



Stantec Consulting Services Inc.
5 Burlington Woods Drive, Burlington, MA 01803

July 14, 2017

104 Stony Brook LLC
P.O. Box 158
Waban, MA 02468

Attention: **Chris Berardi and Dave Calhoun**

**Reference: Public Safety Considerations for Wastewater Treatment Facility and Evaporators
104 Boston Post Road, Weston, MA**

Dear Mr. Berardi and Mr. Calhoun:

We provide the following public safety considerations in the design and operation of the Wastewater Treatment Facility and Evaporation System proposed for 104 Boston Post Road, Weston, MA.

In the design of our facility, we used criteria in the Massachusetts Department of Environmental Protection (MassDEP) *Guidelines for the Design, Construction, Operation and Maintenance of Small Sewage Treatment Facilities with Land Disposal*. We prepared a Conceptual Design Report for the facility that MassDEP reviewed and commented on. Final design of the facility will also include a submission to MassDEP for their review and comment.

Facility operation will be in accordance with 314 CMR 12:00 – *Operation, Maintenance and Pretreatment Standards for Wastewater Treatment Works and Indirect Dischargers*. The size and complexity of the proposed facility require that a Certified Wastewater Treatment Plant Operator be present at the facility a minimum of 2 hours/day, 5 days/week to perform operational supervision and routine maintenance.

The unit processes and treatment area will be ventilated to meet National Electrical Code Area Classification requirements, and leak detectors and alarms associated with toxic parameters such as hydrogen sulfide will be provided. In addition, there will be an electronic auto-dial telephone paging system to enable a quick response to a potential problem, and Ethernet connections to operators and service personnel that allow remote monitoring and control to prevent or correct problems.

Chemical storage will be limited to 5-gallon to 25-gallon sizes for items such as citric acid and sodium hypochlorite for membrane cleaning; these will be diluted and mixed in larger containers for one-time use. Additional chemicals include a sodium bicarbonate solution in a 50-gallon tank for pH adjustment, and Micro-C, a non-hazardous carbon source, in a 55-gallon drum used to supplement the carbon in the wastewater. Other than Micro-C, which is non-hazardous, all the chemicals are similar to what you would find in a residential setting. Citric acid is derived from citrus fruits such as lemons and limes, the sodium hypochlorite solution is



July 14, 2017

104 Stony Brook LLC
P.O. Box 158
Waban, MA 02468
Page 2 of 2

**Reference: Public Safety Considerations for Wastewater Treatment Facility and
Evaporators
104 Boston Post Road, Weston, MA**

the same as that used for swimming pool disinfection, and sodium bicarbonate is baking soda. In addition, we will provide spill containment where the chemicals are stored.

We believe the above criteria, as well as other safety factors and alarms, and equipment and process redundancies built into the design, demonstrate the standard of care required to safeguard the public at or near the project site.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Meredith S. Zona, P.E., LEED AP BD+C
Tel. 781-221-1254
Meredith.Zona@stantec.com

u:\195150441\correspondence\zba\safety.docx