



# THE CANADIAN ENVIRONMENTAL TECHNOLOGY VERIFICATION PROGRAM

*Enhancing the Credibility of Environmental Technologies*

## TECHNOLOGY VERIFIED: TYMCO Model DST-4 Dustless Regenerative Air Street Sweeper

### Performance Claim

The TYMCO Model DST-4 Dustless Regenerative Air Street Sweeper was operated according to the vendor's specifications at an average speed of 4.1 km/h in a controlled space where no water or any other liquids were permitted. No water sprays or gutter broom shrouds were used in the testing.

The sweeper was delivered in its optimum balance of dry dustless operational mode while also maximizing the pick-up and removal of test material (mean size of test material is 3 microns).

The final average performance indicators – at the 95% confidence interval – of the TYMCO Model DST-4 Dustless Regenerative Air Street Sweeper are as follows:

1. A removal efficiency of test material from surface of 89% ( $\pm 2.1\%$ );
2. Deposit of test material on sidewalk of 0.06% ( $\pm 0.04\%$ );
3. Maximum concentration of  $PM_{10}$  air contamination of 0.015 ( $\pm 0.005$ )  $mg \cdot m^{-3} \cdot kg^{-1}$ ;
4. Total concentration of  $PM_{10}$  air contamination of 11.0 ( $\pm 2.3$ )  $mg \cdot m^{-3} \cdot kg^{-1}$ ;
5. Maximum concentration of  $PM_{2.5}$  air contamination of 0.011 ( $\pm 0.003$ )  $mg \cdot m^{-3} \cdot kg^{-1}$ ; and
6. Total concentration of  $PM_{2.5}$  air contamination of 7.5 ( $\pm 2.2$ )  $mg \cdot m^{-3} \cdot kg^{-1}$ .

### RENEWAL OF VERIFIED\* PERFORMANCE:

July 2014

**Renewal License Number:** ETV 2014-02

**Issued to:** TYMCO, Inc.

**Expiration Date:** July 31, 2017

**John D. Wiebe, PhD**  
Executive Chairman



Canada

\*Refer to Technology Fact Sheet for additional information on the verification of this performance claim.