

2012 Federal Gas Tax Project Report

Project Name: Ditching, Culvert Replacement, and Surface Treatment

Project Cost: \$136,716

Project Location: Caintown Road and Ballycanoe Road (eastern section)

Project Description: Caintown Rd: Ditching, culvert replacements and realignment, pulverized asphalt, surface treatment applied.

Ballycanoe Rd. Patching, sweeping, road resurfacing.

Rationale: Caintown Rd: The section of asphalt pavement with the worst damage, was removed and replaced with new surface treatment.

Ballycanoe Rd: The road repairs and re-application of surface treatment will extend the useful life of this road.

This project was identified by the Township's road management plan as being at a condition and time in it's lifecycle where resurfacing was necessary to extend the useful life of the road, thereby avoiding total reconstruction. Smooth roads improve fuel economy and reduce vehicle emissions. A 1% improvement in surface roughness will improve fuel economy by 1.5% .

Expected Outputs: Reduced Greenhouse Gas Emissions.

There will be reduced greenhouse gas emissions due to smoother roads.

Other Benefits: Township resources (manpower and equipment) used to patch holes and cracks on a regular basis, can be redirected to other areas.

Outcomes Report:

Traffic Volume:	350 Average per day (estimate)
Pavement Rating (before)	Level 3
Pavement Rating (after)	Level 9
Emissions (before)	358 kg per day
Emissions (after)	340 kg per day
Daily CO2 reduction	17.7 kg per day
Annual CO2 reduction	6450kg per year