

Marion County Stormwater Credit

The stormwater fee is made up of two types of charges: the base charge and the impervious surface area charge. The base charge is \$2.55 for every non-vacant parcel within the East Salem Service District (ESSD). The impervious surface area (ISA) charge is \$2 for each “equivalent dwelling unit” (EDU) of impervious surface. An EDU is based on the average square footage of a single-family residential property within the ESSD, which is 3,000 ft². To understand why impervious surface is a factor in stormwater management and billing, please refer to our “Answers to Frequently Asked Questions” document on our website (MCcleanwater.net).

Stormwater Facility Performance Values

A performance value has been assigned to different stormwater facilities based on an assessment of the ability of the facility to remove pollutants and/or lower peak stormwater discharge rates. The performance values are based on best professional judgment using information drawn from published literature and stormwater rate reduction programs used by other jurisdictions. The actual effectiveness of a facility depends on many factors, including targeted performance standards, design and construction standards, status of ongoing maintenance, size of the storm event, and influent pollutant concentrations during the event. Most facilities have been assigned performance variables as complete (100 percent), high (75 percent), medium (50 percent), low (25 percent), or none (0 percent) to reflect the facility’s ability to mitigate high flows and/or reduce pollutant concentrations. The table below shows currently assigned performance values, which are subject to change as additional information becomes available.

2016-17 Table of Assigned Performance Values for Stormwater Facilities

Type of Facility	Assigned Performance Values	
	Stormwater Quantity	Stormwater Quality
Rain Garden/Bioretention, Infiltration	75 %	75%
Wetland, Constructed Stormwater Treatment	50%	75%
Stormwater Planters, Infiltration	75%	75%
Willamette River discharge point via a private stormwater conveyance system (with treatment prior	100%	0%
Ecoroof/Green Roof	25%	75%
Infiltration Trench without Underdrain	50%	50%
Dry Wells	50%	25%
Vegetated Swale	25%	50%
Rain Garden/Bioretention, Filtration	25%	75%
Stormwater Planters, Filtration	25%	75%
Vegetated Filter Strip	25%	50%
Proprietary Treatment, such as media filter vaults	0%	75%
Detention Vault/Pipe	25%	0%
Detention Pond/Basin	25%	0%
Wet Pond	25%	25%
Infiltration Trench with Underdrain	25%	50%
Oil/Water Separator (Pretreatment)	0%	10%
Hydrodynamic Separator (Pretreatment)	0%	10%

The portion of the impervious surface charge that directly supports the costs of the county’s stormwater quantity-related programs is 44 percent. The portion of the impervious surface charge that directly supports the costs of the county’s stormwater quality-related programs is 31 percent. Using this information and the performance values provided in the table, the following examples show how the stormwater credit is calculated.

Illustrative Examples for Stormwater Rate Credits

Property Owner Name	Big-O Discount Store
Total Impervious Surface Area (ISA)	250,000 ft ²
Total # of EDUs (<i>1 EDU = 3,000 ft²</i>)	83.3
Base Fee (<i>\$2.55 per parcel</i>)	\$2.55
ISA Fee (<i>\$2 per EDU</i>)	\$166.60
ISA Credit	\$0.00
Monthly Bill Amount	\$166.60
Annual Bill Amount	\$1,999.20

Big-O Discount Store has 250,000 ft² of impervious surface on their parcel. They direct drainage from 90,000 square feet of impervious surface to a detention pond. From the table below we see that the performance value assigned to this type of stormwater facility is 25 percent for quantity and 0 percent for quality. The stormwater rate credit for the facility is, therefore:

- **Quantity Credit:** 90,000 ft² (impervious surface) × 25 percent (performance value) × 44 percent (direct costs) = 9,900 ft²
- **Quality Credit:** 90,000 ft² (impervious surface) × 0 percent (performance value) × 31 percent (direct costs) = 0 ft²
- **Total Credit Area:** 9,900 ft² (quantity credit) + 0 ft² (quality credit) = 9,900 ft²
Convert area to EDUs: 9,900 ft² ÷ 3,000 ft²/ EDU = 3.3 EDU

Using a stormwater rate of \$2 per month for each EDU, the resulting rate credit would be: 3.3 EDU × \$2/EDU per month = \$6.60 per month (\$79.20/year) rate reduction.

Property Owner Name	Big-O Discount Store
ISA Fee (<i>\$2 per EDU</i>)	\$166.60
ISA Credit (<i>per month</i>)	\$6.60
NEW Monthly Bill Amount	\$160.00
NEW Annual Bill Amount	\$1,920.00

Example with multiple stormwater facilities

Property Owner Name	Big-O Discount Store
Total Impervious Surface Area (ISA)	250,000 ft ²
Total # of EDUs (<i>1 EDU = 3,000 ft²</i>)	83.3
Base Fee (<i>\$2.55 per parcel</i>)	\$2.55
ISA Fee (<i>\$2 per EDU</i>)	\$166.60
ISA Credit	\$0.00
Monthly Bill Amount	\$166.60
Annual Bill Amount	\$1,999.20

Big-O Discount Store constructs a vegetated bioswale in series with the detention pond. Now this customer will be eligible for additional credits because of the combined treatment and flow control benefits.

The performance value for the combined facilities is 25 percent (bioswale) + 25 percent (detention pond) equaling 50 percent for quantity and 0 percent (detention pond) + 50 percent (bioswale) equaling 50 percent for quality.

- **Quantity Credit:** $90,000 \text{ ft}^2 \text{ (impervious surface)} \times 50 \text{ percent (combined performance value)} \times 44 \text{ percent (direct costs)} = 19,800 \text{ ft}^2$
- **Quality Credit:** $90,000 \text{ ft}^2 \text{ (impervious surface)} \times 50 \text{ percent (combined performance value)} \times 31 \text{ percent (direct costs)} = 13,950 \text{ ft}^2$
- **Total Credit Area:** $19,800 \text{ ft}^2 + 13,950 \text{ ft}^2 = 33,750 \text{ ft}^2$
Convert area to EDUs: $33,750 \text{ ft}^2 \div 3,000 \text{ ft}^2/\text{EDU} = 11.25 \text{ EDU}$

Using a stormwater rate of \$2 per month for each EDU, the resulting rate credit would be: $11.25 \text{ EDU} \times \$2/\text{EDU per month} = \$22.50 \text{ per month } (\$270/\text{year}) \text{ rate reduction.}$

Property Owner Name	Big-O Discount Store
ISA Fee (<i>\$2 per EDU</i>)	\$166.60
ISA Credit (<i>per month</i>)	\$22.50
NEW Monthly Bill Amount	\$144.10
NEW Annual Bill Amount	\$1,729.20

For more information regarding the stormwater credit, please contact:

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