Potential to Emit for TA52 Solar Evaporation Tanks

Potential to Emit (PTE) - VOCs

VOCs	Max[1] conc (mg/l)	Max Conc (lb/l)	Annual[2] Evap rate (l/yr)	PTE (lb/yr)	PTE (ton/yr)
benzene	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
PCBs	0.001	2.2E-09	5.0E+06	0.01	5.5E-06
toluene	0.75	1.7E-06	5.0E+06	8.27	4.1E-03
carbon tetrachloride	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
1,2-Dichloroethane	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
1,1-Dichloroethylene	0.005	1.1E-08	5.0E+06	0.06	2.8E-05
1,1-2-trichloroethylene	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
ethylbenzene	0.75	1.7E-06	5.0E+06	8.27	4.1E-03
xylene	0.62	1.4E-06	5.0E+06	6.83	3.4E-03
chloroform	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
1,1-dichloroethane	0.025	5.5E-08	5.0E+06	0.28	1.4E-04
ethylene dibromide	0.0001	2.2E-10	5.0E+06	0.00	5.5E-07
1,1,2-trichloroethane	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
1,1,2,2-tetrechloroethane	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
vinyl chloride	0.001	2.2E-09	5.0E+06	0.01	5.5E-06
naphthalene	0.03	6.6E-08	5.0E+06	0.33	1.7E-04
		Total PTE VOCs		**(ton/yr)**	**0.013**

Potential to Emit (PTE) For HAPs

HAPs	Max[1] conc (mg/l)	Max Conc (lb/l)	Annual[2] Evap rate (l/yr)	PTE (lb/yr)	PTE (ton/yr)
arsenic	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
cadmium	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
chromium	0.05	1.1E-07	5.0E+06	0.55	2.8E-04
cyanide	0.2	4.4E-07	5.0E+06	2.20	1.1E-03
lead	0.05	1.1E-07	5.0E+06	0.55	2.8E-04
mercury	0.002	4.4E-09	5.0E+06	0.02	1.1E-05
selenium	0.05	1.1E-07	5.0E+06	0.55	2.8E-04
benzene	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
PCBs	0.001	2.2E-09	5.0E+06	0.01	5.5E-06
toluene	0.75	1.7E-06	5.0E+06	8.27	4.1E-03
carbon tetrachloride	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
1,2-Dichloroethane	0.01	2.2E-08	5.0E+06	0.11	5.5E-05
1,1-Dichloroethylene	0.005	1.1E-08	5.0E+06	0.06	2.8E-05
1,1,2,2-tetrachloroethylene	0.02	4.4E-08	5.0E+06	0.22	1.1E-04
1,1,2-trichloroethylene	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
ethylbenzene	0.75	1.7E-06	5.0E+06	8.27	4.1E-03
xylene	0.62	1.4E-06	5.0E+06	6.83	3.4E-03
methylene chloride	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
chloroform	0.1	2.2E-07	5.0E+06	1.10	5.5E-04
1,1-dichloroethane	0.025	5.5E-08	5.0E+06	0.28	1.4E-04
ethylene dibromide	0.0001	2.2E-10	5.0E+06	0.00	5.5E-07
1,1,1-trichloroethane	0.06	1.3E-07	5.0E+06	0.66	3.3E-04
vinyl chloride	0.001	2.2E-09	5.0E+06	0.01	5.5E-06
naphthalene	0.03	6.6E-08	5.0E+06	0.33	1.7E-04
manganese	0.2	4.4E-07	5.0E+06	2.20	1.1E-03
phenol	0.005	1.1E-08	5.0E+06	0.06	2.8E-05
cobalt	0.05	1.1E-07	5.0E+06	0.55	2.8E-04
nickel	0.2	4.4E-07	5.0E+06	2.20	1.1E-03
		Total PTE HAPs		**(ton/yr)**	**0.018**

1. Treated effluent from RLWTF will not be discharged to tanks unless it meets Groundwater Standards specified under 20.6.2.3103 A. NMAC. Assume each pollutant is at its maximum allowable concentration.
2. ZLD design is based on evaportion of 5 million liters per year.