Seneca Meadows, Inc.
1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
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June 10, 2022

Mr. Michael Ferrara
Town Supervisor
Town of Seneca Falls
130 Ovid Street
Seneca Falls, NY 13148

Re: Seneca Meadows Landfill - Response to H2S Concerns in Sanitary Sewer

Dear Mr. Ferrara:

It has come to the attention of Seneca Meadows, Inc. (SMI) that there are concerns surrounding the industrial wastewater discharge that SMI is generating through the ROCHEM Reverse Osmosis (RO) leachate treatment system that SMI has owned, operated, and discharged permeate from to the Seneca Falls (SF) sanitary sewer system since 2012. Specially, regarding hydrogen sulfide (H2S) gas. To eliminate SMI as a potential source of H2S gas within the SF sanitary sewer system, SMI is providing the requested information and committed to executing on the following:

i. Attached are 12 months of monthly ROCHEM RO permeate analytical data that was collected by SMI and provided to SF. The average pH was 6.75. SMI's permit range for pH with SF is 6.5-8.5. SMI will aim for a pH range of 7.5-8.0 for the discharge of the ROCHEM RO permeate as requested by the Town moving forward.

ii. All permeate tanks within the ROCHEM RO leachate treatment facility have been drained and cleaned. Fouling was found at the bottom of the permeate tank which has been cleaned and remove. This fouling may have contributed to H2S odors in the ROCHEM RO permeate discharges. SMI will monitor the ROCHEM RO permeate tanks weekly and clean them when any fouling is observed.

iii. The ROCHEM RO degasser has been cleaned and the media has been changed out. Fouling was found on the ROCHEM RO degasser media which was removed and disposed of. This fouling may have contributed to H2S odors in the ROCHEM RO permeate discharges. SMI will monitor the ROCHEM RO degasser weekly, clean and/or replace the media as any fouling is observed. SMI

will also monitor the ROCHEM RO degasser blower daily to ensure it is functioning properly.

iv. The SMI wet well was cleaned out by a third party using a vac truck and a pressure washer. A significant number of solids had collected in the SMI wet well from SMI and upstream users that used to tie into the SMI wet well and force main.

v. The force main from the SMI ROCHEM RO leachate treatment facility to the SMI wet well was flushed with potable water with the assistance of SF Water & Sewer personnel. SMI contained this potable water within the SMI wet well. The water used for flushing was removed from the force main via a vac truck and hauled back to the SMI leachate storage facility. H2S was monitored at the SMI wet well. H2S headspace concentrations were reduced to 0 ppm monitored by both SMI and SF Water & Sewer.

vi. The SMI force main from the SMI wet well South to the Town of SF's gravity manhole along Route 414 was flushed with potable water. With the assistance of SF Water & Sewer personnel, SMI contained this potable water within the section of the SMI force main from the SF manhole West of Tarjac. The water used for flushing was removed from the SMI force main via a vac truck and hauled back to the SMI leachate storage facility. H2S was monitored at the manhole. H2S headspace concentrations were reduced to 0 ppm monitored by both SMI and SF Water & Sewer.

vii. With the approval from the Town of SF, SMI will begin discharging from the ROCHEM RO leachate treatment facility. H2S will be monitored in the ROCHEM RO final permeate tank and the SMI wet well to ensure that H2S concentrations remain within the following agreed upon OSHA levels. The alert trigger concentration will be 10 ppm and the flow termination concentration will be 20 ppm. If an H2S concentration of 20 ppm is reached, SMI will stop discharging, notify SF Water & Sewer personnel, implement corrective actions to reduce the H2S concentration, and report the findings back to SF Water and Sewer personnel. pH adjustments or other methods approved by Town of SF will be used to achieve this H2S concentration.

viii. The following reporting will be supplied on a weekly basis:
   a. Daily discharge flow rates in gallons per day (GPD)
   b. Daily H2S readings from the final permeate and wet well
   c. Daily pH measurements from the final permeate tank
   d. Daily degasser pressure/flow monitoring from the blower
   e. Permeate discharge pH calibration logs (manufacturer frequency)
   f. H2S calibration logs (manufacturer frequency)
   g. Weekly system maintenance performed and documented

ix. The following will be included in the monthly permeate laboratory analysis:
   a. Sulfides
   b. Sulfates

SMI values the mutually beneficial partnership developed over the past 23+ years with the former Village and Town of SF and its Water & Sewer departments. SMI is confident that our treated permeate, that has been and will be discharged to the SF sanitary sewer system, meets the requirements of the industrial discharge permit that is in place with SMI and SF. With the tasks laid out above and our long-standing willingness to work with the Town of SF and SMI's neighbors, SMI hopes to continue this mutually beneficial partnership with the Town of SF.

If you have any questions or concerns, please feel free to contact SMI at (315) 539-5624.

Sincerely,

David Pannucci
Regional Engineer