DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	19	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.07	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	19	2022	0.01	0.01	0.00	35.68	21.07	16.22	0.39
2	19	2022	0.00	0.00	0.00	34.28	20.67	15.92	0.29
3	19	2022	0.00	0.00	0.00	33.89	20.56	15.84	0.27
4	19	2022	0.00	0.00	0.00	33.77	20.52	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	20	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	19099	112	A			92.39				7.61
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	20	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.07	15.87	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.52	0.07
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	20	2022	0.04	0.04	0.05	48.12	24.32	17.82	1.26
2	20	2022	0.01	0.01	0.02	37.90	21.68	16.39	0.45
3	20	2022	0.00	0.00	0.01	35.09	20.90	15.99	0.31
4	20	2022	0.00	0.00	0.00	34.22	20.65	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	21	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	20414	112	A			90.92				9.08
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	21	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.58	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	21	2022	0.04	0.05	0.06	49.58	24.68	17.90	1.32
2	21	2022	0.01	0.01	0.02	38.33	21.80	16.41	0.46
3	21	2022	0.00	0.00	0.01	35.23	20.94	16.00	0.31
4	21	2022	0.00	0.00	0.00	34.28	20.67	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	22	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.86				3.14
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	22	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.45	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	22	2022	0.05	0.06	0.04	46.17	23.84	17.96	1.37
2	22	2022	0.01	0.02	0.01	37.34	21.53	16.43	0.47
3	22	2022	0.00	0.01	0.00	34.90	20.85	16.01	0.32
4	22	2022	0.00	0.00	0.00	34.15	20.63	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	23	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	9937	96	A			93.12				6.88
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	23	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.26	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	23	2022	0.02	0.02	0.03	40.97	22.51	16.61	0.55
2	23	2022	0.01	0.01	0.01	35.82	21.10	16.04	0.33
3	23	2022	0.00	0.00	0.00	34.40	20.70	15.88	0.28
4	23	2022	0.00	0.00	0.00	33.96	20.58	15.83	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	24	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	14957	48	A			95.82				4.18
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	24	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.28	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	24	2022	0.05	0.05	0.04	41.32	22.60	16.62	0.55
2	24	2022	0.01	0.02	0.01	35.92	21.13	16.04	0.33
3	24	2022	0.00	0.01	0.00	34.44	20.71	15.88	0.28
4	24	2022	0.00	0.00	0.00	33.98	20.58	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	25	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17139	48	A			96.17				3.83
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	25	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.28	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	25	2022	0.05	0.06	0.05	41.52	22.65	16.66	0.57
2	25	2022	0.01	0.02	0.01	35.98	21.15	16.05	0.33
3	25	2022	0.00	0.01	0.00	34.45	20.72	15.88	0.28
4	25	2022	0.00	0.00	0.00	33.98	20.58	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	26	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	43251	96	A			96.7				3.3
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	26	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.06	15.86	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.48	0.06
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	26	2022	0.05	0.10	0.08	46.89	24.02	17.55	1.07
2	26	2022	0.02	0.03	0.02	37.55	21.58	16.31	0.42
3	26	2022	0.01	0.01	0.01	34.97	20.86	15.97	0.30
4	26	2022	0.00	0.00	0.00	34.18	20.64	15.86	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	27	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.86				3.14
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	27	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.45	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	27	2022	0.05	0.06	0.04	46.17	23.84	17.96	1.37
2	27	2022	0.01	0.02	0.01	37.34	21.53	16.43	0.47
3	27	2022	0.00	0.01	0.00	34.90	20.85	16.01	0.32
4	27	2022	0.00	0.00	0.00	34.15	20.63	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	28	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.86				3.14
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	28	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.45	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	28	2022	0.05	0.06	0.04	46.17	23.84	17.96	1.37
2	28	2022	0.01	0.02	0.01	37.34	21.53	16.43	0.47
3	28	2022	0.00	0.01	0.00	34.90	20.85	16.01	0.32
4	28	2022	0.00	0.00	0.00	34.15	20.63	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	29	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24049	112	A			92.3				7.7
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	29	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.6	34.3	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.58	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	29	2022	0.05	0.06	0.07	49.57	24.67	18.01	1.41
2	29	2022	0.01	0.02	0.02	38.33	21.80	16.44	0.48
3	29	2022	0.00	0.01	0.01	35.23	20.94	16.01	0.32
4	29	2022	0.00	0.00	0.00	34.28	20.67	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	30	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	21442	112	A			93.14				6.86
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	30	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.53	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	30	2022	0.04	0.05	0.06	48.24	24.35	17.90	1.32
2	30	2022	0.01	0.01	0.02	37.94	21.69	16.41	0.46
3	30	2022	0.00	0.00	0.01	35.10	20.90	16.00	0.31
4	30	2022	0.00	0.00	0.00	34.23	20.65	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	31	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17801	48	A			93.92				6.08
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	31	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.35	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	31	2022	0.05	0.06	0.06	43.25	23.10	16.74	0.61
2	31	2022	0.01	0.02	0.02	36.48	21.29	16.07	0.34
3	31	2022	0.00	0.01	0.01	34.62	20.76	15.89	0.28
4	31	2022	0.00	0.00	0.00	34.05	20.60	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	32	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7013	64	B			91.94				8.06
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	32	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.14	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	32	2022	0.02	0.02	0.02	37.55	21.58	16.13	0.36
2	32	2022	0.01	0.01	0.00	34.82	20.82	15.90	0.28
3	32	2022	0.00	0.00	0.00	34.07	20.61	15.83	0.27
4	32	2022	0.00	0.00	0.00	33.84	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	33	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	2763	64	B			80.9				19.1
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	33	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.09	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	33	2022	0.01	0.01	0.01	36.05	21.17	15.96	0.30
2	33	2022	0.00	0.00	0.00	34.39	20.70	15.85	0.27
3	33	2022	0.00	0.00	0.00	33.93	20.57	15.82	0.26
4	33	2022	0.00	0.00	0.00	33.79	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	34	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	34154	112	A			96.34				3.66
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	34	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.53	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	34	2022	0.05	0.08	0.07	48.33	24.37	18.26	1.61
2	34	2022	0.02	0.02	0.02	37.96	21.70	16.52	0.51
3	34	2022	0.01	0.01	0.01	35.11	20.90	16.04	0.33
4	34	2022	0.00	0.00	0.00	34.23	20.65	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	35	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	34154	112	A			96.34				3.66
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	35	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.53	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	35	2022	0.05	0.08	0.07	48.33	24.37	18.26	1.61
2	35	2022	0.02	0.02	0.02	37.96	21.70	16.52	0.51
3	35	2022	0.01	0.01	0.01	35.11	20.90	16.04	0.33
4	35	2022	0.00	0.00	0.00	34.23	20.65	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	36	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7562	96	A			94.3				5.7
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	36	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.19	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	36	2022	0.02	0.02	0.02	38.85	21.94	16.40	0.46
2	36	2022	0.01	0.00	0.01	35.20	20.93	15.98	0.31
3	36	2022	0.00	0.00	0.00	34.20	20.64	15.86	0.27
4	36	2022	0.00	0.00	0.00	33.89	20.55	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	37	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	38274	112	A			96.62				3.38
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	37	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.55	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	37	2022	0.06	0.09	0.07	48.74	24.47	18.37	1.70
2	37	2022	0.02	0.03	0.02	38.08	21.73	16.55	0.52
3	37	2022	0.01	0.01	0.01	35.15	20.92	16.05	0.33
4	37	2022	0.00	0.00	0.00	34.25	20.66	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	38	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	18792	112	A			96.16				3.84
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	38	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.4	34.1	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.07	15.87	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.42	0.07
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	38	2022	0.04	0.05	0.04	45.36	23.64	17.74	1.21
2	38	2022	0.01	0.01	0.01	37.10	21.46	16.37	0.44
3	38	2022	0.00	0.00	0.00	34.82	20.82	15.99	0.31
4	38	2022	0.00	0.00	0.00	34.12	20.62	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	39	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	9937	112	A			93.12				6.88
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	39	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.04	15.84	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.30	0.04
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	39	2022	0.03	0.02	0.03	42.06	22.79	17.01	0.74
2	39	2022	0.01	0.01	0.01	36.14	21.19	16.15	0.36
3	39	2022	0.00	0.00	0.00	34.51	20.73	15.92	0.29
4	39	2022	0.00	0.00	0.00	34.00	20.59	15.84	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	40	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	38274	112	A			96.62				3.38
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	40	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.2	20.7	$\mu g/m^3$	Annual mean*	20.7	$\mu g/m^3$
PM_{10}	15.8	0.09	15.89	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.55	0.09
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	40	2022	0.06	0.09	0.07	48.74	24.47	18.37	1.70
2	40	2022	0.02	0.03	0.02	38.08	21.73	16.55	0.52
3	40	2022	0.01	0.01	0.01	35.15	20.92	16.05	0.33
4	40	2022	0.00	0.00	0.00	34.25	20.66	15.89	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	41	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	2348	112	A			100				0
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	41	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.0	33.7	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.05	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	41	2022	0.01	0.01	0.00	34.98	20.87	16.07	0.34
2	41	2022	0.00	0.00	0.00	34.07	20.61	15.88	0.28
3	41	2022	0.00	0.00	0.00	33.82	20.54	15.83	0.26
4	41	2022	0.00	0.00	0.00	33.75	20.51	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	42	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	9625	48	A			93.62				6.38
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	42	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.2	33.9	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.02	15.82	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.21	0.02
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	42	2022	0.03	0.03	0.03	39.55	22.13	16.37	0.45
2	42	2022	0.01	0.01	0.01	35.41	20.99	15.97	0.30
3	42	2022	0.00	0.00	0.00	34.26	20.66	15.86	0.27
4	42	2022	0.00	0.00	0.00	33.91	20.56	15.82	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	43	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	24841	112	A			96.86				3.14
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	43	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.5	34.2	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.08	15.88	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.45	0.08
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	43	2022	0.05	0.06	0.04	46.17	23.84	17.96	1.37
2	43	2022	0.01	0.02	0.01	37.34	21.53	16.43	0.47
3	43	2022	0.00	0.01	0.00	34.90	20.85	16.01	0.32
4	43	2022	0.00	0.00	0.00	34.15	20.63	15.88	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	44	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	18792	112	A			96.16				3.84
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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Current receptor

Receptor Name	44	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.4	34.1	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.07	15.87	$\mu g/m^3$	Annual mean	15.9	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.42	0.07
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	44	2022	0.04	0.05	0.04	45.36	23.64	17.74	1.21
2	44	2022	0.01	0.01	0.01	37.10	21.46	16.37	0.44
3	44	2022	0.00	0.00	0.00	34.82	20.82	15.99	0.31
4	44	2022	0.00	0.00	0.00	34.12	20.62	15.87	0.28

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	45	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	2348	112	A			100				0
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	45	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.0	33.7	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.05	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	45	2022	0.01	0.01	0.00	34.98	20.87	16.07	0.34
2	45	2022	0.00	0.00	0.00	34.07	20.61	15.88	0.28
3	45	2022	0.00	0.00	0.00	33.82	20.54	15.83	0.26
4	45	2022	0.00	0.00	0.00	33.75	20.51	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	46	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	17322	48	A			94.99				5.01
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	46	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.3	34.0	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.03	15.83	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.31	0.03
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	46	2022	0.05	0.06	0.05	42.39	22.88	16.70	0.59
2	46	2022	0.01	0.02	0.02	36.23	21.22	16.06	0.33
3	46	2022	0.00	0.01	0.01	34.54	20.74	15.89	0.28
4	46	2022	0.00	0.00	0.00	34.01	20.59	15.83	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	47	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7401	48	B			92.94				7.06
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	47	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.14	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	47	2022	0.02	0.03	0.02	37.60	21.60	16.18	0.37
2	47	2022	0.01	0.01	0.01	34.84	20.83	15.91	0.29
3	47	2022	0.00	0.00	0.00	34.08	20.61	15.84	0.27
4	47	2022	0.00	0.00	0.00	33.84	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	48	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7670	48	B			93.12				6.88
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	48	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.14	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	48	2022	0.02	0.03	0.02	37.70	21.63	16.19	0.38
2	48	2022	0.01	0.01	0.01	34.87	20.83	15.91	0.29
3	48	2022	0.00	0.00	0.00	34.09	20.61	15.84	0.27
4	48	2022	0.00	0.00	0.00	33.84	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	49	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7788	48	B			93.22				6.78
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

DMRB: Assessment of Local Air Quality

OUTPUT SHEET

Current receptor

Receptor Name	49	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.15	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	49	2022	0.02	0.03	0.02	37.74	21.64	16.20	0.38
2	49	2022	0.01	0.01	0.01	34.88	20.84	15.92	0.29
3	49	2022	0.00	0.00	0.00	34.09	20.61	15.84	0.27
4	49	2022	0.00	0.00	0.00	33.85	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	50	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	7788	48	B			93.22				6.78
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	50	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.15	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	50	2022	0.02	0.03	0.02	37.74	21.64	16.20	0.38
2	50	2022	0.01	0.01	0.01	34.88	20.84	15.92	0.29
3	50	2022	0.00	0.00	0.00	34.09	20.61	15.84	0.27
4	50	2022	0.00	0.00	0.00	33.85	20.54	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

DMRB: Assessment of Local Air Quality — INPUT SHEET

Step 1	Receptor name	51	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	5946	48	B			98.1				1.9
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	51	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.08	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	51	2022	0.02	0.02	0.01	35.93	21.13	16.07	0.34
2	51	2022	0.01	0.01	0.00	34.35	20.69	15.88	0.28
3	51	2022	0.00	0.00	0.00	33.91	20.56	15.83	0.26
4	51	2022	0.00	0.00	0.00	33.78	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	52	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	4298	48	B			97.87				2.13
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

Step 6

Step 7

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OUTPUT SHEET

Current receptor

Receptor Name	52	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.06	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	52	2022	0.01	0.02	0.01	35.34	20.97	16.00	0.31
2	52	2022	0.00	0.00	0.00	34.18	20.64	15.86	0.27
3	52	2022	0.00	0.00	0.00	33.86	20.55	15.82	0.26
4	52	2022	0.00	0.00	0.00	33.76	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	53	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	4298	48	B			97.87				2.13
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	53	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.1	33.8	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.0	20.5	$\mu g/m^3$	Annual mean*	20.5	$\mu g/m^3$
PM_{10}	15.8	0.01	15.81	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.06	0.01
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	53	2022	0.01	0.02	0.01	35.34	20.97	16.00	0.31
2	53	2022	0.00	0.00	0.00	34.18	20.64	15.86	0.27
3	53	2022	0.00	0.00	0.00	33.86	20.55	15.82	0.26
4	53	2022	0.00	0.00	0.00	33.76	20.52	15.81	0.26

* See Footnote 32 in DMRB Volume 11 Chapter 3

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Step 1	Receptor name	54	Receptor number	4
Step 2	Year	2022		
Step 3	Number of links	1		

Step 6

Step 7

Step 4

Background concentrations for 2022					
CO (mg/m^3)	Benzene (µg/m^3)	1,3-butadiene (µg/m^3)	NO_x (µg/m^3)	NO_2 (µg/m^3)	PM_{10} (µg/m^3)
0	0	0	33.7	20.5	15.8

Step 5

Link number	Distance from link centre to receptor (m)	Traffic flow & speed		Traffic composition							
		AADT (combined, veh/day)	Annual average speed (km/h)	Road type (A,B,C,D)	Vehicles <3.5t GVW (LDV)			Vehicles>3.5t GVW (HDV)			
					% passen-ger cars	% light goods vehicles	Total % LDV	% buses and coaches	% rigid HGV	% articulated HGV	Total % HDV
1	175	18582	96	A			93.3				6.7
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											

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OUTPUT SHEET

Current receptor

Receptor Name	54	Receptor number	4
Assessment year	2022		

Results

Pollutant	Annual mean				For comparison with Air Quality Standards		
	Background concentration	Road traffic component	Total	Units	Metric	Value	Units
CO	0.00	0.00	0.00	mg/m^3	Annual mean*	0.00	mg/m^3
Benzene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
1,3-butadiene	0.00	0.00	0.00	$\mu g/m^3$	Annual mean	0.00	$\mu g/m^3$
NO_x	33.7	0.4	34.1	$\mu g/m^3$	Not applicable		
NO_2	20.5	0.1	20.6	$\mu g/m^3$	Annual mean*	20.6	$\mu g/m^3$
PM_{10}	15.8	0.05	15.85	$\mu g/m^3$	Annual mean	15.8	$\mu g/m^3$
					Days >50$\mu g/m^3$	0	Days

* See Footnote 32 in DMRB Volume 11 Chapter 3

Contribution of each link to annual mean

Link number	CO (mg/m^3)	Benzene ($\mu g/m^3$)	1,3-butadiene ($\mu g/m^3$)	NOx ($\mu g/m^3$)	PM_{10} ($\mu g/m^3$)
1	0.00	0.00	0.00	0.43	0.05
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

All receptors

Receptor number	Name	Year	Pollutant concentrations at receptor						
			CO *	Benzene	1,3-butadiene	NO_x	NO_2 *	PM_{10}	
			Annual mean mg/m^3	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Annual mean $\mu g/m^3$	Days >50$\mu g/m^3$
1	54	2022	0.04	0.04	0.05	45.53	23.68	17.12	0.81
2	54	2022	0.01	0.01	0.01	37.15	21.47	16.19	0.38
3	54	2022	0.00	0.00	0.00	34.84	20.83	15.93	0.29
4	54	2022	0.00	0.00	0.00	34.13	20.62	15.85	0.27

* See Footnote 32 in DMRB Volume 11 Chapter 3