



## International Ozone Association

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July 11, 2020

Dr. Gail Krantzberg  
Dr. Zobia Jawed

W Booth School of Engineering Practice  
Engineering and Public Policy Program  
1280 Main Street West  
Hamilton, Ontario, Canada  
L8S 4L7

Dear Dr. Krantzberg and Dr. Jawed,

Thank you for your letter dated June 19, 2020 to the International Ozone Association (IOA), and to your presentation to the Executive Committee of the International Ozone Association on July 9, 2020.

It gives me a great pleasure to confirm that the International Ozone Association decided to support your proposed project for a Wastewater-Based Epidemiology (WBE) approach that involves investigating whether wastewater testing for coronavirus signatures can be leveraged as an early detection biomarker to assess community widespread of the disease. The IOA recognize the benefits of this research to develop an estimation of the population of infected patients within a community, non-invasive tracking and surveillance techniques that can be easily implemented in the existing testing framework of wastewater systems across Ontario with minimal resource and cost implications, and the implementation of an Artificial Intelligence/Cloud Based Continuous data stream collection, monitoring and surveillance program that can be centrally located to provide wastewater plants, decision-makers and public health officials with critical real-time information for evidence-based decision-making.

The IOA is interested in the approach to assess the variation in the virus loads throughout the treatment train and how different disinfectants (especially Ozone) can potentially inactivate these pathogens and implications to surface water.

The International Ozone Association confirms providing the funding of \$5000.00 (Canadian Dollars) for the project.

The IOA believes in collaboration to address the challenges such as COVID-19, that impact human health and quality of life. The involvement in the Project Advisory Committee and other technical groups in the projects is of a major importance for the IOA to maintain knowledge of the progress of the project and to provide expertise to assist in the success of this important project.

Sincerely,

A handwritten signature in black ink, appearing to read 'Saad Y. Jasim', with a stylized flourish at the end.

Dr. Saad Y. Jasim, P.Eng.  
President,  
International Ozone Association