

Village of Downers Grove

Stormwater Utility Study



Stormwater Recommendations
October 18, 2011

Agenda

- I. Study Overview
- II. Recommendations



Timeline

- Workshop #1 – Background / Overview / Policy (August 2, 2011)
- Workshop #2 – Level of Service and Magnitude of Fee (September 13, 2011)
- Workshop #3 – Stormwater Fee Analysis and Credits (October 4th, 2011)
- **Workshop #4 – Recommendations (October 18th 2011)**

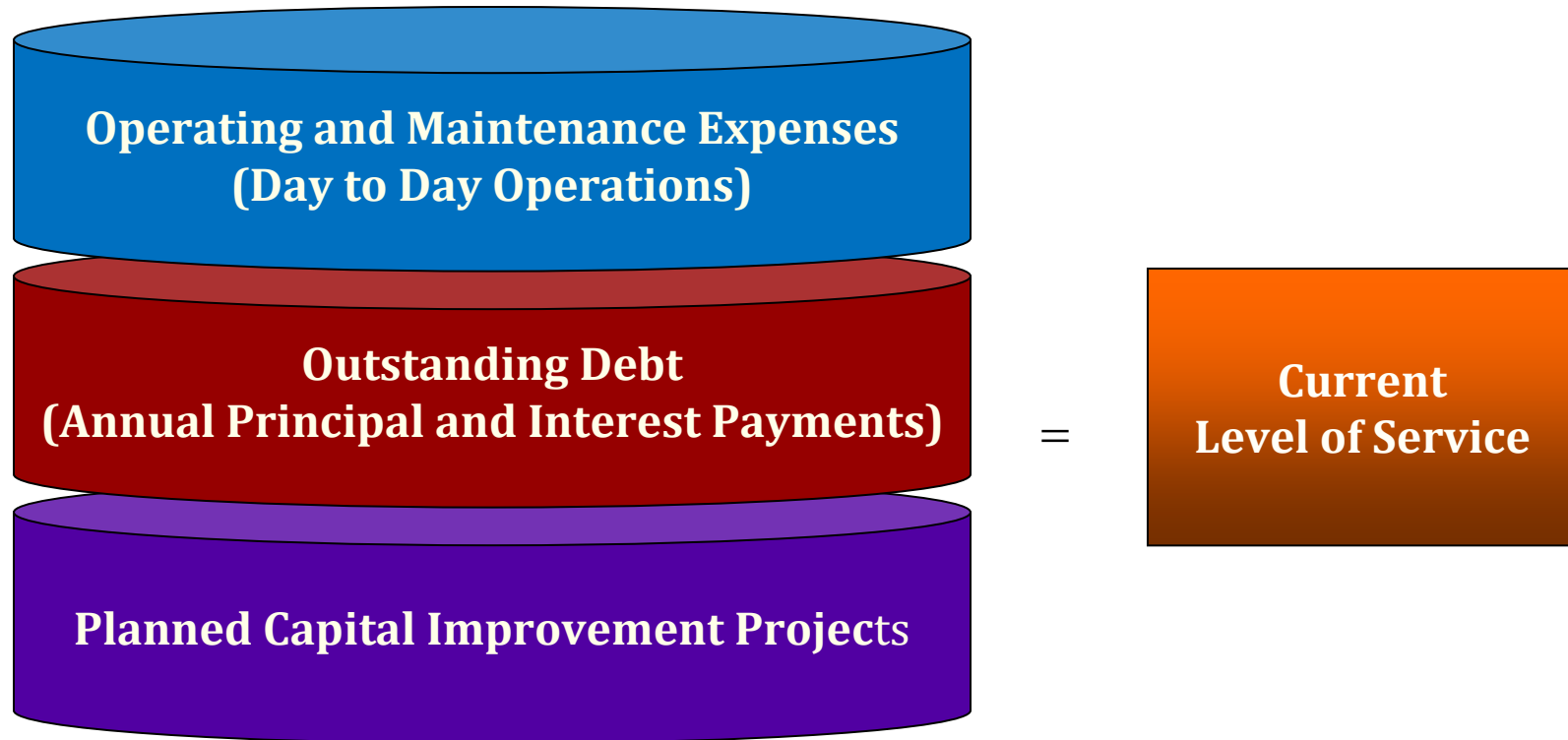
Stormwater Study Overview

Village Stormwater System

- Three major watersheds
 - 11 miles of streams
- 2/3 of the Village is drained by storm sewers
 - 130 miles of storm sewers
 - 7,000 drainage structures
- 1/3 of the Village is drained by ditches
 - 140 miles of ditches
 - 47,000 feet of culverts
- 315 stormwater storage facilities



Level of Service



Current Level of Service

	FY 13	FY 14	FY 15	FY 16	FY 17
Operating and Maintenance	\$1,659,200	\$1,715,700	\$1,774,200	\$1,834,700	\$1,897,300
Existing Debt	\$1,147,100	\$1,144,800	\$1,146,200	\$1,146,100	\$1,145,400
Capital Maintenance & Replacement*	\$552,500	\$797,700	\$1,185,000	\$1,715,000	\$1,000,000
Total	\$3,358,800	\$3,658,200	\$4,105,400	\$4,695,800	\$4,042,700

*Stormwater mains on 220 year replacement cycle

Recommended Level of Service

	FY 13	FY 14	FY 15	FY 16	FY 17
Current Level of Service	\$3,358,700	\$3,658,200	\$4,105,400	\$4,695,800	\$4,042,600
Recommended Incremental O&M*	\$1,884,100	\$1,886,700	\$1,940,000	\$1,994,800	\$2,051,200
Recommended Incremental Capital**	\$516,100	\$516,100	\$969,600	\$969,600	\$1,007,700
Total	\$5,758,900	\$6,061,000	\$7,015,000	\$7,660,200	\$7,101,500

*O&M expenditures as recommended in the Stormwater Masterplan

**Stormwater mains on 100 year replacement cycle and funds watershed improvement projects

Current Revenues

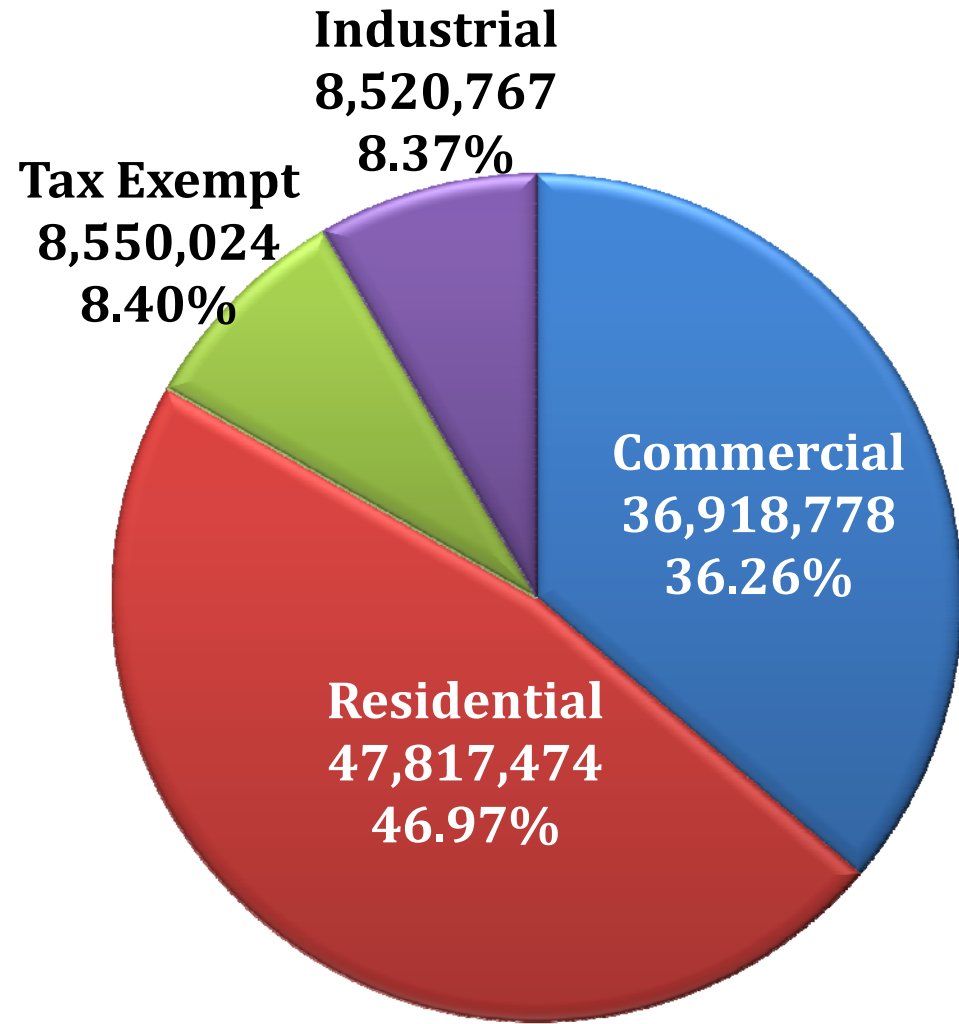
Source of Revenues	2013
General Fund	\$815,202
Developer Contribution	\$50,000
Property Tax Levy for 2008 Bonds Repayment	\$1,147,050
Property Tax Levy for Stormwater Maintenance	\$511,565
Total Revenues	\$2,523,817

Funding Gap Analysis

	FY 13	FY 14	FY 15	FY 16	FY 17
Total Current Revenues	\$2,523,800	\$2,550,100	\$2,580,900	\$2,611,300	\$2,642,200
Current Level of Service	\$3,358,700	\$3,658,200	\$4,105,400	\$4,695,800	\$4,042,600
Funding Gap	(\$834,900)	(\$1,108,100)	(\$1,524,500)	(\$2,084,500)	(\$1,400,400)
Recommended Level of Service	\$5,758,900	\$6,061,100	\$7,015,000	\$7,660,200	\$7,101,500
Funding Gap	(\$3,235,100)	(\$3,511,000)	(\$4,434,100)	(\$5,048,900)	(\$4,459,300)

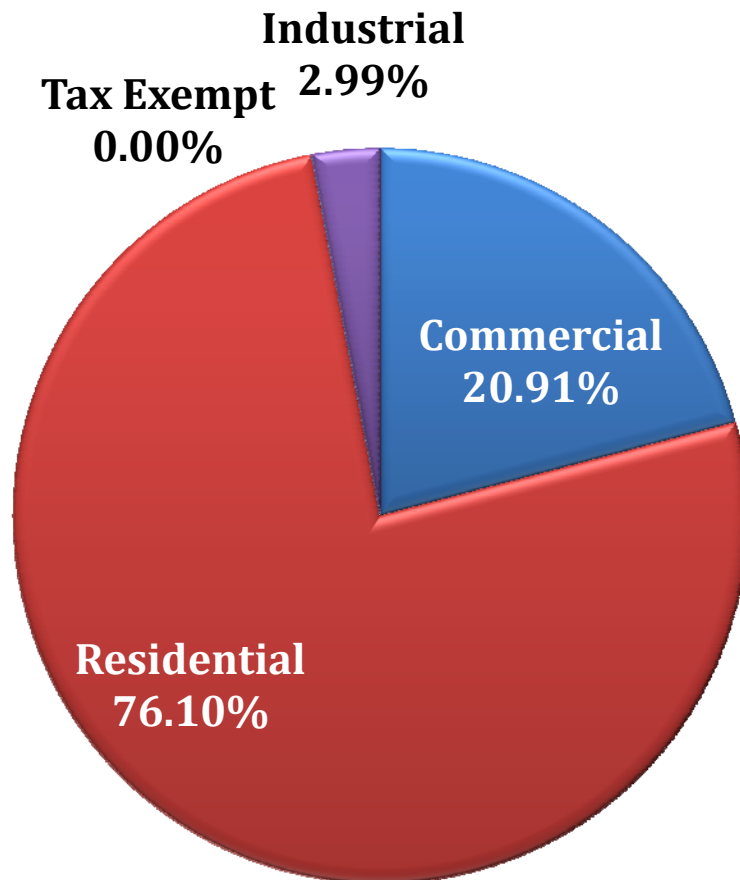
Rate Base - Impervious Area (Sq. Ft.)

- Industry best practice
- Relates directly to runoff and demand on system.
- Impervious area is readily available for all parcels in Village

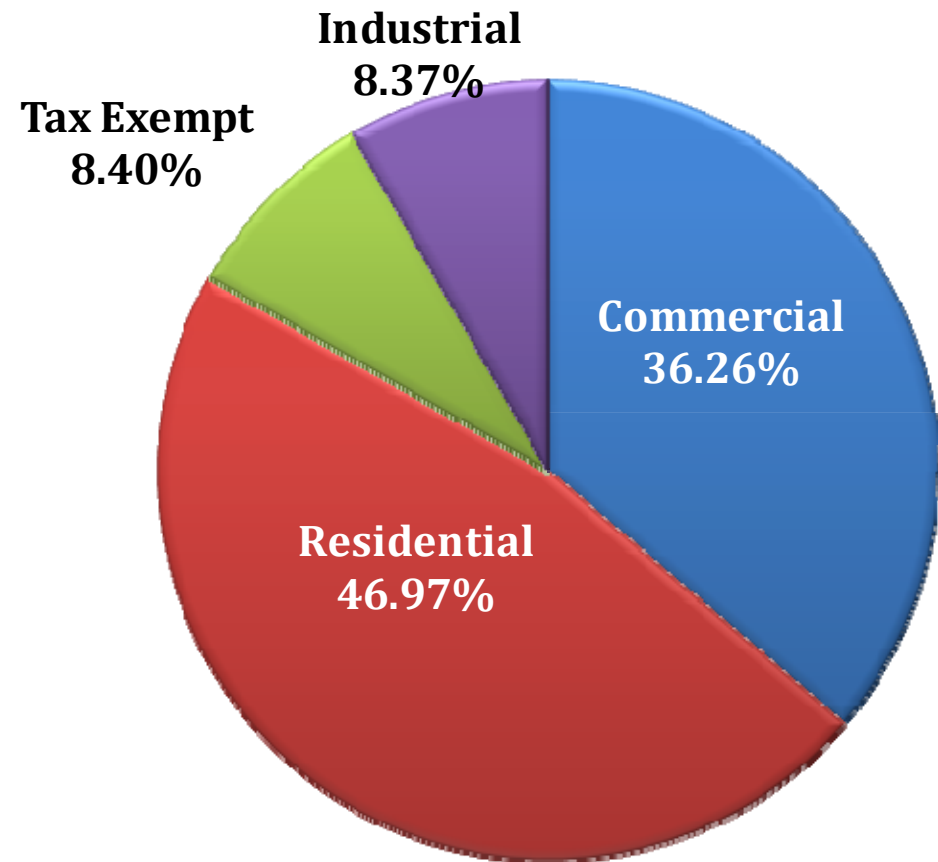


Current Revenues vs. Impervious Area

Tax Revenue Allocation



Impervious Area by Class



76% of property tax revenues for stormwater come from residential properties but these properties only represent 47% of impervious area

Recommendations

Recommendation: Stormwater Utility

The Village should implement a stormwater utility and a stormwater fee.

➤ A stormwater utility and fee will provide:

- **Improved Equity**
- **Fiscal Accountability**
- **Dependable Revenue Stream**
- **Increased Public Awareness**

Recommendation: Fee Structure

The Village should implement a stormwater fee using impervious area and based on Equivalent Runoff Units (ERUs).

Single Family Residential (Tiered ERUs)

	Small	Medium	Large
Impervious	1 - 2,500 Sq. Ft.	2,501 - 4,000 Sq. Ft.	4,001 - 7,000 Sq. Ft.
ERU's	0.75	1.00	1.50

Non-Single Family Residential (Actual ERUs)

	Actual Impervious Area Parcel by Parcel
Multiple of ERU's	3,300 Sq. Ft.

Recommendation: Administration

The Village should assess the stormwater fee on all properties in the Village (no exemptions) and offer credits for on-site stormwater management.

- A well designed credit program should:
- Focus on offering credits to properties that have the opportunity to actually reduce stormwater impact.
 - Limit the complexity of the program (at least initially).
 - Reductions in revenue result the need for increased fees.

Recommendation: Funding Level

The Village should fund the current level of service in 2013.

➤ Recommended funding approach:

- Reduce property taxes to fund only 2008 debt service.
- Implement a stormwater fee that funds the remaining balance of the current level of service in 2013.

Recommendation: Funding Approach

	Current Revenues 2013	Proposed Revenues 2013
General Fund	\$815,202	-
Developer Contribution	\$50,000	\$50,000
Property Tax Levy for 2008 Bonds Repayment	\$1,147,050	\$1,147,050
Property Tax Levy for Stormwater Maintenance	\$511,565	-
Stormwater Fee	-	\$2,361,651
Total	\$2,523,817	\$3,558,701

- Results in a reduction in property taxes of \$1.33 million in 2013

Recommendation: Stormwater Fees

The Village should adopt a monthly stormwater fee beginning in 2013.

Single Family Residential	2013
Tier 1: (1 – 2,500 sq. ft.)	\$4.20
Tier 2: (2,501 – 4,000 sq. ft.)	\$5.60
Tier 3: (4,001 – 7,000 sq. ft.)	\$8.40

Non-SFR	2013
Per ERU (3,300 sq. ft.)	\$5.60

Monthly Property Owner Impact

Property Type	Number of ERU	Assumed Credit	2013 Monthly Stormwater Fee
SFR - Small	0.75	-	\$4.20
SFR - Medium	1.0	-	\$5.60
SFR - Large	1.5	-	\$8.40
Average Church	18	-	\$100.80
Hospital	235	50%	\$658.00
University	278	50%	\$778.40
Big Box Retail	139	-	\$778.40
Strip Mall	100	-	\$560.00
Average Commercial	20	-	\$112.00

Residential Sample Tier 1

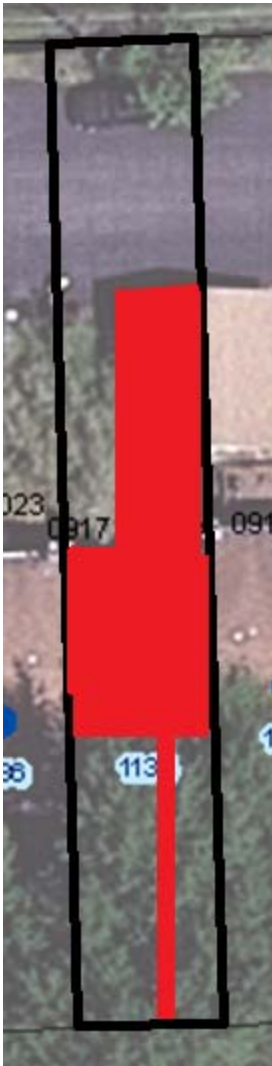


Total Impervious Area: 1,724 Sq. Ft.

1,724 sq. ft. → 0.75 ERUs

Monthly Stormwater Fee - \$4.20

Residential Sample Tier 1

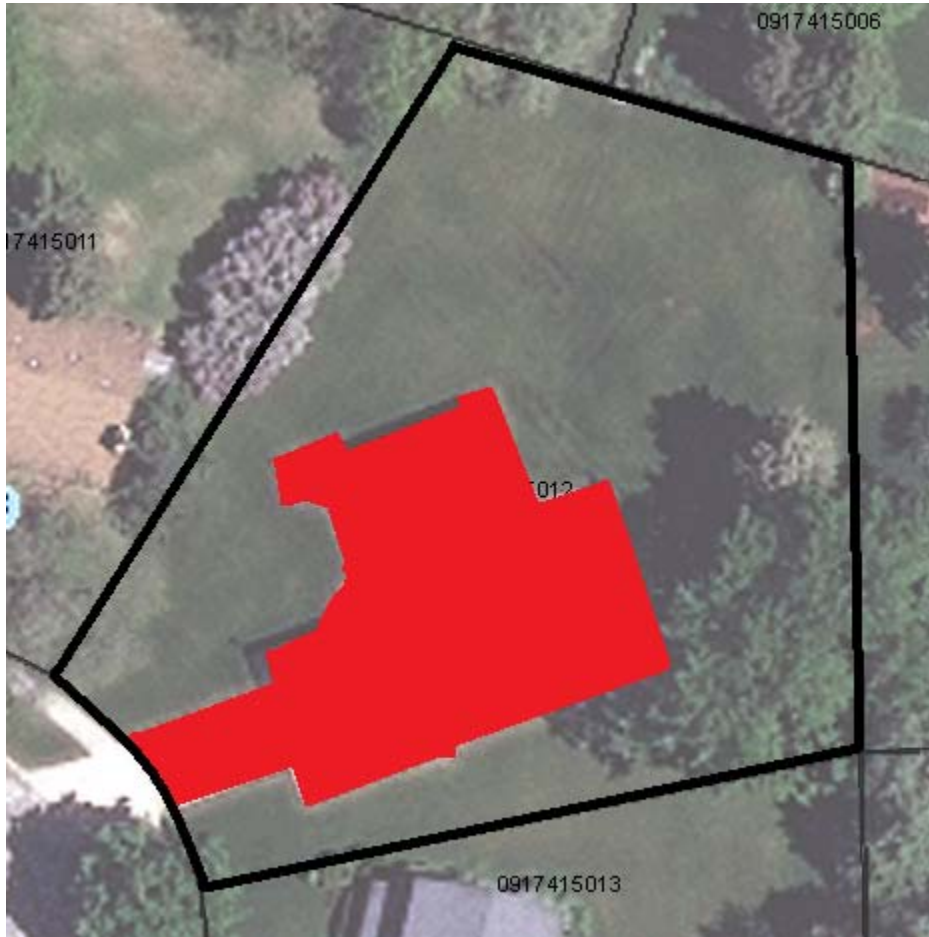


Total Impervious Area: 1,712 Sq. Ft.

1,712 sq. ft. → 0.75 ERUs

Monthly Stormwater Fee - \$4.20

Residential Sample Tier 2

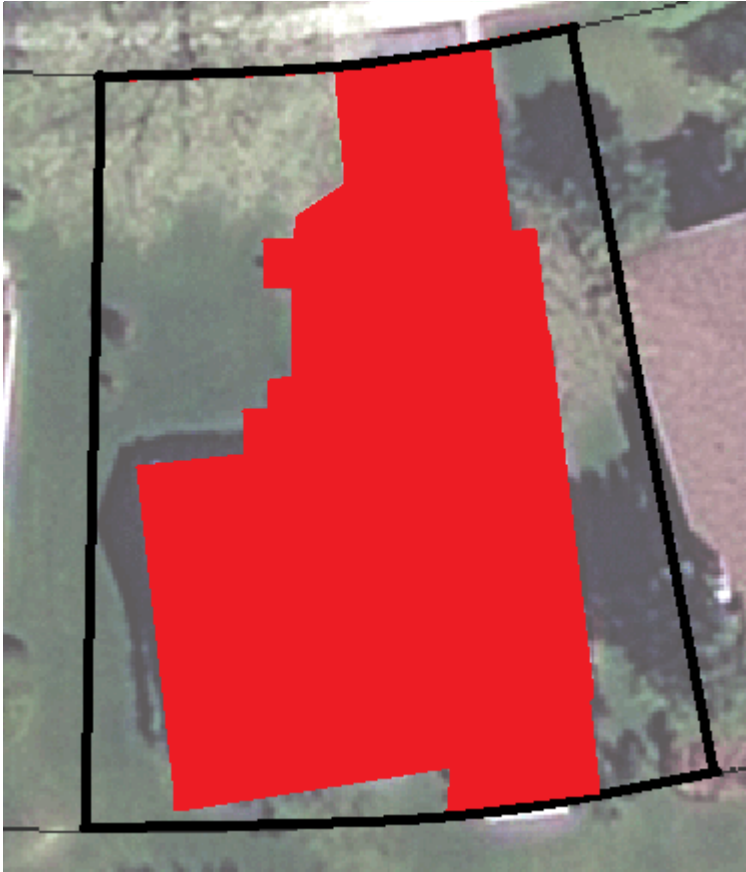


Total Impervious Area: 3,240 Sq. Ft.

3,240 sq. ft. → 1.00 ERUs

Monthly Stormwater Fee - \$5.60

Residential Sample Tier 2

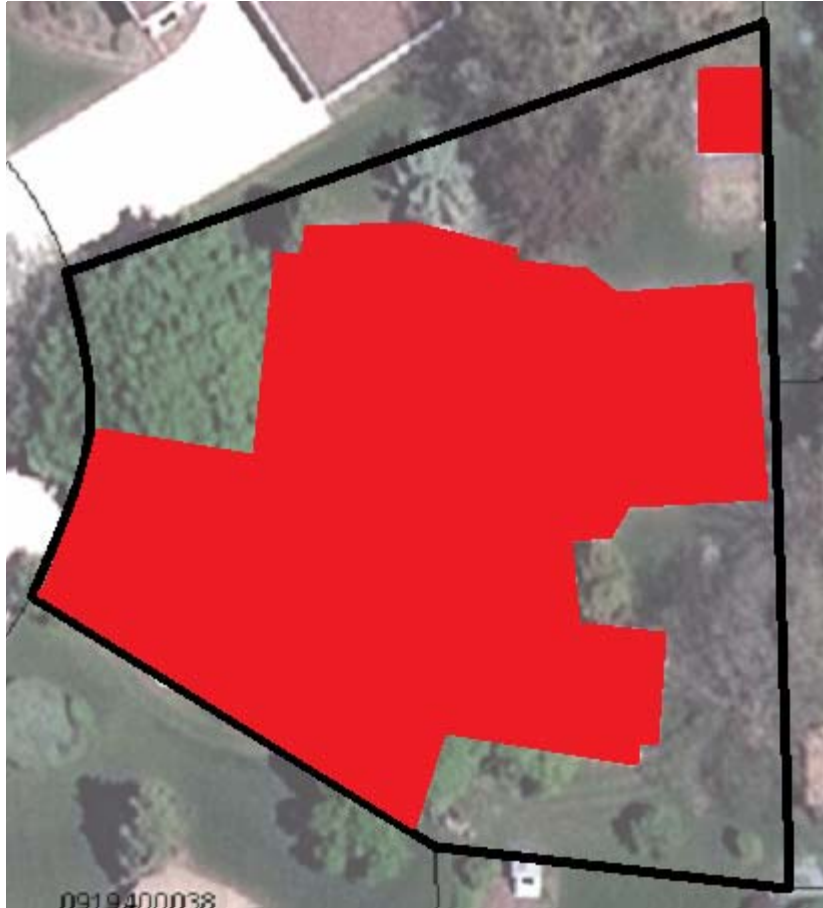


Total Impervious Area: 3,214 Sq. Ft.

3,214 sq. ft. → 1.00 ERUs

Monthly Stormwater Fee - \$5.60

Residential Sample Tier 3



Total Impervious Area: 5,072 Sq. Ft.

5,072 sq. ft. → 1.50 ERUs

Monthly Stormwater Fee - \$8.40

Residential Sample Tier 3



Total Impervious Area: 5,086 Sq. Ft.

5,086 sq. ft. → 1.50 ERUs

Monthly Stormwater Fee - \$8.40

Recommendation: Long-term Funding

The Village should increase funding for the stormwater system over time to provide the recommended level of service.

➤ Recommended long-term plan:

- Increase the stormwater fee annually at a level to reach the recommended level of service by 2022 (ten-year phase-in)
- Will require annual increases in of the stormwater fee of approximately 17%

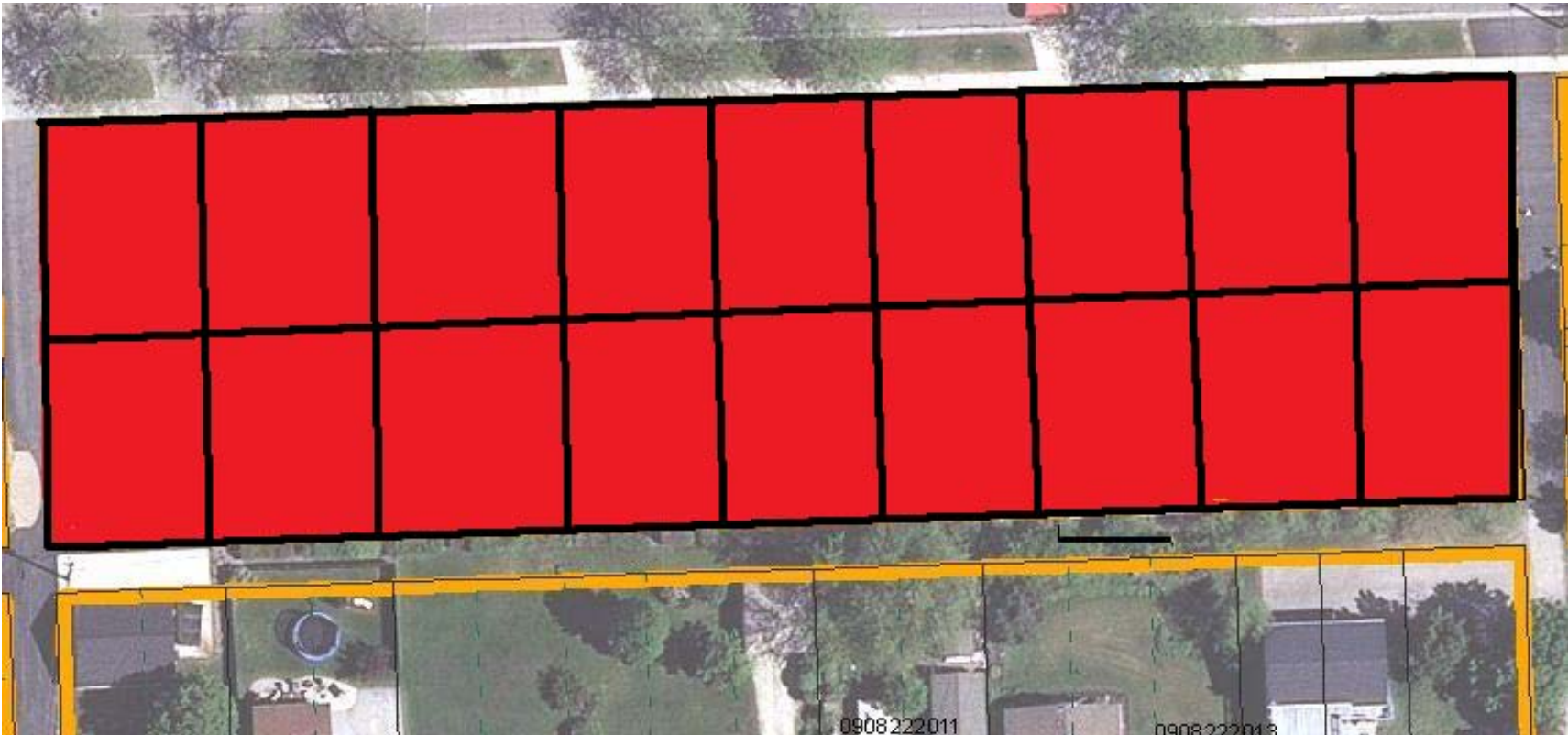
Summary

The implementation of the recommendations will:

- Bring the level of funding for stormwater up to the current level of service in 2013
- Reduce the property tax levy by \$1.33 million
- Begin addressing the inequity of the current funding approach
- Put in place a stormwater fee that will generate \$2.4 million in revenues dedicated to stormwater
- Maintains source of funding for existing debt service
- Encourage on-site stormwater management

Questions / Discussion

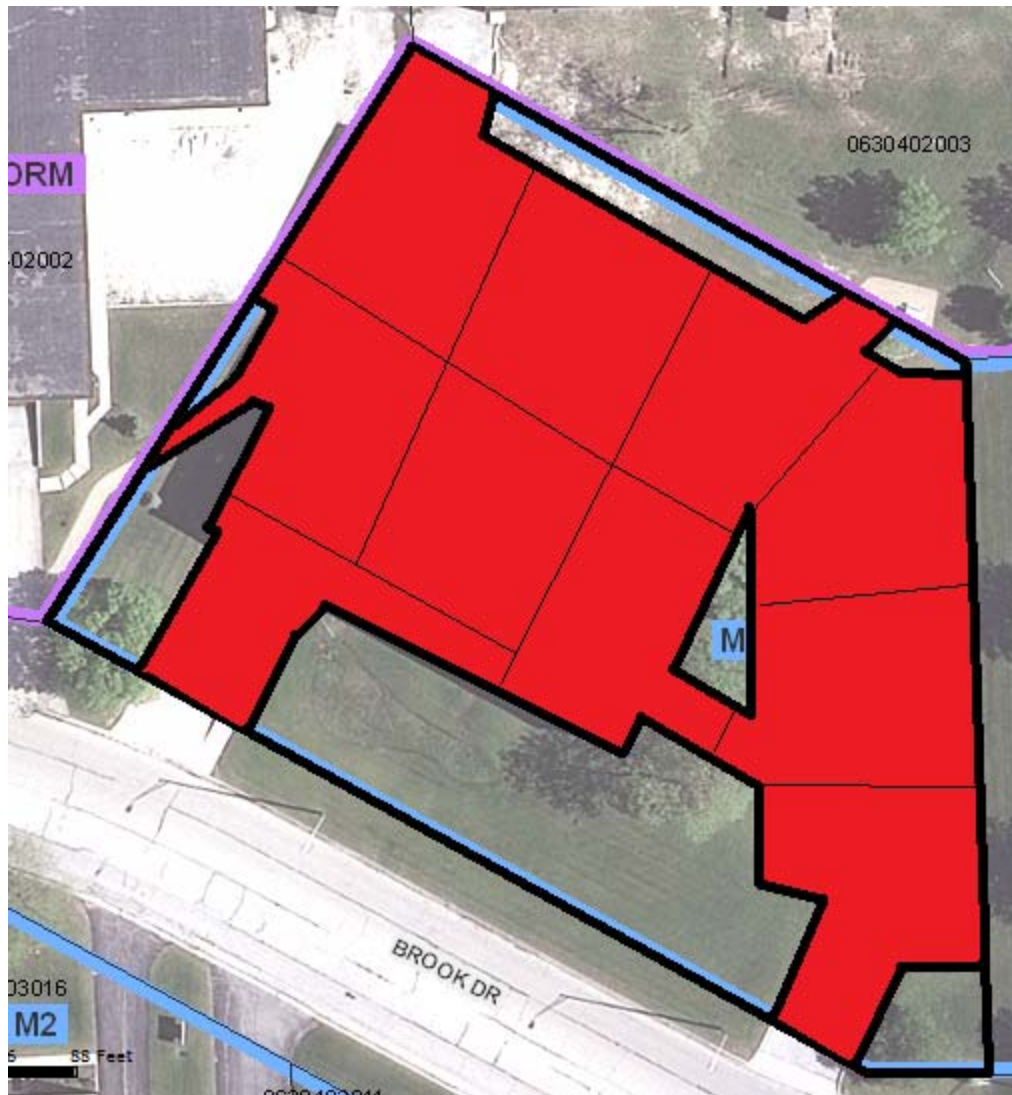
Non-Residential Sample



Total Impervious = 59,000 square feet (18 ERU's)

Monthly Stormwater Fee = \$100.80

Non-Residential Sample



Total Impervious = 32,500 sq. ft.
(10 ERU's)

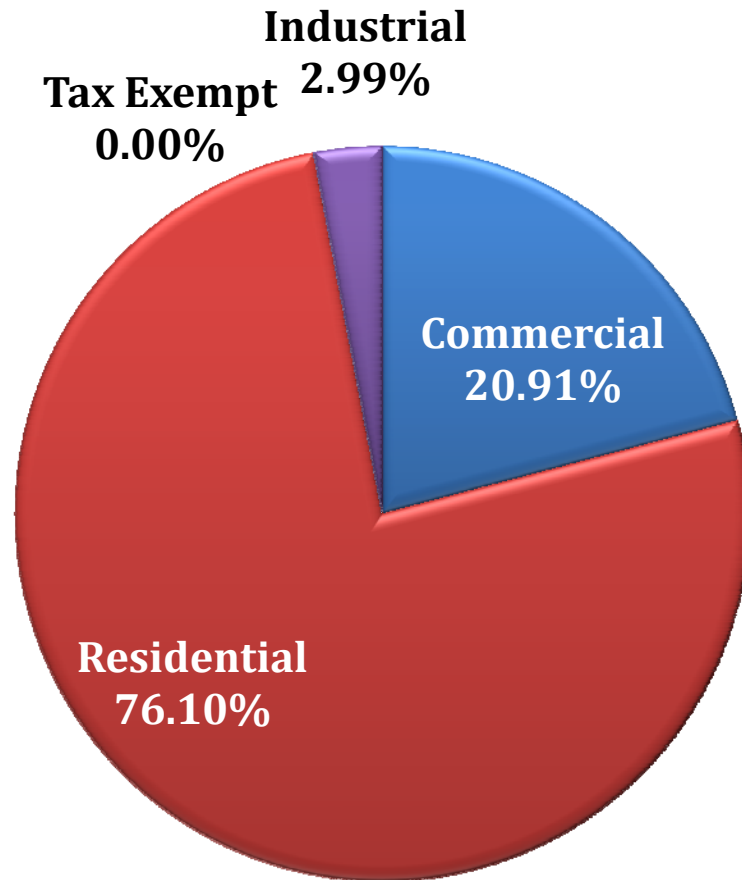
Monthly Stormwater Fee = \$56

Monthly Stormwater Fee Example: School Districts

	Number of ERU's	2013
School District No. 58	363	\$1,423.74
School District No. 99	343	\$1,344.56

Current Revenues vs. 2013 Revenues

Tax Revenue Allocation



2013 Revenue Allocation

