

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)												
							2016												
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																	
		Earthwork	Sep-16	Dec-17	0.00023949	8000								8000	8000	8000	8000		
		Roadworks	Mar-17	Oct-18	0.00023949	2000													
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																	
		Earthwork	Sep-16	Feb-18	0.00023949	2000								2000	2000	2000	2000		
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																	
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000													
		Roadwork	Mar-18	Oct-18	0.00023949	1000													
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																	
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000													
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000													
The ARQ Project	WC05	Drainage Retention Tank																	
		Earthwork	Jul-16	Apr-17	0.00023949	500							500	500	500	500	500		
		Backfilling	Nov-18	Jun-19	0.00023949	500													
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	0	0	0	0	0	0	500	500	10500	10500	10500	10500	
	Stockpiling (Day Time Only)				0.00001172		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0	10500.0	10500.0	10500.0	10500.0	
	Total TSP Emission in one month (kg/ mth)						0.0	0.0	0.0	0.0	0.0	0.0	137.5	137.5	2888.1	2888.1	2888.1	2888.1	
	Total TSP Emission in one year (tonnes/ yr)						11.8												

Notes:

- [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)																
							2017																
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																					
		Earthwork	Sep-16	Dec-17	0.00023949	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000
		Roadworks	Mar-17	Oct-18	0.00023949	2000			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																					
		Earthwork	Sep-16	Feb-18	0.00023949	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																					
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000																	
		Roadwork	Mar-18	Oct-18	0.00023949	1000																	
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																					
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000																	
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000																	
The ARQ Project	WC05	Drainage Retention Tank																					
		Earthwork	Jul-16	Apr-17	0.00023949	500	500	500	500														
		Backfilling	Nov-18	Jun-19	0.00023949	500																	
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	10500	10500	12500	12500	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	
	Stockpiling (Day Time Only)				0.00001172		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		26157.3	26157.3	28157.3	28157.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	27657.3	
	Total TSP Emission in one month (kg/ mth)						3189.2	3189.2	3739.3	3739.3	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	
	Total TSP Emission in one year (tonnes/ yr)						42.7																

Notes:
 [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
 [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)													
							2018													
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																		
		Earthwork	Sep-16	Dec-17	0.00023949	8000														
		Roadworks	Mar-17	Oct-18	0.00023949	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000				
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																		
		Earthwork	Sep-16	Feb-18	0.00023949	2000	2000	2000												
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																		
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000			1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
		Roadwork	Mar-18	Oct-18	0.00023949	1000			1000	1000	1000	1000	1000	1000	1000	1000	1000			
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																		
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000							8000	8000	8000	8000	8000	8000		
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000														
The ARQ Project	WC05	Drainage Retention Tank																		
		Earthwork	Jul-16	Apr-17	0.00023949	500														
		Backfilling	Nov-18	Jun-19	0.00023949	500													500	500
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	4000	4000	4000	4000	4000	4000	12000	12000	12000	12000	9500	8500		
	Stockpiling (Day Time Only)				0.00001172		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		19657.3	19657.3	19657.3	19657.3	19657.3	19657.3	27657.3	27657.3	27657.3	27657.3	25157.3	24157.3		
	Total TSP Emission in one month (kg/ mth)						1401.3	1401.3	1401.3	1401.3	1401.3	1401.3	3601.8	3601.8	3601.8	3601.8	2914.2	2639.1		
	Total TSP Emission in one year (tonnes/ yr)						28.4													

Notes:
 [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
 [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)												
							2019												
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																	
		Earthwork	Sep-16	Dec-17	0.00023949	8000													
		Roadworks	Mar-17	Oct-18	0.00023949	2000													
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																	
		Earthwork	Sep-16	Feb-18	0.00023949	2000													
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																	
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000													
		Roadwork	Mar-18	Oct-18	0.00023949	1000													
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																	
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	8000	
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000			2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
The ARQ Project	WC05	Drainage Retention Tank																	
		Earthwork	Jul-16	Apr-17	0.00023949	500													
		Backfilling	Nov-18	Jun-19	0.00023949	500	500	500	500	500	500								
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	8500	8500	8500	10500	10500	10500	10000	10000	10000	10000	10000		
	Stockpiling (Day Time Only)				0.00001172		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		24157.3	24157.3	24157.3	26157.3	26157.3	26157.3	25657.3	25657.3	25657.3	25657.3	25657.3	25657.3	
	Total TSP Emission in one month (kg/ mth)						2639.1	2639.1	2639.1	3189.2	3189.2	3189.2	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	
	Total TSP Emission in one year (tonnes/ yr)						35.8												

Notes:
 [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
 [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)													
							2020													
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																		
		Earthwork	Sep-16	Dec-17	0.00023949	8000														
		Roadworks	Mar-17	Oct-18	0.00023949	2000														
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																		
		Earthwork	Sep-16	Feb-18	0.00023949	2000														
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																		
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000														
		Roadwork	Mar-18	Oct-18	0.00023949	1000														
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																		
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000	8000	8000	8000	8000	8000	8000	8000							
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000				
The ARQ Project	WC05	Drainage Retention Tank																		
		Earthwork	Jul-16	Apr-17	0.00023949	500														
		Backfilling	Nov-18	Jun-19	0.00023949	500														
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	10000	10000	10000	10000	10000	10000	10000	2000	2000	2000	0	0		
	Stockpiling (Day Time Only)				0.00001172		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		25657.3	25657.3	25657.3	25657.3	25657.3	25657.3	25657.3	17657.3	17657.3	17657.3	15657.3	15657.3	15657.3	
	Total TSP Emission in one month (kg/ mth)						3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	3051.7	851.2	851.2	851.2	301.1	301.1		
	Total TSP Emission in one year (tonnes/ yr)						24.5													

Notes:
 [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
 [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)												
							2021												
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																	
		Earthwork	Sep-16	Dec-17	0.00023949	8000													
		Roadworks	Mar-17	Oct-18	0.00023949	2000													
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																	
		Earthwork	Sep-16	Feb-18	0.00023949	2000													
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																	
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000													
		Roadwork	Mar-18	Oct-18	0.00023949	1000													
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																	
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000													
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000													
The ARQ Project	WC05	Drainage Retention Tank																	
		Earthwork	Jul-16	Apr-17	0.00023949	500													
		Backfilling	Nov-18	Jun-19	0.00023949	500													
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	0	0	0	0	0	0	0	0	0	0	0	0	
	Stockpiling (Day Time Only)				0.00001172		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3	15657.3
	Total TSP Emission in one month (kg/ mth)						301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1	301.1
	Total TSP Emission in one year (tonnes/ yr)						3.6												

Notes:

- [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion

Project Type	Work Contract	Heavy Construction Activities (Main Dust Generation)	From	To	TSP Emission Factor (g/m ² /s)	Active Working Area (m ²)	Monthly active area for each heavy construction activity (m ²)											
							2022											
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
The ARQ Project	WC03_PH1	Site Formation and Engineering Infrastructure at Main Site - Phase 1 area																
		Earthwork	Sep-16	Dec-17	0.00023949	8000												
		Roadworks	Mar-17	Oct-18	0.00023949	2000												
The ARQ Project	WC03_PLR	Access Road to Po Lam Road (Connection between Main Site and Po Lam Road)																
		Earthwork	Sep-16	Feb-18	0.00023949	2000												
The ARQ Project	WC03_DAR	Access Road to Road L1/L2/L3 (Connection between Main Site and DAR)																
		Retaining Walls	Mar-18	Nov-18	0.00023949	1000												
		Roadwork	Mar-18	Oct-18	0.00023949	1000												
The ARQ Project	WC04_PH2	Site Formation and Engineering Infrastructure at Main Site - Phase 2 area																
		Earthwork (Excavation)	Jul-18	Jul-20	0.00023949	8000												
		Roadwork (Laying Utilities)	Apr-19	Oct-20	0.00023949	2000												
The ARQ Project	WC05	Drainage Retention Tank																
		Earthwork	Jul-16	Apr-17	0.00023949	500												
		Backfilling	Nov-18	Jun-19	0.00023949	500												
TSP Emission Calculation	Heavy Construction (Day Time Only)				0.00023949	Total Area in one month (m ²)	0	0	0	0	0	0	0	0	0	0	0	
	Stockpiling (Day Time Only)				0.00001172		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Wind Erosion (Day Time and Non-Working Hours)				0.0000027		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one month (kg/ mth)						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total TSP Emission in one year (tonnes/ yr)						0											

Notes:

- [1] Emission from source type (kg) = Area (m²) x Emission Factor of source type (g /m²/s) x 60 (s/ min) x 60 (min / hr) x Operation Hours (hr/ day) x Number of days (day/ mth)
- [2] Total Emission = Emission from Heavy Construction + Emission from Stockpiling + Emission from Wind Erosion