

# SUBWATERSHED MANAGEMENT UNIT SUMMARY SHEET

**Subwatershed Management**

**Unit:** Plaster Creek  
**Major Watershed Name:** Direct Drainage to the Grand River  
**Hydrologic Unit Codes:** 040500060505-02, 040500060506-02



**WATERSHED DESCRIPTION:**

<b>Size (acres):</b>	38,600	<b>Land Use (% of total)</b>	
<b>County:</b>	Kent	<i>Agricultural</i>	17%
<b>Cities, Villages &amp; Townships:</b>	Kentwood, East Grand Rapids, Wyoming, Grand Rapids, Ada, Paris, Cascade, Gaines, Caledonia	<i>Forest Land</i>	10%
<b>Critical Area for Restoration:</b>	High	<i>Lakes</i>	0%
<b>Priority Area for Preservation:</b>	Medium	<i>Open Land</i>	2%
<b>Pollutant Loadings</b>		<i>Urban</i>	65%
Sediment (tons/yr)	1,347	<i>Wetlands</i>	6%
Phosphorus (lbs/yr)	16,077		
Nitrogen (lbs/yr)	89,154		

<b>Priority Pollutant</b>	Sediment		
<b>Priority Sources</b>	Cropland	Urban landscapes	Streambanks
<b>Priority Causes</b>	Tillage practices	Impervious surfaces	Altered morphology/hydrology
<b>Trout Streams</b>	#REF!		
<b>Streams with Total Maximum Daily Loads &amp; Dates of Implementation</b>	Plaster Creek, Little Plaster Creek, and Whisky Creek TMDL Sedimentation/Siltation & E. Coli 2002		
<b>Wellhead Protection Area(s)</b>	None		

**PLANS & STUDIES:**

<b>Watershed Management Plan</b>	Plaster Creek/Little
<b>Other Studies</b>	Buck Creek and Plaster Creek Storm Water Management Master Plan (1991), City of Grand Rapids, MI, Storm Water Management Master Plan (1994), Grand Rapids Twp (In Progress), Cascade Twp. Stormwater Management Plan Plaster Creek Storm Water Quality Study (1992), Whiskey Creek (on-going)
<b>MDNRE Surface Water Quality Assessment Surveys</b>	25300, 002980, MI/DEQ/SWQ-01/108
<b>MDNRE Hydrologic Studies</b>	None
<b>Local Water Quality Monitoring / Inventories</b>	Yes, by City of Grand Rapids for many parameters; by WMEAC for macroinvertebrate community; by Municipal Separate Storm Sewer System Permittees for many parameters; by WMEAC Adopt-A-Stream participants for debris removal and stormwater management: Pioneer Construction, Diversco Construction, Kamminga & Roodvoets, Inc., Terhorst & Rinzema Construction, Alger Park CRC, Central Reformed Church, Roosevelt Park CRC, Woodlawn CRC, Grand Rapids Christian High

**WATERSHED PARTNERS:**

<b>Watershed Organization(s)</b>	Plaster Creek Stewards - Calvin College, LGROW
<b>NPDES Municipal Separate Storm Sewer System (MS4) Communities</b>	Cascade Twp., East Grand Rapids, Grand Rapids, Grand Rapids Twp., Wyoming, Kentwood, Kent County Drain Commissioner, Kent County Road