TABLE L-1
HAZARDOUS AIR POLLUTANTS CALCULATIONS - FUGITIVE EMISSIONS - FACILITY PTE AFTER PROJECT
FUGITIVE EMISSIONS MODEL RESULTS COMPARISON

Calculation Inputs

Collection Efficiency =	80.0%	
CH4 concentration =	50.0%	
Total CH4 generation rate =	3,304,961,765	scf/yr (scfm * 525,600 min/yr)
Total CH4 generation rate =	93,586,087	m^3/yr

CAS No.	Pollutant	Molecular Weight (g/gmol)	Concentration (ppmv)	Data Source	Volumetric Generation (m^3/yr)	Mass Generation (ton/yr)	Fugitive Emissions (ton/yr)	Fugitive Emissions (lb/yr)	Fugitive Emissions lb/hr	AGC ug/m3	Actual % of AGC %
000056235	CARBON TETRACHLORIDE	153.84	0.004	AP-42	0.7	0.0	0.0	2.1	0.0	0.2	0.1
000067663	CHLOROFORM	119.39	0.03	AP-42	5.6	0.0	0.0	12.1	0.0	0.0	2.5
000071432	BENZENE	78.11	1.91	AP-42	357.5	1.3	0.3	503.6	0.1	0.1	34.0
000071556	ETHANE, 1,1,1-TRICHLORO	133.41	0.48	AP-42	89.8	0.5	0.1	216.1	0.0	5000.0	0.0
000074873	METHYL CHLORIDE	50.49	1.21	AP-42	226.5	0.5	0.1	206.2	0.0	90.0	0.0
000075003	ETHANE, CHLORO	64.52	1.25	AP-42	234.0	0.7	0.1	272.2	0.0	10000.0	0.0
000075014	VINYL CHLORIDE	62.50	1.077	WIAC	201.6	0.6	0.1	227.2	0.0	0.1	18.1
000075092	DICHLOROMETHANE	84.94	14.3	AP-42	2,676.6	10.2	2.0	4099.8	0.5	2.1	17.1
000075150	CARBON DISULFIDE	76.13	0.58	AP-42	108.6	0.4	0.1	149.0	0.0	700.0	0.0
000075343	ETHANE, 1,1-DICHLORO	98.97	2.35	AP-42	439.9	2.0	0.4	785.0	0.1	0.6	10.9
000075354	ETHENE, 1,1-DICHLORO	96.94	0.20	AP-42	37.4	0.2	0.0	65.4	0.0	70.0	0.0
000078875	PROPANE, 1,2-DICHLORO	112.99	0.18	AP-42	33.7	0.2	0.0	68.6	0.0	4.0	0.2
000078933	METHYL ETHYL KETONE	72.11	7.09	AP-42	1,327.1	4.3	0.9	1725.6	0.2	5000.0	0.0
000079016	TRICHLOROETHYLENE	131.4	2.82	AP-42	527.8	3.1	0.6	1250.7	0.1	0.5	21.9
000079345	1,1,2,2-TETRACHLOROETHANE	167.85	1.11	AP-42	207.8	1.6	0.3	628.9	0.1	16.0	0.3
000100414	ETHYLBENZENE	106.16	4.61	AP-42	862.9	4.1	0.8	1651.9	0.2	1000.0	0.0
000106467	BENZENE, 1,4-DICHLORO	147	0.21	AP-42	39.3	0.3	0.1	104.2	0.0	0.1	10.1
000106934	ETHANE, 1,2-DIBROMO	187.88	0.001	AP-42	0.2	0.0	0.0	0.6	0.0	0.0	3.1
000107062	1,2-DICHLOROETHANE	98.96	0.41	AP-42	76.7	0.3	0.1	136.9	0.0	0.0	31.6
000107131	PROPENENITRILE	53.06	0.036	WIAC	6.7	0.0	0.0	6.4	0.0	0.0	3.7
000108101	2-PENTANONE, 4-METHYL	100.16	1.87	AP-42	350.0	1.6	0.3	632.2	0.1	3000.0	0.0
000108883	TOLUENE	92.13	39.3	AP-42	7,355.9	30.6	6.1	12220.9	1.4	5000.0	0.0
000108907	CHLOROBENZENE	112.56	0.25	AP-42	46.8	0.2	0.0	95.0	0.0	110.0	0.0
000110543	HEXANE	86.18	6.57	AP-42	1,229.7	4.8	1.0	1911.1	0.2	700.0	0.0
000127184	PERCHLOROETHYLENE	165.83	3.73	AP-42	698.2	5.2	1.0	2087.8	0.2	1.0	18.3
000463581	CARBONYL SULFIDE	60.07	0.49	AP-42	91.7	0.2	0.0	99.3	0.0	28.0	0.0
001330207	XYLENE, M, O & P MIXT.	106.16	12.1	AP-42	2,264.8	10.8	2.2	4335.7	0.5	100.0	0.4
007439976	MERCURY	200.61	0.000292	AP-42	0.1	0.0	0.0	0.2	0.0	0.3	0.0
007783064	HYDROGEN SULFIDE	34.08	133.0	Site Specific	24893.9	38.2	7.6	15299.4	1.7	2.0	67.1
						TOTAL HAPs =	*24.4*	*48794.3*			
						High Individual HAP =	*7.6*	*15299.4*			

Sample Calculations:
Volumetric Generation Calculation - per AP-42, Section 2.4
Mass Generation Calculation - Per AP-42, Section 2.4
Fugitive Emission (ton/yr) = Uncontrolled Mass Emissions * (1 - Collection Efficiency)

Notes:
1. Molecular weight and concentration of HAPs from AP-42, Section 2.4 (11/98), and/or from WIAC Guidance
2. Chlorine is converted to HCl during combustion; there are no fugitive emissions of HCl
3. Annual Guideline Concentration (AGC) values taken from NYSDEC DAR-1 - Air Guide Program - Guidelines for the Control of Toxic Ambient Air Contaminants
4. % of AGC values taken from DAR-1 Ambient Air Modeling Run, based on site-specific fugitive concentrations and modeled impact