

Lake County Stormwater Management Department



A SUCCESS STORY

Member Communities



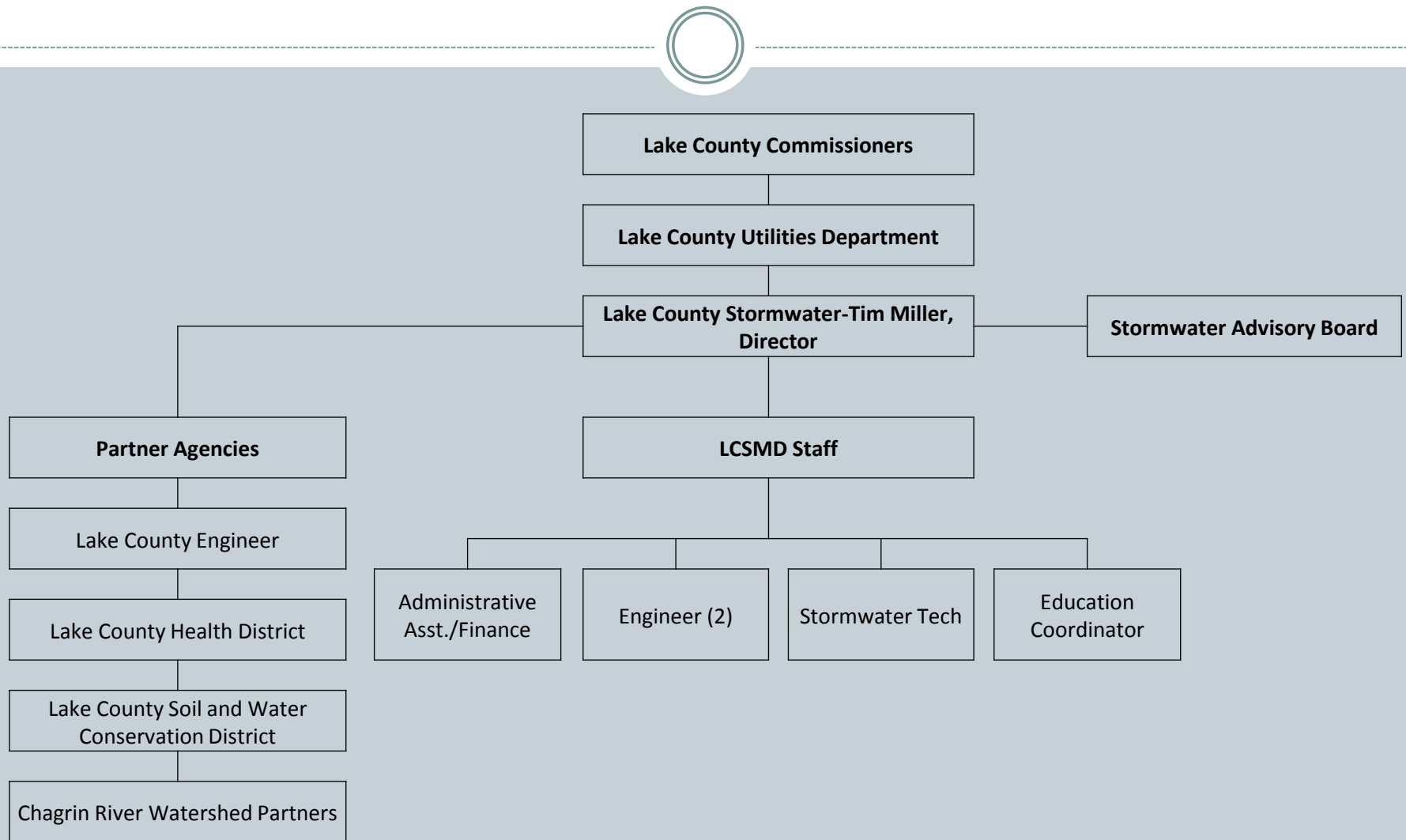
- City of Eastlake
- City of Kirtland
- City of Mentor-on-the-Lake
- City of Painesville
- City of Willoughby
- City of Willoughby Hills
- City of Willowick
- Concord Township
- Madison Township
- Painesville Township
- Village of Fairport Harbor
- Village of Grand River
- Village of Kirtland Hills
- Village of Lakeline
- Village of Madison
- Village of Perry
- Village of Timberlake

What do we do?



- NPDES MS₄ PHASE 2 PERMIT COMPLIANCE
- MS₄ MAINTENANCE
- CAPITAL INFRASTRUCTURE IMPROVEMENTS
- COLLABORATE WITH OTHER UTILITIES

Organizational Chart



PERMIT REQUIREMENTS



- MCM 1 and 2 Public Involvement/Public Participation
- MCM 3 Illicit Discharge Detection and Elimination
- MCM 4 Erosion and Sediment Control
- MCM 5 Post-Construction Requirements
- MCM6 Pollution Prevention and Good Housekeeping

How are we funded?



- Funded by a User Fee System
- User Fees are collected with the Property Tax
- Residential Properties-Flat Fee
- Non-Residential Properties-Based on Impervious Area
 - Area is calculated, then divided by an Equivalent Residential Unit (3,050 s.f. per ERU)
 - Example: Dept. Store consists of 30,500 s.f. of impervious area divided by 3,050 s.f. per ERU yields 10 ERU's

What are the current rates?



- The Current Rate is \$3.50 per month per ERU
- This results in an annual fee of \$42.00
- Based on Total ERU's: Annual Budget of \$5,000,000
- Rate has varied over the years: \$1.25-\$3.50

Budget and Tracking

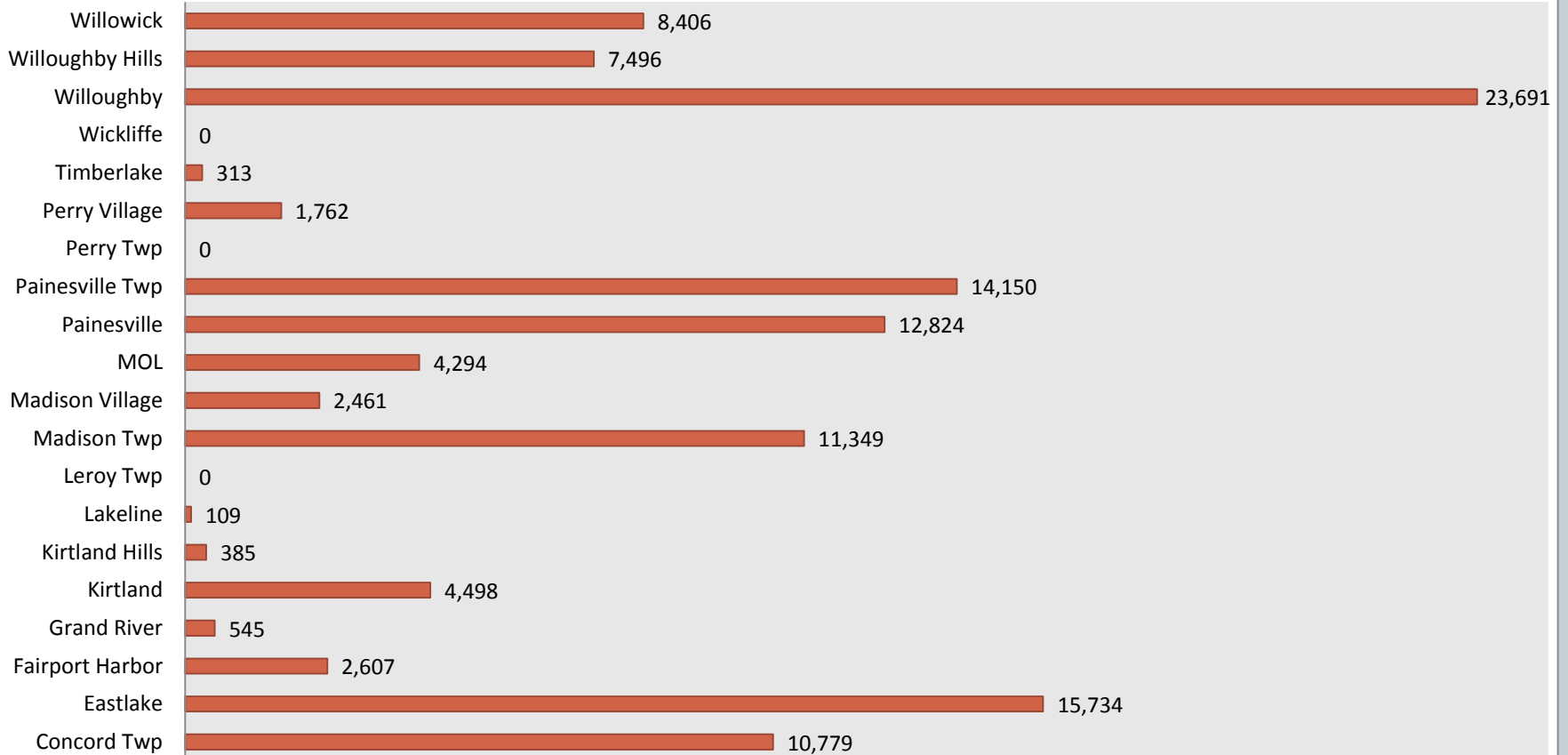


Total ERU's by Community



2015 ERU's

2015 ERU's



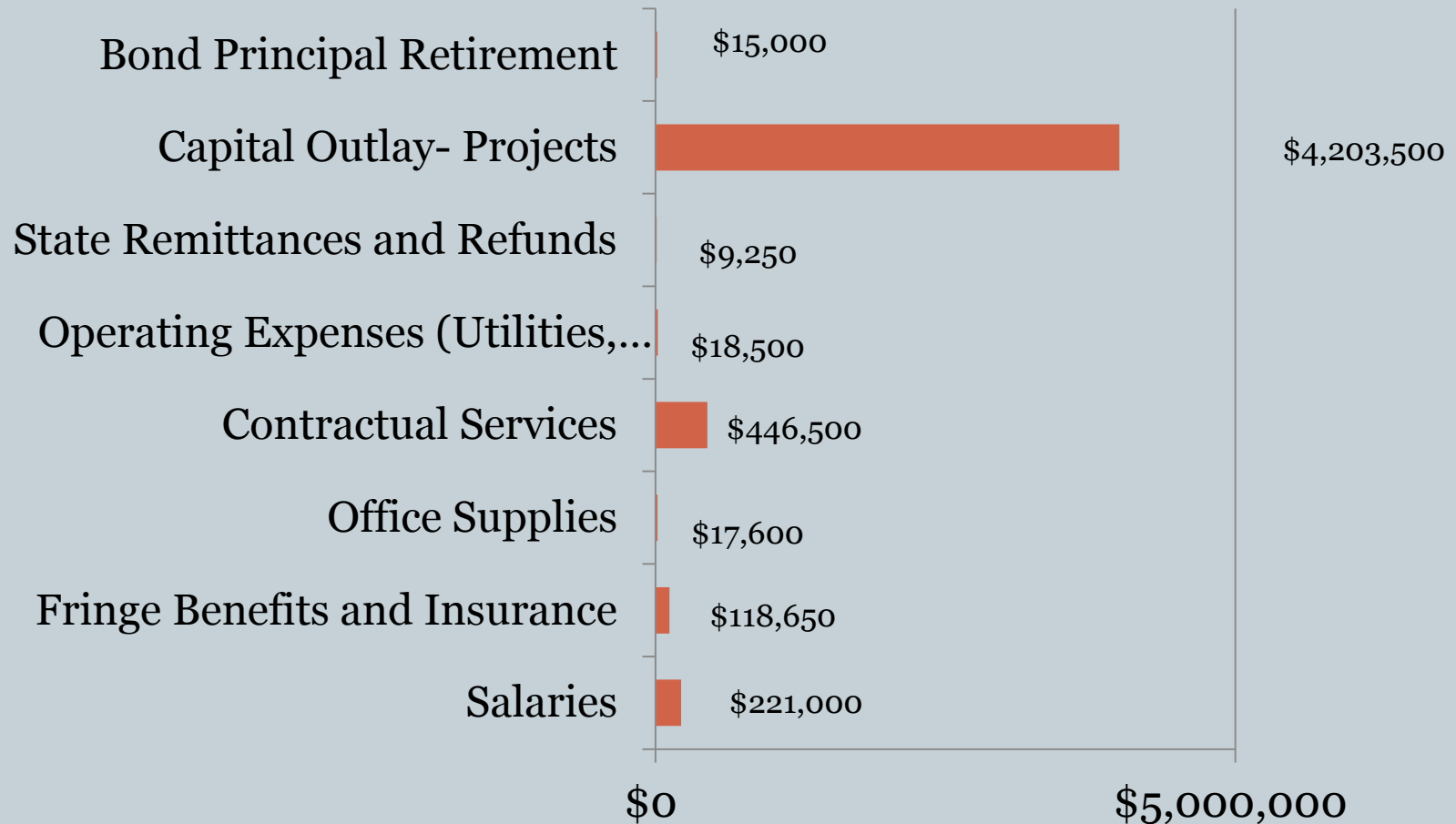
User Fee by Community



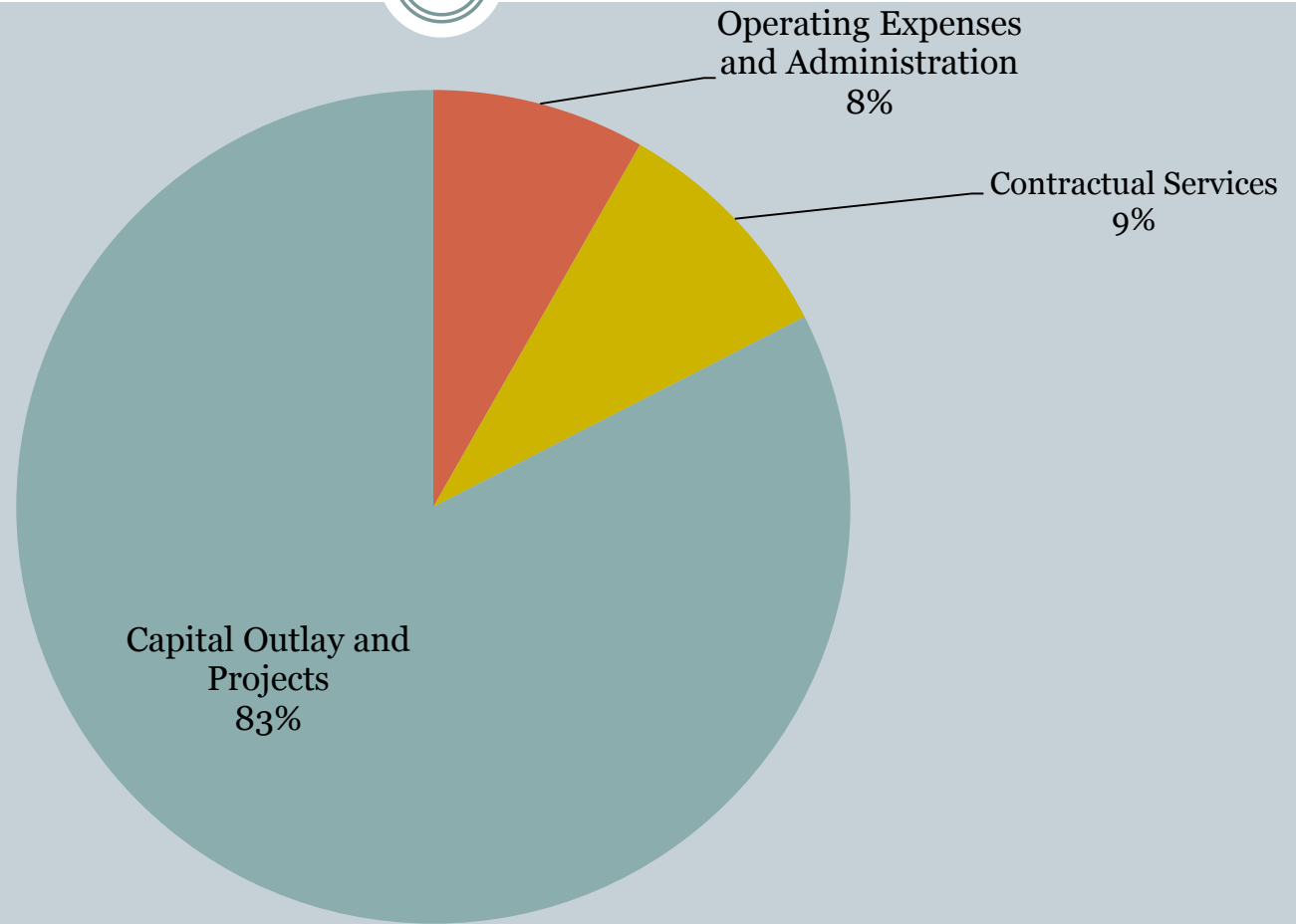
User Fee Comparison by Year-Projections

Community	Level	2015			2014			2012*		
		Non-Residential	Residential	Total	Non-Residential	Residential	Total	Non-Res	Residential	Total
Concord Township	2	\$ 138,113	\$ 314,622	\$ 452,735	\$ 49,035	\$ 111,540	\$ 160,575	\$ 96,254	\$ 220,530	\$ 316,784
Eastlake	2	312,133	348,684	660,817	Not a Member of the Program			Not a Member of the Program		
Fairport Harbor	2	43,080	66,402	109,482	4,880	7,589	12,468	9,771	15,631	25,402
Grand River	2	14,995	7,896	22,891	5,330	2,835	8,165	10,659	5,880	16,539
Kirtland	2	81,979	106,932	188,911	29,140	40,380	69,520	57,848	80,370	138,218
Kirtland Hills	2	Direct Billed		11,564	Direct Billed		5,782	Direct Billed		11,564
Lakeline	2	169	4,410	4,579	-	1,575	1,575	-	3,210	3,210
Madison Township	2	201,075	275,562	476,637	68,723	100,500	169,223	138,429	209,640	348,069
Madison Village	2	49,494	53,886	103,380	19,630	19,200	38,830	Not a Member of the Program		
Mentor on the Lake	2	33,384	146,958	180,342	11,894	52,440	64,334	23,802	104,640	128,442
Painesville	2	229,502	309,120	538,622	Direct Billed		50,145	Direct Billed		100,118
Painesville Township	2	295,145	299,166	594,311	101,154	107,505	208,659	202,911	214,830	417,741
Perry Village	2	48,009	25,998	74,007	17,295	9,285	26,580	33,933	18,690	52,623
Timberlake	2	181	12,978	13,159	65	4,635	4,700	129	9,300	9,429
Wickliffe		No Longer in Program			No Longer in Program			No Longer in Program		
Willoughby	2	507,357	487,662	995,019	Not a Member of the Program			Not a Member of the Program		
Willoughby Hills	2	108,107	206,724	314,831	38,412	73,755	112,167	76,523	147,390	223,913
Willowick	2	81,386	271,656	353,042	29,141	97,035	126,176	58,244	193,530	251,774
Grand Total		\$ 2,144,111	\$ 2,938,656	\$ 5,094,331	374,698	628,274	\$ 1,058,899	\$ 708,503	1,223,641	\$ 2,043,827

2015 Budget-\$5,050,000



2015 Budget



Expense Analysis



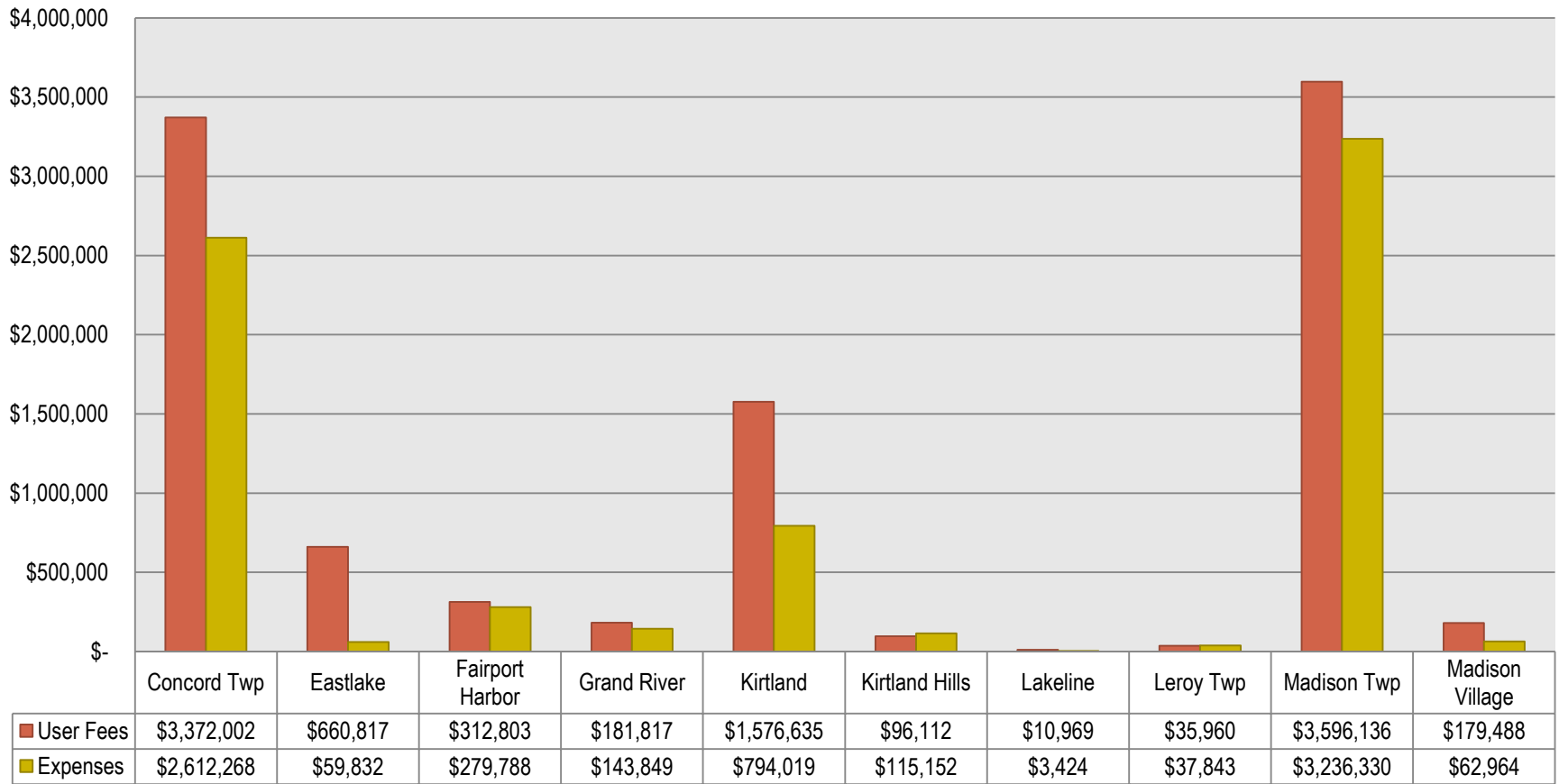
LAKE COUNTY STORMWATER MANAGEMENT DEPARTMENT COMMUNITY ANNUAL EXPENSE ANALYSIS

	MCM 1-6 Cost per Community						Project Costs						Totals
	2004-2011	2012	2013**	2014**	2015*	Subtotal	2004-2011	2012	2013	2014	2015	Subtotal	
Concord Township	\$650,133	\$85,371	\$112,561	\$103,229	\$40,992	\$992,285	\$1,059,651	\$84,942	\$244,946	\$224,298	\$6,146	\$1,619,982	\$2,612,268
Eastlake***	NON-MEMBER				\$0	\$59,832	NON-MEMBER				\$0	\$0	\$0
Fairport Harbor***	\$174,233	\$21,393	\$28,077	\$25,048	\$9,913	\$258,663	Level 1*			\$21,125	\$0	\$21,125	\$279,788
Grand River	\$35,839	\$4,457	\$5,834	\$5,249	\$2,073	\$53,451	\$31,540	\$54,720	\$0	\$4,138	\$0	\$90,398	\$143,849
Kirtland	\$318,077	\$37,249	\$49,003	\$44,692	\$17,105	\$466,125	\$136,646	\$91,248	\$0	\$100,000	\$0	\$327,894	\$794,019
Kirtland Hills	\$17,353	\$3,116	\$4,079	\$3,717	\$1,466	\$29,731	\$51,486	\$0	\$33,020	\$915	\$0	\$85,421	\$115,152
Lakeline	NON-MEMBER	\$865	\$1,132	\$1,013	\$415	\$3,424	NON-MEMBER	\$0	\$0	\$0	\$0	\$0	\$3,424
Leroy Township****	\$15,864	NON-MEMBER				\$15,864	\$21,979	NON-MEMBER				\$21,979	\$37,843
Madison Township	\$689,816	\$93,802	\$124,889	\$108,788	\$43,156	\$1,060,451	\$934,834	\$452,738	\$603,692	\$168,758	\$15,857	\$2,175,879	\$3,236,330
Madison Village	NON-MEMBER		\$26,295	\$24,963	\$9,360	\$60,618	NON-MEMBER		\$8,407	\$400	\$2,899	\$11,706	\$72,324
Mentor-on-the-Lake	\$284,682	\$34,614	\$45,169	\$41,358	\$16,329	\$422,152	\$447,575	\$27,840	\$357,927	\$51,442	\$0	\$884,784	\$1,306,936
Painesville***	\$568,388	\$98,909	\$129,668	\$118,175	\$48,768	\$963,909	Level 1*			\$58,942.82	\$0.00	\$58,943	\$1,022,852
Painesville Township	\$931,811	\$112,578	\$147,627	\$134,140	\$53,811	\$1,379,967	\$1,552,148	\$482,891	\$637,879	\$193,547	\$132,079	\$2,998,544	\$4,378,510
Perry Township	\$38,209	NON-MEMBER				\$38,209	\$2,442	NON-MEMBER				\$2,442	\$40,651
Perry Village	\$113,565	\$14,181	\$18,749	\$17,087	\$6,701	\$170,284	\$106,113	\$56,653	\$42,485	\$48,882	\$2,141	\$256,273	\$426,558
Timberlake	\$21,062	\$2,541	\$3,315	\$3,021	\$1,191	\$31,131	\$88,860	\$0	\$0	\$0	\$0	\$88,860	\$119,991
Wickliffe	\$488,756	NON-MEMBER				\$488,756	NON-MEMBER					\$0	\$488,756
Willoughby***	NON-MEMBER			\$0	\$90,092	\$90,092	NON-MEMBER			\$0	\$0	\$0	\$90,092
Willoughby Hills	\$412,842	\$60,343	\$78,592	\$72,109	\$28,506	\$652,391	\$386,320	\$22,587	\$335,098	\$100,576	\$22,462	\$867,044	\$1,519,435
Willowick	\$382,984	\$67,851	\$88,865	\$81,115	\$31,965	\$652,781	\$743,728	\$125,000	\$66,250	\$249,964	\$0	\$1,184,943	\$1,837,723
Grand Total	\$5,143,614	\$637,270	\$863,854	\$783,705	\$461,675	\$7,830,285	\$5,563,321	\$1,398,619	\$2,329,704	\$1,222,988	\$181,584	\$10,696,216	\$18,526,501

Expense Analysis



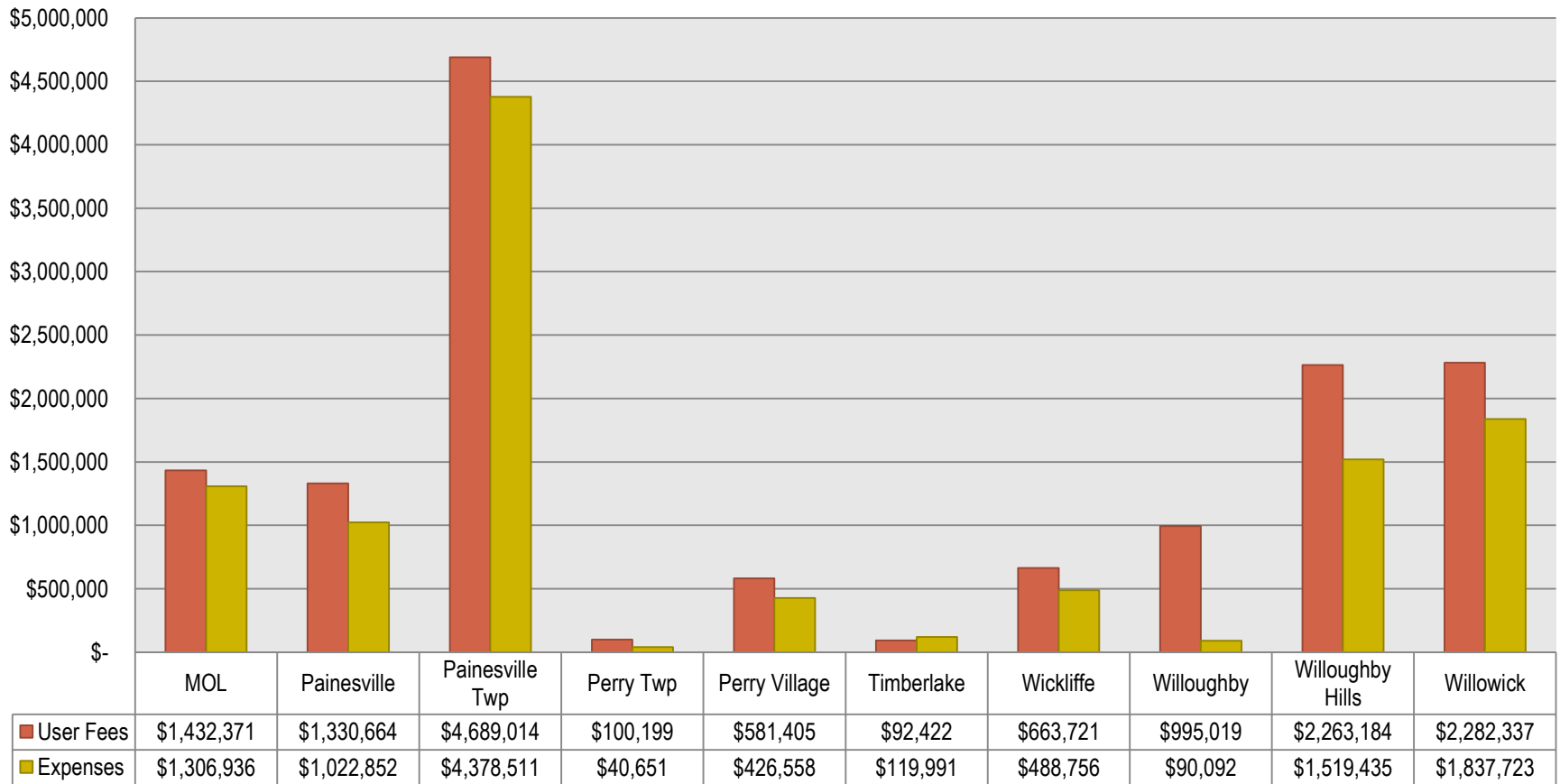
Community Expense Analysis 2004-2015



Expense Analysis



Community Expense Analysis 2004-2015



How is the Rate Determined?



- From 2003-2012 Rate \$2.50 per month per ERU
- 2013-2014 Rate was cut to \$1.25 per month per ERU
- 2015-Current Rate is \$3.50 per month per ERU
- Rate Analysis

Rate Analysis



Stormwater Communities Estimated Project Costs

Community	ERU's	Estimated Project Costs
City of Eastlake	14,975	\$20,000,000.00
City of Kirtland	4,635	\$3,000,000.00
City of Mentor on the Lake	4,289	\$6,664,500.00
City of Painesville	10,447	\$4,250,000.00
City of Willoughby Hills	7,478	\$3,856,511.00
City of Willoughby	20,845	\$15,000,000.00
City of Willowick	8,412	\$19,042,500.00
Township of Concord	10,702	\$4,250,000.00
Township of Madison	11,282	\$10,000,000.00

Rate Analysis



Stormwater Communities Estimated Project Costs

Township of Painesville	13,911	\$8,350,000.00
Village of Fairport Harbor	2,598	\$4,750,000.00
Village of Grand River	544	\$1,250,000.00
Village of Kirtland Hills	385	
Village of Lakeline	105	
Village of Madison	2,589	\$5,075,000.00
Village of Perry	1,772	\$2,500,000.00
Village of Timberlake	313	\$4,805,400.00
TOTALS	115282	\$112,793,911.00

Rate Analysis



- **Lake County Stormwater Department Rate Analysis Worksheet**
-
- Total ERU's from Member Communities _____ 115,282
- Total Construction Cost _____ **\$112,793,911**
- **Dollars per year needed to complete construction projects:**
- (Total Construction Cost divided by number of Years):
- 25 years \$4,511,756
- 30 years \$3,759,797
- 40 years \$2,819,847
- 50 years \$2,255,878
- **Ten (10) year average for Administration Costs and Regulatory Compliance: \$589,619**
- **Additional expenses (Additional Communities and Regulatory Requirements:**
\$125,000
-
- **\$714,619**
- **Use \$750,000 for Administration Costs and Regulatory Compliance**

Rate Analysis



Years to complete Projects	Capital Budget	Administration Cost and Regulatory Compliance	Income Required
25	\$4,511,756	\$750,000	\$5,261,756
30	\$3,759,797	\$750,000	\$4,509,797
40	\$2,819,847	\$750,000	\$3,569,847
50	\$2,255,878	\$750,000	\$3,005,878

Income vs. Expense to complete

Cost/ERU		Revenue Generated	Less ADM @750,000	Years to complete list
Monthly	Yearly			
\$2.50	\$30	\$3,458,460	\$2,708,460	41.6
\$3.00	\$36	\$4,150,260	\$3,400,260	33.7
\$3.33	\$40	\$4,611,400	\$3,861,400	29.21
\$3.50	\$42	\$4,841,844	\$4,091,844	27.56
\$3.75	\$45	\$5,187,825	\$4,437,825	25.41

Rate Analysis



- Rate Analysis submitted to our 7 member Advisory Board
- Advisory Board made recommendation to the Board of County Commissioners
- Ultimately the Board of Commissioners Agreed-Passed unanimously

Completed Projects



- Kellogg Creek Stream Restoration
- Overlook Road Storm Sewer Replacement
- Red Bird Road Storm Sewer Improvement
- Quail Hollow Subdivision Forebay
- East 322nd Street Outfall

Completed Projects



- Lake County Administration Building Parking Lot Retrofit
- Concord Township Service Garage Retrofit
- Arcola Creek Watershed Study with USACE
- Over **\$11,000,000** in Completed Projects

Contacts and Questions ?



Stormwater Management Department

Lake County Engineer

James R. Gills, P.E., P.S.
550 Blackbrook Road
Painesville, OH, 44077

440-350-2770

James.Gills@lakecountyohio.gov

Lake County Stormwater
Management Department

Timothy A. Miller, MPA, CMS4S
125 East Erie Street
Painesville, OH 44077

440-350-5900

Tim.Miller@lakecountyohio.gov

