

Air Quality

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Date	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
					$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
5/12/2022	Fine	14:21	15:21	16:21	45	51	44	47	285	500
10/12/2022	Fine	14:09	15:09	16:09	49	51	48	49		
16/12/2022	Fine	13:17	14:17	15:17	60	61	59	60		
22/12/2022	Fine	13:56	14:56	15:56	52	55	54	54		
28/12/2022	Fine	14:15	15:15	16:15	61	65	58	61		
Average					54					
Max.					65					
Min.					44					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Date	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
					$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
5/12/2022	Fine	14:13	15:13	16:13	60	57	55	57	279	500
10/12/2022	Fine	14:30	15:30	16:30	51	55	50	52		
16/12/2022	Fine	13:06	14:06	15:06	47	45	47	46		
22/12/2022	Fine	13:43	14:43	15:43	61	59	60	60		
28/12/2022	Fine	14:00	15:00	16:00	56	60	53	56		
Average					54					
Max.					61					
Min.					45					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Date	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
					$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
5/12/2022	Fine	14:37	15:37	16:37	65	67	64	65	285	500
10/12/2022	Fine	14:19	15:19	16:19	61	65	59	62		
16/12/2022	Fine	13:30	14:30	15:30	61	57	60	59		
22/12/2022	Fine	14:27	15:27	16:27	66	67	64	66		
28/12/2022	Fine	14:24	15:24	16:24	64	68	60	64		
Average					63					
Max.					68					
Min.					57					

The Summary of TSP 24-hour Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	($\mu\text{g}/\text{m}^3$)		
5/12/2022	17.5	1019.8	Fine	229.73	253.71	1439	31	0.88	1266	2.7453	2.8570	0.1117	88	164	260
10/12/2022	17.6	1015.9	Fine	253.71	277.74	1442	34	0.96	1384	2.7511	2.8885	0.1374	99		
16/12/2022	17.8	1019.1	Fine	277.74	301.79	1443	31	0.88	1270	2.7852	2.9063	0.1211	95		
22/12/2022	20.8	1018.2	Fine	301.79	325.80	1441	31	0.87	1253	2.7617	2.9368	0.1751	140		
28/12/2022	18.0	1023.0	Fine	325.80	349.81	1441	37	1.05	1513	2.7762	2.9988	0.2226	147		
												Average	114		
												Min	88		
												Max	147		

The Summary of 24-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	($\mu\text{g}/\text{m}^3$)		
5/12/2022	17.5	1019.8	Fine	122.54	146.61	1444	32	0.92	1329	2.7702	2.8268	0.0566	43	152	260
10/12/2022	17.6	1015.9	Fine	146.61	170.64	1442	38	1.09	1572	2.7577	2.8622	0.1045	66		
16/12/2022	17.8	1019.1	Fine	170.64	194.61	1438	37	1.05	1510	2.7905	2.8664	0.0759	50		
22/12/2022	20.8	1018.0	Fine	204.35	228.37	1441	39	1.11	1600	2.7558	2.8701	0.1143	71		
28/12/2022	18.0	1023.0	Fine	228.37	252.37	1440	40	1.12	1613	2.7763	2.9252	0.1489	92		
												Average	65		
												Min	43		
												Max	92		

The Summary of 24-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Start Date	Avg Air Temp	Avg Atmospheric Pressure	Weather Condition	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
	($^{\circ}\text{C}$)	(hPa)		Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	($\mu\text{g}/\text{m}^3$)		
5/12/2022	17.5	1019.8	Fine	981.90	1005.92	1441	36	1.03	1484	2.7577	2.9441	0.1864	126	163	260
10/12/2022	17.6	1015.9	Fine	1005.92	1029.97	1443	39	1.10	1587	2.7592	2.9773	0.2181	137		
16/12/2022	17.8	1019.1	Fine	1029.97	1054.00	1442	41	1.15	1658	2.7965	3.0095	0.2130	128		
22/12/2022	20.8	1018.2	Fine	1054.00	1078.00	1440	44	1.24	1786	2.7949	3.0681	0.2732	153		
28/12/2022	18.0	1023.0	Fine	1078.00	1102.04	1442	42	1.19	1716	2.7796	3.0485	0.2689	157		
												Average	140		
												Min	126		
												Max	157		

Noise

Impact Phase Construction Noise Monitoring Data at Location NM1

Date	Weather	Wind Speed	Start Time	End Time	L_{eq}	L_{10}	L_{90}
		m/s			dB(A)	dB(A)	dB(A)
6/12/2022	Fine	1.7	9:47	10:17	56.1	57.8	53.2
16/12/2022	Fine	1.2	15:30	16:00	51.1	53.4	46.1
22/12/2022	Fine	1.1	13:00	13:30	52.4	56.5	36.9
28/12/2022	Fine	2.1	16:00	16:30	53.3	55	49.9
Average					53.6		
Baseline Level					55.4		
Action Level					When one valid documented complaint is received		
Limit Level					75		

Impact Phase Construction Noise Monitoring Data at Location NM2

Date	Weather	Wind Speed	Start Time	End Time	L_{eq}	L_{10}	L_{90}
		m/s			dB(A)	dB(A)	dB(A)
6/12/2022	Fine	1.1	13:19	13:49	51.2	53.2	49.1
16/12/2022	Fine	1.6	10:41	11:11	49.2	53.3	44.3
22/12/2022	Fine	1.4	11:20	11:50	49.4	52.6	34.2
28/12/2022	Fine	1.7	9:30	10:00	48.9	49.2	47.8
Average					49.8		
Baseline Level					54.5		
Action Level					When one valid documented complaint is received		
Limit Level					75		

Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
5-Dec-22	12:37	Fine	0.02	-	14.9	10.8	7.4	4.0	7.4	7.7	7.8	8.6	9.2	9.5	3.4	9.7	11.4

Monitoring Location: WM2

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
5-Dec-22	11:11	Fine	0.13	9.9	19.4	6.5	5.0	4.0	7.5	7.6	7.7	23.3	108.3	108.9	25.6	94.5	94.7

Remarks

1. Sample will be grabbed on surface when the water depth is less than 1m.