

CITY OF ST. CLAIR SHORES GREEN INFRASTRUCTURE PROJECT

March 2014

Grant Program

The City of St. Clair Shores Department of Public Works has been awarded a \$250,000 grant from the U.S. EPA Great Lakes Restoration Initiative (GLRI) Great Lakes Shoreline Cities Green Infrastructure program. Green infrastructure projects use vegetation, soil, and natural processes to hold and filter rain water and melting snow to prevent contamination from reaching surface water and groundwater resources. The City partnered with Environmental Consulting and Technology, Inc. to create this project plan. The project will require a local 50/50 match of \$250,000.

Green Infrastructure Project

The project will replace a dirt and gravel parking lot with a 21,000 sq ft porous pavement parking lot with 3,000 sq ft of rain gardens. Combined, this green infrastructure will be capable of capturing and treating up to 100,000 gallons of rain runoff from each storm event. This capacity is enough to treat the rain runoff produced from 90% of our rain storm events. The gravel area currently drains directly to Lake St. Clair through the City's storm sewer system. By capturing and treating the rain runoff onsite in the parking lot and rain gardens the City will reduce the amount of pollutants, including sediments, nutrients (such as fertilizers), and metals, being discharged to Lake St. Clair.

The parking lot is located at Kyte Monroe Park, which is one of the City's most heavily used parks and recreational complexes in the City. Construction is scheduled to begin Spring of 2015.

"This will be the City's first green infrastructure project and will be a visible sign of our continued efforts and commitment to keeping Lake St. Clair clean. Thank you to the EPA for providing the City with this opportunity to improve our water quality in St. Clair Shores," said Bryan Babcock, PE, Director of Public Works & Water.

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Existing Parking Lot



Example Porous Pavement



Example Rain Garden



Example Rain Garden