

# Air Quality

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	882106	1.044	Fine	13:06	14:06	15:06	29	30	29	29	285	500
9/2/2024	Sibata LD-5R	882106	1.044	Fine	8:06	9:06	10:06	24	26	28	26		
15/2/2024	Sibata LD-5R	882106	1.044	Fine	8:15	9:15	10:15	26	28	27	27		
21/2/2024	Sibata LD-5R	882106	1.044	Fine	13:12	14:12	15:12	36	25	31	31		
27/2/2024	Sibata LD-5R	882106	1.044	Fine	14:44	15:44	16:44	26	28	30	28		
<b>Average</b>								<b>28</b>					
<b>Max.</b>								<b>36</b>					
<b>Min.</b>								<b>24</b>					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	942532	1.102	Fine	13:16	14:16	15:16	51	53	50	51	279	500
9/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	8:16	9:16	10:16	51	56	53	53		
15/2/2024	Sibata LD-5R	942532	1.102	Fine	8:31	9:31	10:31	53	51	56	53		
21/2/2024	Sibata LD-5R	942532	1.102	Fine	13:21	14:21	15:21	41	40	39	40		
27/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	15:00	16:00	17:00	51	50	50	50		
<b>Average</b>								<b>50</b>					
<b>Max.</b>								<b>56</b>					
<b>Min.</b>								<b>39</b>					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:24	14:24	15:24	60	61	62	61	285	500
9/2/2024	Sibata LD-5R	942532	1.102	Fine	8:50	9:50	10:50	51	53	53	52		
15/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	8:46	9:46	10:46	55	57	50	54		
21/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:40	14:40	15:40	50	40	51	47		
27/2/2024	Sibata LD-5R	942532	1.102	Fine	15:10	16:10	17:10	56	50	57	54		
<b>Average</b>								<b>54</b>					
<b>Max.</b>								<b>62</b>					
<b>Min.</b>								<b>40</b>					

The Summary of TSP 24-hour Concentration (µg/m<sup>3</sup>) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)
3/2/2024	Fine	21.5	1018.8	2549.04	2573.04	1440	39	1.16	1667	2.7382	2.8979	0.1597	96	164	260
9/2/2024	Fine	13.6	1025.0	2576.69	2600.69	1440	40	1.23	1773	2.7398	2.8925	0.1527	86		
15/2/2024	Fine	21.4	1019.1	2603.92	2627.92	1440	39	1.16	1669	2.7476	2.9180	0.1704	102		
21/2/2024	Fine	26.5	1015.6	2630.57	2654.57	1440	39	1.14	1642	2.6754	2.8189	0.1435	87		
27/2/2024	Fine	24.4	1013.1	2656.68	2680.68	1440	39	1.14	1645	2.7513	2.9447	0.1934	118		
												Average	98		
												Min	86		
												Max	118		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)
3/2/2024	Fine	21.5	1018.8	2091.91	2115.91	1440	42	0.79	1142	2.7611	2.8944	0.1333	117	152	260
9/2/2024	Fine	13.6	1026.5	2119.45	2143.45	1440	41	0.81	1169	2.7394	2.8827	0.1433	123		
15/2/2024	Fine	21.4	1019.1	2146.98	2170.98	1440	38	0.64	915	2.7344	2.8458	0.1114	122		
21/2/2024	Fine	26.5	1015.6	2173.10	2197.10	1440	38	0.61	884	2.6869	2.7817	0.0948	107		
27/2/2024	Fine	24.4	1013.1	2199.46	2223.46	1440	41	0.75	1083	2.6700	2.7999	0.1299	120		
												Average	118		
												Min	107		
												Max	123		

The Summary of 24-hour TSP Concentration (µg/m<sup>3</sup>) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)
3/2/2024	Fine	22.5	1018.8	3096.98	3120.98	1440	42	1.20	1725	2.7539	2.9390	0.1851	107	163	260
9/2/2024	Fine	13.6	1025.0	3124.80	3148.80	1440	42	1.23	1771	2.7421	2.9270	0.1849	104		
15/2/2024	Fine	21.4	1019.1	3151.69	3175.69	1440	42	1.20	1731	2.7422	2.9896	0.2474	143		
21/2/2024	Fine	26.5	1015.6	3178.83	3202.83	1440	42	1.19	1706	2.6755	2.8868	0.2113	124		
27/2/2024	Fine	24.4	1013.1	3205.28	3229.28	1440	42	1.19	1709	2.6412	2.8234	0.1822	107		
												Average	117		
												Min	104		
												Max	143		

- Remarks:  
 1. Orange Text equal to exceed Action Level  
 2. Red Text equal to exceed Limit Level

# Noise

**Impact Phase Construction Noise Monitoring Data at Location NM1a**

Date	Weather	Wind speed	Start Time	End Time	$L_{eq}$ (dB(A))							$L_{10}$ (dB(A))						$L_{90}$ (dB(A))						
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
9/2/2024	Fine	2.1	10:30	11:00	59.2	60.2	61.4	60.6	62.6	61.1	61.0	62.3	62.4	63.6	62.6	64.6	63.1	54.2	58.2	59.4	58.5	60.4	59.4	
15/2/2024	Fine	2.1	9:40	10:10	61.4	60.3	60.4	61.3	61.9	62.4	61.3	63.2	62.4	62.6	62.9	63.2	64.8	58.4	57.2	58.3	59.4	59.9	60.3	
21/2/2024	Fine	1.7	9:10	9:40	59.2	60.1	61.2	60.3	59.6	59.9	60.1	61.2	62.6	63.1	61.4	60.4	61.2	56.2	59.1	59.2	59.1	55.2	57.2	
27/2/2024	Fine	1.3	10:10	10:40	61.2	60.3	59.5	59.6	61.2	60.3	60.4	63.2	62.4	61.9	61.2	63.6	62.4	59.2	58.4	57.6	56.2	59.1	58.6	
											<b>Average</b>		60.7											
											<b>Baseline Level</b>		55.4											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		75											

**Impact Phase Construction Noise Monitoring Data at Location NM2a**

Date	Weather	Wind speed	Start Time	End Time	$L_{eq}$ (dB(A))							$L_{10}$ (dB(A))						$L_{90}$ (dB(A))						
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
9/2/2024	Fine	1.6	14:40	15:10	58.4	57.6	58.6	58	57.1	56.6	57.8	60.2	59.4	60.4	61.1	60.6	57.5	55.4	54.2	54.9	56.3	54.3	54.6	
15/2/2024	Fine	1.7	16:14	16:44	58.3	59.1	57.4	58.4	57	56.2	57.8	60.3	62.1	59.2	61.4	60.4	59.4	54.3	53.2	53.2	54.2	55.2	56.2	
21/2/2024	Fine	2.1	14:10	14:40	57.2	56.2	56.4	55.6	54.5	54.3	55.8	59.2	58.2	58.1	57.5	56.2	56.3	55.2	54.2	54.4	55	52.4	53.2	
27/2/2024	Fine	1.2	14:30	15:00	56.2	55.2	56.4	57.2	55.6	54.6	55.9	56.2	57.6	58.6	59.2	57.2	55.6	52.6	51.4	52.6	53.1	52.4	53.1	
											<b>Average</b>		57.0											
											<b>Baseline Level</b>		54.5											
											<b>Action Level</b>		When one valid documented complaint is received											
											<b>Limit Level</b>		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
15-Feb-24	16:14	Sunny	0.2	0.1	22.1	7.6	<7.4	<4	7.5	>7.7	>7.8	8.3	>9.2	>9.5	2.0	>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
15-Feb-24	8:08	Sunny	0.70	0.2	21.1	7.5	<5	<4	7.4	>7.6	>7.7	32.7	>108.3	>108.9	12.3	>94.5	>94.7

Remarks

1. Sample will be grabbed on surface when the water depth is less than 1m.
2. "TBC" equal to "To be confirm"
3. Orange Text equal to exceed Action Level
4. Red Text equal to exceed Limit Level