

**Table 6-4
Seneca Meadows, Inc.
Landfill Expansion DSEIS
Worst-Case Emissions 2024 (All Sources)**

<i>Seneca Meadows</i>		<i>Seneca Energy</i>	
Year: 2024		Year: 2024	
LFG Generated (cfm)	LFG Collected (cfm)	Fugitive LFG (cfm)	
23,012	Flares 14,671	Engines (Separate Permit) 6,040	0

	NMOC TPY	VOC ⁵ TPY	CO TPY	NOx TPY	SO ₂ TPY	PM-10 TPY	HAP TPY	HCl TPY		NMOC TPY	VOC ⁵ TPY	CO TPY	NOx TPY	SO ₂ TPY	PM-10 TPY	HAP TPY	HCl TPY	
Primary Emissions																		
Flares Combustion Emissions⁷																		
Emission Unit 1-LFGAS, Process ID GAS (flares)	6.4	2.5	189	78	6.2	4.4	4.5	3.8										
Engines Combustion Emissions⁷																		
Excess gas beyond current control capacity (engines or flares)⁷	31.0	12.1	673	326	0.35	3.7	3.7	3.2	26	10	568	275	0.3	3.1	3.6	3.0		
Heating Equipment Emissions¹																		
Emission Unit E-10001, Process ID E01		0.0003	0.005	0.03	0.55	0.01												
Emission Unit E-10001, Process ID E02		0.001	0.01	0.04	0.001	0.001												
Fugitive Landfill Gas Emissions (2024) (All areas)																		
Emission Unit 1-LFGAS, Process ID FUG ² (fugitive emissions from the landfill areas)	92.6	36.1					15.9											
Emission Unit 1-SOILS, Process ID FG ¹		0.2																
Storage Tank Emissions¹																		
Emission Unit 1-LEACH, Process ID EVP		0.10																
Emission Unit E-10001, Process ID E03		0.00																
Emission Unit E-10001, Process ID E04		0.15																
TO Combustion Emissions from Off-Gasing¹																		
Emission Unit 1-EMGEN, Process ID GEN⁶			0.15	0.06		0.01		0.01										
Emission Unit 1-ODCTL, Process ID NEU⁶		1.60																
Secondary & Non-Applicable Fugitive Emissions																		
Mobile Source Combustion Emissions (Oper. & Constr.) ³																		
ORV Combustion Emissions (Oper.) ³																		
ORV Combustion Emissions (Constr.) ³																		
ORV PM Emissions (Oper.) ^{4*}						39.8												
ORV PM Emissions (Constr.) ^{4*}						15.0												
Road Dust Emissions (Oper.) ^{4*}						136												
Road Dust Emissions (Constr.) ^{4*}						8.2												
PM-10 Emissions Increase Due to Expansion						11.5												

Notes:

¹ Data referenced from the 2005 Annual Emission Statement Report prepared by CRA for Seneca Meadows and dated April 14, 2005.
² Data referenced from the report titled, "Title V Permit Application, Relocation and Expansion of LFGTE Facility," dated April 16, 2005, prepared by CRA for Seneca Energy II, LLC.
³ Since PM emissions of equipment in the areas were calculated using AP-42 equation for bulldozing, based on upwind/downwind sampling done during development of the emission factors, individual combustion emissions for the equipment were not calculated.
⁴ PM-10 emissions were calculated based on activities performed at the landfill (based on information provided by Seneca Meadows) and using equations in "AP-42, Fifth Edition, Compilation of Air Pollutant Emission Factors, Volume 1: Stationary Point and Area Sources," January 1995 plus updates.
^{*} Values shown are net increase due to expansion.
⁵ VOCs are calculated as 39% of NMOC when data not available, per AP-42.
⁶ Information provided by manufacturer
⁷ Based on LandGEM Modeling and Emission Factors
 Data calculated based on 20,711 cfm of landfill gas; 6,040 cfm going to the engines; 8,000 cfm going to existing flares; remainder (6,671 cfm) going to flares using engine emission factors

CO	Carbon dioxide.	Oper.	Operations
Constr.	Construction	PM	Particulate matter.
HAP	Hazardous air pollutant.	SELF	Southeast Landfill
HCl	Hydrogen chloride.	SO ₂	Sulfur dioxide.
LFG	Landfill gas.	TO	Thermal Oxidizer.
LFGTE	Landfill-gas-to-energy.	TPY	Tons per year.
NMOC	Non-methane organic compound.	VOC	Volatile organic compound.
NOx	Nitrogen oxides.		