# State Planning and Research Program Quarterly Report

**PROJECT TITLE**: Geocomposite Capillary Barrier Drain (GCBD)

#### **OBJECTIVES**:

Monitor, collect data, and begin initial analysis of data from the sensors of the GCBD Research project at the MnROAD site.

4<sup>th</sup> Quarter 2007 Report (October-December, 2007)

**PERIOD COVERED**: October-December, 2007

PARTICIPATING AGENCIES: Minnesota Department Of Transportation, Michigan Department Of

Transportation, New York Department Of Transportation, CRREL, University of New Mexico

PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Andrew Eller	TPF 5(126)	
		Planning
LEAD AGENCY:		X Research & Developmen
Minnesota Dept. of Transportation		
PRINCIPAL INVESTIGATOR:		
John Stormont, Karen Henry		
ANNUAL BUDGET:	DDAIECT EVDENDITIED	FS TO DATE: \$222 600 82
A majority of the budget covered the 2006	PROJECT EXPENDITURES TO DATE: \$222,699.83 Construction	
construction. Year two will be significantly	HardDrives Inc.	179,244.20
less.	HardDrives inc.	179,244.20
	Supplies/Instrumentation	
$1^{\text{st}}$ year ~ 225,000	Tenex (geonet)	7,763.16
2 <sup>nd</sup> year ~ 30,000	Campbell(sensors)	17,844.59
	Decagon (sensors)	5,705.09
	Misc. equipment./expenses	740.18
	Salaries	
	District 3:Design	5,247.72
	GCBD material prep & assemble (Student worker salary, etc)	•
	T	
	Travel/Misc	C45 04
	MI	645.21
	NY	928.72

#### **WORK COMPLETED:**

Data collection and monitor operation of the sensors. Identify issues with tipping bucket data/operation. Remove tipping buckets for the winter. Begin initial analysis of in-situ sensors and FWD deflection basins.

### SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Monitor operation of TDR, heat dissipation, ECH<sub>2</sub>O, tipping buckets, thermocouples, open standpipes with pressure transducers, and resistivity probes; and collect data for analysis. Check and maintain sensors.

## STATUS AND COMPLETION DATE:

Data collection is ongoing, with completion of data collection and report completed by 7/2008.