G11 - UNDERGROUND STORAGE TANK W/ PHASE I EVR, PHASE II EVR, WITH MIX OF ORVR AND NON-ORVR VEHICLES

CALCULATION METHODS

Ea = Ua x EF (lbs/1000 gallons throughput) x Ci Weight %(Weight % Vapor/Liquid)

Eh = Tank Ullage (50% Tank Capacity) x EF (loading) x Ci Weight %(Weight % Vapor/Liquid)

NOTES:

Annual throughput (Ua) is for gasoline only, do not include diesel or jet fuels.

Use a set ROG / TOG factor of 0.76 lbs/1000 gallons thruput for annual estimates, vapor and liquid.

Emissions from tank loading, breathing, refueling, spillage and hose permeation are speciated using average vapor and liquid concentration values for reformulated & oxygenated gasoline.

POLLUTANT	District Emission Factor	EPA REFERENCE	ARB	(UNITS)	COMMENTS
	(lbs/lb emissions)	DOCUMENT	FACTOR		
NOX					
CO					
SOX					
TOG			0.76		Sum of loading (.15), breathing (.024), refueling (.10878), spillage (0.24), hose permeation (.062)
ROG			0.76		Sum of loading (.15), breathing (.024), refueling (.10878), spillage (0.24), hose permeation (.062)
TSP					
PM10					
BENZENE					ASSUMES 0.4% BY WEIGHT IN VAPOR AND 1.0% BY WEIGHT IN LIQUID
ETHYL BENZENE					ASSUMES 0.1% BY WEIGHT IN VAPOR AND 1.6% BY WEIGHT IN LIQUID
HEXANE					ASSUMES 1.4% BY WEIGHT IN VAPOR AND 1.8% BY WEIGHT IN LIQUID
LEAD					
TOLUENE					ASSUMES 1.1% BY WEIGHT IN VAPOR AND 8.0% BY WEIGHT IN LIQUID
2,2,4- TRIMETHYLPENTANE					ASSUMES 0.7% BY WEIGHT IN VAPOR AND 0.8% BY WEIGHT IN LIQUID
XYLENES					ASSUMES 0.4% BY WEIGHT IN VAPOR AND 2.4% BY WEIGHT IN LIQUID

Last Updated on 1/31/23 By J. Lofgren