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### IMPACT OF BIOSOLID APPLICATION ON PERCOLATED WATER QUALITY

Q. UZ ZAMAN<sup>1</sup>, T.J. ESAU<sup>1</sup>, M.P. ROBERTS<sup>1</sup>, A. MADANI<sup>1</sup>, A.A. FAROOQUE<sup>1</sup>

<sup>1</sup>Q. UZ ZAMAN, Nova Scotia Agricultural College, Canada, Engineering Department, Assistant Professor, qzaman@nsac.ca.

<sup>1</sup>T.J. ESAU, Research Assistant, tesau@nsac.ca.

<sup>1</sup>M.P. ROBERTS, Research Assistant, mproberts@nsac.ca.

<sup>1</sup>A. MADANI, Professor, amadani@nsac.ca.

<sup>1</sup>A.A. FAROOQUE, Graduate Student, farooquea@nsac.ca.

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**ABSTRACT** Application of municipal biosolids as a fertilizer source on agricultural land not only provides essential nutrients to the plants but also improves the physical and chemical properties of soil. An experiment was conducted at the Wild Blueberry Research Institute, Debert, NS to investigate the agronomic and environmental impact of N-Viro (biosolids) application on wild blueberry fields under rainfed and irrigated conditions. There were four treatments (i.e. commercial fertilizer, N-Viro, commercial fertilizer with irrigation, and N-Viro with irrigation) and each treatment was replicated four times. Suction lysimeters were installed at 20 cm and 40 cm depths in each plot and samples of leachate percolated through the soil profile were collected after each irrigation and or rainfall throughout the experiment. Samples were analyzed for the nutrients and heavy metals. The results will be presented in this paper.

**Keywords:** Biosolid, N-Viro, Fertilizer, Nutrients, Irrigation.