Table 5: Cumulartive Effects Assessment - Operations in Phases 3 and 4 Modelled Values & Frequency of Excursions above the Relevant Criteria

1745 Days of Valid Meteorological Data μg/m³ 24-Hour AAQC μg/m³ (24-hour) Relevant Criteria: TSP 120 **Background Concentrations** TSP 44 60 μg/m³ Annual AAQC (90th Percentile, all except O₃) 22 μg/m³ (Annual) PM_{10} 50 µg/m³ Interim AAQC (O₃ 99th percentile) PM_{10} 24 μg/m³ (24-hour) 27 13 $PM_{2.5}$ μg/m³ 24-Hour CAAQS $\mathsf{PM}_{2.5}$ μg/m³ (24-hour) 8.8 μg/m³ Annual CAAQS 6.6 μg/m³ (Annual) Silica 5 µg/m³ AAQC 1.5 μg/m³ (24-hour) Silica NO_2 400 μg/m³ 1-Hour AAQC NO_2 25 μg/m³ (1-hour) 200 μg/m³ 24-Hour AAQC 21 μg/m³ (24-hour) 124 O_3 μg/m³ (1-hour)

Receptor		UTM Co	ordinates	Contaminant	Averaging	With No Background Concentration				With Additional Background Concentrations			
ID	Туре	х	Y		Period	Maximum Predicted 24-Hour Concentration	licted of Revelant Hour Criteria			Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria over 5 Years	Frequency Predicte Excursio Above Criteria
		(m)	(m)		(hours)	(µg/m³)	(%)		(%)	(µg/m³)	(%)		(%)
R01	Residence	638425	4750114	TSP	24	115	96%	0	0.0%	159	132%	2	0.1%
					Annual	7	12%	0	0.0%	29	49%	0	0.0%
				PM10	24	12	24%	0	0.0%	36	72%	0	0.0%
				PM2.5	24	6	21%	0	0.0%	19	69%	0	0.0%
					Annual	1	6%	0	0.0%	7	81%	0	0.0%
				Silica	24	2	36%	0	0.0%	3.3	66%	0	0.0%
				NO2	1	319	80%	0	0.0%	344	86%	0	0.0%
					24	47	24%	0	0.0%	68	34%	0	0.0%
R02	Church 6	638360	4750110	TSP	24	127	106%	1	0.1%	171	143%	2	0.1%
					Annual	6	11%	0	0.0%	28	47%	0	0.0%
				PM10	24	10	20%	0	0.0%	34	68%	0	0.0%
				PM2.5	24	6	23%	0	0.0%	19	71%	0	0.0%
					Annual	0	6%	0	0.0%	7	81%	0	0.0%
				Silica	24	2	40%	0	0.0%	3.5	70%	0	0.0%
				NO2	1	312	78%	0	0.0%	337	84%	0	0.0%
					24	52	26%	0	0.0%	73	36%	0	0.0%
R03	Residence	e 638256	4750109	TSP	24	128	107%	1	0.1%	172	143%	1	0.1%
						Annual	5	9%	0	0.0%	27	46%	0
				PM10	24	9	17%	0	0.0%	33	65%	0	0.0%
				PM2.5	24	6	23%	0	0.0%	19	71%	0	0.0%
					Annual	0	5%	0	0.0%	7	80%	0	0.0%
				Silica	24	2	40%	0	0.0%	3.5	70%	0	0.0%
				NO2	1	334	83%	0	0.0%	359	90%	0	0.0%
					24	53	27%	0	0.0%	74	37%	0	0.0%

Receptor		UTM Coordinates		Contaminant	Averaging		With No Backgro			
ID	Туре	х	Y		Period	Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria over 5 Years	Frequency of Predicted Excursions Above Criteria	Ma Pre 24 Conce
		(m)	(m)		(hours)	(µg/m³)	(%)		(%)	(µ
R04	Residence	638287	4750108	TSP	24	130	108%	1	0.1%	
					Annual	6	9%	0	0.0%	
				PM10	24	9	18%	0	0.0%	
				PM2.5	24	6	23%	0	0.0%	
					Annual	0	5%	0	0.0%	
				Silica	24	2	41%	0	0.0%	
				NO2	1	331	83%	0	0.0%	
					24	54	27%	0	0.0%	
R05	Residence	638228	4750108	TSP	24	125	104%	1	0.1%	
					Annual	5	9%	0	0.0%	
				PM10	24	9	18%	0	0.0%	
				PM2.5	24	6	22%	0	0.0%	
					Annual	0	5%	0	0.0%	
				Silica	24	2	40%	0	0.0%	
				NO2	1	333	83%	0	0.0%	
					24	53	26%	0	0.0%	
R06	Residence	638203	4750110	TSP	24	122	101%	1	0.1%	
					Annual	5	8%	0	0.0%	
				PM10	24	10	19%	0	0.0%	
				PM2.5	24	6	22%	0	0.0%	
					Annual	0	5%	0	0.0%	
				Silica	24	2	38%	0	0.0%	
				NO2	1	329	82%	0	0.0%	
					24	52	26%	0	0.0%	
R07	Residence	638139	4750102	TSP	24	110	92%	0	0.0%	
					Annual	5	8%	0	0.0%	
				PM10	24	10	20%	0	0.0%	
				PM2.5	24	5	20%	0	0.0%	
					Annual	0	4%	0	0.0%	
				Silica	24	2	35%	0	0.0%	
				NO2	1	305	76%	0	0.0%	
					24	47	24%	0	0.0%	
R08	Residence	638104	4750105	TSP	24	103	86%	0	0.0%	
					Annual	4	7%	0	0.0%	
				PM10	24	8	17%	0	0.0%	
				PM2.5	24	5	19%	0	0.0%	
					Annual	0	4%	0	0.0%	
				Silica	24	2	33%	0	0.0%	
				NO2	1	293	73%	0	0.0%	
					24	45	22%	0	0.0%	

With	Additional Back	ground Concentrat	ions		
Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria over 5 Years	Frequency of Predicted Excursions Above Criteria		
(μg/m³)	(%)		(%)		
174	145%	2	0.1%		
28	46%	0	0.0%		
33	66%	0	0.0%		
19	71%	0	0.0%		
7	80%	0	0.0%		
3.6	71%	0	0.0%		
356	89%	0	0.0%		
75	37%	0	0.0%		
169	141%	1	0.1%		
27	45%	0	0.0%		
33	66%	0	0.0%		
19	71%	0	0.0%		
7	80%	0	0.0%		
3.5	70%	0	0.0%		
358	89%	0	0.0%		
74	37%	0	0.0%		
166	138%	1	0.1%		
27	45%	0	0.0%		
34	67%	0	0.0%		
19	70%	0	0.0%		
7	80%	0	0.0%		
3.4	68%	0	0.0%		
354	88%	0	0.0%		
73	36%	0	0.0%		
154	128%	1	0.1%		
27	44%	0	0.0%		
34	68%	0	0.0%		
18	68%	0	0.0%		
7	79%	0	0.0%		
3.2	65%	0	0.0%		
330	83%	0	0.0%		
68	34%	0	0.0%		
147	123%	1	0.1%		
26	44%	0	0.0%		
32	65%	0	0.0%		
18	67%	0	0.0%		
7	79%	0	0.0%		
3.1	63%	0	0.0%		
318	79%	0	0.0%		
66	33%	0	0.0%		

ID	Туре	Х	V	7					With No Background Concentration					
			Y		Period	Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria	Frequency of Predicted Excursions Above					
								over 5 Years	Criteria					
		(m)	(m)		(hours)	(µg/m³)	(%)		(%)					
R09	Residence	637990	4750082	TSP	24	76	63%	0	0.0%					
					Annual	4	6%	0	0.0%					
				PM10	24	9	18%	0	0.0%					
				PM2.5	24	4	14%	0	0.0%					
					Annual	0	4%	0	0.0%					
				Silica	24	1	24%	0	0.0%					
				NO2	1	297	74%	0	0.0%					
					24	33	17%	0	0.0%					
R10	Residence	637952	4750077	TSP	24	68	56%	0	0.0%					
					Annual	4	6%	0	0.0%					
				PM10	24	10	19%	0	0.0%					
				PM2.5	24	3	12%	0	0.0%					
					Annual	0	3%	0	0.0%					
				Silica	24	1	21%	0	0.0%					
				NO2	1	299	75%	0	0.0%					
					24	30	15%	0	0.0%					
R11	Church	637441	4750189	TSP	24	41	34%	0	0.0%					
					Annual	2	3%	0	0.0%					
				PM10	24	10	20%	0	0.0%					
				PM2.5	24	2	7%	0	0.0%					
					Annual	0	2%	0	0.0%					
				Silica	24	1	12%	0	0.0%					
				NO2	1	227	57%	0	0.0%					
					24	18	9%	0	0.0%					
R12	Residence	637471	4750310	TSP	24	80	66%	0	0.0%					
					Annual	3	4%	0	0.0%					
				PM10	24	29	57%	0	0.0%					
				PM2.5	24	3	11%	0	0.0%					
					Annual	0	3%	0	0.0%					
				Silica	24	2	43%	0	0.0%					
				NO2	1	196	49%	0	0.0%					
					24	25	12%	0	0.0%					
R13	Residence	637452	4750415	TSP	24	71	59%	0	0.0%					
					Annual	3	5%	0	0.0%					
				PM10	24	25	50%	0	0.0%					
				PM2.5	24	4	13%	0	0.0%					
					Annual	0	3%	0	0.0%					
				Silica	24	1	30%	0	0.0%					
				NO2	1	194	49%	0	0.0%					
					24	24	12%	0	0.0%					

Maximum Predicted 24-Hour Concentration Percentage of Revelant Criteria Number of Predicted Excursions Above Criteria over 5 Years Frequency of Predicted Excursions Above Criteria (%) 120 100% 0 0.00% 26 43% 0 0.00% 33 66% 0 0.00% 17 62% 0 0.0% 2.7 54% 0 0.0% 322 80% 0 0.0% 54 27% 0 0.0% 112 93% 0 0.0% 34 67% 0 0.0% 16 61% 0 0.0% 2.6 43% 0 0.0% 34 67% 0 0.0% 7 78% 0 0.0% 324 81% 0 0.0% 324 81% 0 0.0% 351 25% 0 0.0% 34 68% 0 0.0% 34 68%<	With	ո Additional Backչ	ground Concentrat	tions		
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252 63% 0 0.0% 39 20% 0 0.0% 124 103% 1 0.1% 25 41% 0 0.0% 53 105% 1 0.1% 16 59% 0 0.0% 7 78% 0 0.0% 3.7 73% 0 0.0% 221 55% 0 0.0% 46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	7	77%	0	0.0%		
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16 59% 0 0.0% 7 78% 0 0.0% 3.7 73% 0 0.0% 221 55% 0 0.0% 46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	25	41%	0	0.0%		
7 78% 0 0.0% 3.7 73% 0 0.0% 221 55% 0 0.0% 46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	53	105%	1	0.1%		
3.7 73% 0 0.0% 221 55% 0 0.0% 46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	16	59%	0	0.0%		
221 55% 0 0.0% 46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	7	78%	0	0.0%		
46 23% 0 0.0% 115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	3.7	73%	0	0.0%		
115 96% 0 0.0% 25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	221	55%	0	0.0%		
25 42% 0 0.0% 49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	46	23%	0	0.0%		
49 98% 0 0.0% 17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	115	96%	0	0.0%		
17 62% 0 0.0% 7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	25	42%	0	0.0%		
7 78% 0 0.0% 3.0 60% 0 0.0% 219 55% 0 0.0%	49	98%	0	0.0%		
3.0 60% 0 0.0% 219 55% 0 0.0%	17	62%	0	0.0%		
219 55% 0 0.0%	7	78%	0			
	3.0	60%	0	0.0%		
45 23% 0 0.0%	219	55%		0.0%		
	45	23%	0	0.0%		

	Receptor UTM Coordinates		Contaminant	Averaging		With No Backgro	und Concentration	ı	With Additional Background Concentrations				
ID	Туре	Х	Y		Period	Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria over 5 Years	Frequency of Predicted Excursions Above Criteria	Maximum Predicted 24-Hour Concentration	Percentage of Revelant Criteria	Number of Predicted Excursions Above Criteria over 5 Years	Frequency of Predicted Excursions Above Criteria
		(m)	(m)		(hours)	(µg/m³)	(%)		(%)	(µg/m³)	(%)		(%)
R14	Residence	637457	4750591	TSP	24	105	88%	0	0.0%	149	124%	2	0.1%
					Annual	3	5%	0	0.0%	25	42%	0	0.0%
				PM10	24	31	63%	0	0.0%	55	111%	1	0.1%
				PM2.5	24	5	19%	0	0.0%	18	67%	0	0.0%
					Annual	0	2%	0	0.0%	7	77%	0	0.0%
				Silica	24	2	39%	0	0.0%	3.4	69%	0	0.0%
				NO2	1	255	64%	0	0.0%	280	70%	0	0.0%
					24	45	22%	0	0.0%	66	33%	0	0.0%
R15	Residence	637437	4750858	TSP	24	62	52%	0	0.0%	106	89%	0	0.0%
					Annual	2	3%	0	0.0%	24	40%	0	0.0%
				PM10	24	11	22%	0	0.0%	35	70%	0	0.0%
				PM2.5	24	3	10%	0	0.0%	16	58%	0	0.0%
					Annual	0	2%	0	0.0%	7	77%	0	0.0%
				Silica	24	1	13%	0	0.0%	2.2	43%	0	0.0%
				NO2	1	224	56%	0	0.0%	249	62%	0	0.0%
					24	16	8%	0	0.0%	37	19%	0	0.0%
R16	Residence	638112	4751073	TSP	24	65	54%	0	0.0%	109	91%	0	0.0%
					Annual	3	4%	0	0.0%	25	41%	0	0.0%
				PM10	24	10	20%	0	0.0%	34	68%	0	0.0%
				PM2.5	24	3	11%	0	0.0%	16	60%	0	0.0%
					Annual	0	2%	0	0.0%	7	77%	0	0.0%
				Silica	24	1	16%	0	0.0%	2.3	46%	0	0.0%
				NO2	1	188	47%	0	0.0%	213	53%	0	0.0%
					24	30	15%	0	0.0%	51	25%	0	0.0%
R17	Residence	638288	4751083	TSP	24	69	58%	0	0.0%	113	94%	0	0.0%
					Annual	3	5%	0	0.0%	25	41%	0	0.0%
				PM10	24	11	23%	0	0.0%	35	71%	0	0.0%
				PM2.5	24	3	11%	0	0.0%	16	60%	0	0.0%
					Annual	0	2%	0	0.0%	7	77%	0	0.0%
				Silica	24	1	18%	0	0.0%	2.4	48%	0	0.0%
				NO2	1	231	58%	0	0.0%	256	64%	0	0.0%
					24	26	13%	0	0.0%	47	23%	0	0.0%

Notes:

Values in bold indicate excursions above the relevant crtieria