

# APPENDIX I

## Concentration Predictions at Special Receptors Due to On and Offsite Traffic

Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
3	Recreational 5	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1917.45	1925.01	0.4%	1938.03	5%	1.1%
			8 Hr	15700	1243.84	1244.78	<0.1%	1248.70	8%	0.4%
			24 Hr	-	1181.43	1182.12	<0.1%	1183.81	-	0.2%
			Annual	-	660.88	661.02	<0.1%	661.07	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	121.08	122.41	1.1%	157.40	39%	23.1%
			24 Hr	200	70.19	70.30	0.2%	74.80	37%	6.2%
			Annual <sup>4</sup>	100	39.00	39.01	<0.1%	39.15	39%	0.4%
		Particulate Matter PM2.5	1 Hr	-	24.93	24.96	0.1%	27.50	-	9.3%
			24 Hr <sup>3</sup>	30	20.61	20.62	<0.1%	20.95	70%	1.6%
			Annual	-	9.81	9.81	<0.1%	9.82	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.23	3.27	1.1%	7.36	-	56.1%
			24 Hr <sup>3</sup>	50	0.28	0.28	1.1%	0.74	1%	62.7%
			Annual	-	0.05	0.05	0.8%	0.07	-	29.1%
		Total Particulate Matter	1 Hr	-	92.62	92.69	<0.1%	112.98	-	18.0%
			24 Hr	120	35.94	35.94	<0.1%	38.22	32%	6.0%
Annual <sup>4</sup>	60		21.37	21.38	<0.1%	21.44	36%	0.3%		
Sulfur Dioxide (SO2)	1 Hr	690	20.05	20.05	<0.1%	30.20	4%	33.6%		
	24 Hr	275	19.34	19.34	<0.1%	20.64	8%	6.3%		
	Annual <sup>3</sup>	55	5.93	5.93	<0.1%	5.97	11%	0.6%		
6	ECO 6	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1837.26	1842.76	0.3%	1851.60	5%	0.8%
			8 Hr	15700	1207.18	1207.87	<0.1%	1210.80	8%	0.3%
			24 Hr	-	1154.48	1154.99	<0.1%	1156.18	-	0.1%
			Annual	-	655.72	655.82	<0.1%	655.84	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.50	122.60	1.7%	146.37	37%	17.7%
			24 Hr	200	72.55	72.78	0.3%	75.96	38%	4.5%
			Annual <sup>4</sup>	100	38.43	38.44	<0.1%	38.50	39%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.75	24.79	0.2%	26.67	-	7.2%
			24 Hr <sup>3</sup>	30	20.64	20.64	<0.1%	21.01	70%	1.8%
			Annual	-	9.80	9.80	<0.1%	9.81	-	<0.1%
		Particulate Matter PM10	1 Hr	-	2.95	2.99	1.6%	5.84	-	49.5%
			24 Hr <sup>3</sup>	50	0.31	0.32	1.8%	0.69	1%	54.5%
			Annual	-	0.03	0.03	0.9%	0.04	-	28.8%
		Total Particulate Matter	1 Hr	-	92.05	92.15	0.1%	106.24	-	13.4%
			24 Hr	120	36.02	36.03	<0.1%	36.90	31%	2.4%
Annual <sup>4</sup>	60		21.34	21.34	<0.1%	21.38	36%	0.2%		
Sulfur Dioxide (SO2)	1 Hr	690	20.00	20.01	<0.1%	26.90	4%	25.6%		
	24 Hr	275	19.34	19.34	<0.1%	20.26	7%	4.5%		
	Annual <sup>3</sup>	55	5.93	5.93	<0.1%	5.95	11%	0.3%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
11	ECO 11	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1653.96	1658.78	0.3%	1664.74	5%	0.6%
			8 Hr	15700	1185.41	1186.01	<0.1%	1188.74	8%	0.3%
			24 Hr	-	1138.48	1138.92	<0.1%	1140.09	-	0.1%
			Annual	-	652.65	652.74	<0.1%	652.76	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	117.36	118.58	1.0%	134.61	34%	12.8%
			24 Hr	200	69.00	69.11	0.2%	72.18	36%	4.4%
			Annual <sup>4</sup>	100	38.07	38.08	<0.1%	38.12	38%	0.1%
		Particulate Matter PM2.5	1 Hr	-	24.27	24.29	0.1%	26.06	-	6.9%
			24 Hr <sup>3</sup>	30	20.59	20.59	<0.1%	20.93	70%	1.6%
			Annual	-	9.79	9.79	<0.1%	9.80	-	<0.1%
		Particulate Matter PM10	1 Hr	-	2.21	2.24	1.5%	4.45	-	50.4%
			24 Hr <sup>3</sup>	50	0.24	0.24	1.2%	0.58	1%	59.4%
			Annual	-	0.02	0.02	0.9%	0.04	-	36.4%
		Total Particulate Matter	1 Hr	-	90.58	90.65	<0.1%	101.60	-	10.8%
			24 Hr	120	35.86	35.86	<0.1%	37.07	31%	3.3%
			Annual <sup>4</sup>	60	21.32	21.32	<0.1%	21.37	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	19.88	19.88	<0.1%	24.54	4%	19.0%
			24 Hr	275	19.33	19.33	<0.1%	20.21	7%	4.4%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.94	11%	0.2%		
12	Recreational 4	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1974.73	1981.61	0.3%	1997.34	6%	1.1%
			8 Hr	15700	1286.23	1287.10	<0.1%	1289.87	8%	0.3%
			24 Hr	-	1212.60	1213.24	<0.1%	1214.32	-	0.1%
			Annual	-	666.86	666.98	<0.1%	667.04	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	122.38	124.32	1.6%	166.61	42%	26.5%
			24 Hr	200	72.77	72.92	0.2%	75.79	38%	4.0%
			Annual <sup>4</sup>	100	39.48	39.50	<0.1%	39.63	40%	0.4%
		Particulate Matter PM2.5	1 Hr	-	25.11	25.15	0.2%	28.10	-	10.6%
			24 Hr <sup>3</sup>	30	20.65	20.66	<0.1%	20.97	70%	1.5%
			Annual	-	9.82	9.82	<0.1%	9.83	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.50	3.55	1.5%	7.59	-	53.9%
			24 Hr <sup>3</sup>	50	0.34	0.34	1.1%	0.71	1%	53.0%
			Annual	-	0.06	0.06	0.8%	0.08	-	25.9%
		Total Particulate Matter	1 Hr	-	93.16	93.27	0.1%	113.25	-	17.7%
			24 Hr	120	36.06	36.07	<0.1%	37.92	32%	4.9%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.47	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.09	20.10	<0.1%	32.36	5%	37.9%
			24 Hr	275	19.35	19.35	<0.1%	20.17	7%	4.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.97	11%	0.6%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
13	Future Industrial 9	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1608.14	1618.91	0.7%	1632.38	5%	1.5%
			8 Hr	15700	1194.58	1195.93	0.1%	1199.15	8%	0.4%
			24 Hr	-	1145.22	1146.21	<0.1%	1147.35	-	0.2%
			Annual	-	653.94	654.13	<0.1%	654.19	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	116.72	118.36	1.4%	138.25	35%	15.6%
			24 Hr	200	68.82	69.05	0.3%	71.99	36%	4.4%
			Annual <sup>4</sup>	100	38.46	38.47	<0.1%	38.55	39%	0.3%
		Particulate Matter PM2.5	1 Hr	-	24.22	24.27	0.2%	27.41	-	11.6%
			24 Hr <sup>3</sup>	30	20.59	20.60	<0.1%	20.94	70%	1.6%
			Annual	-	9.80	9.80	<0.1%	9.81	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.15	2.20	2.5%	8.96	-	76.1%
			24 Hr <sup>3</sup>	50	0.24	0.25	3.0%	0.93	2%	73.7%
			Annual	-	0.03	0.03	1.2%	0.07	-	54.7%
		Total Particulate Matter	1 Hr	-	90.45	90.56	0.1%	124.11	-	27.1%
			24 Hr	120	35.87	35.89	<0.1%	39.17	33%	8.4%
			Annual <sup>4</sup>	60	21.34	21.34	<0.1%	21.52	36%	0.8%
		Sulfur Dioxide (SO2)	1 Hr	690	19.87	19.88	<0.1%	25.63	4%	22.5%
			24 Hr	275	19.33	19.33	<0.1%	20.18	7%	4.2%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.3%		
14	Future Industrial 10	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2444.43	2468.03	1.0%	2496.06	7%	2.1%
			8 Hr	15700	1448.90	1452.09	0.2%	1458.47	9%	0.7%
			24 Hr	-	1332.19	1334.54	0.2%	1336.79	-	0.3%
			Annual	-	689.78	690.23	<0.1%	690.30	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	128.91	138.77	7.1%	193.16	48%	33.3%
			24 Hr	200	94.16	95.17	1.1%	101.09	51%	6.9%
			Annual <sup>4</sup>	100	44.11	44.34	0.5%	44.43	44%	0.7%
		Particulate Matter PM2.5	1 Hr	-	26.18	26.44	1.0%	31.87	-	17.8%
			24 Hr <sup>3</sup>	30	20.97	21.00	0.1%	21.51	72%	2.5%
			Annual	-	9.89	9.90	<0.1%	9.91	-	0.2%
		Particulate Matter PM10	1 Hr	-	5.14	5.47	5.9%	19.18	-	73.2%
			24 Hr <sup>3</sup>	50	0.82	0.85	4.0%	2.07	4%	60.3%
			Annual	-	0.17	0.18	4.5%	0.24	-	31.1%
		Total Particulate Matter	1 Hr	-	96.45	97.09	0.7%	165.10	-	41.6%
			24 Hr	120	37.03	37.09	0.2%	43.09	36%	14.1%
			Annual <sup>4</sup>	60	21.61	21.63	<0.1%	21.95	37%	1.5%
		Sulfur Dioxide (SO2)	1 Hr	690	20.36	20.39	0.1%	36.14	5%	43.7%
			24 Hr	275	19.42	19.43	<0.1%	21.13	8%	8.1%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	5.97	11%	0.3%		

Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
240	Recreational 1	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2329.87	2340.41	0.5%	2348.59	6%	0.8%
			8 Hr	15700	1346.94	1348.25	<0.1%	1350.77	9%	0.3%
			24 Hr	-	1257.23	1258.19	<0.1%	1259.26	-	0.2%
			Annual	-	675.41	675.60	<0.1%	675.65	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	128.09	131.29	2.4%	151.77	38%	15.6%
			24 Hr	200	78.14	78.38	0.3%	81.24	41%	3.8%
			Annual <sup>4</sup>	100	39.96	39.99	<0.1%	40.10	40%	0.4%
		Particulate Matter PM2.5	1 Hr	-	26.00	26.06	0.2%	28.49	-	8.7%
			24 Hr <sup>3</sup>	30	20.72	20.73	<0.1%	21.06	70%	1.6%
			Annual	-	9.82	9.82	<0.1%	9.83	-	0.1%
		Particulate Matter PM10	1 Hr	-	4.86	4.94	1.6%	9.34	-	48.0%
			24 Hr <sup>3</sup>	50	0.44	0.45	1.3%	0.79	2%	44.3%
			Annual	-	0.07	0.07	1.0%	0.09	-	21.7%
		Total Particulate Matter	1 Hr	-	95.87	96.04	0.2%	117.86	-	18.7%
			24 Hr	120	36.27	36.28	<0.1%	37.67	31%	3.7%
			Annual <sup>4</sup>	60	21.41	21.41	<0.1%	21.46	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	20.32	20.32	<0.1%	26.26	4%	22.6%
			24 Hr	275	19.36	19.36	<0.1%	20.19	7%	4.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.97	11%	0.5%		
241	Recreational 2	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2089.29	2098.23	0.4%	2111.47	6%	1.1%
			8 Hr	15700	1304.55	1305.68	<0.1%	1308.53	8%	0.3%
			24 Hr	-	1226.07	1226.90	<0.1%	1228.37	-	0.2%
			Annual	-	669.44	669.60	<0.1%	669.65	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	124.06	126.46	1.9%	162.06	41%	23.4%
			24 Hr	200	73.45	73.63	0.3%	77.54	39%	5.3%
			Annual <sup>4</sup>	100	39.59	39.61	<0.1%	39.73	40%	0.4%
		Particulate Matter PM2.5	1 Hr	-	25.36	25.41	0.2%	27.93	-	9.2%
			24 Hr <sup>3</sup>	30	20.66	20.66	<0.1%	20.98	70%	1.5%
			Annual	-	9.82	9.82	<0.1%	9.83	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.88	3.94	1.6%	7.90	-	50.9%
			24 Hr <sup>3</sup>	50	0.35	0.35	1.3%	0.68	1%	49.5%
			Annual	-	0.06	0.06	0.9%	0.08	-	25.0%
		Total Particulate Matter	1 Hr	-	93.92	94.05	0.1%	113.66	-	17.4%
			24 Hr	120	36.08	36.09	<0.1%	37.28	31%	3.2%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.46	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.16	20.16	<0.1%	30.48	4%	33.9%
			24 Hr	275	19.35	19.35	<0.1%	20.48	7%	5.5%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.97	11%	0.6%		

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Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
242	Recreational 3	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1997.65	2005.44	0.4%	2020.53	6%	1.1%
			8 Hr	15700	1293.10	1294.08	<0.1%	1296.83	8%	0.3%
			24 Hr	-	1217.65	1218.37	<0.1%	1219.67	-	0.2%
			Annual	-	667.83	667.97	<0.1%	668.02	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	122.89	125.01	1.7%	165.57	41%	25.8%
			24 Hr	200	72.86	73.02	0.2%	76.46	38%	4.7%
			Annual <sup>4</sup>	100	39.43	39.45	<0.1%	39.57	40%	0.4%
		Particulate Matter PM2.5	1 Hr	-	25.18	25.22	0.2%	28.05	-	10.2%
			24 Hr <sup>3</sup>	30	20.65	20.65	<0.1%	20.97	70%	1.5%
			Annual	-	9.82	9.82	<0.1%	9.83	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.61	3.66	1.5%	7.70	-	53.2%
			24 Hr <sup>3</sup>	50	0.33	0.34	1.2%	0.67	1%	49.9%
			Annual	-	0.06	0.06	0.9%	0.08	-	26.4%
		Total Particulate Matter	1 Hr	-	93.38	93.49	0.1%	113.49	-	17.7%
			24 Hr	120	36.05	36.06	<0.1%	37.65	31%	4.2%
			Annual <sup>4</sup>	60	21.39	21.39	<0.1%	21.46	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.11	20.12	<0.1%	31.88	5%	36.9%
			24 Hr	275	19.34	19.35	<0.1%	20.34	7%	4.9%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.97	11%	0.6%		
265	Future Industrial 7	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1860.17	1874.15	0.7%	1919.96	5%	3.1%
			8 Hr	15700	1271.33	1273.19	0.1%	1278.91	8%	0.6%
			24 Hr	-	1201.65	1203.01	0.1%	1205.46	-	0.3%
			Annual	-	664.76	665.02	<0.1%	665.16	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.36	125.27	3.9%	163.25	41%	26.3%
			24 Hr	200	75.52	75.93	0.5%	78.67	39%	4.0%
			Annual <sup>4</sup>	100	39.76	39.85	0.2%	39.95	40%	0.5%
		Particulate Matter PM2.5	1 Hr	-	24.84	24.97	0.5%	29.65	-	16.2%
			24 Hr <sup>3</sup>	30	20.69	20.70	<0.1%	21.13	70%	2.1%
			Annual	-	9.82	9.83	<0.1%	9.85	-	0.3%
		Particulate Matter PM10	1 Hr	-	3.08	3.24	5.0%	22.26	-	86.2%
			24 Hr <sup>3</sup>	50	0.40	0.41	3.3%	2.02	4%	80.4%
			Annual	-	0.07	0.07	4.5%	0.20	-	66.0%
		Total Particulate Matter	1 Hr	-	92.31	92.64	0.3%	186.99	-	50.6%
			24 Hr	120	36.18	36.21	<0.1%	44.17	37%	18.1%
			Annual <sup>4</sup>	60	21.41	21.41	<0.1%	22.02	37%	2.8%
		Sulfur Dioxide (SO2)	1 Hr	690	20.03	20.04	<0.1%	31.05	4%	35.5%
			24 Hr	275	19.36	19.36	<0.1%	20.15	7%	3.9%
Annual <sup>3</sup>	55		5.93	5.94	<0.1%	5.95	11%	0.3%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
267	Future Industrial 1	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1642.51	1651.22	0.5%	1670.15	5%	1.7%
			8 Hr	15700	1206.03	1207.11	<0.1%	1210.06	8%	0.3%
			24 Hr	-	1153.64	1154.43	<0.1%	1155.51	-	0.2%
			Annual	-	655.56	655.71	<0.1%	655.76	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	117.43	118.70	1.1%	152.63	38%	23.1%
			24 Hr	200	69.35	69.52	0.2%	72.31	36%	4.1%
			Annual <sup>4</sup>	100	38.61	38.62	<0.1%	38.67	39%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.29	24.32	0.1%	27.19	-	10.7%
			24 Hr <sup>3</sup>	30	20.59	20.60	<0.1%	20.97	70%	1.8%
			Annual	-	9.80	9.80	<0.1%	9.81	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.24	2.29	1.8%	11.28	-	80.1%
			24 Hr <sup>3</sup>	50	0.24	0.25	2.1%	1.52	3%	84.0%
			Annual	-	0.03	0.04	1.1%	0.07	-	53.0%
		Total Particulate Matter	1 Hr	-	90.65	90.73	<0.1%	135.30	-	33.0%
			24 Hr	120	35.87	35.88	<0.1%	42.20	35%	15.0%
Annual <sup>4</sup>	60		21.34	21.35	<0.1%	21.52	36%	0.8%		
Sulfur Dioxide (SO2)	1 Hr	690	19.89	19.89	<0.1%	29.72	4%	33.1%		
	24 Hr	275	19.33	19.33	<0.1%	20.13	7%	4.0%		
	Annual <sup>3</sup>	55	5.93	5.93	<0.1%	5.94	11%	0.2%		
268	Future Industrial 2	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1699.79	1704.83	0.3%	1714.58	5%	0.9%
			8 Hr	15700	1219.78	1220.42	<0.1%	1223.33	8%	0.3%
			24 Hr	-	1163.75	1164.22	<0.1%	1165.44	-	0.1%
			Annual	-	657.49	657.58	<0.1%	657.61	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	118.23	119.51	1.1%	145.71	36%	18.9%
			24 Hr	200	69.98	70.13	0.2%	73.28	37%	4.5%
			Annual <sup>4</sup>	100	38.65	38.66	<0.1%	38.71	39%	0.1%
		Particulate Matter PM2.5	1 Hr	-	24.41	24.44	0.1%	26.68	-	8.5%
			24 Hr <sup>3</sup>	30	20.60	20.60	<0.1%	20.99	70%	1.8%
			Annual	-	9.80	9.80	<0.1%	9.81	-	<0.1%
		Particulate Matter PM10	1 Hr	-	2.43	2.47	1.6%	6.70	-	63.7%
			24 Hr <sup>3</sup>	50	0.26	0.26	1.6%	0.65	1%	60.4%
			Annual	-	0.04	0.04	1.0%	0.06	-	37.5%
		Total Particulate Matter	1 Hr	-	91.02	91.10	<0.1%	112.08	-	18.8%
			24 Hr	120	35.90	35.91	<0.1%	37.65	31%	4.7%
Annual <sup>4</sup>	60		21.35	21.35	<0.1%	21.43	36%	0.4%		
Sulfur Dioxide (SO2)	1 Hr	690	19.92	19.92	<0.1%	27.52	4%	27.6%		
	24 Hr	275	19.33	19.33	<0.1%	20.24	7%	4.5%		
	Annual <sup>3</sup>	55	5.93	5.93	<0.1%	5.94	11%	0.2%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
269	Future Industrial 3	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2295.50	2311.31	0.7%	2332.04	6%	1.6%
			8 Hr	15700	1383.60	1385.69	0.2%	1392.82	9%	0.7%
			24 Hr	-	1284.19	1285.72	0.1%	1288.10	-	0.3%
			Annual	-	680.58	680.87	<0.1%	680.93	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	126.99	130.79	2.9%	169.57	42%	25.1%
			24 Hr	200	87.28	87.60	0.4%	93.85	47%	7.0%
			Annual <sup>4</sup>	100	42.20	42.26	0.1%	42.34	42%	0.3%
		Particulate Matter PM2.5	1 Hr	-	25.78	25.87	0.3%	30.17	-	14.5%
			24 Hr <sup>3</sup>	30	20.85	20.86	<0.1%	21.32	71%	2.2%
			Annual	-	9.85	9.86	<0.1%	9.87	-	0.2%
		Particulate Matter PM10	1 Hr	-	4.53	4.64	2.3%	13.45	-	66.3%
			24 Hr <sup>3</sup>	50	0.64	0.65	1.4%	1.50	3%	57.7%
			Annual	-	0.11	0.12	1.5%	0.17	-	31.3%
		Total Particulate Matter	1 Hr	-	95.22	95.44	0.2%	139.14	-	31.6%
			24 Hr	120	36.66	36.68	<0.1%	40.93	34%	10.4%
Annual <sup>4</sup>	60		21.50	21.51	<0.1%	21.74	36%	1.1%		
Sulfur Dioxide (SO2)	1 Hr	690	20.26	20.27	<0.1%	31.52	5%	35.7%		
	24 Hr	275	19.39	19.40	<0.1%	21.20	8%	8.5%		
	Annual <sup>3</sup>	55	5.94	5.94	<0.1%	5.96	11%	0.3%		
270	Future Industrial 4	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1688.33	1696.12	0.5%	1710.87	5%	1.3%
			8 Hr	15700	1198.01	1199.00	<0.1%	1201.86	8%	0.3%
			24 Hr	-	1147.74	1148.47	<0.1%	1149.72	-	0.2%
			Annual	-	654.43	654.57	<0.1%	654.64	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	118.18	120.55	2.0%	150.01	38%	21.2%
			24 Hr	200	69.90	70.05	0.2%	73.23	37%	4.5%
			Annual <sup>4</sup>	100	38.57	38.59	<0.1%	38.75	39%	0.5%
		Particulate Matter PM2.5	1 Hr	-	24.45	24.51	0.2%	27.27	-	10.3%
			24 Hr <sup>3</sup>	30	20.61	20.61	<0.1%	20.93	70%	1.5%
			Annual	-	9.80	9.80	<0.1%	9.82	-	0.2%
		Particulate Matter PM10	1 Hr	-	2.49	2.57	2.8%	10.36	-	75.9%
			24 Hr <sup>3</sup>	50	0.27	0.27	1.7%	0.90	2%	70.3%
			Annual	-	0.04	0.04	1.4%	0.07	-	51.2%
		Total Particulate Matter	1 Hr	-	91.15	91.29	0.2%	129.94	-	29.9%
			24 Hr	120	35.92	35.93	<0.1%	39.05	33%	8.0%
Annual <sup>4</sup>	60		21.35	21.35	<0.1%	21.49	36%	0.7%		
Sulfur Dioxide (SO2)	1 Hr	690	19.93	19.93	<0.1%	28.47	4%	30.0%		
	24 Hr	275	19.33	19.33	<0.1%	20.24	7%	4.5%		
	Annual <sup>3</sup>	55	5.93	5.93	<0.1%	5.97	11%	0.7%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
271	Future Industrial 5	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1871.63	1876.90	0.3%	1887.94	5%	0.9%
			8 Hr	15700	1241.55	1242.21	<0.1%	1245.42	8%	0.3%
			24 Hr	-	1179.75	1180.24	<0.1%	1181.66	-	0.2%
			Annual	-	660.56	660.66	<0.1%	660.68	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.76	122.88	1.7%	152.57	38%	20.8%
			24 Hr	200	74.63	74.85	0.3%	78.61	39%	5.1%
			Annual <sup>4</sup>	100	38.87	38.89	<0.1%	38.94	39%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.80	24.84	0.2%	27.27	-	9.1%
			24 Hr <sup>3</sup>	30	20.67	20.67	<0.1%	21.07	70%	1.9%
			Annual	-	9.81	9.81	<0.1%	9.81	-	<0.1%
		Particulate Matter PM10	1 Hr	-	3.02	3.07	1.6%	7.10	-	57.4%
			24 Hr <sup>3</sup>	50	0.36	0.36	1.5%	0.76	2%	53.3%
			Annual	-	0.04	0.04	0.9%	0.06	-	28.7%
		Total Particulate Matter	1 Hr	-	92.20	92.31	0.1%	112.24	-	17.9%
			24 Hr	120	36.10	36.11	<0.1%	37.40	31%	3.5%
			Annual <sup>4</sup>	60	21.36	21.36	<0.1%	21.42	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.02	20.02	<0.1%	28.63	4%	30.1%
			24 Hr	275	19.35	19.35	<0.1%	20.43	7%	5.3%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.94	11%	0.2%		
272	Future Industrial 6	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2902.67	2913.44	0.4%	2929.06	8%	0.9%
			8 Hr	15700	1474.10	1475.46	<0.1%	1479.37	9%	0.4%
			24 Hr	-	1350.72	1351.72	<0.1%	1353.79	-	0.2%
			Annual	-	693.33	693.52	<0.1%	693.57	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	136.42	141.21	3.4%	183.00	46%	25.5%
			24 Hr	200	95.62	96.05	0.4%	101.40	51%	5.7%
			Annual <sup>4</sup>	100	44.24	44.31	0.2%	44.38	44%	0.3%
		Particulate Matter PM2.5	1 Hr	-	27.23	27.32	0.4%	30.41	-	10.5%
			24 Hr <sup>3</sup>	30	20.96	20.97	<0.1%	21.55	72%	2.7%
			Annual	-	9.88	9.88	<0.1%	9.89	-	0.1%
		Particulate Matter PM10	1 Hr	-	6.73	6.85	1.7%	13.29	-	49.3%
			24 Hr <sup>3</sup>	50	0.81	0.82	1.3%	1.41	3%	42.2%
			Annual	-	0.16	0.16	1.1%	0.19	-	15.4%
		Total Particulate Matter	1 Hr	-	99.63	99.87	0.2%	131.74	-	24.4%
			24 Hr	120	37.01	37.03	<0.1%	39.13	33%	5.4%
			Annual <sup>4</sup>	60	21.59	21.59	<0.1%	21.70	36%	0.5%
		Sulfur Dioxide (SO2)	1 Hr	690	20.62	20.63	<0.1%	32.75	5%	37.0%
			24 Hr	275	19.42	19.42	<0.1%	20.96	8%	7.3%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	5.97	11%	0.3%		

Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
273	Future Industrial 11	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1802.89	1809.54	0.4%	1837.17	5%	1.9%
			8 Hr	15700	1254.15	1254.97	<0.1%	1259.41	8%	0.4%
			24 Hr	-	1189.01	1189.62	<0.1%	1191.12	-	0.2%
			Annual	-	662.34	662.45	<0.1%	662.52	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	119.98	122.24	1.8%	189.95	47%	36.8%
			24 Hr	200	77.99	78.26	0.3%	82.28	41%	5.2%
			Annual <sup>4</sup>	100	39.64	39.67	<0.1%	39.74	40%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.68	24.73	0.2%	29.52	-	16.4%
			24 Hr <sup>3</sup>	30	20.71	20.72	<0.1%	21.17	71%	2.1%
			Annual	-	9.82	9.82	<0.1%	9.83	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.85	2.91	2.2%	16.34	-	82.6%
			24 Hr <sup>3</sup>	50	0.43	0.44	1.6%	1.37	3%	68.6%
			Annual	-	0.06	0.06	1.1%	0.12	-	51.1%
		Total Particulate Matter	1 Hr	-	91.86	91.99	0.1%	158.54	-	42.1%
			24 Hr	120	36.25	36.26	<0.1%	40.89	34%	11.4%
			Annual <sup>4</sup>	60	21.39	21.39	<0.1%	21.67	36%	1.3%
		Sulfur Dioxide (SO2)	1 Hr	690	19.99	19.99	<0.1%	39.59	6%	49.5%
			24 Hr	275	19.36	19.36	<0.1%	20.53	7%	5.7%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.2%		
274	Future Industrial 12	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2238.22	2246.47	0.4%	2258.67	6%	0.9%
			8 Hr	15700	1356.11	1357.14	<0.1%	1360.73	9%	0.3%
			24 Hr	-	1263.97	1264.73	<0.1%	1266.05	-	0.2%
			Annual	-	676.71	676.85	<0.1%	676.90	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	126.34	129.68	2.6%	162.47	41%	22.2%
			24 Hr	200	83.93	84.27	0.4%	87.79	44%	4.4%
			Annual <sup>4</sup>	100	41.52	41.56	0.1%	41.66	42%	0.3%
		Particulate Matter PM2.5	1 Hr	-	25.67	25.74	0.3%	28.29	-	9.2%
			24 Hr <sup>3</sup>	30	20.80	20.81	<0.1%	21.29	71%	2.3%
			Annual	-	9.84	9.84	<0.1%	9.85	-	0.1%
		Particulate Matter PM10	1 Hr	-	4.32	4.40	1.9%	9.51	-	54.6%
			24 Hr <sup>3</sup>	50	0.57	0.57	1.5%	1.06	2%	46.5%
			Annual	-	0.10	0.10	1.1%	0.12	-	20.0%
		Total Particulate Matter	1 Hr	-	94.79	94.96	0.2%	120.27	-	21.2%
			24 Hr	120	36.52	36.54	<0.1%	38.05	32%	4.0%
			Annual <sup>4</sup>	60	21.47	21.47	<0.1%	21.56	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	20.23	20.24	<0.1%	29.75	4%	32.0%
			24 Hr	275	19.38	19.38	<0.1%	20.40	7%	5.0%
Annual <sup>3</sup>	55		5.94	5.94	<0.1%	5.97	11%	0.4%		

Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
275	Farm D	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2100.75	2108.08	0.3%	2121.75	6%	1.0%
			8 Hr	15700	1341.21	1342.13	<0.1%	1345.68	9%	0.3%
			24 Hr	-	1253.02	1253.70	<0.1%	1254.94	-	0.2%
			Annual	-	674.61	674.74	<0.1%	674.78	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	124.43	127.69	2.6%	164.43	41%	24.3%
			24 Hr	200	81.01	81.34	0.4%	84.67	42%	4.3%
			Annual <sup>4</sup>	100	40.86	40.89	<0.1%	40.99	41%	0.3%
		Particulate Matter PM2.5	1 Hr	-	25.35	25.41	0.2%	27.96	-	9.4%
			24 Hr <sup>3</sup>	30	20.76	20.76	<0.1%	21.23	71%	2.2%
			Annual	-	9.83	9.84	<0.1%	9.85	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.86	3.94	2.0%	8.13	-	52.5%
			24 Hr <sup>3</sup>	50	0.50	0.51	1.6%	0.98	2%	49.3%
			Annual	-	0.08	0.09	1.0%	0.11	-	21.9%
		Total Particulate Matter	1 Hr	-	93.88	94.04	0.2%	114.78	-	18.2%
			24 Hr	120	36.38	36.40	<0.1%	37.69	31%	3.5%
			Annual <sup>4</sup>	60	21.44	21.45	<0.1%	21.53	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	20.15	20.16	<0.1%	30.81	4%	34.6%
			24 Hr	275	19.37	19.37	<0.1%	20.34	7%	4.8%
Annual <sup>3</sup>	55		5.94	5.94	<0.1%	5.97	11%	0.5%		
276	Farm E	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1871.63	1876.21	0.2%	1884.69	5%	0.7%
			8 Hr	15700	1207.18	1207.75	<0.1%	1210.54	8%	0.3%
			24 Hr	-	1154.48	1154.90	<0.1%	1155.97	-	0.1%
			Annual	-	655.72	655.80	<0.1%	655.83	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	121.03	122.78	1.4%	145.56	36%	16.9%
			24 Hr	200	71.60	71.75	0.2%	74.60	37%	4.0%
			Annual <sup>4</sup>	100	38.04	38.04	<0.1%	38.13	38%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.82	24.85	0.1%	27.02	-	8.1%
			24 Hr <sup>3</sup>	30	20.62	20.63	<0.1%	20.98	70%	1.7%
			Annual	-	9.79	9.79	<0.1%	9.80	-	<0.1%
		Particulate Matter PM10	1 Hr	-	3.06	3.10	1.4%	5.78	-	47.1%
			24 Hr <sup>3</sup>	50	0.29	0.30	1.2%	0.65	1%	55.2%
			Annual	-	0.02	0.02	0.9%	0.03	-	34.4%
		Total Particulate Matter	1 Hr	-	92.28	92.36	<0.1%	105.60	-	12.6%
			24 Hr	120	35.97	35.98	<0.1%	36.80	31%	2.2%
			Annual <sup>4</sup>	60	21.32	21.32	<0.1%	21.34	36%	0.1%
		Sulfur Dioxide (SO2)	1 Hr	690	20.02	20.02	<0.1%	26.63	4%	24.8%
			24 Hr	275	19.34	19.34	<0.1%	20.16	7%	4.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.4%		



Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
277	Residence	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	4151.38	4165.13	0.3%	4171.63	12%	0.5%
			8 Hr	15700	1809.77	1811.48	<0.1%	1814.69	12%	0.3%
			24 Hr	-	1597.50	1598.77	<0.1%	1600.13	-	0.2%
			Annual	-	740.63	740.88	<0.1%	740.94	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	155.55	162.82	4.5%	180.23	45%	13.7%
			24 Hr	200	105.74	106.24	0.5%	109.90	55%	3.8%
			Annual <sup>4</sup>	100	43.98	44.03	0.1%	44.19	44%	0.5%
		Particulate Matter PM2.5	1 Hr	-	30.29	30.44	0.5%	32.61	-	7.1%
			24 Hr <sup>3</sup>	30	21.12	21.13	<0.1%	21.58	72%	2.2%
			Annual	-	9.88	9.88	<0.1%	9.89	-	0.1%
		Particulate Matter PM10	1 Hr	-	11.42	11.60	1.6%	14.67	-	22.1%
			24 Hr <sup>3</sup>	50	1.05	1.06	1.0%	1.52	3%	30.9%
			Annual	-	0.15	0.15	0.8%	0.17	-	11.0%
		Total Particulate Matter	1 Hr	-	109.00	109.37	0.3%	124.52	-	12.5%
			24 Hr	120	37.48	37.50	<0.1%	38.44	32%	2.5%
			Annual <sup>4</sup>	60	21.58	21.58	<0.1%	21.62	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	21.39	21.41	<0.1%	26.45	4%	19.1%
			24 Hr	275	19.46	19.46	<0.1%	20.52	7%	5.2%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	5.99	11%	0.8%		
278	Farm F	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	3693.14	3702.53	0.3%	3708.73	10%	0.4%
			8 Hr	15700	1625.32	1626.49	<0.1%	1629.64	10%	0.3%
			24 Hr	-	1461.90	1462.76	<0.1%	1463.96	-	0.1%
			Annual	-	714.64	714.81	<0.1%	714.87	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	148.55	153.85	3.4%	170.50	43%	12.9%
			24 Hr	200	95.71	96.01	0.3%	99.18	50%	3.5%
			Annual <sup>4</sup>	100	39.94	39.96	<0.1%	40.13	40%	0.5%
		Particulate Matter PM2.5	1 Hr	-	29.18	29.28	0.4%	31.27	-	6.7%
			24 Hr <sup>3</sup>	30	20.97	20.98	<0.1%	21.41	71%	2.0%
			Annual	-	9.82	9.82	<0.1%	9.84	-	0.1%
		Particulate Matter PM10	1 Hr	-	9.70	9.84	1.3%	11.96	-	18.8%
			24 Hr <sup>3</sup>	50	0.82	0.83	0.8%	1.26	3%	34.8%
			Annual	-	0.06	0.06	0.9%	0.08	-	22.2%
		Total Particulate Matter	1 Hr	-	105.57	105.83	0.2%	116.32	-	9.2%
			24 Hr	120	37.04	37.05	<0.1%	37.77	31%	1.9%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.44	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	21.11	21.12	<0.1%	25.95	4%	18.7%
			24 Hr	275	19.43	19.43	<0.1%	20.34	7%	4.5%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.98	11%	0.8%		



**Appendix I-1 - Offsite Traffic Predictions (140,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period <sup>1</sup>	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources +Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
296	Former Restaurant	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	3647.31	3662.67	0.4%	3672.51	10%	0.7%
			8 Hr	15700	1631.05	1632.98	0.1%	1636.20	10%	0.3%
			24 Hr	-	1466.11	1467.53	<0.1%	1468.77	-	0.2%
			Annual	-	715.45	715.72	<0.1%	715.76	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	148.07	154.05	3.9%	178.56	45%	17.1%
			24 Hr	200	104.53	105.14	0.6%	108.43	54%	3.6%
			Annual <sup>4</sup>	100	46.47	46.59	0.2%	46.68	47%	0.5%
		Particulate Matter PM2.5	1 Hr	-	29.01	29.13	0.4%	31.62	-	8.3%
			24 Hr <sup>3</sup>	30	21.10	21.11	<0.1%	21.64	72%	2.5%
			Annual	-	9.92	9.92	<0.1%	9.93	-	0.1%
		Particulate Matter PM10	1 Hr	-	9.46	9.61	1.6%	14.24	-	33.6%
			24 Hr <sup>3</sup>	50	1.02	1.04	1.5%	1.57	3%	34.7%
			Annual	-	0.21	0.21	1.4%	0.23	-	9.5%
		Total Particulate Matter	1 Hr	-	105.08	105.38	0.3%	128.32	-	18.1%
			24 Hr	120	37.43	37.46	<0.1%	38.69	32%	3.3%
			Annual <sup>4</sup>	60	21.69	21.70	<0.1%	21.76	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	21.07	21.09	<0.1%	28.18	4%	25.2%
			24 Hr	275	19.46	19.46	<0.1%	20.41	7%	4.6%
Annual <sup>3</sup>	55		5.96	5.96	<0.1%	5.99	11%	0.5%		
Overall Maxima	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	4151.38	4165.13	1.0%	4171.63	12%	3%	
		8 Hr	15700	1809.77	1811.48	0.2%	1814.69	12%	0.7%	
		24 Hr	-	1597.50	1598.77	0.2%	1600.13	-	0.3%	
		Annual	-	740.63	740.88	<0.1%	740.94	-	0.0%	
	Nitrogen Oxides (NOx)	1 Hr	400	155.55	162.82	7.1%	193.16	48%	37%	
		24 Hr	200	105.74	106.24	1.1%	109.90	55%	7%	
		Annual <sup>4</sup>	100	46.47	46.59	0.5%	46.68	47%	1%	
	Particulate Matter PM2.5	1 Hr	-	30.29	30.44	1.0%	32.61	-	18%	
		24 Hr <sup>3</sup>	30	21.12	21.13	0.1%	21.64	72%	3%	
		Annual	-	9.92	9.92	<0.1%	9.93	-	0.3%	
	Particulate Matter PM10	1 Hr	-	11.42	11.60	5.9%	22.26	-	86%	
		24 Hr <sup>3</sup>	50	1.05	1.06	4.0%	2.07	4%	84%	
		Annual	-	0.21	0.21	4.5%	0.24	-	66%	
	Total Particulate Matter	1 Hr	-	109.00	109.37	0.7%	186.99	-	51%	
		24 Hr	120	37.48	37.50	0.2%	44.17	37%	18%	
		Annual <sup>4</sup>	60	21.69	21.70	<0.1%	22.02	37%	3%	
	Sulfur Dioxide (SO2)	1 Hr	690	21.39	21.41	0.1%	39.59	6%	50%	
		24 Hr	275	19.46	19.46	<0.1%	21.20	8%	9%	
Annual <sup>3</sup>		55	5.96	5.96	<0.1%	5.99	11%	0.8%		

Notes:

<sup>1</sup> Reg419/05 Schedule 3 Criteria unless stated otherwise

<sup>2</sup> O. Reg. 419 Guidelines

<sup>3</sup> Ontario's ambient air quality criteria

<sup>4</sup> National Ambient Air Quality Objectives



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
3	Recreational 5	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1917.45	1925.01	0.4%	1946.00	5%	1.5%
			8 Hr	15700	1243.84	1244.78	<0.1%	1252.27	8%	0.7%
			24 Hr	-	1181.43	1182.12	<0.1%	1185.04	-	0.3%
			Annual	-	660.88	661.02	<0.1%	661.12	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	121.08	122.41	1.1%	178.87	45%	32.3%
			24 Hr	200	70.19	70.30	0.2%	78.11	39%	10.1%
			Annual <sup>4</sup>	100	39.00	39.01	<0.1%	39.26	39%	0.7%
		Particulate Matter PM2.5	1 Hr	-	24.93	24.96	0.1%	29.32	-	15.0%
			24 Hr <sup>3</sup>	30	20.61	20.62	<0.1%	21.42	71%	3.8%
			Annual	-	9.81	9.81	<0.1%	9.84	-	0.3%
		Particulate Matter PM10	1 Hr	-	3.23	3.27	1.1%	7.63	-	57.6%
			24 Hr <sup>3</sup>	50	0.28	0.28	1.1%	1.09	2%	74.8%
			Annual	-	0.05	0.05	0.8%	0.08	-	39.8%
		Total Particulate Matter	1 Hr	-	92.62	92.69	<0.1%	112.98	-	18.0%
			24 Hr	120	35.94	35.94	<0.1%	38.22	32%	6.0%
			Annual <sup>4</sup>	60	21.37	21.38	<0.1%	21.45	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	20.05	20.05	<0.1%	36.37	5%	44.9%
			24 Hr	275	19.34	19.34	<0.1%	21.59	8%	10.4%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.00	11%	1.2%		
6	ECO 6	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1837.26	1842.76	0.3%	1861.01	5%	1.3%
			8 Hr	15700	1207.18	1207.87	<0.1%	1212.43	8%	0.4%
			24 Hr	-	1154.48	1154.99	<0.1%	1156.81	-	0.2%
			Annual	-	655.72	655.82	<0.1%	655.86	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.50	122.60	1.7%	171.70	43%	29.8%
			24 Hr	200	72.55	72.78	0.3%	77.68	39%	6.6%
			Annual <sup>4</sup>	100	38.43	38.44	<0.1%	38.54	39%	0.3%
		Particulate Matter PM2.5	1 Hr	-	24.75	24.79	0.2%	29.40	-	15.8%
			24 Hr <sup>3</sup>	30	20.64	20.64	<0.1%	21.65	72%	4.7%
			Annual	-	9.80	9.80	<0.1%	9.81	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.95	2.99	1.6%	7.61	-	61.3%
			24 Hr <sup>3</sup>	50	0.31	0.32	1.8%	1.33	3%	76.3%
			Annual	-	0.03	0.03	0.9%	0.05	-	38.7%
		Total Particulate Matter	1 Hr	-	92.05	92.15	0.1%	106.24	-	13.4%
			24 Hr	120	36.02	36.03	<0.1%	37.05	31%	2.8%
			Annual <sup>4</sup>	60	21.34	21.34	<0.1%	21.38	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	20.00	20.01	<0.1%	34.20	5%	41.5%
			24 Hr	275	19.34	19.34	<0.1%	20.76	8%	6.8%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.96	11%	0.5%		



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
11	ECO 11	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1653.96	1658.78	0.3%	1673.33	5%	1.2%
			8 Hr	15700	1185.41	1186.01	<0.1%	1191.46	8%	0.5%
			24 Hr	-	1138.48	1138.92	<0.1%	1141.18	-	0.2%
			Annual	-	652.65	652.74	<0.1%	652.77	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	117.36	118.58	1.0%	157.72	39%	25.6%
			24 Hr	200	69.00	69.11	0.2%	75.11	38%	8.1%
			Annual <sup>4</sup>	100	38.07	38.08	<0.1%	38.15	38%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.27	24.29	0.1%	28.18	-	13.9%
			24 Hr <sup>3</sup>	30	20.59	20.59	<0.1%	21.49	72%	4.2%
			Annual	-	9.79	9.79	<0.1%	9.81	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.21	2.24	1.5%	6.15	-	64.0%
			24 Hr <sup>3</sup>	50	0.24	0.24	1.2%	1.14	2%	79.4%
			Annual	-	0.02	0.02	0.9%	0.04	-	44.5%
		Total Particulate Matter	1 Hr	-	90.58	90.65	<0.1%	101.60	-	10.8%
			24 Hr	120	35.86	35.86	<0.1%	37.07	31%	3.3%
			Annual <sup>4</sup>	60	21.32	21.32	<0.1%	21.37	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	19.88	19.88	<0.1%	31.20	5%	36.3%
			24 Hr	275	19.33	19.33	<0.1%	21.06	8%	8.2%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.3%		
12	Recreational 4	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1974.73	1981.61	0.3%	2003.07	6%	1.4%
			8 Hr	15700	1286.23	1287.10	<0.1%	1292.42	8%	0.5%
			24 Hr	-	1212.60	1213.24	<0.1%	1215.66	-	0.3%
			Annual	-	666.86	666.98	<0.1%	667.07	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	122.38	124.32	1.6%	182.08	46%	32.8%
			24 Hr	200	72.77	72.92	0.2%	79.41	40%	8.4%
			Annual <sup>4</sup>	100	39.48	39.50	<0.1%	39.73	40%	0.6%
		Particulate Matter PM2.5	1 Hr	-	25.11	25.15	0.2%	29.70	-	15.5%
			24 Hr <sup>3</sup>	30	20.65	20.66	<0.1%	21.50	72%	3.9%
			Annual	-	9.82	9.82	<0.1%	9.84	-	0.3%
		Particulate Matter PM10	1 Hr	-	3.50	3.55	1.5%	8.10	-	56.8%
			24 Hr <sup>3</sup>	50	0.34	0.34	1.1%	1.20	2%	72.0%
			Annual	-	0.06	0.06	0.8%	0.09	-	35.4%
		Total Particulate Matter	1 Hr	-	93.16	93.27	0.1%	113.25	-	17.7%
			24 Hr	120	36.06	36.07	<0.1%	37.92	32%	4.9%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.47	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	20.09	20.10	<0.1%	36.79	5%	45.4%
			24 Hr	275	19.35	19.35	<0.1%	21.22	8%	8.8%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.00	11%	1.1%		

Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
13	Future Industrial 9	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1608.14	1618.91	0.7%	1655.03	5%	2.8%
			8 Hr	15700	1194.58	1195.93	0.1%	1203.65	8%	0.8%
			24 Hr	-	1145.22	1146.21	<0.1%	1148.87	-	0.3%
			Annual	-	653.94	654.13	<0.1%	654.22	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	116.72	118.36	1.4%	215.53	54%	45.8%
			24 Hr	200	68.82	69.05	0.3%	76.07	38%	9.5%
			Annual <sup>4</sup>	100	38.46	38.47	<0.1%	38.63	39%	0.5%
		Particulate Matter PM2.5	1 Hr	-	24.22	24.27	0.2%	31.60	-	23.3%
			24 Hr <sup>3</sup>	30	20.59	20.60	<0.1%	21.48	72%	4.1%
			Annual	-	9.80	9.80	<0.1%	9.82	-	0.2%
		Particulate Matter PM10	1 Hr	-	2.15	2.20	2.5%	9.55	-	77.5%
			24 Hr <sup>3</sup>	50	0.24	0.25	3.0%	1.16	2%	78.9%
			Annual	-	0.03	0.03	1.2%	0.08	-	58.5%
		Total Particulate Matter	1 Hr	-	90.45	90.56	0.1%	124.11	-	27.1%
			24 Hr	120	35.87	35.89	<0.1%	39.18	33%	8.4%
			Annual <sup>4</sup>	60	21.34	21.34	<0.1%	21.52	36%	0.9%
		Sulfur Dioxide (SO2)	1 Hr	690	19.87	19.88	<0.1%	47.96	7%	58.6%
			24 Hr	275	19.33	19.33	<0.1%	21.35	8%	9.5%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.97	11%	0.7%		
14	Future Industrial 10	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2444.43	2468.03	1.0%	2511.98	7%	2.7%
			8 Hr	15700	1448.90	1452.09	0.2%	1463.09	9%	1.0%
			24 Hr	-	1332.19	1334.54	0.2%	1338.80	-	0.5%
			Annual	-	689.78	690.23	<0.1%	690.33	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	128.91	138.77	7.1%	253.71	63%	49.2%
			24 Hr	200	94.16	95.17	1.1%	106.52	53%	11.6%
			Annual <sup>4</sup>	100	44.11	44.34	0.5%	44.51	45%	0.9%
		Particulate Matter PM2.5	1 Hr	-	26.18	26.44	1.0%	36.98	-	29.2%
			24 Hr <sup>3</sup>	30	20.97	21.00	0.1%	22.33	74%	6.1%
			Annual	-	9.89	9.90	<0.1%	9.92	-	0.3%
		Particulate Matter PM10	1 Hr	-	5.14	5.47	5.9%	19.18	-	73.2%
			24 Hr <sup>3</sup>	50	0.82	0.85	4.0%	2.30	5%	64.4%
			Annual	-	0.17	0.18	4.5%	0.25	-	32.9%
		Total Particulate Matter	1 Hr	-	96.45	97.09	0.7%	165.10	-	41.6%
			24 Hr	120	37.03	37.09	0.2%	43.09	36%	14.1%
			Annual <sup>4</sup>	60	21.61	21.63	<0.1%	21.95	37%	1.6%
		Sulfur Dioxide (SO2)	1 Hr	690	20.36	20.39	0.1%	53.52	8%	62.0%
			24 Hr	275	19.42	19.43	<0.1%	22.69	8%	14.4%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	5.99	11%	0.7%		



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
240	Recreational 1	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2329.87	2340.41	0.5%	2355.00	7%	1.1%
			8 Hr	15700	1346.94	1348.25	<0.1%	1354.30	9%	0.5%
			24 Hr	-	1257.23	1258.19	<0.1%	1260.56	-	0.3%
			Annual	-	675.41	675.60	<0.1%	675.69	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	128.09	131.29	2.4%	170.52	43%	24.9%
			24 Hr	200	78.14	78.38	0.3%	84.75	42%	7.8%
			Annual <sup>4</sup>	100	39.96	39.99	<0.1%	40.22	40%	0.6%
		Particulate Matter PM2.5	1 Hr	-	26.00	26.06	0.2%	30.05	-	13.5%
			24 Hr <sup>3</sup>	30	20.72	20.73	<0.1%	21.62	72%	4.2%
			Annual	-	9.82	9.82	<0.1%	9.85	-	0.3%
		Particulate Matter PM10	1 Hr	-	4.86	4.94	1.6%	9.34	-	48.0%
			24 Hr <sup>3</sup>	50	0.44	0.45	1.3%	1.36	3%	67.4%
			Annual	-	0.07	0.07	1.0%	0.10	-	32.1%
		Total Particulate Matter	1 Hr	-	95.87	96.04	0.2%	117.86	-	18.7%
			24 Hr	120	36.27	36.28	<0.1%	37.67	31%	3.7%
			Annual <sup>4</sup>	60	21.41	21.41	<0.1%	21.47	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.32	20.32	<0.1%	31.66	5%	35.8%
			24 Hr	275	19.36	19.36	<0.1%	21.20	8%	8.7%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.00	11%	1.1%		
241	Recreational 2	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2089.29	2098.23	0.4%	2119.44	6%	1.4%
			8 Hr	15700	1304.55	1305.68	<0.1%	1311.55	8%	0.5%
			24 Hr	-	1226.07	1226.90	<0.1%	1229.55	-	0.3%
			Annual	-	669.44	669.60	<0.1%	669.69	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	124.06	126.46	1.9%	182.37	46%	32.0%
			24 Hr	200	73.45	73.63	0.3%	80.70	40%	9.0%
			Annual <sup>4</sup>	100	39.59	39.61	<0.1%	39.83	40%	0.6%
		Particulate Matter PM2.5	1 Hr	-	25.36	25.41	0.2%	29.62	-	14.4%
			24 Hr <sup>3</sup>	30	20.66	20.66	<0.1%	21.53	72%	4.0%
			Annual	-	9.82	9.82	<0.1%	9.84	-	0.2%
		Particulate Matter PM10	1 Hr	-	3.88	3.94	1.6%	8.16	-	52.4%
			24 Hr <sup>3</sup>	50	0.35	0.35	1.3%	1.23	2%	71.9%
			Annual	-	0.06	0.06	0.9%	0.09	-	34.8%
		Total Particulate Matter	1 Hr	-	93.92	94.05	0.1%	113.66	-	17.4%
			24 Hr	120	36.08	36.09	<0.1%	37.28	31%	3.2%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.47	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.16	20.16	<0.1%	36.32	5%	44.5%
			24 Hr	275	19.35	19.35	<0.1%	21.39	8%	9.5%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.00	11%	1.0%		



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
242	Recreational 3	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1997.65	2005.44	0.4%	2026.68	6%	1.4%
			8 Hr	15700	1293.10	1294.08	<0.1%	1299.63	8%	0.5%
			24 Hr	-	1217.65	1218.37	<0.1%	1221.09	-	0.3%
			Annual	-	667.83	667.97	<0.1%	668.06	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	122.89	125.01	1.7%	182.16	46%	32.5%
			24 Hr	200	72.86	73.02	0.2%	80.27	40%	9.2%
			Annual <sup>4</sup>	100	39.43	39.45	<0.1%	39.67	40%	0.6%
		Particulate Matter PM2.5	1 Hr	-	25.18	25.22	0.2%	29.72	-	15.3%
			24 Hr <sup>3</sup>	30	20.65	20.65	<0.1%	21.51	72%	4.0%
			Annual	-	9.82	9.82	<0.1%	9.84	-	0.2%
		Particulate Matter PM10	1 Hr	-	3.61	3.66	1.5%	8.16	-	55.8%
			24 Hr <sup>3</sup>	50	0.33	0.34	1.2%	1.20	2%	72.2%
			Annual	-	0.06	0.06	0.9%	0.09	-	36.1%
		Total Particulate Matter	1 Hr	-	93.38	93.49	0.1%	113.49	-	17.7%
			24 Hr	120	36.05	36.06	<0.1%	37.65	31%	4.2%
			Annual <sup>4</sup>	60	21.39	21.39	<0.1%	21.47	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.11	20.12	<0.1%	36.63	5%	45.1%
			24 Hr	275	19.34	19.35	<0.1%	21.44	8%	9.8%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.00	11%	1.1%		
265	Future Industrial 7	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1860.17	1874.15	0.7%	1919.96	5%	3.1%
			8 Hr	15700	1271.33	1273.19	0.1%	1279.39	8%	0.6%
			24 Hr	-	1201.65	1203.01	0.1%	1205.48	-	0.3%
			Annual	-	664.76	665.02	<0.1%	665.17	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.36	125.27	3.9%	189.55	47%	36.5%
			24 Hr	200	75.52	75.93	0.5%	81.97	41%	7.9%
			Annual <sup>4</sup>	100	39.76	39.85	0.2%	40.01	40%	0.6%
		Particulate Matter PM2.5	1 Hr	-	24.84	24.97	0.5%	32.52	-	23.6%
			24 Hr <sup>3</sup>	30	20.69	20.70	<0.1%	21.67	72%	4.5%
			Annual	-	9.82	9.83	<0.1%	9.86	-	0.4%
		Particulate Matter PM10	1 Hr	-	3.08	3.24	5.0%	22.26	-	86.2%
			24 Hr <sup>3</sup>	50	0.40	0.41	3.3%	2.02	4%	80.4%
			Annual	-	0.07	0.07	4.5%	0.20	-	67.1%
		Total Particulate Matter	1 Hr	-	92.31	92.64	0.3%	186.99	-	50.6%
			24 Hr	120	36.18	36.21	<0.1%	44.17	37%	18.1%
			Annual <sup>4</sup>	60	21.41	21.41	<0.1%	22.03	37%	2.8%
		Sulfur Dioxide (SO2)	1 Hr	690	20.03	20.04	<0.1%	38.61	6%	48.1%
			24 Hr	275	19.36	19.36	<0.1%	21.09	8%	8.2%
Annual <sup>3</sup>	55		5.93	5.94	<0.1%	5.97	11%	0.5%		

Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
267	Future Industrial 1	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1642.51	1651.22	0.5%	1678.33	5%	2.1%
			8 Hr	15700	1206.03	1207.11	<0.1%	1213.53	8%	0.6%
			24 Hr	-	1153.64	1154.43	<0.1%	1156.65	-	0.3%
			Annual	-	655.56	655.71	<0.1%	655.77	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	117.43	118.70	1.1%	191.64	48%	38.7%
			24 Hr	200	69.35	69.52	0.2%	75.39	38%	8.0%
			Annual <sup>4</sup>	100	38.61	38.62	<0.1%	38.71	39%	0.3%
		Particulate Matter PM2.5	1 Hr	-	24.29	24.32	0.1%	30.82	-	21.2%
			24 Hr <sup>3</sup>	30	20.59	20.60	<0.1%	21.57	72%	4.5%
			Annual	-	9.80	9.80	<0.1%	9.82	-	0.2%
		Particulate Matter PM10	1 Hr	-	2.24	2.29	1.8%	11.28	-	80.1%
			24 Hr <sup>3</sup>	50	0.24	0.25	2.1%	1.52	3%	84.0%
			Annual	-	0.03	0.04	1.1%	0.08	-	56.6%
		Total Particulate Matter	1 Hr	-	90.65	90.73	<0.1%	135.30	-	33.0%
			24 Hr	120	35.87	35.88	<0.1%	42.20	35%	15.0%
			Annual <sup>4</sup>	60	21.34	21.35	<0.1%	21.53	36%	0.9%
		Sulfur Dioxide (SO2)	1 Hr	690	19.89	19.89	<0.1%	40.97	6%	51.5%
			24 Hr	275	19.33	19.33	<0.1%	21.02	8%	8.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.4%		
268	Future Industrial 2	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1699.79	1704.83	0.3%	1734.99	5%	2.0%
			8 Hr	15700	1219.78	1220.42	<0.1%	1227.36	8%	0.6%
			24 Hr	-	1163.75	1164.22	<0.1%	1166.55	-	0.2%
			Annual	-	657.49	657.58	<0.1%	657.63	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	118.23	119.51	1.1%	200.64	50%	41.1%
			24 Hr	200	69.98	70.13	0.2%	76.40	38%	8.4%
			Annual <sup>4</sup>	100	38.65	38.66	<0.1%	38.74	39%	0.2%
		Particulate Matter PM2.5	1 Hr	-	24.41	24.44	0.1%	30.79	-	20.7%
			24 Hr <sup>3</sup>	30	20.60	20.60	<0.1%	21.61	72%	4.7%
			Annual	-	9.80	9.80	<0.1%	9.82	-	0.1%
		Particulate Matter PM10	1 Hr	-	2.43	2.47	1.6%	8.82	-	72.5%
			24 Hr <sup>3</sup>	50	0.26	0.26	1.6%	1.27	3%	79.8%
			Annual	-	0.04	0.04	1.0%	0.06	-	43.2%
		Total Particulate Matter	1 Hr	-	91.02	91.10	<0.1%	112.08	-	18.8%
			24 Hr	120	35.90	35.91	<0.1%	37.65	31%	4.7%
			Annual <sup>4</sup>	60	21.35	21.35	<0.1%	21.44	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	19.92	19.92	<0.1%	43.37	6%	54.1%
			24 Hr	275	19.33	19.33	<0.1%	21.14	8%	8.6%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.4%		

Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)		
269	Future Industrial 3	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2295.50	2311.31	0.7%	2352.06	6%	2.4%		
			8 Hr	15700	1383.60	1385.69	0.2%	1394.52	9%	0.8%		
			24 Hr	-	1284.19	1285.72	0.1%	1288.91	-	0.4%		
			Annual	-	680.58	680.87	<0.1%	680.96	-	<0.1%		
		Nitrogen Oxides (NOx)	1 Hr	400	126.99	130.79	2.9%	240.41	60%	47.2%		
			24 Hr	200	87.28	87.60	0.4%	96.11	48%	9.2%		
			Annual <sup>4</sup>	100	42.20	42.26	0.1%	42.42	42%	0.5%		
		Particulate Matter PM2.5	1 Hr	-	25.78	25.87	0.3%	36.18	-	28.7%		
			24 Hr <sup>3</sup>	30	20.85	20.86	<0.1%	21.97	73%	5.1%		
			Annual	-	9.85	9.86	<0.1%	9.88	-	0.3%		
		Particulate Matter PM10	1 Hr	-	4.53	4.64	2.3%	14.97	-	69.7%		
			24 Hr <sup>3</sup>	50	0.64	0.65	1.4%	1.85	4%	65.6%		
			Annual	-	0.11	0.12	1.5%	0.18	-	35.2%		
		Total Particulate Matter	1 Hr	-	95.22	95.44	0.2%	139.14	-	31.6%		
			24 Hr	120	36.66	36.68	<0.1%	40.93	34%	10.4%		
			Annual <sup>4</sup>	60	21.50	21.51	<0.1%	21.75	36%	1.1%		
		Sulfur Dioxide (SO2)	1 Hr	690	20.26	20.27	<0.1%	51.96	8%	61.0%		
			24 Hr	275	19.39	19.40	<0.1%	21.85	8%	11.2%		
			Annual <sup>3</sup>	55	5.94	5.94	<0.1%	5.98	11%	0.7%		
		270	Future Industrial 4	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1688.33	1696.12	0.5%	1718.35	5%	1.7%
					8 Hr	15700	1198.01	1199.00	<0.1%	1204.50	8%	0.5%
24 Hr	-				1147.74	1148.47	<0.1%	1150.78	-	0.3%		
Annual	-				654.43	654.57	<0.1%	654.68	-	<0.1%		
Nitrogen Oxides (NOx)	1 Hr			400	118.18	120.55	2.0%	180.23	45%	34.4%		
	24 Hr			200	69.90	70.05	0.2%	76.15	38%	8.2%		
	Annual <sup>4</sup>			100	38.57	38.59	<0.1%	38.86	39%	0.7%		
Particulate Matter PM2.5	1 Hr			-	24.45	24.51	0.2%	30.50	-	19.8%		
	24 Hr <sup>3</sup>			30	20.61	20.61	<0.1%	21.45	72%	3.9%		
	Annual			-	9.80	9.80	<0.1%	9.83	-	0.3%		
Particulate Matter PM10	1 Hr			-	2.49	2.57	2.8%	10.36	-	75.9%		
	24 Hr <sup>3</sup>			50	0.27	0.27	1.7%	1.14	2%	76.5%		
	Annual			-	0.04	0.04	1.4%	0.08	-	56.9%		
Total Particulate Matter	1 Hr			-	91.15	91.29	0.2%	129.94	-	29.9%		
	24 Hr			120	35.92	35.93	<0.1%	39.05	33%	8.0%		
	Annual <sup>4</sup>			60	21.35	21.35	<0.1%	21.50	36%	0.7%		
Sulfur Dioxide (SO2)	1 Hr			690	19.93	19.93	<0.1%	37.11	5%	46.3%		
	24 Hr			275	19.33	19.33	<0.1%	21.09	8%	8.3%		
	Annual <sup>3</sup>			55	5.93	5.93	<0.1%	6.01	11%	1.3%		

Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
271	Future Industrial 5	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1871.63	1876.90	0.3%	1905.34	5%	1.8%
			8 Hr	15700	1241.55	1242.21	<0.1%	1248.06	8%	0.5%
			24 Hr	-	1179.75	1180.24	<0.1%	1182.43	-	0.2%
			Annual	-	660.56	660.66	<0.1%	660.70	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	120.76	122.88	1.7%	199.39	50%	39.4%
			24 Hr	200	74.63	74.85	0.3%	80.70	40%	7.5%
			Annual <sup>4</sup>	100	38.87	38.89	<0.1%	38.98	39%	0.3%
		Particulate Matter PM2.5	1 Hr	-	24.80	24.84	0.2%	30.91	-	19.8%
			24 Hr <sup>3</sup>	30	20.67	20.67	<0.1%	21.72	72%	4.9%
			Annual	-	9.81	9.81	<0.1%	9.82	-	0.1%
		Particulate Matter PM10	1 Hr	-	3.02	3.07	1.6%	9.15	-	67.0%
			24 Hr <sup>3</sup>	50	0.36	0.36	1.5%	1.41	3%	74.8%
			Annual	-	0.04	0.04	0.9%	0.06	-	35.6%
		Total Particulate Matter	1 Hr	-	92.20	92.31	0.1%	112.24	-	17.9%
			24 Hr	120	36.10	36.11	<0.1%	37.40	31%	3.5%
			Annual <sup>4</sup>	60	21.36	21.36	<0.1%	21.42	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	20.02	20.02	<0.1%	42.14	6%	52.5%
			24 Hr	275	19.35	19.35	<0.1%	21.03	8%	8.0%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.95	11%	0.4%		
272	Future Industrial 6	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2902.67	2913.44	0.4%	2938.60	8%	1.2%
			8 Hr	15700	1474.10	1475.46	<0.1%	1482.61	9%	0.6%
			24 Hr	-	1350.72	1351.72	<0.1%	1355.14	-	0.3%
			Annual	-	693.33	693.52	<0.1%	693.59	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	136.42	141.21	3.4%	208.70	52%	34.6%
			24 Hr	200	95.62	96.05	0.4%	105.04	53%	9.0%
			Annual <sup>4</sup>	100	44.24	44.31	0.2%	44.46	44%	0.5%
		Particulate Matter PM2.5	1 Hr	-	27.23	27.32	0.4%	34.01	-	19.9%
			24 Hr <sup>3</sup>	30	20.96	20.97	<0.1%	22.57	75%	7.1%
			Annual	-	9.88	9.88	<0.1%	9.90	-	0.2%
		Particulate Matter PM10	1 Hr	-	6.73	6.85	1.7%	13.54	-	50.3%
			24 Hr <sup>3</sup>	50	0.81	0.82	1.3%	2.43	5%	66.5%
			Annual	-	0.16	0.16	1.1%	0.20	-	19.6%
		Total Particulate Matter	1 Hr	-	99.63	99.87	0.2%	131.74	-	24.4%
			24 Hr	120	37.01	37.03	<0.1%	39.13	33%	5.4%
			Annual <sup>4</sup>	60	21.59	21.59	<0.1%	21.71	36%	0.6%
		Sulfur Dioxide (SO2)	1 Hr	690	20.62	20.63	<0.1%	40.13	6%	48.6%
			24 Hr	275	19.42	19.42	<0.1%	22.01	8%	11.7%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	5.99	11%	0.7%		



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
273	Future Industrial 11	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1802.89	1809.54	0.4%	1853.67	5%	2.7%
			8 Hr	15700	1254.15	1254.97	<0.1%	1263.35	8%	0.7%
			24 Hr	-	1189.01	1189.62	<0.1%	1192.44	-	0.3%
			Annual	-	662.34	662.45	<0.1%	662.54	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	119.98	122.24	1.8%	240.93	60%	50.2%
			24 Hr	200	77.99	78.26	0.3%	85.83	43%	9.1%
			Annual <sup>4</sup>	100	39.64	39.67	<0.1%	39.78	40%	0.3%
		Particulate Matter PM2.5	1 Hr	-	24.68	24.73	0.2%	34.27	-	28.0%
			24 Hr <sup>3</sup>	30	20.71	20.72	<0.1%	21.85	73%	5.2%
			Annual	-	9.82	9.82	<0.1%	9.84	-	0.2%
		Particulate Matter PM10	1 Hr	-	2.85	2.91	2.2%	16.34	-	82.6%
			24 Hr <sup>3</sup>	50	0.43	0.44	1.6%	1.57	3%	72.5%
			Annual	-	0.06	0.06	1.1%	0.12	-	52.5%
		Total Particulate Matter	1 Hr	-	91.86	91.99	0.1%	158.54	-	42.1%
			24 Hr	120	36.25	36.26	<0.1%	40.89	34%	11.4%
			Annual <sup>4</sup>	60	21.39	21.39	<0.1%	21.67	36%	1.3%
		Sulfur Dioxide (SO2)	1 Hr	690	19.99	19.99	<0.1%	54.25	8%	63.2%
			24 Hr	275	19.36	19.36	<0.1%	21.54	8%	10.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	5.96	11%	0.4%		
274	Future Industrial 12	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2238.22	2246.47	0.4%	2270.04	6%	1.4%
			8 Hr	15700	1356.11	1357.14	<0.1%	1363.92	9%	0.6%
			24 Hr	-	1263.97	1264.73	<0.1%	1267.28	-	0.3%
			Annual	-	676.71	676.85	<0.1%	676.91	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	126.34	129.68	2.6%	193.02	48%	34.5%
			24 Hr	200	83.93	84.27	0.4%	91.11	46%	7.9%
			Annual <sup>4</sup>	100	41.52	41.56	0.1%	41.71	42%	0.5%
		Particulate Matter PM2.5	1 Hr	-	25.67	25.74	0.3%	31.79	-	19.2%
			24 Hr <sup>3</sup>	30	20.80	20.81	<0.1%	22.13	74%	6.0%
			Annual	-	9.84	9.84	<0.1%	9.86	-	0.2%
		Particulate Matter PM10	1 Hr	-	4.32	4.40	1.9%	10.46	-	58.7%
			24 Hr <sup>3</sup>	50	0.57	0.57	1.5%	1.90	4%	70.2%
			Annual	-	0.10	0.10	1.1%	0.13	-	23.2%
		Total Particulate Matter	1 Hr	-	94.79	94.96	0.2%	120.27	-	21.2%
			24 Hr	120	36.52	36.54	<0.1%	38.05	32%	4.0%
			Annual <sup>4</sup>	60	21.47	21.47	<0.1%	21.57	36%	0.4%
		Sulfur Dioxide (SO2)	1 Hr	690	20.23	20.24	<0.1%	38.54	6%	47.5%
			24 Hr	275	19.38	19.38	<0.1%	21.36	8%	9.2%
Annual <sup>3</sup>	55		5.94	5.94	<0.1%	5.98	11%	0.7%		

**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)		
275	Farm D	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	2100.75	2108.08	0.3%	2137.82	6%	1.7%		
			8 Hr	15700	1341.21	1342.13	<0.1%	1349.36	9%	0.6%		
			24 Hr	-	1253.02	1253.70	<0.1%	1256.33	-	0.3%		
			Annual	-	674.61	674.74	<0.1%	674.80	-	<0.1%		
		Nitrogen Oxides (NOx)	1 Hr	400	124.43	127.69	2.6%	207.69	52%	40.1%		
			24 Hr	200	81.01	81.34	0.4%	88.41	44%	8.4%		
			Annual <sup>4</sup>	100	40.86	40.89	<0.1%	41.04	41%	0.4%		
		Particulate Matter PM2.5	1 Hr	-	25.35	25.41	0.2%	31.81	-	20.3%		
			24 Hr <sup>3</sup>	30	20.76	20.76	<0.1%	22.03	73%	5.8%		
			Annual	-	9.83	9.84	<0.1%	9.85	-	0.2%		
		Particulate Matter PM10	1 Hr	-	3.86	3.94	2.0%	10.34	-	62.7%		
			24 Hr <sup>3</sup>	50	0.50	0.51	1.6%	1.78	4%	72.0%		
			Annual	-	0.08	0.09	1.0%	0.11	-	25.5%		
		Total Particulate Matter	1 Hr	-	93.88	94.04	0.2%	114.79	-	18.2%		
			24 Hr	120	36.38	36.40	<0.1%	37.69	31%	3.5%		
			Annual <sup>4</sup>	60	21.44	21.45	<0.1%	21.53	36%	0.4%		
		Sulfur Dioxide (SO2)	1 Hr	690	20.15	20.16	<0.1%	43.28	6%	53.4%		
			24 Hr	275	19.37	19.37	<0.1%	21.42	8%	9.5%		
			Annual <sup>3</sup>	55	5.94	5.94	<0.1%	5.98	11%	0.7%		
		276	Farm E	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	1871.63	1876.21	0.2%	1892.74	5%	1.1%
					8 Hr	15700	1207.18	1207.75	<0.1%	1212.92	8%	0.5%
24 Hr	-				1154.48	1154.90	<0.1%	1156.75	-	0.2%		
Annual	-				655.72	655.80	<0.1%	655.86	-	<0.1%		
Nitrogen Oxides (NOx)	1 Hr			400	121.03	122.78	1.4%	167.21	42%	27.6%		
	24 Hr			200	71.60	71.75	0.2%	76.70	38%	6.6%		
	Annual <sup>4</sup>			100	38.04	38.04	<0.1%	38.20	38%	0.4%		
Particulate Matter PM2.5	1 Hr			-	24.82	24.85	0.1%	30.22	-	17.9%		
	24 Hr <sup>3</sup>			30	20.62	20.63	<0.1%	21.60	72%	4.5%		
	Annual			-	9.79	9.79	<0.1%	9.81	-	0.2%		
Particulate Matter PM10	1 Hr			-	3.06	3.10	1.4%	8.59	-	64.4%		
	24 Hr <sup>3</sup>			50	0.29	0.30	1.2%	1.27	3%	76.9%		
	Annual			-	0.02	0.02	0.9%	0.04	-	49.0%		
Total Particulate Matter	1 Hr			-	92.28	92.36	<0.1%	105.60	-	12.6%		
	24 Hr			120	35.97	35.98	<0.1%	36.96	31%	2.7%		
	Annual <sup>4</sup>			60	21.32	21.32	<0.1%	21.35	36%	0.2%		
Sulfur Dioxide (SO2)	1 Hr			690	20.02	20.02	<0.1%	32.85	5%	39.1%		
	24 Hr			275	19.34	19.34	<0.1%	20.77	8%	6.9%		
	Annual <sup>3</sup>			55	5.93	5.93	<0.1%	5.97	11%	0.7%		

**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)
277	Residence	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	4151.38	4165.13	0.3%	4184.84	12%	0.8%
			8 Hr	15700	1809.77	1811.48	<0.1%	1818.28	12%	0.5%
			24 Hr	-	1597.50	1598.77	<0.1%	1601.76	-	0.3%
			Annual	-	740.63	740.88	<0.1%	740.99	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	155.55	162.82	4.5%	215.85	54%	27.9%
			24 Hr	200	105.74	106.24	0.5%	114.28	57%	7.5%
			Annual <sup>4</sup>	100	43.98	44.03	0.1%	44.33	44%	0.8%
		Particulate Matter PM2.5	1 Hr	-	30.29	30.44	0.5%	35.86	-	15.5%
			24 Hr <sup>3</sup>	30	21.12	21.13	<0.1%	22.36	75%	5.6%
			Annual	-	9.88	9.88	<0.1%	9.91	-	0.3%
		Particulate Matter PM10	1 Hr	-	11.42	11.60	1.6%	17.04	-	33.0%
			24 Hr <sup>3</sup>	50	1.05	1.06	1.0%	2.30	5%	54.4%
			Annual	-	0.15	0.15	0.8%	0.19	-	17.3%
		Total Particulate Matter	1 Hr	-	109.00	109.37	0.3%	124.52	-	12.5%
			24 Hr	120	37.48	37.50	<0.1%	38.75	32%	3.3%
			Annual <sup>4</sup>	60	21.58	21.58	<0.1%	21.64	36%	0.3%
		Sulfur Dioxide (SO2)	1 Hr	690	21.39	21.41	<0.1%	36.74	5%	41.8%
			24 Hr	275	19.46	19.46	<0.1%	21.79	8%	10.7%
Annual <sup>3</sup>	55		5.95	5.95	<0.1%	6.03	11%	1.4%		
278	Farm F	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	3693.14	3702.53	0.3%	3718.74	10%	0.7%
			8 Hr	15700	1625.32	1626.49	<0.1%	1634.28	10%	0.5%
			24 Hr	-	1461.90	1462.76	<0.1%	1465.59	-	0.3%
			Annual	-	714.64	714.81	<0.1%	714.94	-	<0.1%
		Nitrogen Oxides (NOx)	1 Hr	400	148.55	153.85	3.4%	197.43	49%	24.8%
			24 Hr	200	95.71	96.01	0.3%	103.60	52%	7.6%
			Annual <sup>4</sup>	100	39.94	39.96	<0.1%	40.30	40%	0.9%
		Particulate Matter PM2.5	1 Hr	-	29.18	29.28	0.4%	34.38	-	15.1%
			24 Hr <sup>3</sup>	30	20.97	20.98	<0.1%	22.14	74%	5.3%
			Annual	-	9.82	9.82	<0.1%	9.85	-	0.3%
		Particulate Matter PM10	1 Hr	-	9.70	9.84	1.3%	14.93	-	35.0%
			24 Hr <sup>3</sup>	50	0.82	0.83	0.8%	2.00	4%	58.8%
			Annual	-	0.06	0.06	0.9%	0.10	-	34.4%
		Total Particulate Matter	1 Hr	-	105.57	105.83	0.2%	116.32	-	9.2%
			24 Hr	120	37.04	37.05	<0.1%	38.23	32%	3.1%
			Annual <sup>4</sup>	60	21.40	21.40	<0.1%	21.46	36%	0.2%
		Sulfur Dioxide (SO2)	1 Hr	690	21.11	21.12	<0.1%	33.72	5%	37.4%
			24 Hr	275	19.43	19.43	<0.1%	21.62	8%	10.1%
Annual <sup>3</sup>	55		5.93	5.93	<0.1%	6.03	11%	1.6%		



**Appendix I-2 - Offsite Traffic Predictions (400,000 tonnes/year)**

Receptor ID	Description	Contaminant	Averaging Period	Air Quality Criteria	Baseline Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Baseline Off-Site Traffic + Project Off-Site Traffic + Background Ambient Concentration (ug/m <sup>3</sup> )	Percent Change from Baseline with Addition of Project Off-Site Traffic (%)	Total Project Impact (Baseline Off-Site Traffic + Project Off-Site Traffic + Project On-Site Stationary and Mobile Sources + Background Ambient Concentration) (ug/m <sup>3</sup> )	Percent of Air Quality Criteria (%)	Percent Change from Baseline to Project (%)		
296	Former Restaurant	Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	3647.31	3662.67	0.4%	3681.75	10%	0.9%		
			8 Hr	15700	1631.05	1632.98	0.1%	1640.14	10%	0.6%		
			24 Hr	-	1466.11	1467.53	<0.1%	1469.96	-	0.3%		
			Annual	-	715.45	715.72	<0.1%	715.80	-	<0.1%		
		Nitrogen Oxides (NOx)	1 Hr	400	148.07	154.05	3.9%	205.39	51%	27.9%		
			24 Hr	200	104.53	105.14	0.6%	111.68	56%	6.4%		
			Annual <sup>4</sup>	100	46.47	46.59	0.2%	46.78	47%	0.7%		
		Particulate Matter PM2.5	1 Hr	-	29.01	29.13	0.4%	35.15	-	17.5%		
			24 Hr <sup>3</sup>	30	21.10	21.11	<0.1%	22.56	75%	6.5%		
			Annual	-	9.92	9.92	<0.1%	9.94	-	0.2%		
		Particulate Matter PM10	1 Hr	-	9.46	9.61	1.6%	15.64	-	39.5%		
			24 Hr <sup>3</sup>	50	1.02	1.04	1.5%	2.49	5%	58.9%		
			Annual	-	0.21	0.21	1.4%	0.24	-	13.5%		
		Total Particulate Matter	1 Hr	-	105.08	105.38	0.3%	128.32	-	18.1%		
			24 Hr	120	37.43	37.46	<0.1%	38.93	32%	3.8%		
			Annual <sup>4</sup>	60	21.69	21.70	<0.1%	21.77	36%	0.4%		
		Sulfur Dioxide (SO2)	1 Hr	690	21.07	21.09	<0.1%	35.92	5%	41.4%		
			24 Hr	275	19.46	19.46	<0.1%	21.35	8%	8.9%		
			Annual <sup>3</sup>	55	5.96	5.96	<0.1%	6.01	11%	0.9%		
		Overall Maxima		Carbon Monoxide (CO)	1 Hr <sup>3</sup>	36200	4151.38	4165.13	1.0%	4184.84	12%	3%
					8 Hr	15700	1809.77	1811.48	0.2%	1818.28	12%	1%
24 Hr	-				1597.50	1598.77	0.2%	1601.76	-	0.5%		
Annual	-				740.63	740.88	<0.1%	740.99	-	<0/1%		
Nitrogen Oxides (NOx)	1 Hr			400	155.55	162.82	7.1%	253.71	63%	50%		
	24 Hr			200	105.74	106.24	1.1%	114.28	57%	12%		
	Annual <sup>4</sup>			100	46.47	46.59	0.5%	46.78	47%	1%		
Particulate Matter PM2.5	1 Hr			-	30.29	30.44	1.0%	36.98	-	29%		
	24 Hr <sup>3</sup>			30	21.12	21.13	0.1%	22.57	75%	7%		
	Annual			-	9.92	9.92	<0.1%	9.94	-	0.4%		
Particulate Matter PM10	1 Hr			-	11.42	11.60	5.9%	22.26	-	86%		
	24 Hr <sup>3</sup>			50	1.05	1.06	4.0%	2.49	5%	84%		
	Annual			-	0.21	0.21	4.5%	0.25	-	67%		
Total Particulate Matter	1 Hr			-	109.00	109.37	0.7%	186.99	-	51%		
	24 Hr			120	37.48	37.50	0.2%	44.17	37%	18%		
	Annual <sup>4</sup>			60	21.69	21.70	<0.1%	22.03	37%	3%		
Sulfur Dioxide (SO2)	1 Hr			690	21.39	21.41	0.1%	54.25	8%	63%		
	24 Hr			275	19.46	19.46	<0.1%	22.69	8%	14%		
	Annual <sup>3</sup>			55	5.96	5.96	<0.1%	6.03	11%	2%		

Notes:  
<sup>1</sup> Reg419/05 Schedule 3 Criteria unless stated otherwise  
<sup>2</sup> O. Reg. 419 Guidelines  
<sup>3</sup> Ontario's ambient air quality criteria  
<sup>4</sup> National Ambient Air Quality Objectives

