

Plains Pipeline, LP
Mesa McCamey Tank Farm

Full Impacts Review

Benzene Short Term ESL (µg/m³):	170
Benzene Long Term ESL (µg/m³):	4.5

Benzene Hourly Steady State - Impact Review									
EPN	Source Name	Which impacts table corresponds to this EPN?	Steady state hourly estimated emissions for each EPN (lbs/hr)	WR _{EPNx}	ESL _{benzene, short term} (µg/m³)	Distance from emission point to nearest receptor (ft)	Height of emission release point (ft)	G _{EPNx}	E _{max,EPNx, hourly,steadystate} (lb/hr)
TANK 358	85,000 bbl TANK 358	Tank Hatch	0.0289	0.0385058	170	1662	46	78	0.08392293
TANK 359	85,000 bbl TANK 359	Tank Hatch	0.0289	0.0385058	170	2125	46	56	0.11689265
TANK 361	128,000 bbl TANK 361	Tank Hatch	0.0309	0.0411706	170	3078	46	33	0.21209084
TANK 364	128,000 bbl TANK 364	Tank Hatch	0.0311	0.0414371	170	1503	54	89	0.07914942
TANK 365	128,000 bbl TANK 365	Tank Hatch	0.0498	0.0663526	170	1780	54	71	0.15887237
TANK 366	128,000 bbl TANK 366	Tank Hatch	0.0498	0.0663526	170	2190	54	54	0.20888774
TANK 367	128,000 bbl TANK 367	Tank Hatch	0.0311	0.0414371	170	2740	54	39	0.18062304
TANK 368	128,000 bbl TANK 368	Tank Hatch	0.0311	0.0414371	170	2480	54	45	0.15653997
TANK 369	128,000 bbl TANK 369	Tank Hatch	0.0498	0.0663526	170	1870	54	67	0.16835729
TANK 370	270,000 bbl TANK 370	Tank Hatch	0.0125	0.0166548	170	1290	48	107	0.02646084
TANK 371	270,000 bbl TANK 371	Tank Hatch	0.0125	0.0166548	170	1008	48	135	0.02097267
TANK 372	270,000 bbl TANK 372	Tank Hatch	0.0253	0.0337092	170	4000	48	23	0.24915526
TANK 373	270,000 bbl TANK 373	Tank Hatch	0.0253	0.0337092	170	4000	48	23	0.24915526
253987	750 bbl TANK 253987	Tank Hatch	0.00757	0.0100861	170	4040	20	23	0.07454962
253988	750 bbl TANK 253988	Tank Hatch	0.00757	0.0100861	170	4040	20	23	0.07454962
252020	1,075 bbl TANK 252020	Tank Hatch	0.00759	0.0101128	170	4040	32	23	0.07474658
252021	1,075 bbl TANK 252021	Tank Hatch	0.00759	0.0101128	170	4040	32	23	0.07474658
252022	1,075 bbl TANK 252022	Tank Hatch	0.00759	0.0101128	170	4040	32	23	0.07474658
TankD1	Diesel TankD1	Tank Hatch	0.000781	0.0010406	170	1008	8	135	0.00131037
DTANK2	Diesel DTANK2	Tank Hatch	0.0000366	4.877E-05	170	1008	3.52	135	6.1408E-05
DTANK3	Diesel DTANK3	Tank Hatch	0.0000366	4.877E-05	170	1008	3.52	135	6.1408E-05
GEN2	Generator 2	Eng. ≤ 250 hp	1.40E-03	0.0018653	170	1008	3.7	71	0.00446629
GEN3	Generator 3	Eng. ≤ 250 hp	1.40E-03	0.0018653	170	1008	3.7	71	0.00446629
FLARE	FLARE	Flare/Therm. Dest. Dev.	0.0019718	0.0026272	170	1008	10	44	0.01015066
MSS	MSS	Fugitive	0.3	0.3997143	170	1008	10	174	0.39052549
			E _{estimated, total, hourly, steady state} (lb/hr)	Total		Passed		E _{max, total, hourly, steady state} (lb/hr)	
			0.750536	1				2.69546116	

Benzene Annual - Impact Review									
EPN	Source Name	What amount of time is this source emitting? (hrs/yr)	Which impacts table corresponds to this EPN?	Annual estimated emissions for each EPN (tons/yr)	WR _{EPNx}	ESL _{benzene, long term} (µg/m³)	Distance from emission point to nearest receptor (ft)	Height of emission release point (ft)	E _{max,EPNx, annual} (tons/yr)
TANK 358	85,000 bbl TANK 358	8760	Tank Hatch	0.01	0.0061683	4.5	1662	46	0.019484
TANK 359	85,000 bbl TANK 359	8760	Tank Hatch	0.01	0.0061683	4.5	2125	46	0.027138
TANK 361	128,000 bbl TANK 361	8760	Tank Hatch	0.01	0.0061683	4.5	3078	46	0.046052
TANK 364	128,000 bbl TANK 364	8760	Tank Hatch	0.01	0.0061683	4.5	1503	54	0.017075
TANK 365	128,000 bbl TANK 365	8760	Tank Hatch	0.01	0.0061683	4.5	1780	54	0.021404
TANK 366	128,000 bbl TANK 366	8760	Tank Hatch	0.01	0.0061683	4.5	2190	54	0.028143
TANK 367	128,000 bbl TANK 367	8760	Tank Hatch	0.01	0.0061683	4.5	2740	54	0.038967
TANK 368	128,000 bbl TANK 368	8760	Tank Hatch	0.01	0.0061683	4.5	2480	54	0.033771
TANK 369	128,000 bbl TANK 369	8760	Tank Hatch	0.01	0.0061683	4.5	1870	54	0.022682
TANK 370	270,000 bbl TANK 370	8760	Tank Hatch	0.01	0.0061683	4.5	1290	48	0.014203
TANK 371	270,000 bbl TANK 371	8760	Tank Hatch	0.01	0.0061683	4.5	1008	48	0.011257
TANK 372	270,000 bbl TANK 372	8760	Tank Hatch	0.01	0.0061683	4.5	4000	48	0.066075
TANK 373	270,000 bbl TANK 373	8760	Tank Hatch	0.01	0.0061683	4.5	4000	48	0.066075
253987	750 bbl TANK 253987	8760	Tank Hatch	0.01	0.0061683	4.5	4040	20	0.066075
253988	750 bbl TANK 253988	8760	Tank Hatch	0.01	0.0061683	4.5	4040	20	0.066075
252020	1,075 bbl TANK 252020	8760	Tank Hatch	0.01	0.0061683	4.5	4040	32	0.066075
252021	1,075 bbl TANK 252021	8760	Tank Hatch	0.01	0.0061683	4.5	4040	32	0.066075
252022	1,075 bbl TANK 252022	8760	Tank Hatch	0.01	0.0061683	4.5	4040	32	0.066075
TankD1	Diesel TankD1	8760	Tank Hatch	9.364E-06	5.776E-06	4.5	1008	8	1.05E-05
DTANK2	Diesel DTANK2	8760	Tank Hatch	6.164E-07	3.802E-07	4.5	1008	3.52	6.94E-07
DTANK3	Diesel DTANK3	8760	Tank Hatch	6.164E-07	3.802E-07	4.5	1008	3.52	6.94E-07
GEN2	Generator 2	876 hp	Eng. ≤ 250 hp	5.90E-04	0.0003639	4.5	1008	3.7	0.000126
GEN3	Generator 3	876 hp	Eng. ≤ 250 hp	5.90E-04	0.0003639	4.5	1008	3.7	0.000126
FLARE	FLARE	8760	Flare/Therm. Dest. Dev.	2.788E-06	1.72E-06	4.5	1008	10	9.63E-06
MSS	MSS	8760	Fugitive	1.44	0.8882346	4.5	1008	10	1.257694
			E _{estimated, total, annual} (tons/yr)	Total		Passed		E _{max, total, annual} (tons/yr)	
			1.6211934	1				2.000667	