

APPENDIX

0

INLAND  
RAIL 

# Air Quality Technical Report

Part 3 of 3

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT

# APPENDIX

# 0

## Air Quality Technical Report

### **Appendix B** Sensitive Receptor Maps

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT



# Appendix B

## Sensitive Receptor Maps

Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- +— Existing rail (operational)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



### Legend

- Sensitive receptors
- 5 Chainage (km)
- + Existing rail (operational)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km

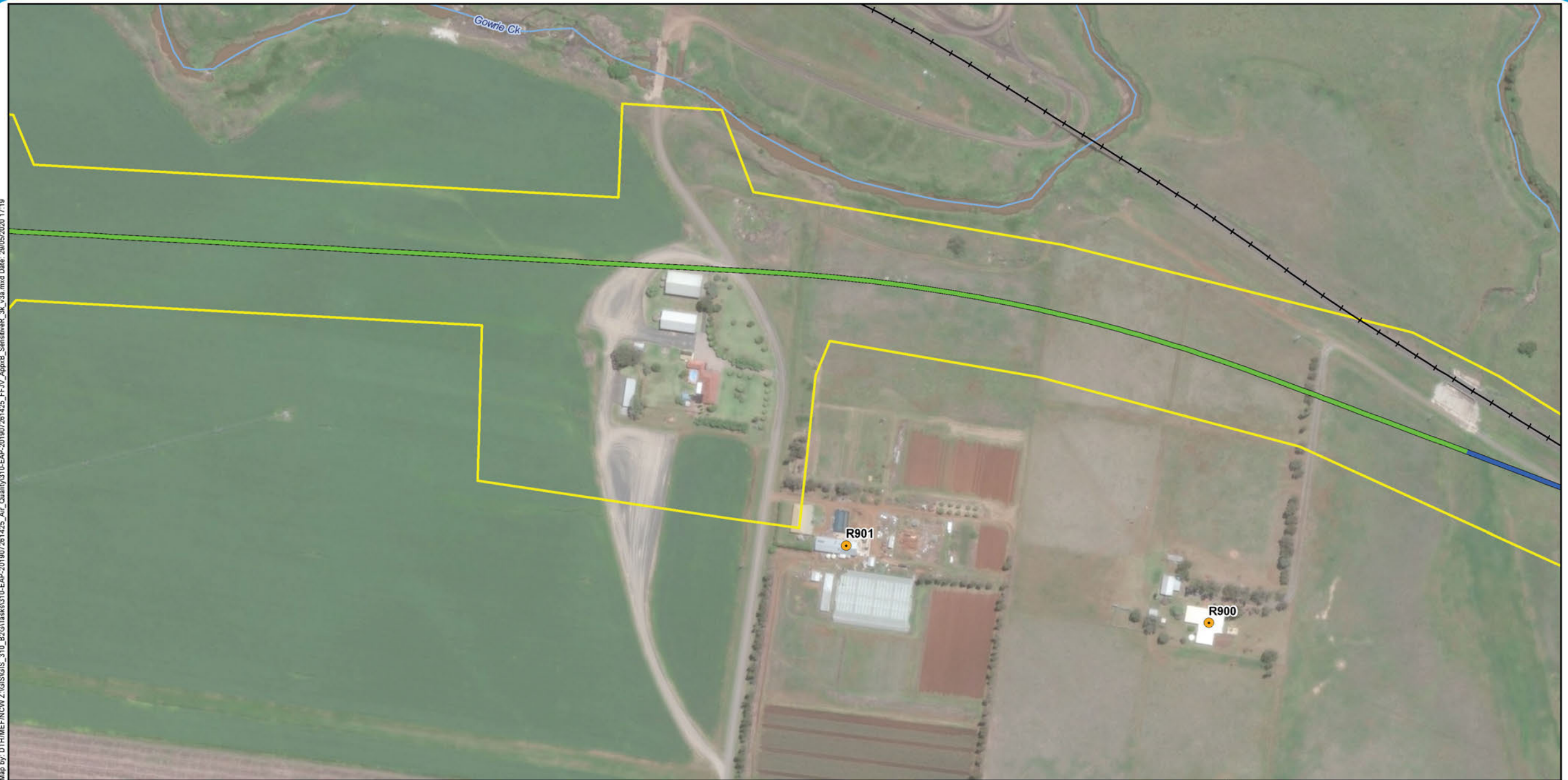


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 Coordinate System: GDA 1994 MGA Zone 56



Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_AppxB\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Gowrie to Helidon alignment
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_AppxB\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Gowrie to Helidon alignment
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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- 5 Chainage (km)
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A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
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### Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
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A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint

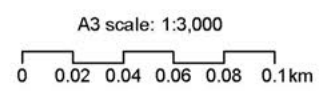


A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





- Legend**
- Sensitive receptors
  - 5 Chainage (km)
  - Watercourses





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
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A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_AppxB\_SensitiveR\_30\_v3a.mxd Date: 29/05/2020 17:19



**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
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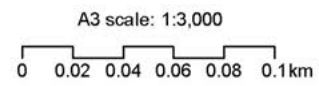
Issue date: 29/05/2020 Version: 1  
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**Legend**

- Sensitive receptors
- Minor roads
- Watercourses
- Project footprint
- 5 Chainage (km)



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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
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# Legend

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#### Legend

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
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# Legend

- Sensitive receptors
- Chainage (km)
- Border to Gowrie alignment
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A3 scale: 1:3,000  
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- Legend**
- Sensitive receptors
  - 5 Chainage (km)
  - Watercourses





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_30\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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### Legend

- Sensitive receptors
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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
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**Legend**

- Sensitive receptors
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- Sensitive receptors
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- Sensitive receptors
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- 5 Chainage (km)
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A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- Major roads
- Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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# Legend

- Sensitive receptors
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A3 scale: 1:3,000  
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### Legend

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- Minor roads
- Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
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#### Legend

- Sensitive receptors
- Minor roads
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#### Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses



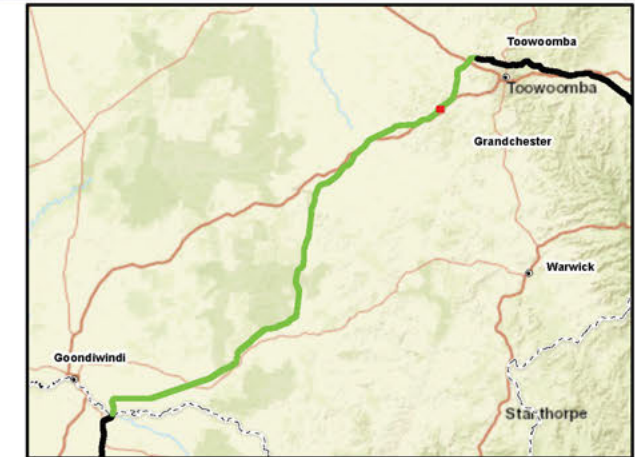
A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- Minor roads
- Watercourses
- Project footprint
- 5 Chainage (km)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
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A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



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# Legend

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A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19

**Legend**

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint
- +— Existing rail (operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

Issue date: 29/05/2020 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56



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#### Legend

- Sensitive receptors
- Major roads
- Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint
- +— Existing rail (operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

Issue date: 29/05/2020 Version: 1  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- + - Existing rail (operational)
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

Issue date: 29/05/2020 Version: 1  
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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses







**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Future Freight**  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- + Existing rail (operational)
- Major roads
- Watercourses



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- Minor roads
- Watercourses
- Project footprint
- 5 Chainage (km)



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Future Freight**  
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**Legend**

- Sensitive receptors
- Minor roads
- Watercourses
- 5 Chainage (km)
- +— Existing rail (operational)



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- +— Existing rail (operational)



A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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**Future Freight**  
 Integrating Community, Environment and Engineering

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**Legend**

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Minor roads
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Minor roads
- Watercourses
- Existing rail (operational)



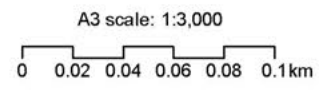
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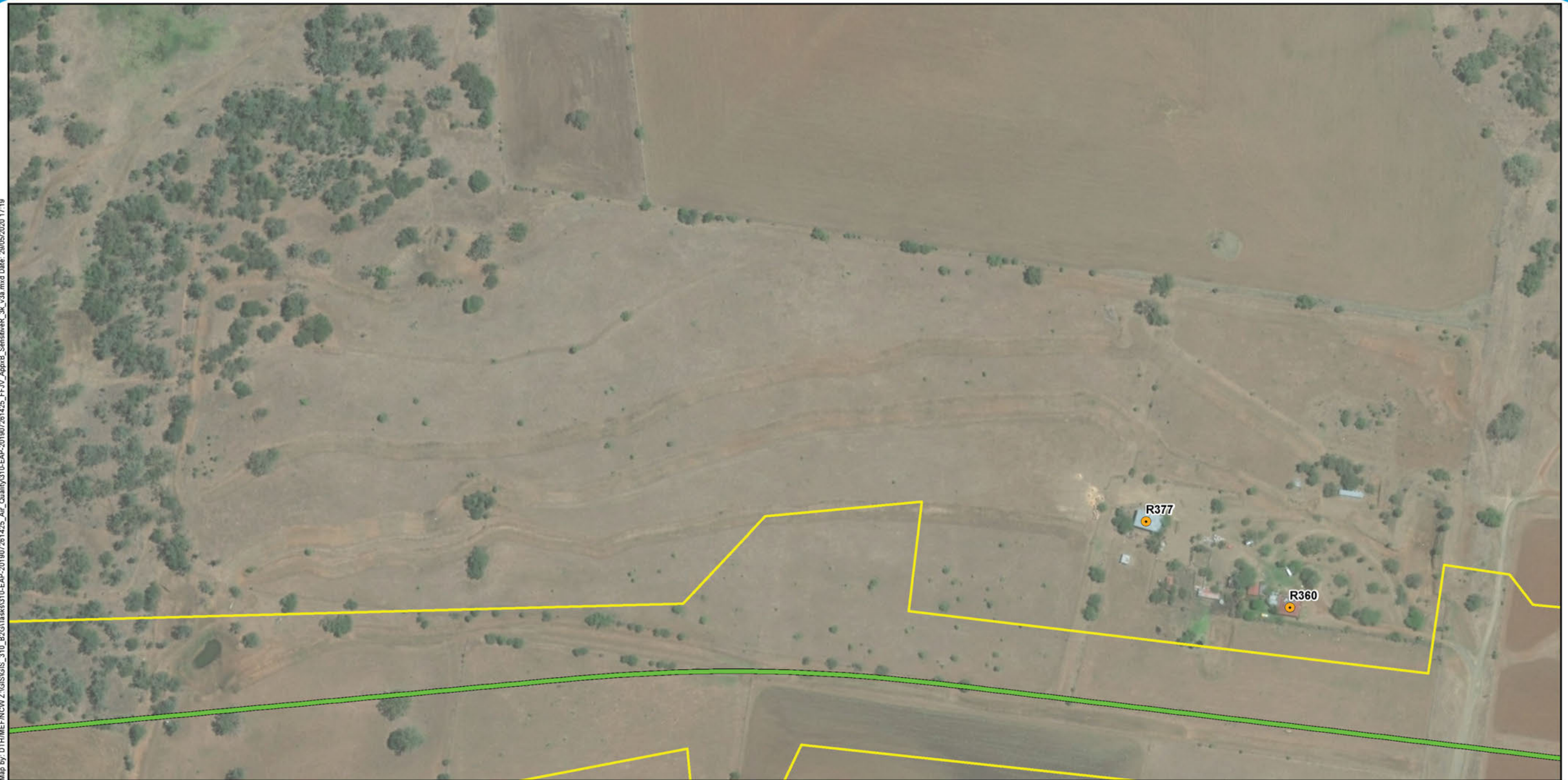
**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses
- Project footprint





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_AppxB\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





● Sensitive receptors      — Minor roads  
5 Chainage (km)      — Watercourses  
+ Existing rail (operational)







#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- +— Existing rail (operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
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#### Legend

-  Sensitive receptors
-  Chainage (km)
-  Border to Gowrie alignment
-  Existing rail (operational)
-  Watercourses
-  Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

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# Legend

-  Sensitive receptors
-  Chainage (km)
-  Existing rail (operational)
-  Watercourses
-  Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
- +— Existing rail (operational)
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- Localities
- +— Existing rail (operational)



A3 scale: 1:3,000  
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**Future Freight**  
 Integrating Community, Environment and Engineering

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### Legend

- Sensitive receptors
- 5 Chainage (km)
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Future Freight**  
 Integrating Community, Environment and Engineering

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# Legend

- Sensitive receptors
- Chainage (km)
- Existing rail (operational)
- Watercourses



A3 scale: 1:3,000  
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### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





#### Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses
- + Existing rail (operational)



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- +— Existing rail (operational)
- Major roads
- Minor roads
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





- Legend**
- Sensitive receptors
  - Minor roads
  - 5 Chainage (km)
  - Watercourses
  - +— Existing rail (operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

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#### Legend

- Sensitive receptors
- Minor roads
- Watercourses
- Border to Gowrie alignment
- Project footprint
- +— Existing rail (operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



**Future Freight**  
 Integrating Community, Environment and Engineering

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**Legend**

- Sensitive receptors
- Minor roads
- Watercourses
- Project footprint
- 5 Chainage (km)



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Major roads
- Minor roads
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



### Legend

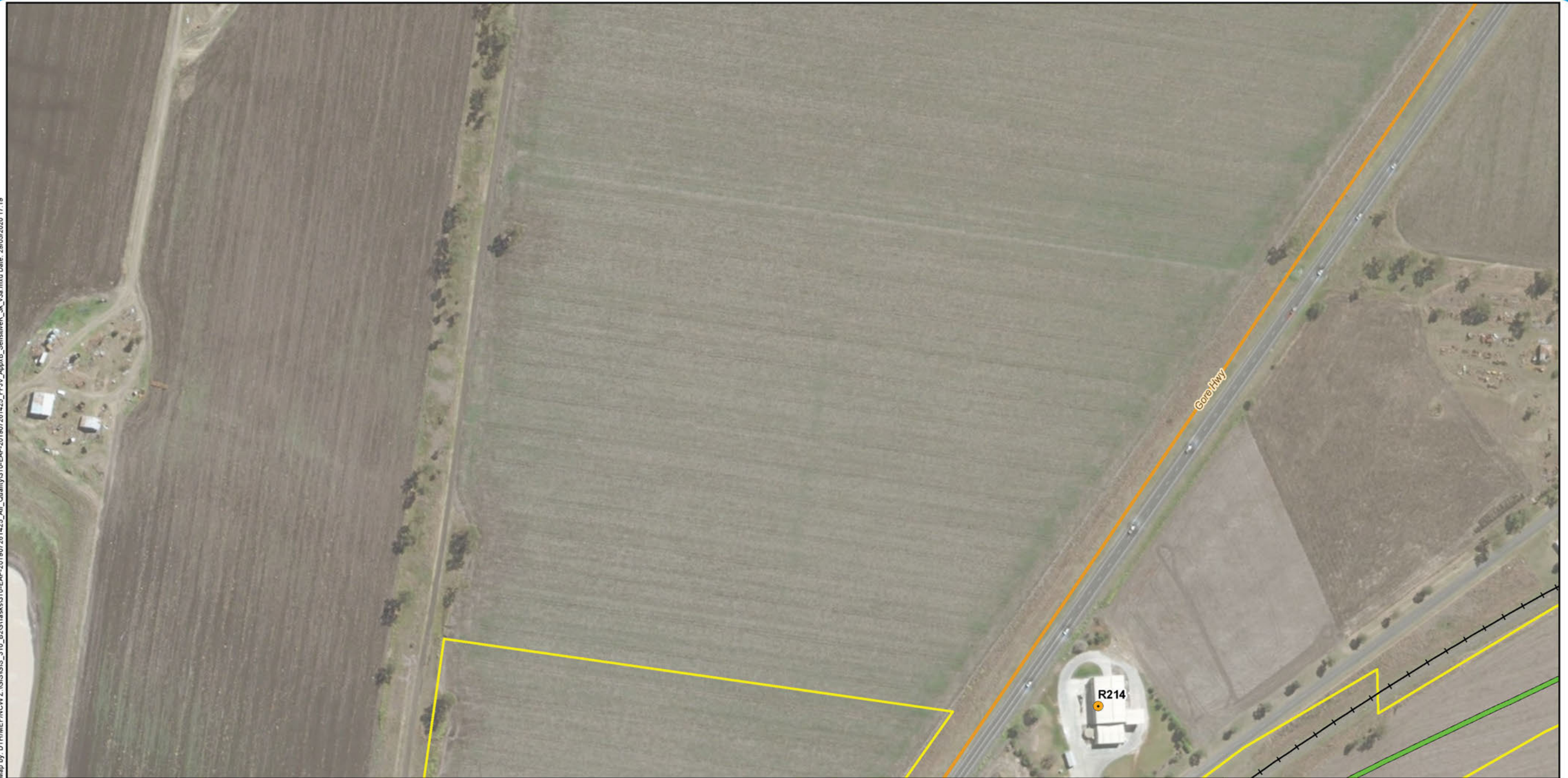
- Sensitive receptors
- Major roads
- Minor roads
- Border to Gowrie alignment
- Watercourses
- Existing rail (operational)
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Major roads
- Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint
- Existing rail (operational)



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- +— Existing rail (operational)
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Future Freight**  
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**Legend**

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint
- +— Existing rail (operational)



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- +- Existing rail (non-operational)
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- - - Existing rail (non-operational)
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- - - Existing rail (non-operational)
- Major roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Major roads
- Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint
- Existing rail (non-operational)



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses



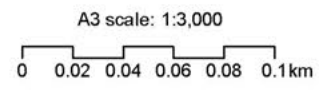
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- - - Existing rail (non-operational)
- Major roads
- Minor roads
- Watercourses
- Project footprint

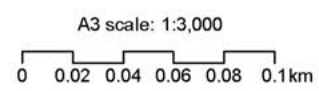






**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- - - Existing rail (non-operational)
- Watercourses
- Project footprint





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Major roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





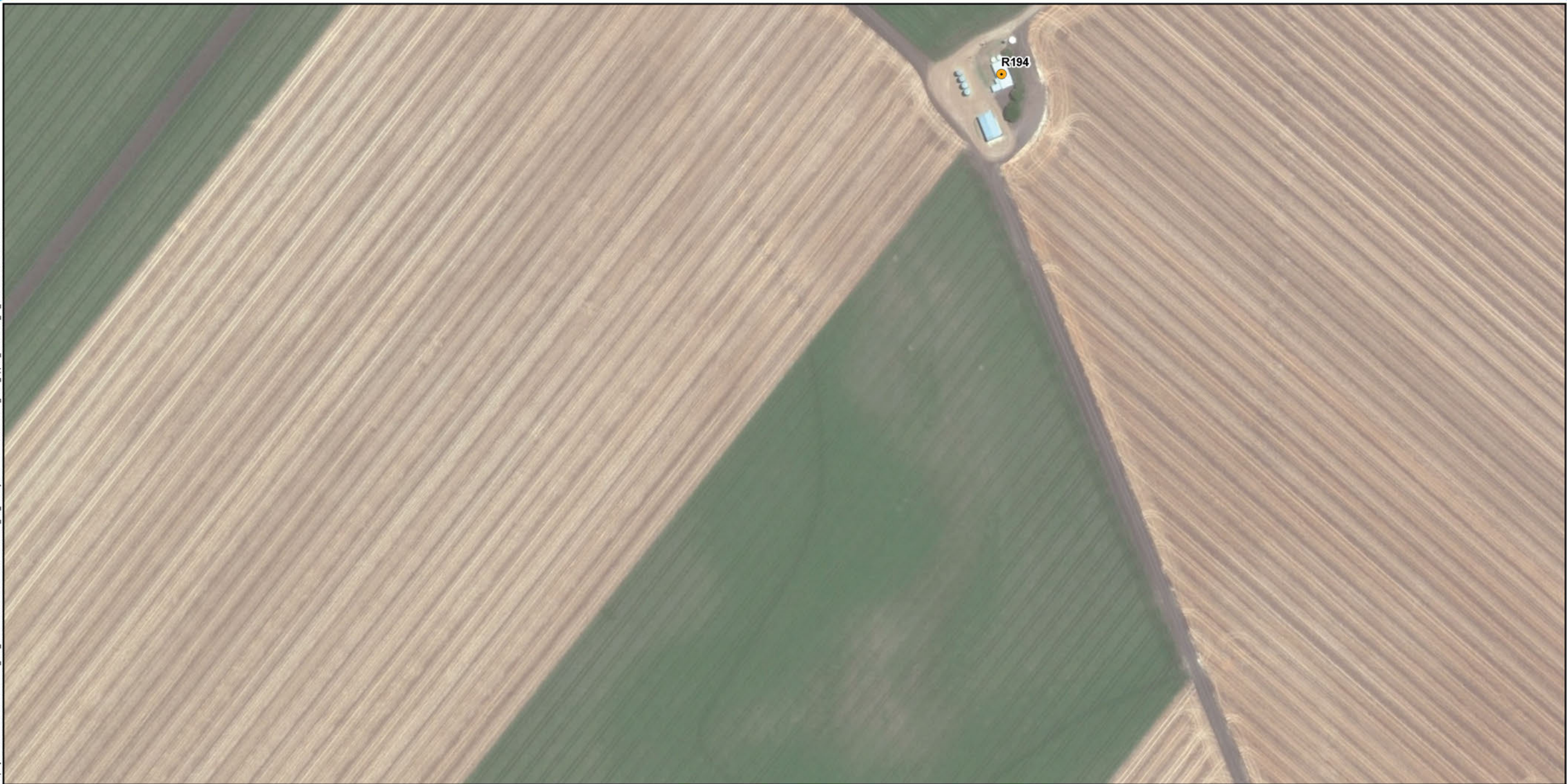
#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Minor roads
- Watercourses
- Project footprint
- - - Existing rail (non-operational)



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19

- Legend**
- Sensitive receptors
  - 5 Chainage (km)
  - Watercourses





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_AppxB\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- Minor roads
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Minor roads
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Minor roads
- Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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**Legend**

-  Sensitive receptors
-  Chainage (km)
-  Watercourses
-  Project footprint



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19

- Legend**
- Sensitive receptors
  - Chainage (km)
  - Watercourses
  - Project footprint





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### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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- Legend**
- Sensitive receptors
  - Minor roads
  - Watercourses
  - 5 Chainage (km)





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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Minor roads
- Watercourses
- Project footprint



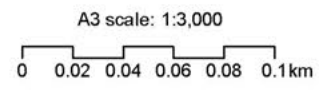
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses







**Legend**

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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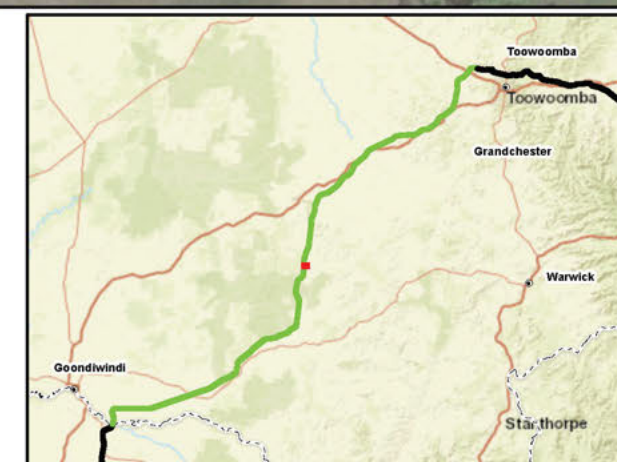


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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\Tasks\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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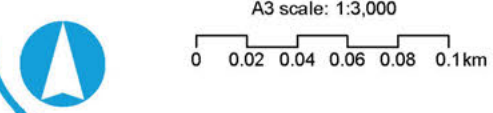




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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



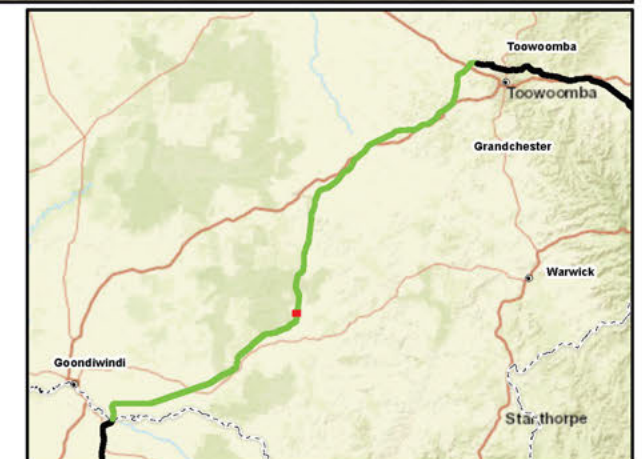


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#### Legend

- Sensitive receptors
- Minor roads
- 5 Chainage (km)
- Watercourses
- Border to Gowrie alignment
- Project footprint



A3 scale: 1:3,000  
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Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_30\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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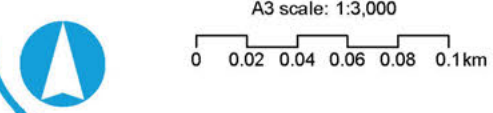




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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Watercourses







-  Sensitive receptors
-  Chainage (km)
-  Border to Gowrie alignment
-  Watercourses
-  Project footprint





Map by: DTH\MEF\NCW Z:\GIS\GIS\_310\_B2\GIS\GIS\_310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_SensitiveR\_3k\_v3a.mxd Date: 29/05/2020 17:19



# Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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### Legend

- Sensitive receptors
- 5 Chainage (km)
- Watercourses



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km





- Legend**
- Sensitive receptors
  - 5 Chainage (km)
  - Watercourses





Map by: DTH/MEF/NCW Z:\GIS\GIS\_310\_B2\GIS\310-EAP-201807261425\_Air\_Quality\310-EAP-201807261425\_FF\IV\_Appx8\_Sensitive\_3k\_v3a.mxd Date: 29/05/2020 17:19



#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
 0 0.02 0.04 0.06 0.08 0.1km



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# Legend

- Sensitive receptors
- Chainage (km)
- Watercourses



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- Chainage (km)
- Border to Gowrie alignment
- Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- Existing rail (operational)
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- +— Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- Major roads
- Minor roads
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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- Legend**
- Sensitive receptors
  - 5 Chainage (km)
  - Watercourses



A3 scale: 1:3,000  
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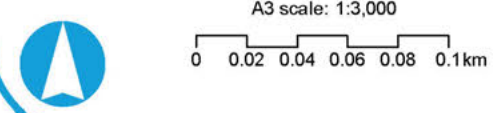
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**Legend**

- Sensitive receptors
- Chainage (km)
- Border to Gowrie alignment
- Existing rail (operational)
- Watercourses
- Project footprint





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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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**Legend**

- Sensitive receptors
- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Existing rail (operational)
- Watercourses



A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Localities
- Border to Gowrie alignment
- + — Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- + Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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#### Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- + Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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# Legend

- Sensitive receptors
- 5 Chainage (km)
- Border to Gowrie alignment
- Existing rail (operational)
- Watercourses
- Project footprint



A3 scale: 1:3,000  
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# APPENDIX

# 0

## Air Quality Technical Report

### **Appendix C** Background Rail Emissions Calculations

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT



# Appendix C

## Background Rail Emissions Calculations

### Background rail section lengths

The modelled lengths of the sections of rail included as background for the Project assessment are presented in Table C1.

**Table C1** Modelled background rail section alignment lengths

| Parameter                      | West Moreton System | Gowrie to Helidon Project | North Star to QLD/NSW Border Project |
|--------------------------------|---------------------|---------------------------|--------------------------------------|
| Modelled alignment length (km) | 3.5                 | 1.0                       | 1.0                                  |

### Diesel emissions

The diesel engine emission rates for the modelled background sections of rail were calculated according to the methodology provided in Section 5.3.1.1.

The number of trains for the North Star to QLD/NSW Border section were assumed to be the same the Project (refer peak volumes in Table 2.4). The train numbers used to calculate emission rates for the West Moreton System and Gowrie to Helidon Project background sections are presented in Table C2 and Table C3 respectively, and are as provided by ARTC for the purpose of the EIS.

**Table C2** Weekly peak train movements by service – West Moreton System

| Train type/description      | West Moreton System  |          |           |          |       |
|-----------------------------|----------------------|----------|-----------|----------|-------|
|                             | # of trains per week | NR Class | SCT Class | Class 82 | PR22L |
| New Acland Coal             | 56                   | -        | -         | -        | x     |
| Cameby Downs/Rywung Coal    | 56                   | -        | -         | -        | x     |
| Kogan Creek Coal            | 42                   | -        | -         | -        | x     |
| Wilkie Creek Coal           | 28                   | -        | -         | -        | x     |
| Toowoomba Export Containers | 12                   | -        | -         | -        | x     |
| Westlander                  | 4                    | -        | -         | -        | x     |
| <b>Total</b>                | <b>198</b>           |          |           |          |       |

**Table C3** Weekly peak train movements by service – Gowrie to Helidon Project

| Train type/description           | Gowrie to Helidon Project |          |           |          |       |
|----------------------------------|---------------------------|----------|-----------|----------|-------|
|                                  | # of trains per week      | NR Class | SCT Class | Class 82 | PR22L |
| MB Express (Bromelton)           | 14                        | x        | -         | -        | -     |
| MB Express (Acacia Ridge)        | 14                        | x        | -         | -        | -     |
| MB Superfreighter (Bromelton)    | 40                        | -        | x         | -        | -     |
| MB Superfreighter (Acacia Ridge) | 8                         | -        | x         | -        | -     |
| GB Superfreighter (Bromelton)    | 22                        | -        | x         | -        | -     |
| GB Superfreighter (Acacia Ridge) | 10                        | -        | x         | -        | -     |
| New Acland Coal                  | 56                        | -        | -         | -        | x     |
| Cameby Downs/Rywung Coal         | 56                        | -        | -         | -        | x     |
| Kogan Creek Coal                 | 42                        | -        | -         | -        | x     |



| Train type/description      | Gowrie to Helidon Project |          |           |          |       |
|-----------------------------|---------------------------|----------|-----------|----------|-------|
|                             | # of trains per week      | NR Class | SCT Class | Class 82 | PR22L |
| Wilkie Creek Coal           | 28                        | -        | -         | -        | x     |
| Narrabri – PoB Grain        | 24                        | -        | -         | x        | -     |
| Yelarbon – PoB Grain        | 24                        | -        | -         | x        | -     |
| Oakey – PoB Grain           | 24                        | -        | -         | x        | -     |
| Narrabri – PoB Export Cont  | 12                        | -        | -         | x        | -     |
| Yelarbon – PoB Cotton       | 6                         | -        | -         | x        | -     |
| Toowoomba Export Containers | 12                        | -        | -         | -        | x     |
| Westlander                  | 4                         | -        | -         | -        | x     |
| Oakey – Rosewood Livestock  | 6                         | -        | -         | x        | -     |
| <b>Total</b>                | <b>402</b>                |          |           |          |       |



# APPENDIX

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## Air Quality Technical Report

### **Appendix D** Dispersion Model Details

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT



# Appendix D

## Dispersion Model Details

Dispersion modelling uses mathematical equations to characterise atmospheric processes, which disperse a pollutant emitted by a source. Based on emissions and meteorological inputs, dispersion models can be used to predict concentrations at selected downwind receiver locations. Air quality models are used to determine compliance with air quality standards. Two well-known and internationally used US EPA guideline models were used in this assessment - CALPUFF and CALROADS. Details of both these models can be found on the US EPA SCRAM (Support Centre for Regulatory Atmospheric Modelling) Bulletin board. The models are addressed in Appendix A of the US EPA's Guideline on Air Quality Models (also published as Appendix W.pdf) of 40 CFR Part 51.

### Dispersion models

Two dispersion models are recommended for regulatory assessments in Australia and New Zealand, which are CALPUFF and AERMOD. AERMOD has recently replaced AUSPLUME as the guideline model for all near-field, steady state modelling applications in Victoria. CALPUFF is recommended for use for all modelling applications where the steady state assumption does not apply; this includes complex terrain and coastal environments. A major difference between AERMOD and CALPUFF is in the models' treatment of meteorology. AERMOD is a 2-dimensional model where the effects of one single surface station and one single upper air station are assumed to be spatially uniform across the entire modelling region in its meteorological processor. In contrast, CALMET (CALPUFF's meteorological module) is a 3-dimensional model and is able to use the output of numerical prognostic meteorological models as well as multiple observation sites to assist in the development of three-dimensional wind fields.

### Overview of the CALPUFF suite of models

The CALPUFF modelling system provides a non-steady state modelling approach, which evaluates the effects of spatial changes in the meteorological and surface characteristics. It offers the ability to treat stagnation, multiple-hour pollutant build-up, recirculation and causality effects, which are beyond the capabilities of steady-state models. The CALPUFF modelling system was adopted by the U.S. EPA as a guideline model for long range transport applications and, on a case-by-case basis, for near-field applications involving complex flows (Federal Register, April 15, 2003, pp 18,440-18,482). CALPUFF is also recommended by both the Federal Land Managers Air Quality Workgroup (FLAG, 2000, 2008) and the Interagency Workgroup on Air Quality Modelling (IWAQM, 1998). It was adopted for world-wide use by the United Nations International Atomic Energy Agency (IAEA). CALPUFF is widely used in many countries (over 100 countries) throughout the world and has been incorporated as a regulatory model in several countries.

The CALPUFF modelling system includes three main components - CALMET, CALPUFF and CALPOST - and a large set of pre-processing programs designed to interface the model to standard, routinely-available meteorological and geophysical datasets. In simple terms, CALMET is a meteorological model, which develops hourly wind and temperature fields on a three-dimensional gridded modelling domain. CALPUFF is a transport and dispersion model, which advects 'puffs' of material emitted from modelled source, simulating dispersion and transformation processes along the way. In doing so, it uses the fields generated by CALMET. The primary output files from CALPUFF contain either hourly concentrations or hourly deposition fluxes evaluated at selected receiver locations. CALPOST is used to process these files, producing summaries of the results of the simulation.



## CALMET overview

CALMET is a diagnostic meteorological model, which produces three-dimensional wind fields based on parameterised treatments of terrain effects such as slope flows and terrain blocking effects. Meteorological observations are used to determine the wind field in areas of the domain within which the observations are representative. Fine scale terrain effects are determined by the diagnostic wind module in CALMET.

The CALMET meteorological model consists of a diagnostic wind field module and micrometeorological modules for overwater and overland boundary layers (Scire et al., 2000). When using large domains, the user has the option to adjust input winds to a Lambert Conformal Projection coordinate system to account for the Earth's curvature. The diagnostic wind field module uses a two-step approach to the computation of the wind fields (Douglas and Kessler, 1988). In the first step, an initial-guess wind field is adjusted for kinematic effects of terrain, slope flows, and terrain blocking effects to produce a Step 1 wind field. The second step consists of an objective analysis procedure to introduce observational data into the Step 1 wind field in order to produce a final wind field. An option is provided to allow gridded prognostic wind fields to be used by CALMET, which may better represent regional flows and certain aspects of sea breeze circulations and slope/valley circulations. The prognostic data (as a 3D.DAT file) can be introduced into CALMET in three different ways:

- As a replacement for the initial guess wind field
- As a replacement for the Step 1 field
- As observations in the objective analysis procedure.

The techniques used in the CALMET model are briefly described below.

### Step 1 wind field

Kinematic effects on terrain: CALMET uses the approach of Liu and Yocke (1980) to evaluate kinematic terrain effects. The domain-scale winds are used to compute a terrain-forced vertical velocity, subject to an exponential stability-dependent decay function. The kinematic effects of terrain on the horizontal wind components are evaluated by applying a divergence-minimisation scheme to the initial guess wind field. The divergence minimisation scheme is applied iteratively until the three-dimensional divergence is less than a threshold value.

Slope flows. Slope flows are computed based on the shooting flow parameterisation of Mahrt (1982). Shooting flows are buoyancy-driven flows, balanced by advection of weaker momentum, surface drag and entrainment at the top of the slope flow layer. The slope flow is parameterised in terms of the terrain slope, distance to the crest and local sensible heat flux. The thickness of the slope flow layer varies with the elevation drop from the crest.

Blocking effects. The thermodynamic blocking effects of terrain on the wind flow are parameterised in terms of the local Froude number (Allwine and Whiteman 1985). If the Froude number at a particular grid point is less than a critical value and the wind has an uphill component, the wind direction is adjusted to be tangential to the terrain.

### Step 2 wind field

The wind field resulting from the adjustments of the initial guess wind described above is the Step 1 wind field. The second step of the procedure involves the introduction of observational data into the Step 1 wind field through an objective analysis procedure. An inverse-distance squared interpolation scheme is used, which weighs observational data heavily in the vicinity of the observational station, while the Step 1 wind field dominates the interpolated wind field in regions with no observational data. The resulting wind field is subject to smoothing, an optional adjustment of vertical velocities based on the O'Brien (1970) method, and divergence minimisation to produce final Step 2 wind fields.



## Overview of CALPUFF

CALPUFF is a non-steady-state puff dispersion model. It accounts for spatial changes in the meteorological fields, variability in surface conditions such as (elevation, surface roughness, vegetation type, etc.), chemical transformation, wet removal due to rain and snow, dry deposition and terrain influences on plume interaction with the surface. CALPUFF can simulate the effects of time- and space-varying meteorological conditions on pollutant transport, transformation and removal. CALPUFF contains algorithms for near-source effects, such as building downwash, transitional plume rise, partial plume penetration, sub-grid scale terrain interactions, as well as longer range effects, such as pollutant removal (wet scavenging and dry deposition), chemical transformation, vertical wind shear, overwater transport and coastal interaction effects. It can accommodate arbitrarily-varying point source and gridded area source emissions. The major features of CALPUFF model are detailed below.

### Major features of the CALPUFF model

- Source types
  - Point sources (constant or variable emissions)
  - Line Sources (constant or variable emissions)
  - Area Sources (constant or variable emissions)
  - Volume sources (constant or variable emissions)
- Non-steady-state emissions and meteorological conditions
  - Gridded 3D fields of meteorological variables
  - Spatially variable 3D fields of mixing height, friction velocity, convective velocity scale, Monin-Obukhov length, precipitation rate
  - Vertically and horizontally-varying turbulence and dispersion rates
  - Time-dependent source and emissions data
- Efficient sampling functions
  - Integrated puff formulation
  - Elongated puff (slug) formulation
- Dispersion coefficient options
  - Direct measures of  $\sigma_v$  and  $\sigma_w$
  - Estimated values of  $\sigma_v$  and  $\sigma_w$  based on similarity theory
  - PG dispersion coefficients (rural areas)
  - McElroy Pooler dispersion coefficients (urban areas)
  - CTDM dispersion coefficients (neutral/stable)
- Vertical wind shear
  - Puff splitting
  - Differential advection and dispersion
- Plume Rise
  - Partial penetration
  - Buoyant and momentum rise
  - Stack tip downwash effects
  - Vertical wind shear



- Building downwash effects
- Building downwash
  - Huber-Snyder method
  - PRIME downwash
  - Schulman Scire method
- Dry deposition
  - Gases and particulate matter
  - Three options
    - Full treatment of space and time variations of deposition with a resistance model
    - User-specified diurnal cycles for each pollutant
    - No dry deposition
- Overwater and coastal interaction effects
  - Overwater boundary layer parameters
  - Abrupt change in meteorological conditions, plume dispersion at coastal boundary
  - Plume fumigation
  - Option to introduce sub grid scale TIBLs into coastal grid cells
- Chemical transformation options
  - Pseudo-first-order chemical mechanism for  $\text{SO}_2$ ,  $\text{SO}_4$ ,  $\text{NO}_x$ ,  $\text{HNO}_3$  and  $\text{NO}_3$  (MESOPUFF II method)
  - User specified diurnal cycles of transformation rates
  - No chemical conversion
  - Wet Removal
  - Scavenging coefficient approach
  - Removal rate a function of precipitation intensity and precipitation type.



# APPENDIX

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## Air Quality Technical Report

### **Appendix E**    $\text{NO}_x$ to $\text{NO}_2$ Conversion

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT



# Appendix E

## NO<sub>x</sub> to NO<sub>2</sub> conversion

One of the challenges of modelling NO<sub>x</sub> emissions is determining the amount of NO<sub>2</sub> at a receiver, due to uncertainties in the conversion rates. Early studies (Hegg et al., 1977) showed that the rate of oxidation is controlled by the rate of plume mixing rather than by gas reaction kinetics. Ozone is usually the chemical that is responsible for most of the oxidation, but other reactive atmospheric gases can also oxidise NO.

Several methods were proposed for evaluating the amount of NO<sub>2</sub> that is formed from NO. These include:

- Total conversion
- The Ambient Ratio Method (ARM) (0.75 is the US default value) when no measured nearby NO<sub>x</sub>/NO<sub>2</sub> ratios are available
- Ozone Limiting Method (OLM)
- Janssen's equations (which assume approximately 10 per cent of all NO<sub>x</sub> is NO<sub>2</sub>) – used in Australia and New Zealand; and
- Plume Volume Molar Ratio method.

All of these methods are referenced in the Federal Guideline on Air Quality Models (GAQM) and NSW EPA (2017).

### NO<sub>x</sub> to NO<sub>2</sub> conversion

In QLD, the oxidation of NO to NO<sub>2</sub> is typically assessed by three methods (Method 1, the simplest, to Method 3, the most complex). Method 1, which assumes 100 per cent conversion of NO to NO<sub>2</sub>, can be used in one of two ways. A Level 1 assessment uses maximum predicted NO<sub>x</sub> concentrations (assuming NO<sub>x</sub> = NO<sub>2</sub>) and maximum ambient NO<sub>2</sub> concentrations to determine a cumulative NO<sub>2</sub> concentration. If the facility fails to meet the NO<sub>2</sub> impact assessment criteria, a Level 2 assessment is conducted, which again assumes 100 per cent conversion but with contemporaneous assessment of model predictions and ambient concentrations.

Method 2 is the OLM, where NO to NO<sub>2</sub> conversion is limited by the amount of ozone available. The OLM uses a simple approach to the reaction chemistry; it assumes that O<sub>3</sub> and NO react to form NO<sub>2</sub> in proportion to their ground level concentrations. That is, for each hour:

- if O<sub>3</sub> < NO plume
- NO<sub>2</sub> plume = NO<sub>2</sub> initial + O<sub>3</sub>, and if
- O<sub>3</sub> ≥ NO plume, NO<sub>2</sub> plume = NO<sub>x</sub> plume.

Method 3 uses an empirical relationship to convert NO to NO<sub>2</sub> based on the equation developed by Janssen et al. (1988). The conversion is based on the distance of the receiver downwind from the source, and can be used with various levels of refinement (i.e. using maxima or contemporaneous data).

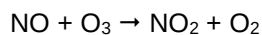
### NO<sub>x</sub> to NO<sub>2</sub> assessment in the United States

In the United States, the first level recommended technique in the Guideline on Air Quality Models (GAQM) is to assume the total conversion of NO to NO<sub>2</sub>. This is the same first tier level as NSW EPA (2017). It is a conservative, first-level technique, which may lead to unnecessary control in areas where the predicted impacts are close to ambient air quality criteria.



The Ambient Ratio Method (ARM) is the second-level technique recommended in the GAQM. The ARM is defined as the ratio of the average NO<sub>2</sub> and NO<sub>x</sub> ambient concentrations measured at a representative site. It uses local monitoring or a default 75 per cent ratio to find the ambient equilibrium NO<sub>2</sub>/NO<sub>x</sub> ratio (annual average). Theoretically, equilibrium occurs when the rate of NO<sub>2</sub> formation equals the rate of dissociation of NO<sub>2</sub> by sunlight. Chu and Meyer (1991), who developed this technique, recommended that this monitoring be performed far away so that true equilibrium would occur. Unfortunately, ambient monitoring is usually insufficient for determining this ratio because ambient concentrations are frequently below the minimum monitoring threshold for NO<sub>x</sub> (20 ppb). Further, if the monitoring is performed too close to an existing source, the ARM's assumption of equilibrium is violated, and the monitoring results are not applicable to receivers further downwind.

The third-level tier is the OLM (stated above) and a Plume Volume Molar Ratio method (PVMRM). The PVMRM method better simulates the NO to NO<sub>2</sub> conversion chemistry during plume expansion and is particularly well suited for the receivers located close to sources where maximum modelled NO concentrations are usually predicted. The PVMRM method follows the chemistry of the main forward reaction of NO with O<sub>3</sub> as it occurs during expansion of a plume segment travelling downwind:



This is accomplished by computing the number of moles of NO<sub>x</sub> and O<sub>3</sub> that are contained within a plume segment as it reaches a receiver. Although the PVMRM follows the same chemical reactions as those used in the OLM, it uses both plume size and O<sub>3</sub> concentration to derive the amount of O<sub>3</sub> available for the reaction. NO<sub>x</sub> moles are determined by emission rate and travel time through the plume segment. The number of O<sub>3</sub> moles is determined by the size of the plume segment and the measured background O<sub>3</sub> concentration. This plume segment always contains the same amount of primary NO<sub>x</sub> emissions as it travels downwind. The amount of O<sub>3</sub> available for reaction, however, increases as the plume segment enlarges downwind. The last approach, which is not yet included in any US Guideline criteria, is based on an empirical approach of some 3,000 co-located NO<sub>x</sub> and NO<sub>2</sub> monitors in Europe. The approach uses a scaled approach to NO<sub>x</sub> bins of concentration levels. This method was developed by the Atmospheric Studies Group and is included in the US EPA guideline model CALPOST. It has been used on a case-by-case basis when all other methods fail.

## Concerns with and likely conservatism of the OLM

The OLM employed by the NSW EPA (NSW EPA, 2017) was taken from the US EPA OLM, originally developed by Cole and Summerhays (1979) and Tikvart (1996). The method assumes that all the available ozone in the atmosphere will react with NO in the plume until either all the O<sub>3</sub> or all the NO is used up. The approach is known to be conservative. Some of the reasons for its lack of robustness and conservatism are listed below:

- The OLM approach assumes that the atmospheric reaction is instant, whereas in reality the reaction takes place over a period of hours
- The actual reactions of NO to NO<sub>2</sub> occur in proportion to the moles of each reactant rather than in proportion to the concentration assumed by the OLM. At constant volume, 1 ppm of a gas is proportional to 1 mole of a gas. This assumption is not valid in the open atmosphere, as there is virtually unlimited amount of O<sub>3</sub> available for reaction. As plumes expand downwind, more O<sub>3</sub> is available for reaction, and even lower concentrations of O<sub>3</sub> can react with NO in the plume.
- The OLM is further complicated as some of the NO<sub>x</sub> is already converted to NO<sub>2</sub> upstream in the plume before it reaches the receiver
- Studies have shown that the NO<sub>x</sub> emission rates are extremely important with respect to the rate of conversion to NO<sub>2</sub>. The size of the plume is not affected by the NO<sub>x</sub> emission rate, which means that there is the same amount of O<sub>3</sub> available for chemical conversion regardless of the NO<sub>x</sub> emission rate. Larger NO<sub>x</sub> emission rates lead to lower predicted ratios of NO<sub>2</sub>/NO<sub>x</sub>. Maximum impacts that occur at receivers located further away have high predicted NO<sub>2</sub>/NO<sub>x</sub> ratios. Further emissions emitted into stable (narrow) plumes will have less conversion to NO<sub>2</sub> compared to those emissions emitted into less stable (wider) plumes. The OLM does not take the NO<sub>x</sub> emission rate or plume size into consideration.



- The OLM can only be used on one plume at a time. The US EPA states that the OLM should be used with a 'plume-by-plume' approach. This is a big limitation to a facility with lots of different plumes. The OLM will therefore be very conservative for close in NO<sub>2</sub> impacts for large multi plume sources. The OLM may not be conservative for single plumes downwind, where low concentrations of O<sub>3</sub> can still react with the plume. The OLM is expected to be conservative during daylight hours when the photochemical equilibrium reverses the oxidation of NO by O<sub>3</sub>. It is also expected to be conservative during stable and night conditions when both NO<sub>2</sub> and O<sub>3</sub> are removed by reaction with vegetation and other surfaces.



# APPENDIX

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## Air Quality Technical Report

### **Appendix F** Detailed Dispersion Model Results

INLAND RAIL—BORDER TO GOWRIE ENVIRONMENTAL IMPACT STATEMENT



# Appendix F

## Detailed Dispersion Model Results

Table F1 Maximum predicted cumulative discrete sensitive receptor results (including all non-Project sources)

| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R1                       | 260960                         | 6832058                        | 64.7                                                                         | 10.4    | 18.2             | 17.3    | 8.4               | 6.7     |
| R2                       | 263923                         | 6832089                        | 64.9                                                                         | 10.6    | 18.3             | 17.3    | 8.5               | 6.7     |
| R3                       | 260998                         | 6832247                        | 64.6                                                                         | 11.4    | 18.3             | 17.4    | 8.4               | 6.8     |
| R4                       | 261047                         | 6832263                        | 64.4                                                                         | 11.0    | 18.2             | 17.4    | 8.4               | 6.7     |
| R5                       | 261158                         | 6832301                        | 64.1                                                                         | 10.5    | 18.1             | 17.3    | 8.3               | 6.7     |
| R6                       | 260732                         | 6832308                        | 64.0                                                                         | 10.4    | 18.1             | 17.3    | 8.3               | 6.7     |
| R7                       | 260940                         | 6832330                        | 63.9                                                                         | 10.2    | 18.1             | 17.3    | 8.3               | 6.7     |
| R8                       | 262986                         | 6832585                        | 57.8                                                                         | 9.2     | 17.9             | 17.2    | 8.1               | 6.6     |
| R9                       | 269878                         | 6833780                        | 81.4                                                                         | 12.7    | 19.7             | 17.4    | 9.8               | 6.8     |
| R10                      | 269668                         | 6834085                        | 97.6                                                                         | 11.4    | 18.8             | 17.3    | 9.0               | 6.7     |
| R11                      | 273885                         | 6835360                        | 115.8                                                                        | 11.8    | 19.1             | 17.4    | 9.3               | 6.8     |
| R12                      | 280255                         | 6836494                        | 59.9                                                                         | 7.5     | 18.0             | 17.1    | 8.2               | 6.5     |
| R13                      | 280423                         | 6836678                        | 57.5                                                                         | 7.5     | 18.0             | 17.1    | 8.2               | 6.5     |
| R14                      | 280032                         | 6836690                        | 58.9                                                                         | 7.6     | 18.1             | 17.1    | 8.3               | 6.5     |
| R15                      | 280080                         | 6836704                        | 58.6                                                                         | 7.5     | 18.1             | 17.1    | 8.3               | 6.5     |
| R16                      | 280468                         | 6836706                        | 57.1                                                                         | 7.5     | 18.0             | 17.1    | 8.2               | 6.5     |
| R17                      | 280111                         | 6836717                        | 58.4                                                                         | 7.5     | 18.1             | 17.1    | 8.3               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R18                      | 280500                         | 6836722                        | 56.9                                                                         | 7.5     | 18.0             | 17.1    | 8.2               | 6.5     |
| R19                      | 280571                         | 6836723                        | 56.7                                                                         | 7.4     | 18.0             | 17.1    | 8.2               | 6.5     |
| R20                      | 280025                         | 6836736                        | 59.3                                                                         | 7.6     | 18.1             | 17.1    | 8.3               | 6.5     |
| R21                      | 280059                         | 6836745                        | 59.1                                                                         | 7.6     | 18.1             | 17.1    | 8.3               | 6.5     |
| R22                      | 280082                         | 6836752                        | 58.9                                                                         | 7.5     | 18.1             | 17.1    | 8.3               | 6.5     |
| R23                      | 280120                         | 6836767                        | 58.6                                                                         | 7.5     | 18.1             | 17.1    | 8.3               | 6.5     |
| R24                      | 278069                         | 6836787                        | 71.5                                                                         | 11.7    | 18.6             | 17.4    | 8.8               | 6.8     |
| R25                      | 279981                         | 6836800                        | 59.5                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R26                      | 280030                         | 6836818                        | 59.7                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R27                      | 280052                         | 6836825                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R28                      | 280072                         | 6836834                        | 59.9                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R29                      | 280239                         | 6836856                        | 59.9                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R30                      | 280294                         | 6836863                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R31                      | 280174                         | 6836864                        | 60.2                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R32                      | 280319                         | 6836869                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R33                      | 280207                         | 6836874                        | 60.2                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R34                      | 280233                         | 6836883                        | 60.3                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R35                      | 280403                         | 6836889                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R36                      | 280071                         | 6836891                        | 60.9                                                                         | 8.5     | 17.9             | 17.2    | 8.0               | 6.6     |
| R37                      | 280257                         | 6836891                        | 60.3                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R38                      | 280426                         | 6836896                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R39                      | 280450                         | 6836903                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R40                      | 280308                         | 6836908                        | 60.4                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R41                      | 280475                         | 6836913                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R42                      | 280064                         | 6836917                        | 61.3                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R43                      | 280161                         | 6836918                        | 61.0                                                                         | 8.5     | 17.9             | 17.2    | 8.0               | 6.6     |
| R44                      | 280503                         | 6836919                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R45                      | 280364                         | 6836931                        | 60.4                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R46                      | 280109                         | 6836933                        | 61.4                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R47                      | 280376                         | 6836934                        | 60.4                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R48                      | 280052                         | 6836935                        | 61.6                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R49                      | 280176                         | 6836936                        | 61.3                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R50                      | 280194                         | 6836936                        | 61.2                                                                         | 8.5     | 17.9             | 17.2    | 8.1               | 6.6     |
| R51                      | 280544                         | 6836938                        | 59.8                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R52                      | 280008                         | 6836944                        | 61.9                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R53                      | 280412                         | 6836945                        | 60.4                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R54                      | 280517                         | 6836945                        | 60.0                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R55                      | 280430                         | 6836953                        | 60.4                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R56                      | 280050                         | 6836957                        | 61.9                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R57                      | 280464                         | 6836960                        | 60.3                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |
| R58                      | 280266                         | 6836965                        | 61.3                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R59                      | 280483                         | 6836967                        | 60.3                                                                         | 8.4     | 17.8             | 17.2    | 8.0               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R60                      | 280504                         | 6836977                        | 60.4                                                                         | 8.5     | 17.8             | 17.2    | 8.0               | 6.6     |
| R61                      | 280338                         | 6836982                        | 61.2                                                                         | 8.5     | 17.9             | 17.2    | 8.0               | 6.6     |
| R62                      | 280530                         | 6836982                        | 60.3                                                                         | 8.5     | 17.8             | 17.2    | 8.0               | 6.6     |
| R63                      | 280110                         | 6836987                        | 62.2                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R64                      | 280134                         | 6836989                        | 62.1                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R65                      | 280275                         | 6836993                        | 61.6                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R66                      | 280232                         | 6836995                        | 61.8                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R67                      | 280154                         | 6836997                        | 62.1                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R68                      | 280397                         | 6836999                        | 61.1                                                                         | 8.5     | 17.8             | 17.2    | 8.0               | 6.6     |
| R69                      | 280192                         | 6837004                        | 62.1                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R70                      | 280280                         | 6837012                        | 61.8                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R71                      | 280221                         | 6837021                        | 62.2                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R72                      | 280262                         | 6837028                        | 62.1                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R73                      | 280089                         | 6837037                        | 62.9                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R74                      | 280116                         | 6837043                        | 62.9                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R75                      | 280340                         | 6837044                        | 61.8                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R76                      | 280163                         | 6837053                        | 62.8                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R77                      | 280136                         | 6837055                        | 63.0                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R78                      | 280559                         | 6837057                        | 60.9                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R79                      | 280579                         | 6837061                        | 60.9                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R80                      | 280174                         | 6837063                        | 63.0                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R81                      | 279966                         | 6837064                        | 63.5                                                                         | 9.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R82                      | 280598                         | 6837069                        | 60.9                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R83                      | 280370                         | 6837071                        | 61.9                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R84                      | 280618                         | 6837077                        | 60.9                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R85                      | 280251                         | 6837085                        | 62.7                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R86                      | 280412                         | 6837085                        | 61.8                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R87                      | 280428                         | 6837086                        | 61.8                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R88                      | 280652                         | 6837088                        | 61.0                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R89                      | 280630                         | 6837090                        | 61.0                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R90                      | 280184                         | 6837092                        | 63.3                                                                         | 9.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R91                      | 280673                         | 6837096                        | 61.3                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R92                      | 280058                         | 6837100                        | 63.6                                                                         | 9.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R93                      | 280485                         | 6837106                        | 61.7                                                                         | 8.7     | 17.9             | 17.2    | 8.1               | 6.6     |
| R94                      | 280714                         | 6837110                        | 61.7                                                                         | 8.6     | 17.8             | 17.2    | 8.0               | 6.6     |
| R95                      | 280103                         | 6837112                        | 63.5                                                                         | 9.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R96                      | 280235                         | 6837113                        | 63.2                                                                         | 9.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R97                      | 280128                         | 6837125                        | 63.6                                                                         | 9.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R98                      | 280536                         | 6837126                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R99                      | 280550                         | 6837130                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R100                     | 280169                         | 6837133                        | 63.5                                                                         | 9.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R101                     | 280313                         | 6837134                        | 62.9                                                                         | 9.0     | 18.0             | 17.2    | 8.2               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R102                     | 280569                         | 6837139                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R103                     | 280593                         | 6837143                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R104                     | 280204                         | 6837149                        | 63.5                                                                         | 9.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R105                     | 280611                         | 6837151                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R106                     | 280033                         | 6837153                        | 63.9                                                                         | 9.7     | 18.2             | 17.3    | 8.4               | 6.7     |
| R107                     | 280057                         | 6837155                        | 63.9                                                                         | 9.7     | 18.2             | 17.3    | 8.4               | 6.7     |
| R108                     | 280229                         | 6837158                        | 63.5                                                                         | 9.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R109                     | 280632                         | 6837159                        | 61.6                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R110                     | 280469                         | 6837161                        | 62.3                                                                         | 8.9     | 17.9             | 17.2    | 8.1               | 6.6     |
| R111                     | 280069                         | 6837170                        | 64.0                                                                         | 9.7     | 18.2             | 17.3    | 8.4               | 6.7     |
| R112                     | 280671                         | 6837171                        | 61.7                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R113                     | 280094                         | 6837175                        | 63.9                                                                         | 9.7     | 18.2             | 17.3    | 8.4               | 6.7     |
| R114                     | 280119                         | 6837180                        | 63.9                                                                         | 9.6     | 18.2             | 17.3    | 8.4               | 6.7     |
| R115                     | 280170                         | 6837196                        | 64.0                                                                         | 9.6     | 18.2             | 17.3    | 8.3               | 6.7     |
| R116                     | 280019                         | 6837207                        | 64.4                                                                         | 10.4    | 18.3             | 17.3    | 8.5               | 6.7     |
| R117                     | 280204                         | 6837214                        | 64.0                                                                         | 9.6     | 18.2             | 17.3    | 8.3               | 6.7     |
| R118                     | 280032                         | 6837239                        | 64.7                                                                         | 10.9    | 18.4             | 17.3    | 8.6               | 6.7     |
| R119                     | 280049                         | 6837242                        | 64.7                                                                         | 10.8    | 18.4             | 17.3    | 8.6               | 6.7     |
| R120                     | 280334                         | 6837249                        | 64.0                                                                         | 9.5     | 18.1             | 17.3    | 8.3               | 6.7     |
| R121                     | 280066                         | 6837253                        | 64.7                                                                         | 11.0    | 18.4             | 17.4    | 8.6               | 6.7     |
| R122                     | 280111                         | 6837253                        | 64.6                                                                         | 10.6    | 18.4             | 17.3    | 8.5               | 6.7     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R123                     | 280083                         | 6837257                        | 64.7                                                                         | 10.9    | 18.4             | 17.3    | 8.6               | 6.7     |
| R124                     | 280346                         | 6837269                        | 64.1                                                                         | 9.7     | 18.2             | 17.3    | 8.3               | 6.7     |
| R125                     | 280428                         | 6837283                        | 64.0                                                                         | 9.6     | 18.1             | 17.3    | 8.3               | 6.7     |
| R126                     | 280380                         | 6837286                        | 64.2                                                                         | 9.7     | 18.2             | 17.3    | 8.3               | 6.7     |
| R127                     | 280157                         | 6837293                        | 64.9                                                                         | 11.2    | 18.5             | 17.4    | 8.6               | 6.8     |
| R128                     | 280235                         | 6837307                        | 64.7                                                                         | 10.7    | 18.4             | 17.3    | 8.5               | 6.7     |
| R129                     | 280493                         | 6837310                        | 64.1                                                                         | 9.6     | 18.1             | 17.3    | 8.3               | 6.7     |
| R130                     | 280165                         | 6837319                        | 65.2                                                                         | 12.2    | 18.6             | 17.4    | 8.8               | 6.8     |
| R131                     | 280263                         | 6837319                        | 64.8                                                                         | 10.8    | 18.4             | 17.3    | 8.5               | 6.7     |
| R132                     | 280287                         | 6837326                        | 64.8                                                                         | 10.7    | 18.4             | 17.3    | 8.5               | 6.7     |
| R133                     | 280184                         | 6837328                        | 65.3                                                                         | 12.3    | 18.7             | 17.4    | 8.8               | 6.8     |
| R134                     | 280311                         | 6837328                        | 64.7                                                                         | 10.6    | 18.3             | 17.3    | 8.5               | 6.7     |
| R135                     | 280567                         | 6837332                        | 64.1                                                                         | 9.7     | 18.1             | 17.3    | 8.3               | 6.7     |
| R136                     | 280339                         | 6837343                        | 64.8                                                                         | 10.7    | 18.4             | 17.3    | 8.5               | 6.7     |
| R137                     | 280606                         | 6837350                        | 64.1                                                                         | 9.7     | 18.1             | 17.3    | 8.3               | 6.7     |
| R138                     | 280364                         | 6837355                        | 64.8                                                                         | 10.8    | 18.4             | 17.3    | 8.5               | 6.7     |
| R139                     | 280597                         | 6837360                        | 64.2                                                                         | 9.8     | 18.2             | 17.3    | 8.3               | 6.7     |
| R140                     | 280398                         | 6837367                        | 64.9                                                                         | 10.8    | 18.4             | 17.3    | 8.5               | 6.7     |
| R141                     | 280524                         | 6837384                        | 64.6                                                                         | 10.3    | 18.3             | 17.3    | 8.4               | 6.7     |
| R142                     | 280147                         | 6837387                        | 67.9                                                                         | 14.3    | 18.8             | 17.6    | 8.9               | 7.0     |
| R143                     | 280117                         | 6837420                        | 64.2                                                                         | 12.2    | 18.4             | 17.4    | 8.6               | 6.8     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R144                     | 280270                         | 6837429                        | 67.8                                                                         | 14.2    | 18.8             | 17.6    | 8.9               | 6.9     |
| R145                     | 280399                         | 6837548                        | 65.4                                                                         | 11.2    | 18.3             | 17.4    | 8.4               | 6.8     |
| R146                     | 280557                         | 6837595                        | 65.4                                                                         | 11.4    | 18.3             | 17.4    | 8.5               | 6.8     |
| R147                     | 287113                         | 6840583                        | 52.7                                                                         | 8.3     | 17.7             | 17.2    | 7.9               | 6.6     |
| R148                     | 288247                         | 6840785                        | 56.8                                                                         | 10.1    | 18.2             | 17.3    | 8.4               | 6.7     |
| R149                     | 297559                         | 6846247                        | 57.5                                                                         | 9.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R150                     | 297632                         | 6846315                        | 57.8                                                                         | 8.8     | 18.0             | 17.2    | 8.2               | 6.6     |
| R151                     | 301778                         | 6851842                        | 81.9                                                                         | 8.6     | 18.2             | 17.2    | 8.4               | 6.6     |
| R152                     | 300947                         | 6851894                        | 112.2                                                                        | 10.1    | 18.8             | 17.3    | 8.9               | 6.7     |
| R153                     | 301047                         | 6851922                        | 109.7                                                                        | 9.9     | 18.6             | 17.3    | 8.8               | 6.6     |
| R154                     | 301884                         | 6853271                        | 87.2                                                                         | 10.7    | 18.5             | 17.3    | 8.6               | 6.7     |
| R155                     | 305844                         | 6855590                        | 56.5                                                                         | 8.6     | 17.8             | 17.2    | 7.9               | 6.6     |
| R156                     | 305171                         | 6856991                        | 57.5                                                                         | 8.1     | 17.7             | 17.2    | 7.9               | 6.6     |
| R157                     | 307344                         | 6857321                        | 53.9                                                                         | 8.9     | 17.8             | 17.2    | 8.0               | 6.6     |
| R158                     | 311870                         | 6859776                        | 52.7                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R159                     | 318343                         | 6861468                        | 55.8                                                                         | 8.3     | 17.7             | 17.2    | 7.9               | 6.6     |
| R160                     | 318767                         | 6865678                        | 52.7                                                                         | 8.8     | 18.1             | 17.2    | 8.3               | 6.6     |
| R161                     | 322239                         | 6883471                        | 63.3                                                                         | 8.7     | 18.0             | 17.2    | 8.1               | 6.6     |
| R162                     | 321732                         | 6883948                        | 52.9                                                                         | 9.5     | 18.0             | 17.3    | 8.2               | 6.7     |
| R163                     | 322205                         | 6885050                        | 62.0                                                                         | 9.1     | 18.1             | 17.2    | 8.2               | 6.6     |
| R164                     | 321882                         | 6886744                        | 54.3                                                                         | 9.5     | 18.0             | 17.3    | 8.2               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R165                     | 322751                         | 6887586                        | 62.6                                                                         | 8.1     | 17.9             | 17.2    | 8.1               | 6.6     |
| R166                     | 322732                         | 6887596                        | 63.0                                                                         | 8.1     | 17.9             | 17.2    | 8.1               | 6.6     |
| R167                     | 321762                         | 6888111                        | 52.7                                                                         | 8.4     | 18.2             | 17.2    | 8.0               | 6.6     |
| R168                     | 322515                         | 6890076                        | 52.7                                                                         | 9.1     | 18.5             | 17.3    | 8.2               | 6.6     |
| R169                     | 322639                         | 6891707                        | 52.7                                                                         | 8.0     | 18.6             | 17.2    | 7.9               | 6.6     |
| R170                     | 322759                         | 6891743                        | 52.7                                                                         | 8.1     | 18.6             | 17.2    | 7.9               | 6.6     |
| R171                     | 323292                         | 6893448                        | 52.7                                                                         | 8.3     | 18.7             | 17.2    | 7.9               | 6.6     |
| R172                     | 324590                         | 6894100                        | 60.3                                                                         | 8.0     | 18.8             | 17.2    | 7.9               | 6.5     |
| R173                     | 324384                         | 6894507                        | 63.7                                                                         | 8.3     | 18.9             | 17.2    | 8.1               | 6.6     |
| R174                     | 323560                         | 6897953                        | 77.9                                                                         | 8.0     | 19.2             | 17.3    | 7.8               | 6.5     |
| R175                     | 324208                         | 6899746                        | 75.2                                                                         | 8.8     | 19.6             | 17.4    | 8.0               | 6.6     |
| R176                     | 323978                         | 6901014                        | 68.6                                                                         | 8.5     | 20.0             | 17.4    | 7.9               | 6.6     |
| R177                     | 323900                         | 6901376                        | 66.4                                                                         | 8.4     | 20.0             | 17.4    | 7.8               | 6.6     |
| R178                     | 325311                         | 6902651                        | 77.6                                                                         | 9.1     | 21.3             | 17.7    | 8.0               | 6.6     |
| R179                     | 324516                         | 6903134                        | 68.4                                                                         | 9.1     | 22.1             | 17.7    | 8.0               | 6.6     |
| R180                     | 325479                         | 6905037                        | 79.5                                                                         | 10.0    | 26.4             | 18.5    | 8.4               | 6.7     |
| R181                     | 326341                         | 6908610                        | 84.8                                                                         | 9.0     | 25.1             | 18.8    | 8.4               | 6.7     |
| R182                     | 326972                         | 6909793                        | 75.1                                                                         | 10.1    | 30.2             | 19.6    | 8.9               | 6.9     |
| R183                     | 328286                         | 6910574                        | 67.7                                                                         | 8.3     | 47.0             | 22.1    | 10.1              | 7.0     |
| R184                     | 328286                         | 6910574                        | 67.7                                                                         | 8.3     | 47.0             | 22.1    | 10.1              | 7.0     |
| R185                     | 328286                         | 6910574                        | 67.7                                                                         | 8.3     | 47.0             | 22.1    | 10.1              | 7.0     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R186                     | 329095                         | 6911895                        | 76.6                                                                         | 9.4     | 50.1             | 21.1    | 10.5              | 7.0     |
| R187                     | 331424                         | 6912044                        | 74.8                                                                         | 8.5     | 40.6             | 19.4    | 9.6               | 6.7     |
| R188                     | 329225                         | 6912165                        | 67.0                                                                         | 9.1     | 46.8             | 19.9    | 10.2              | 6.8     |
| R189                     | 332132                         | 6912532                        | 133.5                                                                        | 8.8     | 33.9             | 18.8    | 9.0               | 6.7     |
| R190                     | 331770                         | 6913349                        | 110.7                                                                        | 10.4    | 31.5             | 18.3    | 9.4               | 6.7     |
| R191                     | 335224                         | 6914790                        | 87.0                                                                         | 8.6     | 24.1             | 17.7    | 8.9               | 6.6     |
| R192                     | 335675                         | 6916108                        | 71.1                                                                         | 9.0     | 23.6             | 17.6    | 8.8               | 6.6     |
| R193                     | 337458                         | 6917999                        | 64.8                                                                         | 8.8     | 21.7             | 17.4    | 8.4               | 6.6     |
| R194                     | 339448                         | 6918588                        | 64.4                                                                         | 8.1     | 20.7             | 17.3    | 8.1               | 6.6     |
| R195                     | 338993                         | 6920298                        | 64.7                                                                         | 8.8     | 20.5             | 17.4    | 8.3               | 6.6     |
| R196                     | 340933                         | 6923738                        | 53.8                                                                         | 8.4     | 17.9             | 17.2    | 8.0               | 6.6     |
| R197                     | 341380                         | 6924295                        | 54.4                                                                         | 8.2     | 17.8             | 17.2    | 8.0               | 6.6     |
| R198                     | 341990                         | 6924551                        | 58.0                                                                         | 8.4     | 18.0             | 17.2    | 8.1               | 6.6     |
| R199                     | 342234                         | 6924687                        | 59.2                                                                         | 8.4     | 18.0             | 17.2    | 8.2               | 6.6     |
| R200                     | 343501                         | 6924693                        | 66.7                                                                         | 9.4     | 18.4             | 17.3    | 8.6               | 6.7     |
| R201                     | 343800                         | 6924878                        | 63.4                                                                         | 9.1     | 18.3             | 17.2    | 8.5               | 6.6     |
| R202                     | 343431                         | 6924898                        | 65.2                                                                         | 10.7    | 18.7             | 17.3    | 8.8               | 6.7     |
| R203                     | 344007                         | 6924998                        | 59.1                                                                         | 8.8     | 18.3             | 17.2    | 8.5               | 6.6     |
| R204                     | 343811                         | 6925006                        | 65.0                                                                         | 9.9     | 18.5             | 17.3    | 8.7               | 6.7     |
| R205                     | 343343                         | 6925019                        | 64.3                                                                         | 9.5     | 18.4             | 17.3    | 8.6               | 6.6     |
| R206                     | 343541                         | 6925031                        | 65.0                                                                         | 10.4    | 18.6             | 17.3    | 8.8               | 6.7     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R207                     | 343584                         | 6925050                        | 65.1                                                                         | 10.6    | 18.7             | 17.3    | 8.8               | 6.7     |
| R208                     | 343667                         | 6925091                        | 65.3                                                                         | 10.8    | 18.7             | 17.3    | 8.9               | 6.7     |
| R209                     | 343286                         | 6925610                        | 59.9                                                                         | 8.4     | 18.0             | 17.2    | 8.2               | 6.6     |
| R210                     | 344398                         | 6925839                        | 64.5                                                                         | 9.8     | 18.5             | 17.3    | 8.7               | 6.7     |
| R211                     | 345036                         | 6927031                        | 63.3                                                                         | 8.9     | 18.3             | 17.2    | 8.5               | 6.6     |
| R212                     | 345554                         | 6927454                        | 64.5                                                                         | 9.5     | 18.5             | 17.3    | 8.7               | 6.7     |
| R213                     | 346233                         | 6927933                        | 64.2                                                                         | 9.7     | 18.3             | 17.3    | 8.5               | 6.7     |
| R214                     | 346179                         | 6928125                        | 64.9                                                                         | 9.4     | 18.5             | 17.3    | 8.6               | 6.6     |
| R215                     | 347042                         | 6928237                        | 57.7                                                                         | 8.8     | 18.2             | 17.2    | 8.4               | 6.6     |
| R216                     | 347136                         | 6928273                        | 58.0                                                                         | 8.8     | 18.3             | 17.2    | 8.4               | 6.6     |
| R217                     | 346600                         | 6928369                        | 64.6                                                                         | 9.1     | 18.3             | 17.2    | 8.5               | 6.6     |
| R218                     | 346798                         | 6928381                        | 67.5                                                                         | 9.8     | 18.4             | 17.3    | 8.6               | 6.7     |
| R219                     | 346681                         | 6928434                        | 64.5                                                                         | 9.0     | 18.4             | 17.2    | 8.5               | 6.6     |
| R220                     | 346806                         | 6928469                        | 64.8                                                                         | 9.2     | 18.4             | 17.2    | 8.6               | 6.6     |
| R221                     | 346736                         | 6928494                        | 64.5                                                                         | 8.9     | 18.3             | 17.2    | 8.5               | 6.6     |
| R222                     | 346931                         | 6928530                        | 65.6                                                                         | 9.2     | 18.4             | 17.2    | 8.5               | 6.6     |
| R223                     | 346962                         | 6928534                        | 65.8                                                                         | 9.2     | 18.4             | 17.2    | 8.5               | 6.6     |
| R224                     | 346872                         | 6928539                        | 64.7                                                                         | 9.0     | 18.4             | 17.2    | 8.5               | 6.6     |
| R225                     | 346820                         | 6928547                        | 64.6                                                                         | 8.8     | 18.3             | 17.2    | 8.5               | 6.6     |
| R226                     | 346998                         | 6928553                        | 64.9                                                                         | 9.2     | 18.3             | 17.2    | 8.5               | 6.6     |
| R227                     | 347118                         | 6928576                        | 64.4                                                                         | 9.4     | 18.3             | 17.3    | 8.5               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R228                     | 347056                         | 6928583                        | 64.5                                                                         | 9.2     | 18.3             | 17.2    | 8.5               | 6.6     |
| R229                     | 346932                         | 6928591                        | 64.6                                                                         | 8.9     | 18.3             | 17.2    | 8.5               | 6.6     |
| R230                     | 347111                         | 6928598                        | 64.4                                                                         | 9.2     | 18.3             | 17.2    | 8.5               | 6.6     |
| R231                     | 347176                         | 6928605                        | 64.2                                                                         | 9.4     | 18.3             | 17.3    | 8.4               | 6.6     |
| R232                     | 347214                         | 6928610                        | 64.2                                                                         | 9.5     | 18.3             | 17.3    | 8.4               | 6.7     |
| R233                     | 347238                         | 6928622                        | 64.1                                                                         | 9.5     | 18.2             | 17.3    | 8.4               | 6.7     |
| R234                     | 347264                         | 6928634                        | 64.0                                                                         | 9.5     | 18.2             | 17.3    | 8.4               | 6.7     |
| R235                     | 346999                         | 6928644                        | 64.5                                                                         | 8.8     | 18.3             | 17.2    | 8.4               | 6.6     |
| R236                     | 346952                         | 6928652                        | 64.5                                                                         | 8.7     | 18.3             | 17.2    | 8.4               | 6.6     |
| R237                     | 347302                         | 6928661                        | 63.9                                                                         | 9.4     | 18.2             | 17.3    | 8.4               | 6.6     |
| R238                     | 346921                         | 6928664                        | 64.5                                                                         | 8.6     | 18.2             | 17.2    | 8.4               | 6.6     |
| R239                     | 347061                         | 6928691                        | 64.3                                                                         | 8.7     | 18.2             | 17.2    | 8.4               | 6.6     |
| R240                     | 346719                         | 6928697                        | 64.1                                                                         | 8.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R241                     | 347055                         | 6928709                        | 64.2                                                                         | 8.6     | 18.2             | 17.2    | 8.4               | 6.6     |
| R242                     | 346781                         | 6928723                        | 64.2                                                                         | 8.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R243                     | 346992                         | 6928723                        | 64.3                                                                         | 8.5     | 18.2             | 17.2    | 8.4               | 6.6     |
| R244                     | 346878                         | 6928729                        | 64.3                                                                         | 8.4     | 18.2             | 17.2    | 8.3               | 6.6     |
| R245                     | 346896                         | 6928731                        | 64.3                                                                         | 8.4     | 18.2             | 17.2    | 8.3               | 6.6     |
| R246                     | 347454                         | 6928732                        | 65.1                                                                         | 9.5     | 18.3             | 17.3    | 8.4               | 6.7     |
| R247                     | 346838                         | 6928740                        | 64.2                                                                         | 8.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R248                     | 345562                         | 6928744                        | 54.3                                                                         | 7.8     | 17.8             | 17.2    | 8.0               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R249                     | 347507                         | 6928773                        | 64.3                                                                         | 9.4     | 18.3             | 17.3    | 8.4               | 6.6     |
| R250                     | 347051                         | 6928824                        | 64.0                                                                         | 8.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R251                     | 347137                         | 6928847                        | 63.8                                                                         | 8.4     | 18.1             | 17.2    | 8.3               | 6.6     |
| R252                     | 347142                         | 6928888                        | 63.8                                                                         | 8.3     | 18.1             | 17.2    | 8.2               | 6.6     |
| R253                     | 347168                         | 6928957                        | 63.7                                                                         | 8.2     | 18.0             | 17.2    | 8.2               | 6.6     |
| R254                     | 346531                         | 6928970                        | 62.8                                                                         | 7.9     | 17.9             | 17.2    | 8.1               | 6.6     |
| R255                     | 347298                         | 6929062                        | 63.0                                                                         | 8.1     | 18.0             | 17.2    | 8.1               | 6.6     |
| R256                     | 348055                         | 6929941                        | 58.1                                                                         | 8.0     | 17.8             | 17.2    | 8.0               | 6.6     |
| R257                     | 354805                         | 6931969                        | 56.1                                                                         | 8.1     | 17.8             | 17.2    | 8.0               | 6.6     |
| R258                     | 354544                         | 6932271                        | 55.2                                                                         | 8.1     | 17.8             | 17.2    | 8.0               | 6.6     |
| R259                     | 355638                         | 6932411                        | 54.0                                                                         | 7.7     | 17.7             | 17.1    | 7.8               | 6.5     |
| R260                     | 356686                         | 6932641                        | 55.1                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R261                     | 358371                         | 6932652                        | 55.0                                                                         | 7.4     | 17.5             | 17.1    | 7.7               | 6.5     |
| R262                     | 361945                         | 6932692                        | 53.4                                                                         | 7.3     | 17.5             | 17.1    | 7.7               | 6.5     |
| R263                     | 362254                         | 6932739                        | 53.3                                                                         | 7.3     | 17.5             | 17.1    | 7.7               | 6.5     |
| R264                     | 361694                         | 6932751                        | 53.6                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R265                     | 362002                         | 6932801                        | 53.5                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R266                     | 363135                         | 6932817                        | 55.3                                                                         | 7.4     | 17.5             | 17.1    | 7.7               | 6.5     |
| R267                     | 362721                         | 6932887                        | 53.4                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R268                     | 360544                         | 6932925                        | 54.9                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R269                     | 362578                         | 6932952                        | 53.5                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R270                     | 363960                         | 6932997                        | 53.4                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R271                     | 360487                         | 6932998                        | 55.0                                                                         | 7.7     | 17.7             | 17.1    | 7.8               | 6.5     |
| R272                     | 361019                         | 6933036                        | 55.0                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R273                     | 360821                         | 6933045                        | 55.0                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R274                     | 364015                         | 6933057                        | 53.3                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R275                     | 363944                         | 6933059                        | 53.5                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R276                     | 364061                         | 6933075                        | 53.2                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R277                     | 364120                         | 6933091                        | 53.1                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R278                     | 364047                         | 6933104                        | 53.2                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R279                     | 363927                         | 6933114                        | 53.6                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R280                     | 364001                         | 6933131                        | 53.3                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R281                     | 364041                         | 6933143                        | 53.2                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R282                     | 363984                         | 6933152                        | 53.4                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R283                     | 363974                         | 6933153                        | 53.4                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R284                     | 364010                         | 6933165                        | 53.3                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R285                     | 364034                         | 6933167                        | 53.3                                                                         | 7.3     | 17.6             | 17.1    | 7.8               | 6.5     |
| R286                     | 361470                         | 6933221                        | 56.1                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R287                     | 362203                         | 6933262                        | 54.6                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R288                     | 363707                         | 6933262                        | 54.6                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R289                     | 363603                         | 6933269                        | 55.7                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R290                     | 363798                         | 6933274                        | 54.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R291                     | 363846                         | 6933295                        | 53.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R292                     | 363910                         | 6933313                        | 53.7                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R293                     | 363935                         | 6933315                        | 53.7                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R294                     | 359103                         | 6933349                        | 57.1                                                                         | 8.7     | 18.0             | 17.2    | 8.2               | 6.6     |
| R295                     | 356369                         | 6933378                        | 55.2                                                                         | 8.1     | 17.7             | 17.2    | 7.9               | 6.6     |
| R296                     | 364246                         | 6933434                        | 53.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R297                     | 364432                         | 6933453                        | 53.5                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R298                     | 364478                         | 6933469                        | 53.6                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R299                     | 364514                         | 6933475                        | 53.6                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R300                     | 363975                         | 6933484                        | 53.7                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R301                     | 364551                         | 6933488                        | 53.7                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R302                     | 357305                         | 6933491                        | 56.1                                                                         | 8.3     | 17.9             | 17.2    | 8.1               | 6.6     |
| R303                     | 364587                         | 6933502                        | 53.7                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R304                     | 364441                         | 6933509                        | 53.7                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R305                     | 364791                         | 6933510                        | 54.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R306                     | 364727                         | 6933539                        | 54.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R307                     | 364502                         | 6933547                        | 53.9                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R308                     | 364749                         | 6933548                        | 54.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R309                     | 364446                         | 6933548                        | 53.8                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R310                     | 364767                         | 6933551                        | 54.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R311                     | 364791                         | 6933562                        | 54.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R312                     | 364808                         | 6933563                        | 54.3                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R313                     | 364825                         | 6933574                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R314                     | 364845                         | 6933575                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R315                     | 364885                         | 6933585                        | 54.5                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R316                     | 364864                         | 6933586                        | 54.5                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R317                     | 364515                         | 6933587                        | 54.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R318                     | 364455                         | 6933589                        | 54.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R319                     | 364658                         | 6933589                        | 54.3                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R320                     | 364904                         | 6933592                        | 54.6                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R321                     | 364923                         | 6933598                        | 54.7                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R322                     | 364942                         | 6933604                        | 54.8                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R323                     | 364963                         | 6933606                        | 54.8                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R324                     | 364452                         | 6933607                        | 54.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R325                     | 364982                         | 6933612                        | 54.8                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R326                     | 364515                         | 6933618                        | 54.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R327                     | 365003                         | 6933620                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R328                     | 364670                         | 6933627                        | 54.5                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R329                     | 364850                         | 6933632                        | 54.8                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R330                     | 364869                         | 6933639                        | 54.8                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R331                     | 364511                         | 6933641                        | 54.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R332                     | 364888                         | 6933647                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R333                     | 364747                         | 6933648                        | 54.8                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R334                     | 364555                         | 6933649                        | 54.6                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R335                     | 364676                         | 6933654                        | 54.8                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R336                     | 364906                         | 6933655                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R337                     | 364987                         | 6933657                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R338                     | 364459                         | 6933657                        | 54.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R339                     | 364925                         | 6933662                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R340                     | 365034                         | 6933664                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R341                     | 364790                         | 6933666                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R342                     | 364749                         | 6933673                        | 54.9                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R343                     | 364523                         | 6933673                        | 54.8                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R344                     | 365029                         | 6933683                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R345                     | 364851                         | 6933691                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R346                     | 364973                         | 6933692                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R347                     | 364876                         | 6933694                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R348                     | 364894                         | 6933699                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R349                     | 364467                         | 6933700                        | 54.8                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R350                     | 364761                         | 6933703                        | 54.9                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R351                     | 365027                         | 6933707                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R352                     | 364911                         | 6933707                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R353                     | 364929                         | 6933720                        | 54.9                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R354                     | 364971                         | 6933720                        | 55.0                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R355                     | 365022                         | 6933724                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R356                     | 364964                         | 6933740                        | 55.0                                                                         | 7.4     | 17.7             | 17.1    | 7.9               | 6.5     |
| R357                     | 364760                         | 6933743                        | 54.9                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R358                     | 365008                         | 6933743                        | 55.0                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R359                     | 365084                         | 6933746                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R360                     | 361855                         | 6933747                        | 59.1                                                                         | 9.3     | 18.0             | 17.2    | 8.1               | 6.6     |
| R361                     | 364680                         | 6933752                        | 54.9                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R362                     | 364955                         | 6933758                        | 55.0                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R363                     | 365223                         | 6933758                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R364                     | 365007                         | 6933761                        | 55.0                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |
| R365                     | 365078                         | 6933765                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R366                     | 364766                         | 6933775                        | 55.0                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R367                     | 365072                         | 6933781                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R368                     | 365124                         | 6933781                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R369                     | 365002                         | 6933785                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R370                     | 365275                         | 6933788                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R371                     | 364942                         | 6933791                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R372                     | 365156                         | 6933795                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R373                     | 365185                         | 6933798                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R374                     | 365067                         | 6933804                        | 55.1                                                                         | 7.4     | 17.7             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R375                     | 365290                         | 6933804                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R376                     | 365124                         | 6933806                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R377                     | 361752                         | 6933808                        | 56.2                                                                         | 8.8     | 17.9             | 17.2    | 8.1               | 6.6     |
| R378                     | 365240                         | 6933815                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R379                     | 364769                         | 6933815                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R380                     | 364923                         | 6933816                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R381                     | 365061                         | 6933823                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R382                     | 365291                         | 6933825                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R383                     | 365127                         | 6933826                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R384                     | 364696                         | 6933826                        | 55.1                                                                         | 7.5     | 17.8             | 17.1    | 7.9               | 6.5     |
| R385                     | 365192                         | 6933830                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R386                     | 365343                         | 6933839                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R387                     | 364906                         | 6933840                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R388                     | 365126                         | 6933846                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R389                     | 365294                         | 6933846                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R390                     | 364982                         | 6933850                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R391                     | 364877                         | 6933852                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R392                     | 364843                         | 6933860                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R393                     | 365346                         | 6933861                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R394                     | 365292                         | 6933868                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R395                     | 364781                         | 6933870                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R396                     | 365168                         | 6933872                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R397                     | 365241                         | 6933874                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R398                     | 365034                         | 6933875                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R399                     | 365198                         | 6933876                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R400                     | 365222                         | 6933877                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R401                     | 365441                         | 6933877                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R402                     | 365349                         | 6933878                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R403                     | 365049                         | 6933879                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R404                     | 365149                         | 6933887                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R405                     | 364710                         | 6933888                        | 55.2                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R406                     | 362101                         | 6933890                        | 55.5                                                                         | 8.1     | 17.7             | 17.2    | 7.9               | 6.6     |
| R407                     | 365114                         | 6933893                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R408                     | 365089                         | 6933895                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R409                     | 365351                         | 6933895                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R410                     | 364918                         | 6933897                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R411                     | 365438                         | 6933898                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R412                     | 364958                         | 6933902                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R413                     | 365491                         | 6933908                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R414                     | 365306                         | 6933911                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R415                     | 365354                         | 6933912                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R416                     | 365259                         | 6933916                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R417                     | 365019                         | 6933916                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R418                     | 365239                         | 6933919                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R419                     | 364922                         | 6933923                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R420                     | 365309                         | 6933926                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R421                     | 365357                         | 6933929                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R422                     | 365073                         | 6933930                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R423                     | 365497                         | 6933930                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R424                     | 365198                         | 6933930                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R425                     | 364865                         | 6933932                        | 55.4                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R426                     | 365449                         | 6933934                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R427                     | 365403                         | 6933934                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R428                     | 365427                         | 6933937                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R429                     | 365107                         | 6933944                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R430                     | 365158                         | 6933945                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R431                     | 364925                         | 6933949                        | 55.4                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R432                     | 365080                         | 6933949                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R433                     | 365360                         | 6933949                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R434                     | 365312                         | 6933951                        | 55.3                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R435                     | 365230                         | 6933963                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R436                     | 365218                         | 6933964                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R437                     | 365208                         | 6933966                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R438                     | 365541                         | 6933967                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R439                     | 365199                         | 6933968                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R440                     | 364926                         | 6933968                        | 55.4                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R441                     | 365082                         | 6933969                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R442                     | 365029                         | 6933970                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R443                     | 365576                         | 6933973                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R444                     | 365476                         | 6933976                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R445                     | 364658                         | 6933976                        | 55.5                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R446                     | 364712                         | 6933978                        | 55.5                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R447                     | 365505                         | 6933978                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R448                     | 365259                         | 6933979                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R449                     | 365452                         | 6933981                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R450                     | 365410                         | 6933983                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R451                     | 364928                         | 6933984                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R452                     | 365247                         | 6933985                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R453                     | 365033                         | 6933985                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R454                     | 358407                         | 6933986                        | 59.9                                                                         | 8.0     | 17.8             | 17.2    | 7.9               | 6.6     |
| R455                     | 365232                         | 6933986                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R456                     | 365085                         | 6933989                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R457                     | 365210                         | 6933989                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R458                     | 365367                         | 6933990                        | 55.3                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R459                     | 365432                         | 6933990                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R460                     | 358464                         | 6933994                        | 59.5                                                                         | 7.9     | 17.8             | 17.2    | 7.9               | 6.6     |
| R461                     | 365319                         | 6933997                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R462                     | 364799                         | 6933997                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R463                     | 364547                         | 6934000                        | 55.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R464                     | 364629                         | 6934000                        | 55.6                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R465                     | 365035                         | 6934002                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R466                     | 364927                         | 6934002                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R467                     | 365244                         | 6934006                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R468                     | 365229                         | 6934008                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R469                     | 365214                         | 6934009                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R470                     | 365367                         | 6934010                        | 55.3                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R471                     | 365215                         | 6934011                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R472                     | 365200                         | 6934011                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R473                     | 365199                         | 6934013                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R474                     | 365322                         | 6934017                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R475                     | 365038                         | 6934018                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R476                     | 364511                         | 6934022                        | 55.7                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R477                     | 365278                         | 6934024                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R478                     | 365263                         | 6934025                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R479                     | 364725                         | 6934026                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R480                     | 365249                         | 6934028                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R481                     | 365234                         | 6934029                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R482                     | 365233                         | 6934030                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R483                     | 365218                         | 6934033                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R484                     | 365204                         | 6934033                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R485                     | 364881                         | 6934034                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R486                     | 365040                         | 6934035                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R487                     | 364681                         | 6934035                        | 55.7                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R488                     | 365405                         | 6934036                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R489                     | 364596                         | 6934037                        | 55.8                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R490                     | 365318                         | 6934043                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R491                     | 365678                         | 6934049                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R492                     | 365090                         | 6934050                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R493                     | 365042                         | 6934051                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R494                     | 365693                         | 6934051                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R495                     | 365604                         | 6934055                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R496                     | 365636                         | 6934056                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R497                     | 364936                         | 6934057                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R498                     | 365374                         | 6934059                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R499                     | 364885                         | 6934062                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R500                     | 365536                         | 6934063                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R501                     | 365114                         | 6934066                        | 55.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R502                     | 365045                         | 6934067                        | 55.6                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R503                     | 364652                         | 6934069                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R504                     | 365557                         | 6934070                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R505                     | 365580                         | 6934070                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R506                     | 365322                         | 6934071                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R507                     | 365515                         | 6934074                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R508                     | 365259                         | 6934077                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R509                     | 365495                         | 6934077                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R510                     | 365377                         | 6934079                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R511                     | 365475                         | 6934080                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R512                     | 364888                         | 6934081                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R513                     | 364532                         | 6934082                        | 55.9                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R514                     | 365226                         | 6934082                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R515                     | 365456                         | 6934083                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R516                     | 365047                         | 6934084                        | 55.6                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R517                     | 364821                         | 6934084                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R518                     | 364978                         | 6934085                        | 55.7                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R519                     | 365437                         | 6934087                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R520                     | 365100                         | 6934088                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R521                     | 365204                         | 6934089                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R522                     | 365734                         | 6934089                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R523                     | 363082                         | 6934089                        | 55.2                                                                         | 7.9     | 17.7             | 17.2    | 7.9               | 6.6     |
| R524                     | 365417                         | 6934090                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R525                     | 365163                         | 6934091                        | 55.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R526                     | 357905                         | 6934091                        | 57.8                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R527                     | 365185                         | 6934091                        | 55.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R528                     | 364724                         | 6934094                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R529                     | 365144                         | 6934094                        | 55.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R530                     | 364895                         | 6934097                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R531                     | 365380                         | 6934099                        | 55.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R532                     | 365050                         | 6934100                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R533                     | 365690                         | 6934102                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R534                     | 365102                         | 6934107                        | 55.6                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R535                     | 365664                         | 6934109                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R536                     | 365609                         | 6934110                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R537                     | 365639                         | 6934113                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R538                     | 364616                         | 6934114                        | 56.0                                                                         | 7.9     | 18.0             | 17.2    | 8.1               | 6.5     |
| R539                     | 365545                         | 6934117                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R540                     | 365053                         | 6934117                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R541                     | 365586                         | 6934117                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R542                     | 364900                         | 6934118                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R543                     | 364673                         | 6934120                        | 56.0                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R544                     | 365514                         | 6934123                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R545                     | 364571                         | 6934124                        | 56.1                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R546                     | 364742                         | 6934126                        | 56.0                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R547                     | 365253                         | 6934127                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R548                     | 365484                         | 6934128                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R549                     | 365464                         | 6934131                        | 55.2                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R550                     | 365225                         | 6934131                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R551                     | 362903                         | 6934132                        | 55.1                                                                         | 7.8     | 17.7             | 17.1    | 7.8               | 6.5     |
| R552                     | 365209                         | 6934133                        | 55.4                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R553                     | 365763                         | 6934134                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R554                     | 365190                         | 6934136                        | 55.5                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R555                     | 365438                         | 6934137                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R556                     | 364885                         | 6934138                        | 55.9                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R557                     | 365391                         | 6934141                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R558                     | 364848                         | 6934141                        | 55.9                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R559                     | 365338                         | 6934142                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R560                     | 365816                         | 6934144                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R561                     | 365155                         | 6934145                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R562                     | 364820                         | 6934145                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R563                     | 365057                         | 6934145                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R564                     | 365172                         | 6934146                        | 55.5                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R565                     | 365044                         | 6934148                        | 55.7                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R566                     | 365100                         | 6934152                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R567                     | 365723                         | 6934153                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R568                     | 365760                         | 6934156                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R569                     | 365697                         | 6934163                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R570                     | 365762                         | 6934165                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R571                     | 365343                         | 6934168                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R572                     | 364994                         | 6934168                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R573                     | 364953                         | 6934169                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R574                     | 365400                         | 6934170                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R575                     | 364968                         | 6934172                        | 55.8                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R576                     | 365060                         | 6934176                        | 55.6                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R577                     | 365013                         | 6934177                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R578                     | 365036                         | 6934180                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R579                     | 364931                         | 6934180                        | 55.8                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R580                     | 364906                         | 6934183                        | 55.9                                                                         | 7.7     | 17.9             | 17.1    | 8.1               | 6.5     |
| R581                     | 364877                         | 6934183                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R582                     | 364857                         | 6934184                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R583                     | 365511                         | 6934184                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R584                     | 365490                         | 6934185                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R585                     | 365471                         | 6934193                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R586                     | 364831                         | 6934193                        | 56.0                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R587                     | 365440                         | 6934195                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R588                     | 365773                         | 6934196                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R589                     | 365681                         | 6934198                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R590                     | 365330                         | 6934200                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R591                     | 365401                         | 6934204                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R592                     | 365662                         | 6934205                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R593                     | 365570                         | 6934207                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R594                     | 365618                         | 6934207                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R595                     | 365728                         | 6934208                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R596                     | 365640                         | 6934210                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R597                     | 365771                         | 6934212                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R598                     | 365601                         | 6934218                        | 55.1                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R599                     | 365433                         | 6934228                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R600                     | 365573                         | 6934230                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R601                     | 365348                         | 6934230                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R602                     | 365403                         | 6934231                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R603                     | 365517                         | 6934233                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R604                     | 365069                         | 6934236                        | 55.6                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R605                     | 365737                         | 6934238                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R606                     | 365046                         | 6934239                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R607                     | 365025                         | 6934242                        | 55.7                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R608                     | 365489                         | 6934243                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R609                     | 365776                         | 6934244                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R610                     | 365005                         | 6934245                        | 55.7                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R611                     | 365714                         | 6934247                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R612                     | 365443                         | 6934247                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R613                     | 364984                         | 6934248                        | 55.8                                                                         | 7.7     | 17.9             | 17.1    | 8.1               | 6.5     |
| R614                     | 365690                         | 6934250                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R615                     | 364963                         | 6934251                        | 55.8                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R616                     | 364942                         | 6934254                        | 55.8                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R617                     | 365407                         | 6934255                        | 55.2                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R618                     | 365667                         | 6934256                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R619                     | 365577                         | 6934257                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R620                     | 364921                         | 6934258                        | 55.9                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R621                     | 365260                         | 6934258                        | 55.3                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R622                     | 365352                         | 6934258                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R623                     | 365324                         | 6934258                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R624                     | 365469                         | 6934259                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R625                     | 365305                         | 6934259                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R626                     | 365279                         | 6934262                        | 55.3                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R627                     | 364873                         | 6934263                        | 56.0                                                                         | 7.9     | 18.0             | 17.1    | 8.1               | 6.5     |
| R628                     | 365648                         | 6934263                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R629                     | 364901                         | 6934264                        | 55.9                                                                         | 7.8     | 18.0             | 17.1    | 8.1               | 6.5     |
| R630                     | 365606                         | 6934265                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R631                     | 365627                         | 6934268                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R632                     | 365239                         | 6934270                        | 55.3                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R633                     | 364837                         | 6934272                        | 56.0                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R634                     | 365779                         | 6934275                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R635                     | 365190                         | 6934279                        | 55.4                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R636                     | 365581                         | 6934281                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R637                     | 365532                         | 6934282                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R638                     | 365079                         | 6934290                        | 55.6                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R639                     | 365509                         | 6934290                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R640                     | 365409                         | 6934292                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R641                     | 365487                         | 6934294                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R642                     | 365786                         | 6934294                        | 55.0                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R643                     | 365466                         | 6934297                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R644                     | 365444                         | 6934301                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R645                     | 365052                         | 6934301                        | 55.6                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R646                     | 365014                         | 6934305                        | 55.7                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R647                     | 366015                         | 6934306                        | 54.9                                                                         | 7.4     | 17.5             | 17.1    | 7.7               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R648                     | 365034                         | 6934307                        | 55.6                                                                         | 7.7     | 17.9             | 17.1    | 8.1               | 6.5     |
| R649                     | 365364                         | 6934307                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R650                     | 365339                         | 6934309                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R651                     | 364995                         | 6934309                        | 55.7                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R652                     | 365315                         | 6934313                        | 55.2                                                                         | 7.5     | 17.7             | 17.1    | 7.9               | 6.5     |
| R653                     | 364974                         | 6934316                        | 55.8                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R654                     | 365300                         | 6934317                        | 55.2                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R655                     | 364908                         | 6934318                        | 55.9                                                                         | 7.9     | 18.0             | 17.1    | 8.2               | 6.5     |
| R656                     | 364931                         | 6934319                        | 55.8                                                                         | 7.9     | 18.0             | 17.1    | 8.2               | 6.5     |
| R657                     | 364952                         | 6934320                        | 55.8                                                                         | 7.8     | 18.0             | 17.1    | 8.1               | 6.5     |
| R658                     | 364853                         | 6934321                        | 56.0                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R659                     | 365268                         | 6934322                        | 55.2                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R660                     | 365957                         | 6934325                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R661                     | 364889                         | 6934325                        | 55.9                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R662                     | 365244                         | 6934325                        | 55.3                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R663                     | 365612                         | 6934326                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R664                     | 365595                         | 6934329                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R665                     | 365568                         | 6934329                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R666                     | 365200                         | 6934330                        | 55.3                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R667                     | 365177                         | 6934334                        | 55.3                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R668                     | 365538                         | 6934334                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R669                     | 365781                         | 6934335                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R670                     | 365515                         | 6934337                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R671                     | 365488                         | 6934341                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R672                     | 365155                         | 6934343                        | 55.4                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R673                     | 365131                         | 6934347                        | 55.4                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R674                     | 365082                         | 6934350                        | 55.5                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R675                     | 365372                         | 6934351                        | 55.1                                                                         | 7.5     | 17.7             | 17.1    | 7.8               | 6.5     |
| R676                     | 365425                         | 6934351                        | 55.1                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R677                     | 365459                         | 6934352                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R678                     | 364731                         | 6934353                        | 56.1                                                                         | 8.1     | 18.1             | 17.2    | 8.3               | 6.6     |
| R679                     | 365038                         | 6934354                        | 55.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R680                     | 365699                         | 6934354                        | 54.9                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R681                     | 365067                         | 6934355                        | 55.5                                                                         | 7.7     | 17.9             | 17.1    | 8.1               | 6.5     |
| R682                     | 365720                         | 6934358                        | 54.9                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R683                     | 365010                         | 6934358                        | 55.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R684                     | 365349                         | 6934359                        | 55.1                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R685                     | 365646                         | 6934360                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R686                     | 365301                         | 6934361                        | 55.1                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R687                     | 364988                         | 6934362                        | 55.7                                                                         | 7.8     | 18.0             | 17.1    | 8.1               | 6.5     |
| R688                     | 365325                         | 6934363                        | 55.1                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R689                     | 364964                         | 6934364                        | 55.7                                                                         | 7.9     | 18.0             | 17.1    | 8.2               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R690                     | 365278                         | 6934365                        | 55.2                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R691                     | 365682                         | 6934367                        | 54.9                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R692                     | 365254                         | 6934368                        | 55.2                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R693                     | 364933                         | 6934371                        | 55.8                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R694                     | 365231                         | 6934372                        | 55.2                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R695                     | 365207                         | 6934375                        | 55.2                                                                         | 7.6     | 17.8             | 17.1    | 7.9               | 6.5     |
| R696                     | 365624                         | 6934375                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R697                     | 365429                         | 6934377                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R698                     | 365184                         | 6934379                        | 55.3                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R699                     | 365598                         | 6934380                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R700                     | 364871                         | 6934380                        | 55.9                                                                         | 8.0     | 18.1             | 17.2    | 8.2               | 6.6     |
| R701                     | 365569                         | 6934382                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R702                     | 365160                         | 6934382                        | 55.3                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R703                     | 365137                         | 6934386                        | 55.3                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R704                     | 365549                         | 6934389                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R705                     | 365516                         | 6934389                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R706                     | 365490                         | 6934393                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R707                     | 365067                         | 6934396                        | 55.4                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R708                     | 365466                         | 6934398                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R709                     | 365090                         | 6934399                        | 55.4                                                                         | 7.7     | 17.9             | 17.1    | 8.1               | 6.5     |
| R710                     | 365042                         | 6934400                        | 55.5                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R711                     | 365433                         | 6934404                        | 55.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R712                     | 364967                         | 6934414                        | 55.7                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R713                     | 364918                         | 6934418                        | 55.8                                                                         | 8.0     | 18.1             | 17.2    | 8.2               | 6.6     |
| R714                     | 364948                         | 6934418                        | 55.7                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R715                     | 364868                         | 6934428                        | 55.8                                                                         | 8.1     | 18.1             | 17.2    | 8.3               | 6.6     |
| R716                     | 364894                         | 6934428                        | 55.8                                                                         | 8.0     | 18.1             | 17.2    | 8.3               | 6.6     |
| R717                     | 365142                         | 6934439                        | 55.4                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R718                     | 365116                         | 6934450                        | 55.6                                                                         | 7.7     | 17.9             | 17.1    | 8.0               | 6.5     |
| R719                     | 365091                         | 6934453                        | 55.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R720                     | 365070                         | 6934456                        | 55.7                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R721                     | 365041                         | 6934459                        | 55.7                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R722                     | 365020                         | 6934461                        | 55.7                                                                         | 7.9     | 18.0             | 17.1    | 8.1               | 6.5     |
| R723                     | 364991                         | 6934467                        | 55.7                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.5     |
| R724                     | 364971                         | 6934471                        | 55.9                                                                         | 8.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R725                     | 365100                         | 6934491                        | 56.0                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R726                     | 365075                         | 6934494                        | 56.1                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R727                     | 365051                         | 6934498                        | 56.1                                                                         | 7.9     | 17.9             | 17.1    | 8.1               | 6.5     |
| R728                     | 365026                         | 6934502                        | 56.3                                                                         | 7.9     | 18.0             | 17.2    | 8.1               | 6.5     |
| R729                     | 364892                         | 6934503                        | 56.5                                                                         | 8.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R730                     | 365001                         | 6934505                        | 56.5                                                                         | 7.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R731                     | 364943                         | 6934506                        | 56.6                                                                         | 8.1     | 18.1             | 17.2    | 8.2               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R732                     | 364975                         | 6934509                        | 56.6                                                                         | 8.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R733                     | 365293                         | 6934514                        | 55.3                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R734                     | 364896                         | 6934521                        | 56.7                                                                         | 8.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R735                     | 365099                         | 6934548                        | 56.9                                                                         | 7.8     | 17.9             | 17.1    | 8.0               | 6.5     |
| R736                     | 365075                         | 6934549                        | 57.0                                                                         | 7.9     | 17.9             | 17.1    | 8.1               | 6.5     |
| R737                     | 365012                         | 6934555                        | 57.2                                                                         | 8.0     | 18.0             | 17.2    | 8.1               | 6.6     |
| R738                     | 364912                         | 6934556                        | 57.1                                                                         | 8.2     | 18.1             | 17.2    | 8.2               | 6.6     |
| R739                     | 364924                         | 6934557                        | 57.2                                                                         | 8.2     | 18.1             | 17.2    | 8.2               | 6.6     |
| R740                     | 365031                         | 6934561                        | 57.3                                                                         | 8.0     | 17.9             | 17.2    | 8.1               | 6.6     |
| R741                     | 364941                         | 6934570                        | 57.4                                                                         | 8.2     | 18.0             | 17.2    | 8.2               | 6.6     |
| R742                     | 364962                         | 6934586                        | 57.6                                                                         | 8.1     | 18.0             | 17.2    | 8.2               | 6.6     |
| R743                     | 364982                         | 6934598                        | 57.7                                                                         | 8.1     | 18.0             | 17.2    | 8.1               | 6.6     |
| R744                     | 365005                         | 6934604                        | 57.8                                                                         | 8.1     | 17.9             | 17.2    | 8.1               | 6.6     |
| R745                     | 362953                         | 6934612                        | 54.4                                                                         | 7.5     | 17.5             | 17.1    | 7.7               | 6.5     |
| R746                     | 365864                         | 6934642                        | 54.9                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R747                     | 366230                         | 6934669                        | 54.7                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R748                     | 366319                         | 6934724                        | 54.8                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R749                     | 365681                         | 6934748                        | 58.1                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R750                     | 365361                         | 6934825                        | 60.0                                                                         | 8.1     | 17.9             | 17.2    | 8.0               | 6.6     |
| R751                     | 364075                         | 6934877                        | 59.5                                                                         | 7.9     | 17.9             | 17.2    | 8.1               | 6.6     |
| R752                     | 365527                         | 6934883                        | 60.1                                                                         | 8.0     | 17.8             | 17.2    | 8.0               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R753                     | 368054                         | 6934911                        | 55.9                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R754                     | 364840                         | 6934913                        | 56.7                                                                         | 8.5     | 17.8             | 17.2    | 8.0               | 6.6     |
| R755                     | 365698                         | 6934986                        | 60.1                                                                         | 7.9     | 17.7             | 17.1    | 7.9               | 6.5     |
| R756                     | 365552                         | 6935009                        | 59.5                                                                         | 8.2     | 17.9             | 17.2    | 8.1               | 6.6     |
| R757                     | 363950                         | 6935013                        | 57.8                                                                         | 7.8     | 17.8             | 17.1    | 7.9               | 6.5     |
| R758                     | 368223                         | 6935013                        | 66.0                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R759                     | 365843                         | 6935047                        | 60.1                                                                         | 7.9     | 17.7             | 17.1    | 7.9               | 6.5     |
| R760                     | 364284                         | 6935051                        | 57.5                                                                         | 7.8     | 17.8             | 17.1    | 8.0               | 6.5     |
| R761                     | 368302                         | 6935154                        | 71.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R762                     | 366847                         | 6935267                        | 61.3                                                                         | 8.1     | 18.0             | 17.2    | 8.1               | 6.6     |
| R763                     | 368335                         | 6935292                        | 87.7                                                                         | 8.0     | 18.3             | 17.1    | 8.4               | 6.5     |
| R764                     | 364671                         | 6935297                        | 54.0                                                                         | 7.8     | 17.7             | 17.1    | 7.8               | 6.5     |
| R765                     | 364912                         | 6935349                        | 53.2                                                                         | 7.8     | 17.6             | 17.1    | 7.8               | 6.5     |
| R766                     | 368401                         | 6935365                        | 97.1                                                                         | 8.0     | 18.0             | 17.1    | 8.2               | 6.5     |
| R767                     | 368553                         | 6935374                        | 96.6                                                                         | 7.8     | 17.9             | 17.1    | 8.1               | 6.5     |
| R768                     | 365612                         | 6935437                        | 53.5                                                                         | 8.2     | 17.7             | 17.2    | 7.9               | 6.6     |
| R769                     | 369190                         | 6935444                        | 69.5                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R770                     | 366424                         | 6935515                        | 60.1                                                                         | 8.7     | 17.8             | 17.2    | 8.0               | 6.6     |
| R771                     | 364791                         | 6935519                        | 53.1                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R772                     | 368252                         | 6935523                        | 104.9                                                                        | 8.9     | 19.1             | 17.2    | 9.2               | 6.6     |
| R773                     | 365609                         | 6935568                        | 53.2                                                                         | 7.9     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R774                     | 368804                         | 6935618                        | 97.2                                                                         | 7.9     | 18.0             | 17.1    | 8.1               | 6.5     |
| R775                     | 364679                         | 6935721                        | 53.0                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R776                     | 368438                         | 6935736                        | 122.6                                                                        | 8.7     | 19.0             | 17.2    | 9.1               | 6.6     |
| R777                     | 365431                         | 6935818                        | 52.9                                                                         | 7.6     | 17.5             | 17.1    | 7.7               | 6.5     |
| R778                     | 368534                         | 6935940                        | 124.4                                                                        | 9.0     | 19.2             | 17.2    | 9.3               | 6.6     |
| R779                     | 365285                         | 6935948                        | 52.9                                                                         | 7.5     | 17.5             | 17.1    | 7.7               | 6.5     |
| R780                     | 365254                         | 6936060                        | 52.9                                                                         | 7.5     | 17.5             | 17.1    | 7.7               | 6.5     |
| R781                     | 369952                         | 6936187                        | 94.2                                                                         | 8.0     | 18.1             | 17.1    | 8.3               | 6.5     |
| R782                     | 369210                         | 6936191                        | 89.4                                                                         | 8.5     | 18.3             | 17.2    | 8.5               | 6.6     |
| R783                     | 370056                         | 6936208                        | 97.1                                                                         | 8.0     | 18.1             | 17.1    | 8.3               | 6.5     |
| R784                     | 367138                         | 6936488                        | 79.6                                                                         | 8.2     | 18.0             | 17.2    | 8.2               | 6.5     |
| R785                     | 369750                         | 6936861                        | 157.9                                                                        | 12.9    | 24.9             | 17.4    | 14.7              | 6.7     |
| R786                     | 368531                         | 6936888                        | 121.0                                                                        | 8.9     | 18.7             | 17.2    | 8.8               | 6.6     |
| R787                     | 368789                         | 6936929                        | 101.3                                                                        | 9.3     | 19.0             | 17.2    | 9.1               | 6.6     |
| R788                     | 370630                         | 6937395                        | 144.7                                                                        | 9.0     | 19.8             | 17.2    | 9.9               | 6.6     |
| R789                     | 370341                         | 6937579                        | 129.9                                                                        | 9.5     | 20.3             | 17.2    | 10.4              | 6.6     |
| R790                     | 371104                         | 6937784                        | 136.7                                                                        | 8.6     | 18.9             | 17.2    | 9.0               | 6.6     |
| R791                     | 371320                         | 6937827                        | 133.0                                                                        | 8.2     | 18.5             | 17.2    | 8.7               | 6.6     |
| R792                     | 370493                         | 6937909                        | 105.5                                                                        | 8.8     | 19.7             | 17.2    | 9.8               | 6.6     |
| R793                     | 371631                         | 6937915                        | 132.3                                                                        | 7.9     | 18.5             | 17.1    | 8.7               | 6.5     |
| R794                     | 371884                         | 6938275                        | 69.3                                                                         | 7.9     | 18.0             | 17.1    | 8.1               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R795                     | 371882                         | 6938437                        | 70.0                                                                         | 8.0     | 17.9             | 17.2    | 8.1               | 6.6     |
| R796                     | 370974                         | 6938513                        | 96.8                                                                         | 8.7     | 18.6             | 17.2    | 8.8               | 6.6     |
| R797                     | 370964                         | 6938746                        | 90.9                                                                         | 8.4     | 18.5             | 17.2    | 8.6               | 6.6     |
| R798                     | 370771                         | 6939026                        | 93.7                                                                         | 8.2     | 18.3             | 17.2    | 8.4               | 6.6     |
| R799                     | 373331                         | 6939554                        | 53.4                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R800                     | 372447                         | 6939708                        | 54.3                                                                         | 8.1     | 17.7             | 17.2    | 7.9               | 6.6     |
| R801                     | 373025                         | 6939832                        | 53.7                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R802                     | 371352                         | 6939902                        | 59.4                                                                         | 7.9     | 17.7             | 17.2    | 7.9               | 6.5     |
| R803                     | 372929                         | 6939925                        | 54.0                                                                         | 7.8     | 17.6             | 17.1    | 7.8               | 6.5     |
| R804                     | 374137                         | 6939992                        | 53.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R805                     | 374015                         | 6940044                        | 53.4                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R806                     | 374255                         | 6940123                        | 53.4                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R807                     | 371330                         | 6940149                        | 52.7                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R808                     | 371531                         | 6940269                        | 52.7                                                                         | 7.7     | 17.7             | 17.1    | 7.8               | 6.5     |
| R809                     | 374121                         | 6940340                        | 53.5                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R810                     | 371643                         | 6940341                        | 52.7                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R811                     | 374501                         | 6940347                        | 53.3                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R812                     | 371713                         | 6940443                        | 52.7                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R813                     | 374765                         | 6940525                        | 53.5                                                                         | 7.5     | 17.6             | 17.1    | 7.8               | 6.5     |
| R814                     | 371688                         | 6940533                        | 52.7                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R815                     | 371757                         | 6940627                        | 52.7                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R816                     | 371837                         | 6940734                        | 52.7                                                                         | 7.6     | 17.7             | 17.1    | 7.8               | 6.5     |
| R817                     | 374246                         | 6940882                        | 55.8                                                                         | 8.3     | 17.9             | 17.2    | 8.1               | 6.6     |
| R818                     | 375302                         | 6941028                        | 54.1                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R819                     | 375250                         | 6941491                        | 62.5                                                                         | 8.4     | 17.9             | 17.2    | 8.1               | 6.6     |
| R820                     | 374427                         | 6941672                        | 54.3                                                                         | 8.6     | 18.1             | 17.2    | 8.2               | 6.6     |
| R821                     | 373678                         | 6941729                        | 52.7                                                                         | 7.8     | 17.8             | 17.1    | 8.0               | 6.5     |
| R822                     | 375306                         | 6941783                        | 63.6                                                                         | 9.2     | 18.1             | 17.2    | 8.3               | 6.6     |
| R823                     | 374735                         | 6941946                        | 52.7                                                                         | 8.3     | 17.9             | 17.2    | 8.1               | 6.6     |
| R824                     | 375920                         | 6942032                        | 57.2                                                                         | 8.1     | 17.8             | 17.2    | 8.0               | 6.6     |
| R825                     | 376267                         | 6942042                        | 54.1                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R826                     | 374499                         | 6942053                        | 52.7                                                                         | 8.0     | 17.7             | 17.2    | 7.9               | 6.6     |
| R827                     | 375827                         | 6942124                        | 61.0                                                                         | 8.7     | 18.0             | 17.2    | 8.1               | 6.6     |
| R828                     | 375006                         | 6942282                        | 52.7                                                                         | 8.0     | 17.8             | 17.2    | 8.0               | 6.6     |
| R829                     | 376082                         | 6942399                        | 63.6                                                                         | 9.0     | 18.0             | 17.2    | 8.2               | 6.6     |
| R830                     | 374768                         | 6942621                        | 52.7                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R831                     | 376884                         | 6942845                        | 64.0                                                                         | 8.3     | 18.1             | 17.2    | 8.3               | 6.6     |
| R832                     | 377812                         | 6943231                        | 60.7                                                                         | 7.6     | 17.8             | 17.1    | 8.0               | 6.5     |
| R833                     | 377701                         | 6943373                        | 62.7                                                                         | 7.8     | 17.9             | 17.1    | 8.0               | 6.5     |
| R834                     | 376649                         | 6943447                        | 53.5                                                                         | 8.4     | 18.0             | 17.2    | 8.2               | 6.6     |
| R835                     | 377571                         | 6943483                        | 63.8                                                                         | 8.1     | 18.0             | 17.2    | 8.1               | 6.6     |
| R836                     | 376497                         | 6943673                        | 52.7                                                                         | 7.9     | 17.8             | 17.2    | 7.9               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R837                     | 377588                         | 6943745                        | 64.0                                                                         | 8.3     | 18.0             | 17.2    | 8.2               | 6.6     |
| R838                     | 376260                         | 6943817                        | 52.7                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R839                     | 376633                         | 6944012                        | 52.7                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R840                     | 376350                         | 6944038                        | 52.7                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R841                     | 377884                         | 6944177                        | 59.3                                                                         | 7.9     | 17.8             | 17.2    | 8.0               | 6.6     |
| R842                     | 377541                         | 6944262                        | 63.0                                                                         | 8.7     | 18.0             | 17.2    | 8.2               | 6.6     |
| R843                     | 377656                         | 6944318                        | 59.6                                                                         | 8.3     | 17.9             | 17.2    | 8.1               | 6.6     |
| R844                     | 376519                         | 6944346                        | 52.7                                                                         | 7.7     | 17.6             | 17.1    | 7.8               | 6.5     |
| R845                     | 378176                         | 6944362                        | 56.6                                                                         | 7.6     | 17.7             | 17.1    | 7.9               | 6.5     |
| R846                     | 377982                         | 6944365                        | 57.4                                                                         | 7.7     | 17.8             | 17.1    | 8.0               | 6.5     |
| R847                     | 377153                         | 6944404                        | 60.7                                                                         | 8.9     | 17.9             | 17.2    | 8.1               | 6.6     |
| R848                     | 378006                         | 6944474                        | 56.7                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R849                     | 376801                         | 6944773                        | 55.8                                                                         | 8.1     | 17.8             | 17.2    | 7.9               | 6.6     |
| R850                     | 378453                         | 6945498                        | 58.5                                                                         | 7.8     | 17.7             | 17.1    | 7.9               | 6.5     |
| R851                     | 377567                         | 6945684                        | 52.7                                                                         | 8.6     | 17.9             | 17.2    | 8.1               | 6.6     |
| R852                     | 377388                         | 6945794                        | 52.7                                                                         | 8.2     | 17.7             | 17.2    | 7.9               | 6.6     |
| R853                     | 377407                         | 6945883                        | 52.7                                                                         | 8.2     | 17.7             | 17.2    | 7.9               | 6.6     |
| R854                     | 377703                         | 6945928                        | 55.8                                                                         | 8.9     | 17.9             | 17.2    | 8.1               | 6.6     |
| R855                     | 377514                         | 6946488                        | 52.7                                                                         | 8.2     | 17.7             | 17.2    | 7.9               | 6.6     |
| R856                     | 378836                         | 6948028                        | 56.0                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R857                     | 378996                         | 6948974                        | 59.1                                                                         | 8.0     | 17.8             | 17.2    | 7.9               | 6.6     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R858                     | 377871                         | 6949172                        | 52.7                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R859                     | 377884                         | 6949631                        | 52.7                                                                         | 7.6     | 17.5             | 17.1    | 7.7               | 6.5     |
| R860                     | 378565                         | 6951546                        | 54.7                                                                         | 8.2     | 17.7             | 17.2    | 7.9               | 6.6     |
| R861                     | 377962                         | 6951762                        | 52.7                                                                         | 7.8     | 17.6             | 17.1    | 7.8               | 6.5     |
| R862                     | 377877                         | 6952167                        | 52.7                                                                         | 7.8     | 17.6             | 17.1    | 7.8               | 6.5     |
| R863                     | 378354                         | 6952435                        | 60.4                                                                         | 8.6     | 18.0             | 17.2    | 8.2               | 6.6     |
| R864                     | 378512                         | 6952493                        | 60.4                                                                         | 8.9     | 18.0             | 17.2    | 8.2               | 6.6     |
| R865                     | 379557                         | 6953268                        | 56.1                                                                         | 7.7     | 17.7             | 17.1    | 7.9               | 6.5     |
| R866                     | 379503                         | 6954802                        | 64.0                                                                         | 8.1     | 17.8             | 17.2    | 8.0               | 6.6     |
| R867                     | 380281                         | 6954834                        | 65.1                                                                         | 9.9     | 18.2             | 17.3    | 8.3               | 6.7     |
| R868                     | 381136                         | 6955335                        | 64.4                                                                         | 9.0     | 18.1             | 17.2    | 8.2               | 6.6     |
| R869                     | 380826                         | 6955392                        | 63.5                                                                         | 8.1     | 17.8             | 17.2    | 8.0               | 6.6     |
| R870                     | 379942                         | 6955473                        | 56.8                                                                         | 7.6     | 17.6             | 17.1    | 7.8               | 6.5     |
| R871                     | 381537                         | 6955777                        | 64.3                                                                         | 8.4     | 18.0             | 17.2    | 8.2               | 6.6     |
| R872                     | 383466                         | 6956160                        | 54.3                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R873                     | 382738                         | 6956243                        | 58.2                                                                         | 8.2     | 17.9             | 17.2    | 8.1               | 6.6     |
| R874                     | 383488                         | 6956257                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R875                     | 383596                         | 6956312                        | 53.8                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R876                     | 382876                         | 6956339                        | 56.1                                                                         | 8.1     | 17.9             | 17.2    | 8.0               | 6.6     |
| R877                     | 383669                         | 6956359                        | 53.6                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R878                     | 383493                         | 6956404                        | 54.9                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R879                     | 383733                         | 6956457                        | 53.5                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R880                     | 383552                         | 6956485                        | 54.6                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R881                     | 383802                         | 6956496                        | 53.4                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R882                     | 383602                         | 6956557                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R883                     | 383721                         | 6956616                        | 53.8                                                                         | 7.4     | 17.6             | 17.1    | 7.7               | 6.5     |
| R884                     | 383647                         | 6956644                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R885                     | 384004                         | 6956687                        | 53.3                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R886                     | 383923                         | 6956696                        | 53.4                                                                         | 7.3     | 17.6             | 17.1    | 7.7               | 6.5     |
| R887                     | 383693                         | 6956737                        | 54.4                                                                         | 7.4     | 17.6             | 17.1    | 7.8               | 6.5     |
| R888                     | 381681                         | 6956825                        | 56.9                                                                         | 7.6     | 17.7             | 17.1    | 7.8               | 6.5     |
| R889                     | 381861                         | 6956832                        | 57.6                                                                         | 7.6     | 17.7             | 17.2    | 7.8               | 6.5     |
| R890                     | 381896                         | 6956851                        | 57.7                                                                         | 7.6     | 17.7             | 17.2    | 7.8               | 6.5     |
| R891                     | 383363                         | 6956976                        | 56.6                                                                         | 7.9     | 17.8             | 17.2    | 8.0               | 6.6     |
| R892                     | 382035                         | 6957039                        | 58.0                                                                         | 7.6     | 17.7             | 17.2    | 7.8               | 6.5     |
| R893                     | 382234                         | 6957155                        | 59.1                                                                         | 7.7     | 17.7             | 17.2    | 7.8               | 6.5     |
| R894                     | 382535                         | 6957292                        | 62.5                                                                         | 8.0     | 17.8             | 17.2    | 7.9               | 6.6     |
| R895                     | 385748                         | 6957477                        | 59.0                                                                         | 7.7     | 18.5             | 17.2    | 8.0               | 6.5     |
| R896                     | 382417                         | 6957480                        | 60.7                                                                         | 7.9     | 17.8             | 17.2    | 7.8               | 6.6     |
| R897                     | 384762                         | 6957597                        | 58.2                                                                         | 7.8     | 18.3             | 17.2    | 8.0               | 6.6     |
| R898                     | 384615                         | 6957643                        | 57.0                                                                         | 7.8     | 18.3             | 17.2    | 8.0               | 6.6     |
| R899                     | 386685                         | 6957955                        | 66.6                                                                         | 10.0    | 20.3             | 17.7    | 8.7               | 6.7     |



| Pollutant                |                                |                                | NO <sub>2</sub>                                                              |         | PM <sub>10</sub> |         | PM <sub>2.5</sub> |         |
|--------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------|---------|------------------|---------|-------------------|---------|
| Averaging Time           |                                |                                | 1 hour                                                                       | 1 year  | 24 hour          | 1 year  | 24 hour           | 1 year  |
| Statistic                |                                |                                | Maximum                                                                      | Average | Maximum          | Average | Maximum           | Average |
| Assessment criterion     |                                |                                | 250                                                                          | 62      | 50               | 25      | 25                | 8       |
| Maximum predicted result |                                |                                | 157.9                                                                        | 14.3    | 50.1             | 22.1    | 14.7              | 7.0     |
| Receptor ID              | Coordinate (X, m, GDA Zone 56) | Coordinate (Y, m, GDA Zone 56) | Cumulative Maximum Predicted Ground Level Concentration (µg/m <sup>3</sup> ) |         |                  |         |                   |         |
| R900                     | 386217                         | 6958156                        | 66.2                                                                         | 10.3    | 20.4             | 17.7    | 8.8               | 6.7     |
| R901                     | 385958                         | 6958211                        | 65.6                                                                         | 9.9     | 19.9             | 17.6    | 8.6               | 6.7     |
| R902                     | 384366                         | 6959037                        | 63.8                                                                         | 9.0     | 21.0             | 17.7    | 8.5               | 6.7     |
| R903                     | 386195                         | 6959131                        | 56.8                                                                         | 7.6     | 19.0             | 17.2    | 8.1               | 6.5     |
| R904                     | 386136                         | 6959316                        | 53.5                                                                         | 7.4     | 18.3             | 17.2    | 7.9               | 6.5     |
| R905                     | 251049                         | 6832517                        | 53.5                                                                         | 7.4     | 18.0             | 17.2    | 8.1               | 6.6     |
| R906                     | 251133                         | 6832222                        | 53.5                                                                         | 7.4     | 18.3             | 17.3    | 8.5               | 6.6     |