

COUNTY SOLID WASTE

CONTENTS

- INTRODUCTION
- TABLE 1 - COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TEN YEARS OF PERMITTED LANDFILL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITA DISPOSAL RATE
- CHART 1 - TEN YEARS OF PERMITTED LANDFILL CAPACITY
- TABLE 2 - COLLIER COUNTY LANDFILL DISPOSAL CAPACITY LEVEL OF SERVICE STANDARD: TWO YEARS OF LINED CELL CAPACITY AT PREVIOUS THREE YEARS AVERAGE TONS PER CAPITAL DISPOSAL RATE
- CHART 2 - TWO YEARS OF LINED CELL CAPACITY
- CHANGES FROM 2009 AUIR
- CIE AMENDMENT SUBMITTAL “EXHIBIT A” & “EXHIBIT H”

Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

COLLIER COUNTY LANDFILL DISPOSAL CAPACITY

Introduction:

The Public Utilities Division's 2010 AUIR submittals are based on "Collier County Peak Season Population Estimates and Projections" dated June 11, 2010, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. FY 2030 - FY 2039 projected based on average percentage increase for FY 2026 - FY 2029 (1.61%). There is one notable change from the 2009 Collier County Landfill Disposal Capacity AUIR:

1. The projected Tons Per Capita Disposal Rate in the 2010 Solid Waste AUIR for 2011 forward is 0.55, which is a decrease from the projected Tons Per Capita Disposal Rate in the 2009 Solid Waste AUIR of 0.59. This reflects the positive impacts of the past and current solid waste management initiatives that have increased recycling and decreased disposal with the adoption of the Board approved Integrated Solid Waste Management Strategy.

Recommendations:

The Public Utilities Division's staff recommends that the Collier County Board of County Commissioners approve the 2010 Collier County Landfill Disposal Capacity AUIR and continue to support the Integrated Solid Waste Management Strategy.

Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

**Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Permitted Landfill Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

July 15, 2010

1	2	3	4	5	6	7
Fiscal Year	Peak Population	Tons Per Capita Disposal Rate	Annual Tons Disposed	Total Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons)
2000	309,511	1.23	381,499	4,537,914	2,851,746	1,686,168
2001	325,159	1.32	430,511	4,107,403	2,649,128	1,458,275
2002	341,954	1.07	366,547	3,740,856	2,514,700	1,226,156
2003	359,191	0.80	288,409	5,820,359	2,462,714	3,357,645
2004	374,384	0.78	291,903	9,130,976	2,411,619	6,719,357
2005	386,668	0.71	274,777	9,695,124	2,382,460	7,312,664
2006	396,310	0.70	278,384	9,920,278	2,354,944	7,565,333
2007	400,027	0.64	254,889	9,594,647	2,356,287	7,238,360
2008	399,532	0.61	241,816	9,282,412	2,376,181	6,906,231
2009	399,979	0.54	215,338	8,831,381	2,428,149	6,403,233
2010	404,032	0.52	209,172	8,622,209	2,491,663	6,130,547
2011	411,524	0.55	227,893	8,394,316	2,541,610	5,852,706
2012	419,155	0.55	232,119	8,162,197	2,592,584	5,569,613
2013	426,928	0.55	236,423	7,925,774	2,644,604	5,281,170
2014	434,845	0.55	240,808	7,684,966	2,697,693	4,987,273
2015	443,531	0.55	245,618	7,439,349	2,751,116	4,688,232
2016	453,013	0.55	250,869	7,188,480	2,804,115	4,384,365
2017	462,698	0.55	256,232	6,932,248	2,856,653	4,075,595
2018	472,590	0.55	261,710	6,670,538	2,908,696	3,761,842
2019	482,694	0.55	267,305	6,403,233	2,960,207	3,443,026
2020	492,410	0.55	272,686	6,130,547	3,011,482	3,119,064
2021	501,718	0.55	277,841	5,852,706	3,062,831	2,789,875
2022	511,202	0.55	283,093	5,569,613	3,114,240	2,455,373
2023	520,866	0.55	288,444	5,281,170	3,165,696	2,115,473
2024	530,711	0.55	293,896	4,987,273	3,217,185	1,770,088
2025	540,002	0.55	299,041	4,688,232	3,269,103	1,419,129
2026	548,716	0.55	303,867	4,384,365	3,321,859	1,062,506
2027	557,571	0.55	308,770	4,075,595	3,375,467	700,128
2028	566,568	0.55	313,753	3,761,842	3,429,940	331,902
2029	575,712	0.55	318,816	3,443,026	3,485,292	(42,266)
2030	585,002	0.55	323,961	3,119,064	N/A	N/A
2031	594,443	0.55	329,189	2,789,875	N/A	N/A
2032	604,036	0.55	334,502	2,455,373	N/A	N/A
2033	613,784	0.55	339,900	2,115,473	N/A	N/A
2034	623,689	0.55	345,385	1,770,088	N/A	N/A
2035	633,754	0.55	350,959	1,419,129	N/A	N/A
2036	643,982	0.55	356,623	1,062,506	N/A	N/A
2037	654,374	0.55	362,378	700,128	N/A	N/A
2038	664,934	0.55	368,226	331,902	N/A	N/A
2039	675,665	0.55	374,168	(42,266)	N/A	N/A

Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

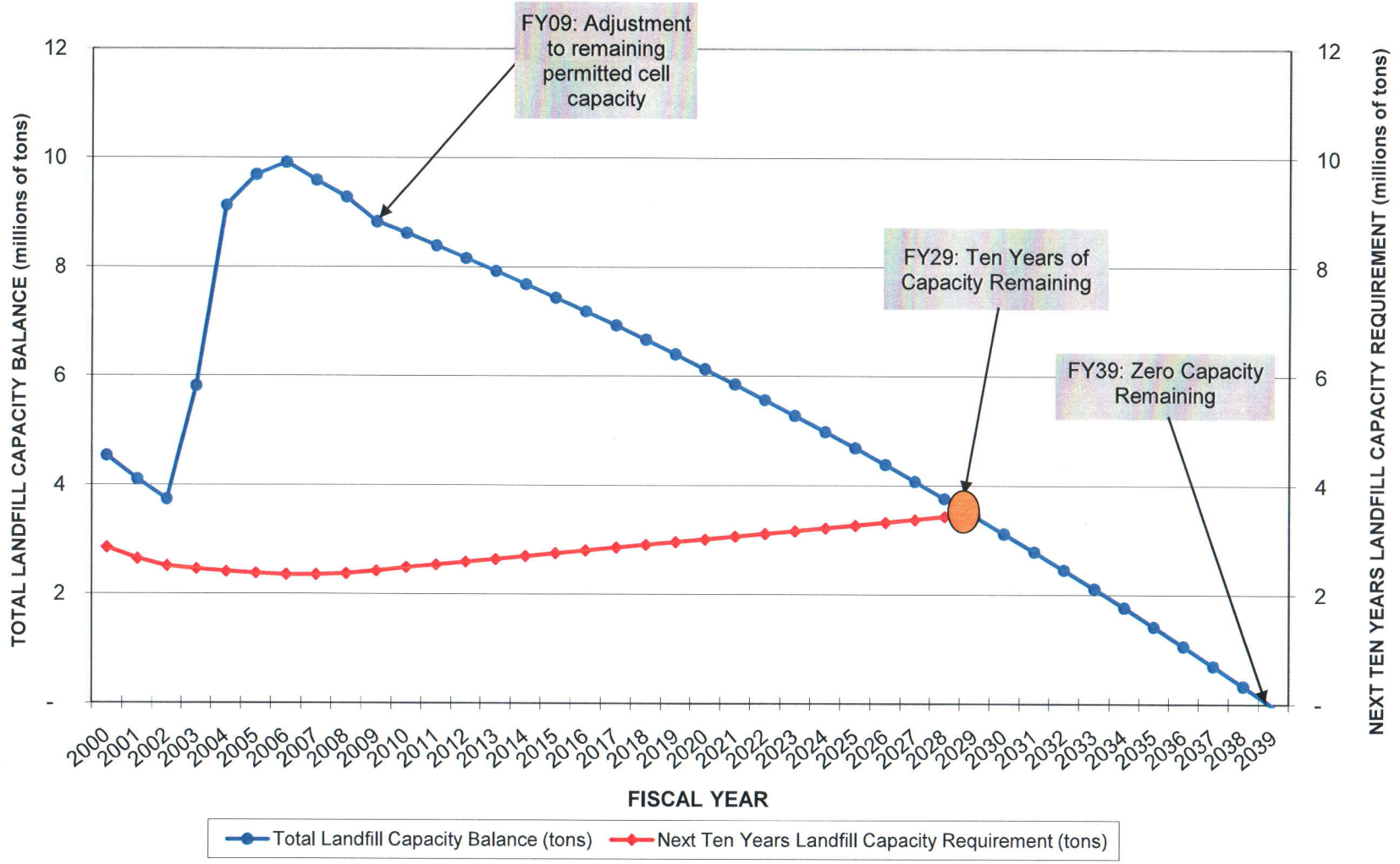
**Table 1: Collier County Landfill Disposal Capacity
Level of Service Standard: Ten Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

July 15, 2010

NOTES: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Peak Population. Estimates and projections for the existing service area are based on "Collier County Peak Season Population Estimates and Projections" dated June 11, 2010, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census; Bureau of Economic and Business Research (BEER) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. FY 2030 - FY 2039 projected based on average percentage increase for FY 2026 - FY 2029 (1.61%).
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2010 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2011 forward is the average Tons Per Capita Disposal Rate (column 3) of FY 2008, FY 2009, and FY 2010.
4. Annual Tons Disposed for FY 2000 - FY 2009 are actual tonnage amounts buried at the Collier County Landfill. FY 2010 reflects the projected tons disposed from the current year forecast. FY 2011 forward are derived from Peak Population (column 2) multiplied by the Tons Per Capita Disposal Rate (column 3).
5. Total Landfill Capacity Balance (tons) is the previous years Total Landfill Capacity Balance (column 5) minus Annual Tons Disposed (column 4) at the Collier County Landfill. The bolded value in the Total Landfill Capacity Balance (column 5) is from Waste Management, Inc. of Florida (WMIF) Annual Estimate of Remaining Life and Capacity Letter plus 930,000 tons of contracted disposal capacity at Okeechobee. See graph on page SW-4.
6. Next Ten Years Landfill Capacity Requirement (tons) is the sum of the next ten years of Annual Tons Disposed (column 4) at the Collier County Landfill. See graph on page SW-4.
7. Ten Year Permitted Landfill Capacity Surplus or Deficiency (tons) is the Total Landfill Capacity Balance (column 5) minus the Next Ten Years Landfill Capacity Requirement (column 6).

CHART 1: TEN YEARS OF PERMITTED LANDFILL CAPACITY
 Level of Service Standard = Ten Years of Permitted Landfill Capacity at Previous Three Years Average Tons Per Capita Disposal Rate
 July 15, 2010



Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

**Table 2: Collier County Landfill Disposal Capacity
Level of Service Standard: Two Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

July 15, 2010

1	2	3	4	5	6	7
Fiscal Year	Peak Population	Tons Per Capita Disposal Rate	Annual Tons Disposed	Lined Cell Capacity Balance (tons)	Next Two Years Lined Cell Capacity Requirement (tons)	Projected Lined Cell Capacity Surplus or Deficiency (tons)
2000	309,511	1.23	381,499	1,019,063	797,058	222,005
2001	325,159	1.32	430,511	588,552	654,956	(66,404)
2002	341,954	1.07	366,547	1,395,580	580,312	815,268
2003	359,191	0.80	288,409	1,107,171	566,680	540,491
2004	374,384	0.78	291,903	815,268	553,161	262,107
2005	386,668	0.71	274,777	540,491	533,273	7,218
2006	396,310	0.70	278,384	1,043,878	496,705	547,173
2007	400,027	0.64	254,889	788,989	457,154	331,835
2008	399,532	0.61	241,816	1,477,173	424,510	1,052,663
2009	399,979	0.54	215,338	2,107,085	437,065	1,670,020
2010	404,032	0.52	209,172	1,897,913	460,012	1,437,901
2011	411,524	0.55	227,893	1,670,020	468,542	1,201,478
2012	419,155	0.55	232,119	2,274,151	477,231	1,796,920
2013	426,928	0.55	236,423	2,037,728	486,425	1,551,302
2014	434,845	0.55	240,808	1,796,920	496,486	1,300,434
2015	443,531	0.55	245,618	2,931,302	507,101	2,424,202
2016	453,013	0.55	250,869	2,680,434	517,942	2,162,492
2017	462,698	0.55	256,232	6,932,248	529,015	6,403,233
2018	472,590	0.55	261,710	6,670,538	539,991	6,130,547
2019	482,694	0.55	267,305	6,403,233	550,527	5,852,706
2020	492,410	0.55	272,686	6,130,547	560,933	5,569,613
2021	501,718	0.55	277,841	5,852,706	571,536	5,281,170
2022	511,202	0.55	283,093	5,569,613	582,340	4,987,273
2023	520,866	0.55	288,444	5,281,170	592,937	4,688,232
2024	530,711	0.55	293,896	4,987,273	602,908	4,384,365
2025	540,002	0.55	299,041	4,688,232	612,637	4,075,595
2026	548,716	0.55	303,867	4,384,365	622,523	3,761,842
2027	557,571	0.55	308,770	4,075,595	632,569	3,443,026
2028	566,568	0.55	313,753	3,761,842	642,778	3,119,064
2029	575,712	0.55	318,816	3,443,026	653,151	2,789,875
2030	585,002	0.55	323,961	3,119,064	663,691	2,455,373
2031	594,443	0.55	329,189	2,789,875	674,402	2,115,473
2032	604,036	0.55	334,502	2,455,373	685,285	1,770,088
2033	613,784	0.55	339,900	2,115,473	696,344	1,419,129
2034	623,689	0.55	345,385	1,770,088	707,582	1,062,506
2035	633,754	0.55	350,959	1,419,129	719,001	700,128
2036	643,982	0.55	356,623	1,062,506	730,604	331,902
2037	654,374	0.55	362,378	700,128	742,394	(42,266)
2038	664,934	0.55	368,226	331,902	N/A	N/A
2039	675,665	0.55	374,168	(42,266)	N/A	N/A

Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

**Table 2: Collier County Landfill Disposal Capacity
Level of Service Standard: Two Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate**

July 15, 2010

NOTES: (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Peak Population. Estimates and projections for the existing service area are based on "Collier County Peak Season Population Estimates and Projections" dated June 11, 2010, prepared by Collier County Comprehensive Planning Section. Populations are derived from data obtained from: 2000 Census; Bureau of Economic and Business Research (BEBR) population bulletins; Collier County Comprehensive Planning staff; and, Planning staff from Naples and Marco Island. FY 2030 - FY 2039 projected based on average percentage increase for FY 2026 - FY 2029 (1.61%).
3. Tons Per Capita Disposal Rate for FY 2000 - FY 2010 is calculated by dividing the actual Annual Tons Disposed (column 4) by the Peak Population (column 2). FY 2011 forward is the average Tons Per Capita Disposal Rate (column 3) of FY 2008, FY 2009, and FY 2010.
4. Annual Tons Disposed for FY 2000 - FY 2009 are actual tonnage amounts buried at the Collier County Landfill. FY 2010 reflects the projected tons disposed from the current year forecast. FY 2011 forward are derived from Peak Population (column 2) multiplied by the Tons Per Capita Disposal Rate (column 3).
5. Lined Cell Capacity Balance (tons) is the previous years Lined Cell Capacity Balance (column 5) minus Annual Tons Disposed (column 4) at the Collier County Landfill. See below for explanations of the bolded values in the Lined Cell Capacity Balance (column 5). Also see graph on page SW-8.

Fiscal Year	New Capacity (tons)	Description	Source of Information
2002	1,173,575	Lined Cell Expansion	Complete.
2006	911,250	Lined Cell Expansion	Complete.
2008	930,000	Contracted disposal capacity at Okeechobee	June 12, 2001 Disposal Capacity Agreement.
2009	845,250	Lined Cell Expansion	Complete.
2012	836,250	Lined Cell Expansion	Waste Management, Inc. of Florida (WMIF) 5-year Cell Development Schedule dated 06/15/10.
2015	1,380,000	Lined Cell Expansion	WMIF 5-year Cell Development Schedule dated 06/15/10.
2017	4,508,046	Total remaining permitted capacity of landfill added. Lined cells will be constructed in future but have not been scheduled by WMIF.	WMIF Annual Estimate of Remaining Life and Capacity Letter, dated 01-29-10, less completed and 5-year Scheduled Cell Development Expansions.

6. Next Two Years Lined Cell Capacity Requirement (tons) is the sum of the next two years of Annual Tons Disposed (column 4) at the Collier County Landfill. See graph on page SW-8.

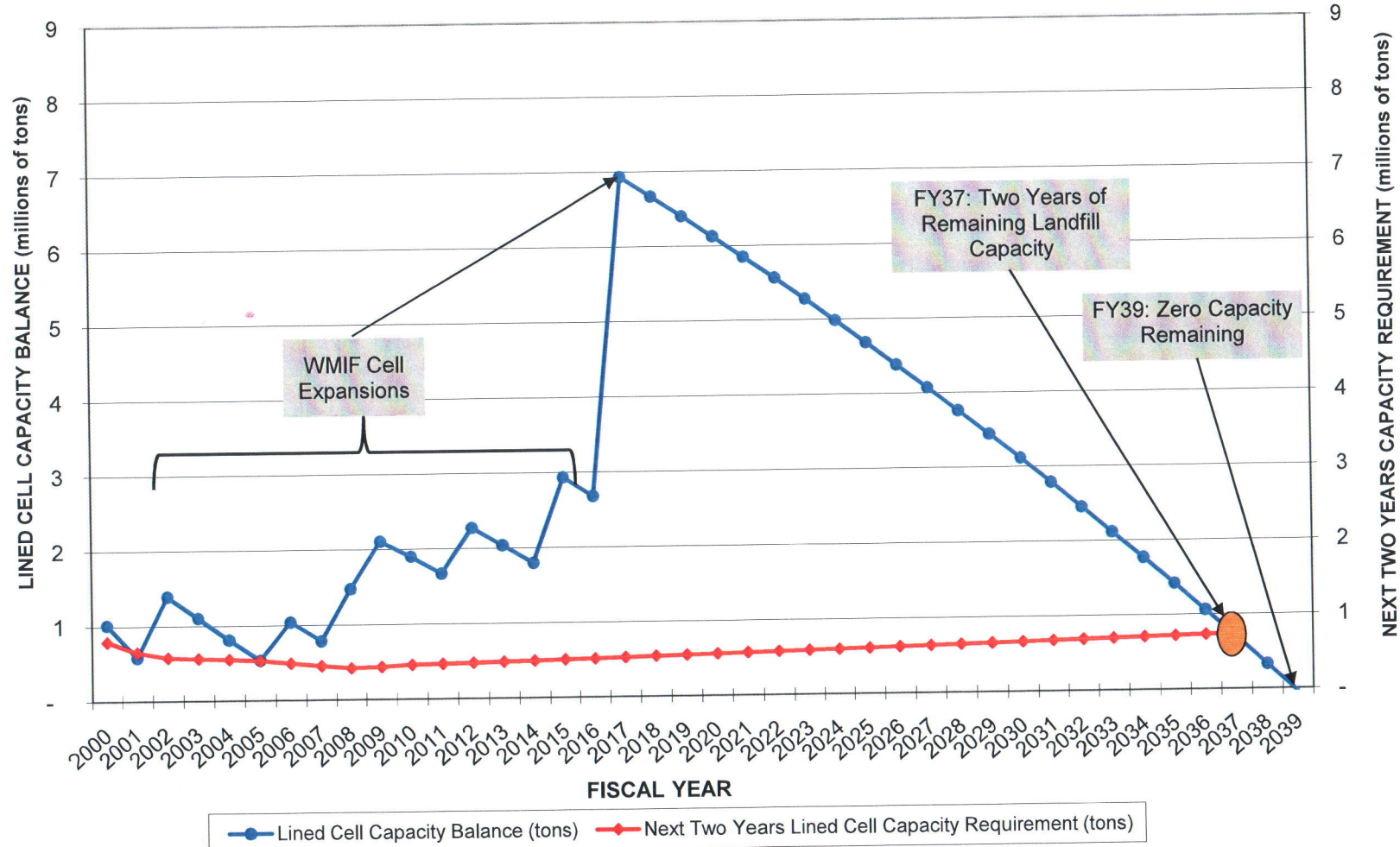
Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

Table 2: Collier County Landfill Disposal Capacity
Level of Service Standard: Two Years of Lined Cell Capacity
at Previous Three Years Average Tons Per Capita Disposal Rate

July 15, 2010

7. Projected Lined Cell Capacity Surplus or Deficiency (tons) is the Lined Cell Capacity Balance (column 5) minus the Next Two Years Lined Cell Capacity Requirement (column 6).

CHART 2: TWO YEARS OF LINED CELL CAPACITY
 Level of Service Standard = Two Years of Lined Cell Capacity at Previous Three Years Average Tons Per Capita Disposal Rate
 July 15, 2010



Collier County Government
Public Utilities Division
2010 Annual Update and Inventory Report (AUIR)

CHANGES FROM 2009 AUIR

July 15, 2010

2010 AUIR Column Number and Category	2009 AUIR	2010 AUIR	Reason for Change
BOTTOM LINE: Zero Disposal (airspace) Capacity	FY39	FY39	No change.
(2) Peak Population	FY10: 401,804	FY10: 404,032	The Collier County Peak Population Projections increased from previous year.
(3) Tons Per Capita Disposal Rate	FY11: 0.59 tons/ capita/yr	FY11: 0.55 tons/ capita/yr	Increased recycling lowered the three previous years' average Tons Per Capita Disposal Rate.
(4) Annual Tons Disposed	FY11: 240,727 tons	FY11: 227,893 tons	Each year the Annual Tons Disposed for that year is the actual amount for that year. Future years Annual Tons Disposed are based on the three year average Tons Per Capita Disposal
(5) Total Landfill Capacity Balance, Table 1	FY08 and forward	FY09 and forward	The 2010 AUIR was updated to reflect the actual remaining disposal (airspace) capacity data available from Waste Management Inc., of Florida (WMIF), which includes their updated Annual Estimate of Remaining Life and Capacity letter and the increased value includes the 930,000 tons of contingency disposal capacity at Okeechobee Landfill.
(5) Lined Cell Capacity Balance, Table 2	FY08 and forward	FY09 and forward	The 2010 AUIR was updated to reflect the actual remaining disposal (airspace) capacity data available from Waste Management Inc., of Florida (WMIF), which includes their updated cell development schedule for the next five years and the increased value includes the 930,000 tons of contingency disposal capacity at Okeechobee Landfill.

Capital Improvement Element Amendment Submittal
“Exhibit A” & “Exhibit H”

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2011-2015

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
CIE #	PROJECT	NOTES	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2011	\$ AMOUNT FY 2012	\$ AMOUNT FY 2013	\$ AMOUNT FY 2014	\$ AMOUNT FY 2015	\$ AMOUNT TOTAL
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	TOTAL
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells. Landfill cells vary in size and disposal capacity.

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.

**APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2016-2020**

SOLID WASTE PROJECTS									
			CONSTRUCTION	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
CIE #	PROJECT		SCHEDULE NOTES	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	TOTAL
	SOLID WASTE PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	TOTAL
REVENUE TOTAL	\$0	\$0	\$0	\$0	\$0	\$0

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells.

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrency system.