		1998		1997	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,320,424	7.7	12,221,555	7.3	12,122,686	6.7
Metro-Area	8,008,666	7.8	7,925,610	7.5	7,842,558	6.6
	=====	=====	=====	=====	=====	=====
Remainder of State	4,311,758	7.5	4,295,945	6.9	4,280,128	6.9

	1996	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,023,817	6.8
Metro-Area	7,759,503	7.5
	=====	=====
Remainder of State	4,264,314	5.5

VEOLIA ES ZION LANDFILL SITE 2 EAST EXPANSION

TABLE E.3-10 - MUNICIPAL WASTE DISPOSAL RATE CALCULATION FOR REMAINDER OF ILLINOIS

	2008		2007		2006	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	13,210,246	6.2	13,111,377	7.0	13,012,508	7.1
Metro-Area	9,229,139	6.3	9,180,131	7.2	8,761,746	7.6
	=====	=====	=====	=====	=====	=====
Remainder of State	3,981,107	6.0	3,931,246	6.5	4,250,762	6.1

	2005		2004		2003	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,913,639	6.9	12,814,769	6.9	12,715,900	6.9
Metro-Area	8,677,461	7.4	8,423,937	7.7	8,340,883	6.9
	=====	=====	=====	=====	=====	=====
Remainder of State	4,236,178	5.9	4,390,832	5.4	4,375,017	6.9

	2002		2001		2000	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,617,031	6.8	12,518,162	7.2	12,419,293	6.7
Metro-Area	8,257,830	7.4	8,174,775	7.7	8,091,720	7.6
	=====	=====	=====	=====	=====	=====
Remainder of State	4,359,201	5.7	4,343,387	6.3	4,327,573	5.0

	1999		1998		1997	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,320,424	6.9	12,221,555	6.6	12,122,686	6.0
Metro-Area	8,008,666	7.4	7,925,610	7.3	7,842,558	6.4
	=====	=====	=====	=====	=====	=====
Remainder of State	4,311,758	6.0	4,295,945	5.3	4,280,128	5.3

	1996	
	<u>Population</u>	<u>Disposal Rate (pcd)</u>
Illinois	12,023,817	6.1
Metro-Area	7,759,503	6.9
	=====	=====
Remainder of State	4,264,314	4.6



Client: Veolia ES Zion Landfill, Inc.

Project: Site 2 East Expansion

Proj. #: 122150

Calculated By: CMS

Date: 1/2010

Checked By: PPK

Date: 1/2010

TITLE: WASTE DISPOSAL RATES

Disposal Rate Discussion

The methodology employed above utilizes recent landfill disposal data to calculate per capita disposal rates, and represents the most current information on disposal rates. Although waste generation, recycling and disposal rates were estimated in solid waste management plans for counties in the service area, most of those plans were prepared in the late 1980s and early 1990s, and the information contained in them has become dated. Although five-year updates to the plans have subsequently been prepared, in most cases the updates did not include a comprehensive evaluation of current disposal rates. The IEPA has acknowledged this fact in its annual landfill reports:

The waste generation data reported by local recycling coordinators might be 10 to 15 years out-of-date, and is based upon 1990 (or earlier) population figures. (IEPA, 2003, p.8)

Waste generation and recycling figures were prepared in many cases during the solid waste planning process several years ago. In many cases, no new research has been done since then. (IEPA, 2002(b), p. 8)

Most landfills have been equipped with scales, which allows accurate tracking of the amounts of waste disposed in landfills. Moreover, since landfills typically pay local and state surcharges and host fees based on the amount of waste accepted, it is unlikely that landfills would overstate the amount of waste received. For these reasons, it is believed that the per capita disposal rates derived in the preceding analysis represent the most current, accurate evaluation of waste disposal quantities.
