



Seneca Falls Water Dept

130 Ovid Street
 Seneca Falls, New York 13148
 315-568-6211 fax 315-568-4672

Invoice No. ²² 0002A

INVOICE

Customer

Name Seneca Meadows, Inc. Attn. W. Neuman
 Address 1786 Salcman Road
 City Waterloo State NY ZIP 13165
 Phone _____

Date 22-Feb-22
 Account No. _____
 Rep SW/JT
 FOB _____

Qty	Description	Unit Price	TOTAL
	January 1-31,2022 1,470,822 Total gallons of Leachate discharged to the Seneca Falls POTW during January 1-31,2022 as per attached SF Formula, and Documentation submitted by IESI-SMI		

PAID
 MAR 21 2022
 Town of Seneca Falls

Payment Details

Cash
 Check

Name Waste Connections
 Check # 28485711

SubTotal	\$39,517.61
Shipping & Handling	\$0.00
TOTAL	\$39,517.61

Office Use Only G380/G2122

PAYMENT IS REQUIRED WITHIN 30 DAYS OF THE INVOICE DATE. After 30 days, amount will be added to your regular Water and Sewer Bill.

Thank You for your payment

**Seneca Falls Wastewater Treatment Plant
Seneca Meadows Landfill Leachate
Monthly Sewer Use Charge Calculation**

(Update Debt Service and O&M Costs every year)

Total System Debt Service F FY2022 \$ 594,077.00
Total System O&M Cost F FY2022 \$ 1,713,368.00

(From Current FY Budget)

Landfill Quantities:

Total Flow for the period:	1/1/2022 1/31/2022	<u>3.10</u> million gals	(Minimum 100,000 gals/day)
Average Suspended Solids - mg/L		<u>300</u> mg/L	(Minimum 300 mg/l)
Average B.O.D. - mg/L		<u>300</u> mg/L	(Minimum 300 mg/l)
Average Ammonia - mg/L		<u>60</u> mg/L	(Minimum 60 mg/l)

Wastewater Treatment Plant Quantities:

Total Flow for the period:		<u>31</u> million gals
Average Suspended Solids - mg/L		<u>158</u> mg/L
Average B.O.D. - mg/L		<u>97</u> mg/L
Average Ammonia - mg/L		<u>18</u> mg/L

Conversion to pounds of solids :

Flow (MG) * Concentration (mg/L) * 8.34 lbs./MG = lbs. of solids

Seneca Meadows Conversion to lbs. of S.S. =	7,756.20
Seneca Meadows Conversion to lbs. of B.O.D. =	7,756.20
Seneca Meadows Conversion to lbs. of Ammonia =	1,551.24
SFWWTP Conversion of lbs. of S.S. =	40,720.05
SFWWTP Conversion of lbs. of B.O.D. =	25,155.94
SFWWTP Conversion of lbs. of Ammonia =	4,718.36

FORMULA :

Definitions: **DS = Debt Service (Principal and Interest)**
 O&M = Operation and Maintenance Costs
 SML = Seneca Meadows Landfill
 B.O.D. = Biochemical Oxygen Demand
 S.S. = Suspended Solids

Normal Sewage Charge (Flow Basis)

$$\text{DS (SML) (n)} = \text{Flow(SML)/Flow(Tot)} * \text{DS (Tot)}$$
$$0.1 * \$ 49,506 = \$ 4,950.64$$

$$\text{O\&M (SML) (n)} = \text{Flow(SML)/Flow(Tot)} * \text{O\&M (Tot)}$$
$$0.1 * \$ 142,781 = \$ 14,278.07$$

Abnormal Sewage Charge (Load Basis)

$$\text{DS (SML) (an)} = 20\% \{ \text{OSS(SML)/SS(Tot)} \} + 20\% \{ \text{OBOD(SML)/BOD(Tot)} \} + 20\% \{ \text{OAmmonia(SML)/Ammonia(Tot)} \} * \text{DS (Tot)}$$

$$\text{DS (SML) (an)} = (20\% * 0.090476) + (20\% * 0.208325) + (20\% * 0.228767) * \$49,506.42$$

$$\text{DS (SML) (an)} = 0.018095238 + 0.041664954 + 0.04575342 * \$49,506.42$$

$$\text{DS (SML) (an)} = 0.1055136 * \$ 49,506 \text{ (Village Debt Service)}$$

$$\text{DS (SML) (an)} = \$ 5,223.60$$

$$\text{O\&M (SML) (an)} = 20\% \{ \text{OSS(SML)/SS(Tot)} \} + 20\% \{ \text{OBOD(SML)/BOD(Tot)} \} + 20\% \{ \text{OAmmonia(SML)/Ammonia(Tot)} \} * \text{O\&M (Tot)}$$

$$\text{O\&M (SML) (an)} = (20\% * 0.090476) + (20\% * 0.208325) + (20\% * 0.228767) * \$142,780.67$$

$$\text{O\&M (SML) (an)} = 0.018095238 + 0.041664954 + 0.045753 * \$142,780.67$$

$$\text{O\&M (SML) (an)} = 0.1055136 * \$ 142,781 \text{ (Village O\&M)}$$

$$\text{O\&M (SML) (an)} = \$ 15,065.30$$

$$\text{DS + O\&M} = \$ 39,517.61$$

$$\$ 12.7476174 / 1,000 \text{ gallons}$$

$$\$ 0.01274762 / \text{gallon}$$

REMARKS: