

# APPENDIX

# O

INLAND  
RAIL

## Noise and Vibration (construction, fixed infrastructure and operational road noise) Technical Report

Part 2 of 2

**HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT**

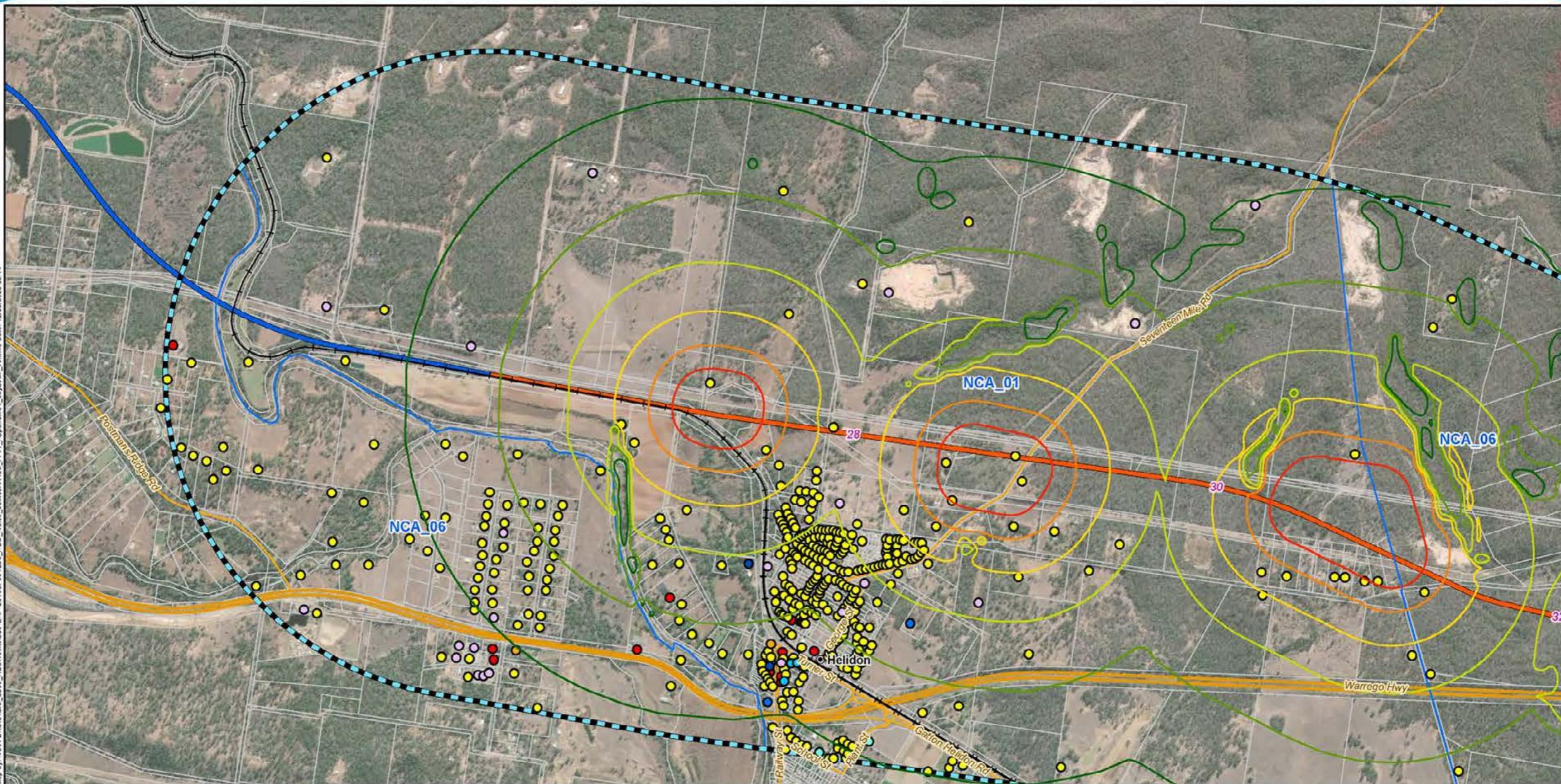
# APPENDIX

# O

## Noise and Vibration Technical Report

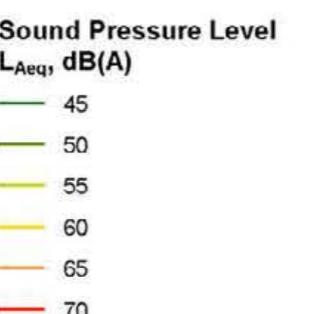
### **Appendix C** Construction Noise Contours

**HELIDON TO CALVERT ENVIRONMENTAL IMPACT STATEMENT**



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



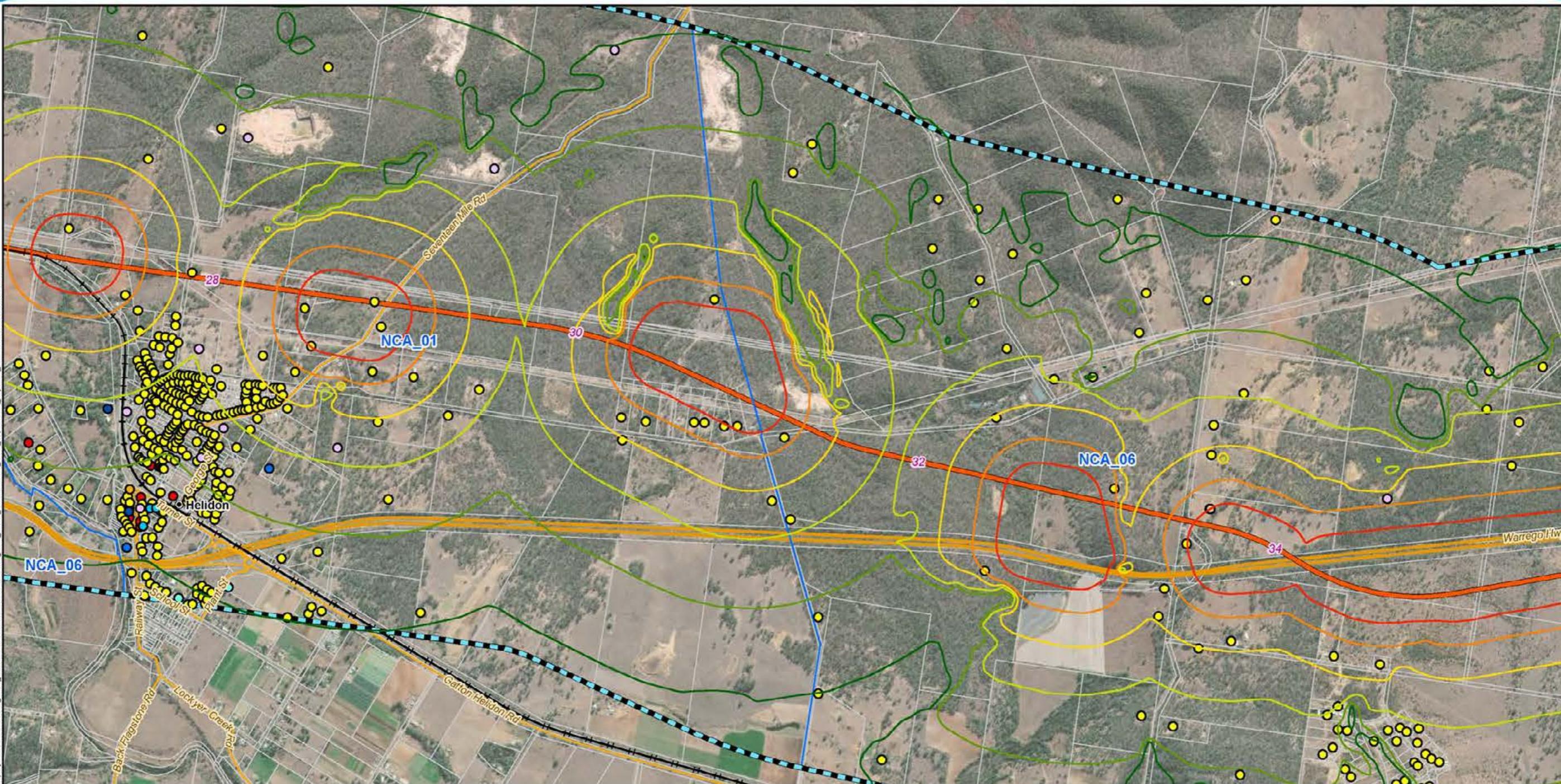
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000  
 0 0.2 0.4 0.6 0.8 1km





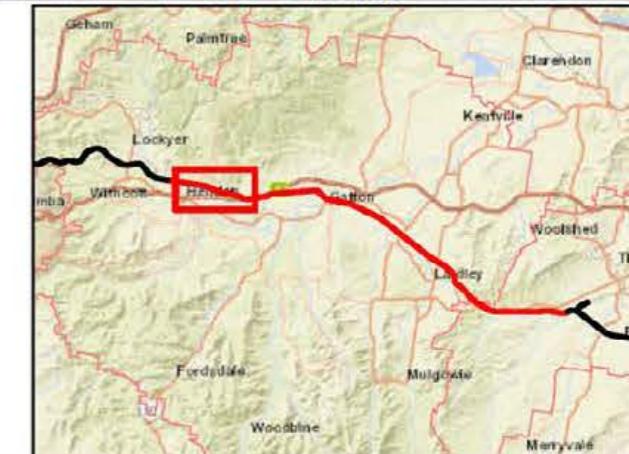
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

#### Sensitive Receptors

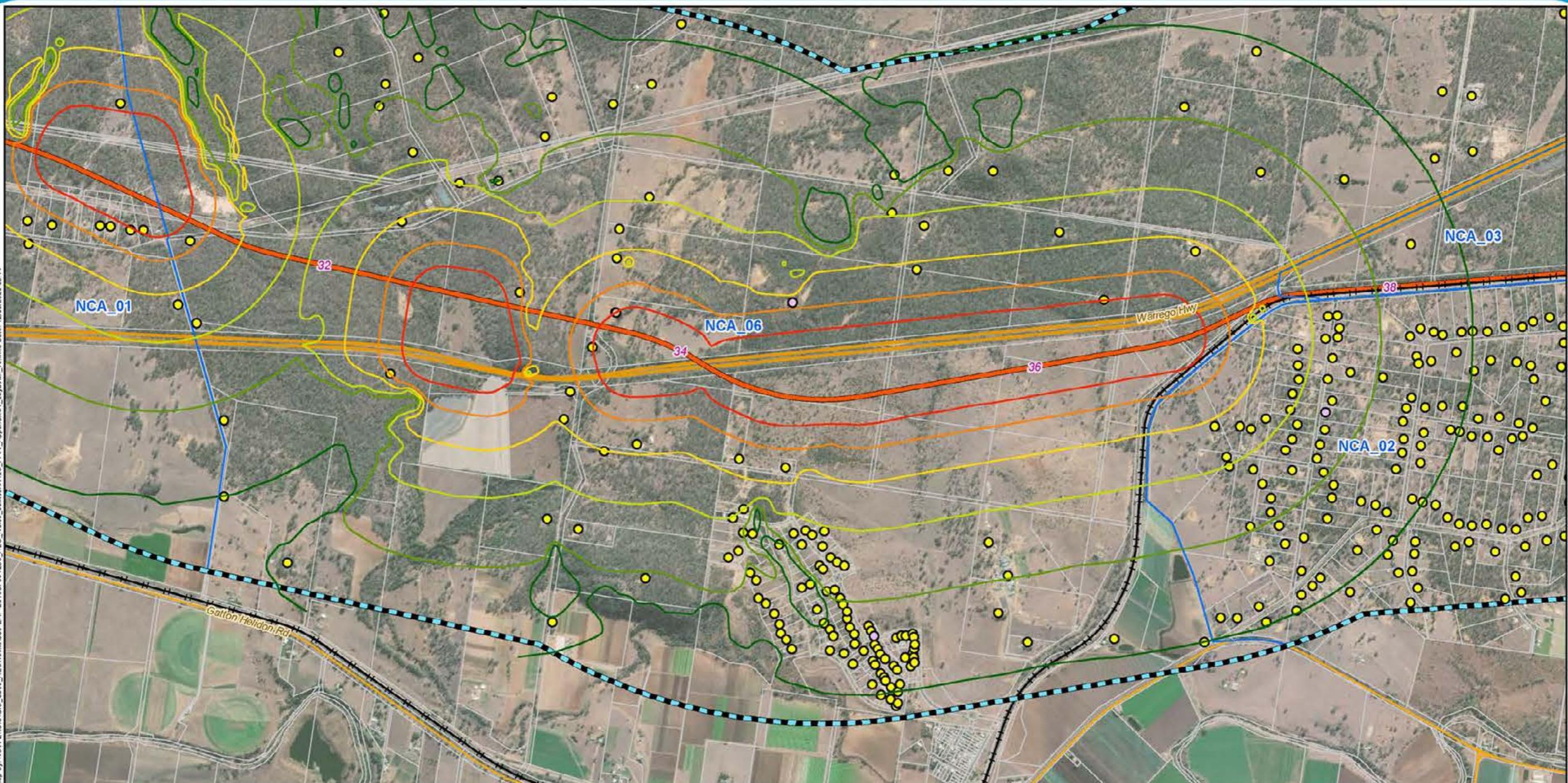
- Commercial
- Industrial
- Education
- Commercial Office
- Heritage
- Residential
- Hotel/Motel
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

#### Sensitive Receptors

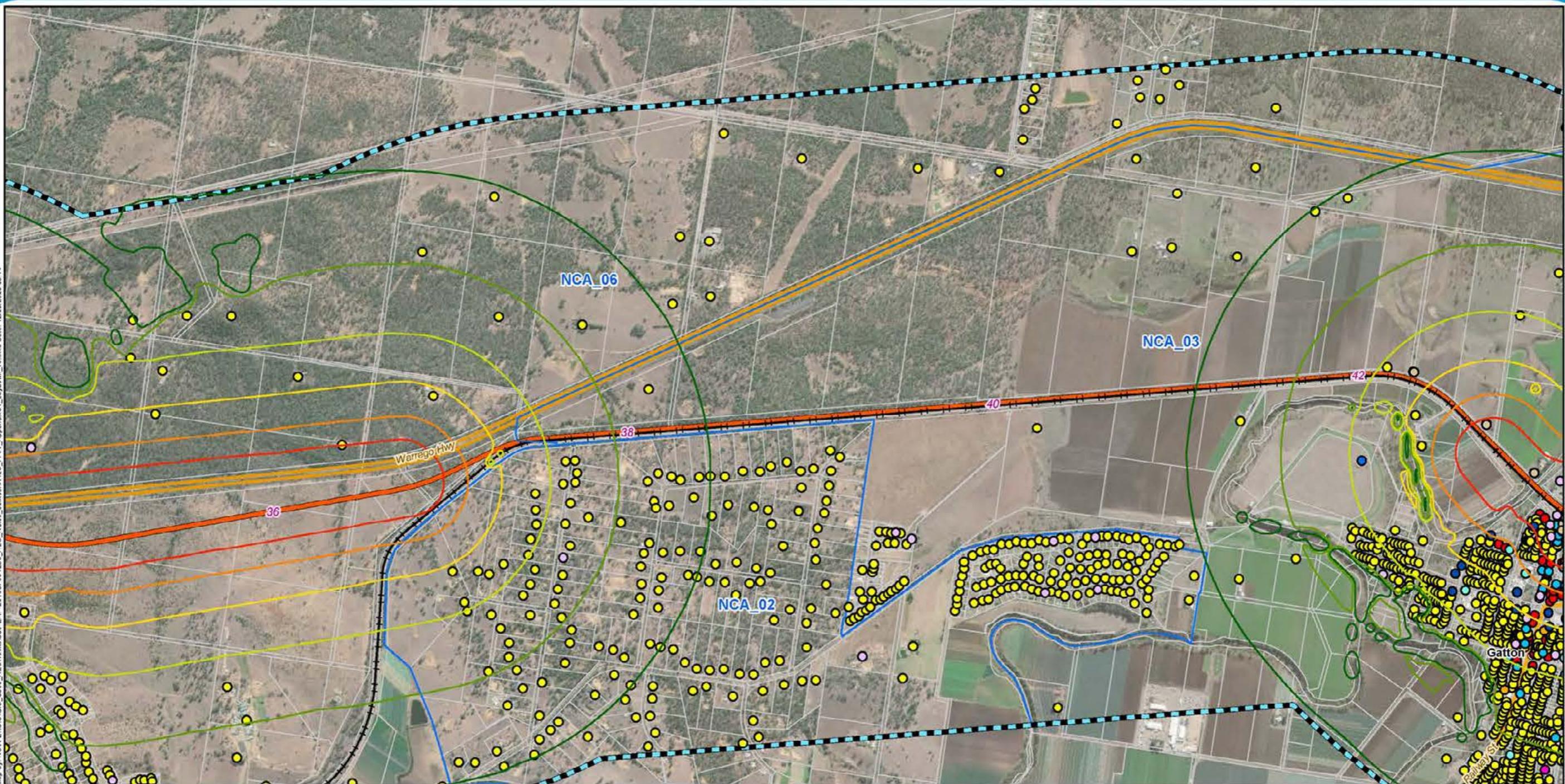
- Heritage
- Industrial
- Residential



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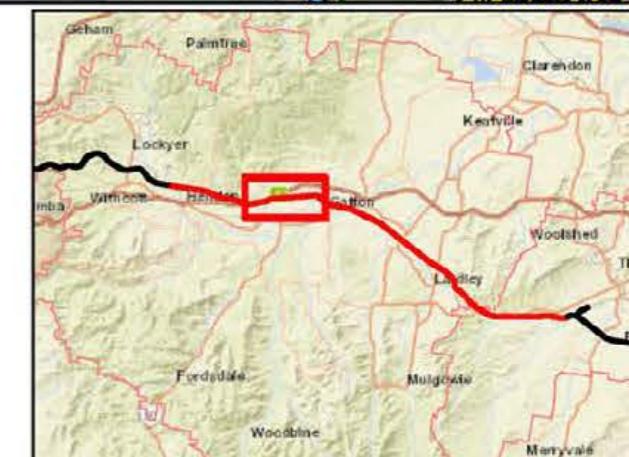
#### Legend

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- Localities
- Existing rail
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- Cadastre
- NCA
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
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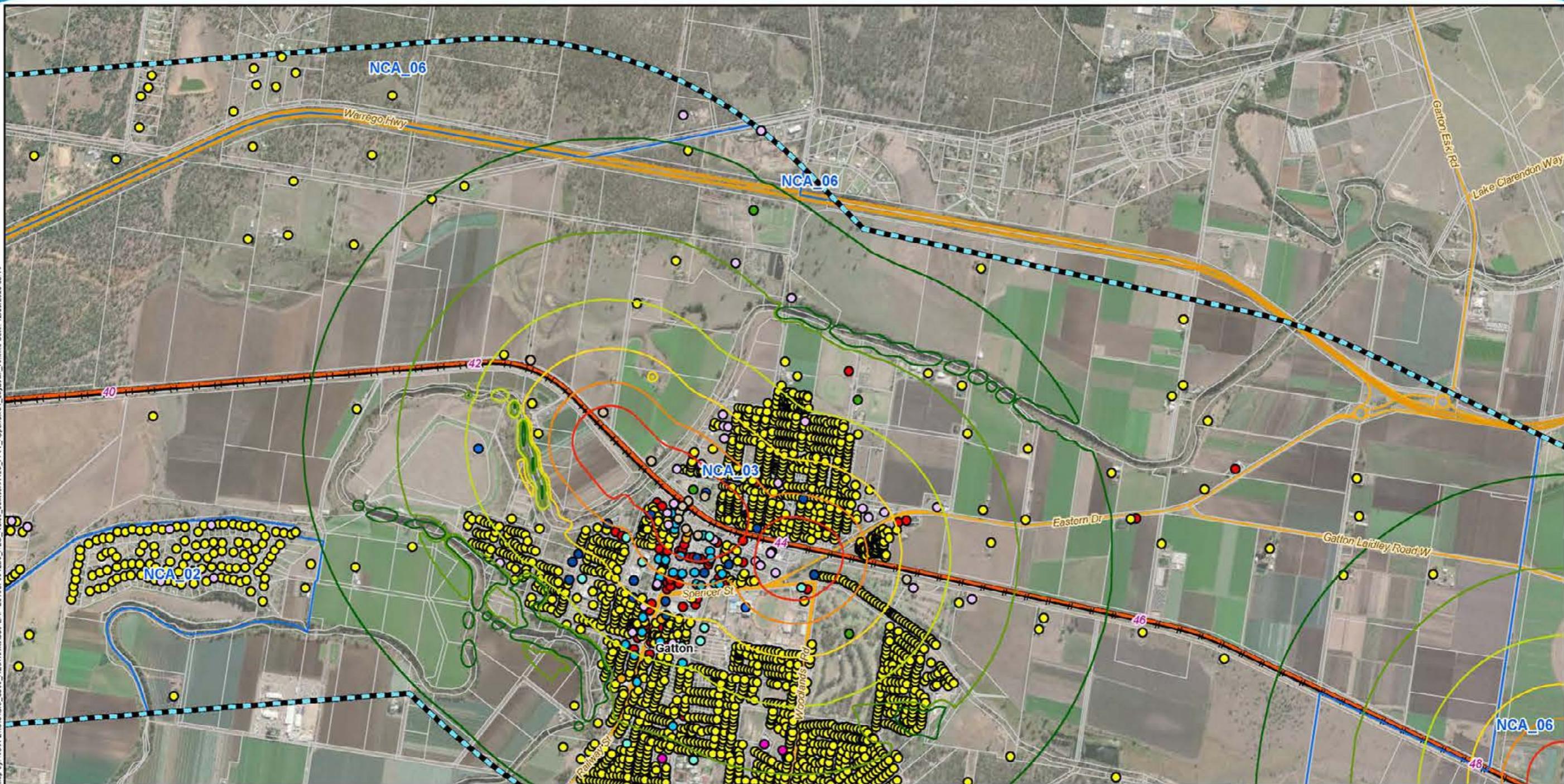
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Medical/Health Facilities
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- Hotel/Motel
- Commercial Office
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



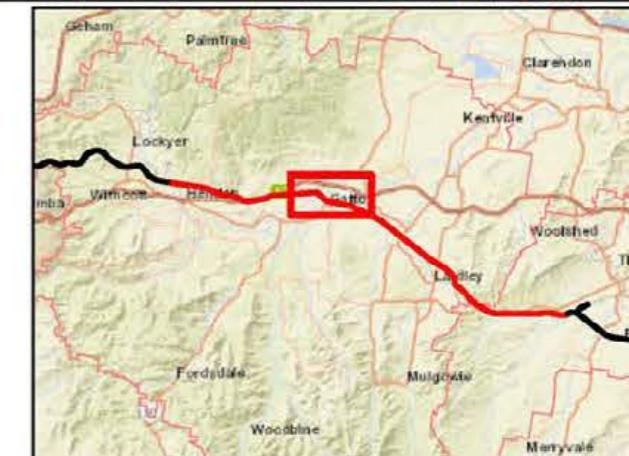
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- Localities
- Existing rail
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
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65	
70	

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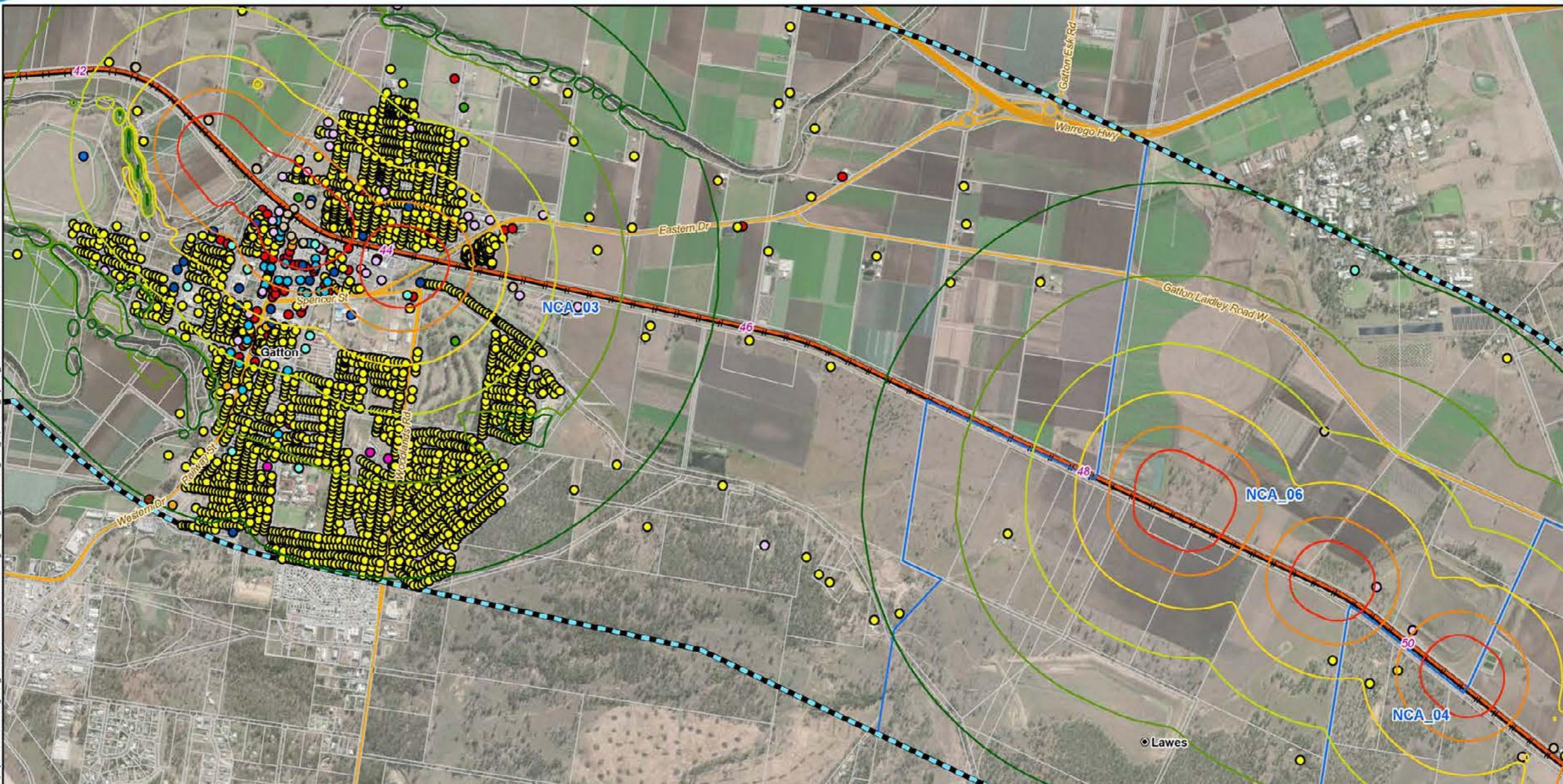
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- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





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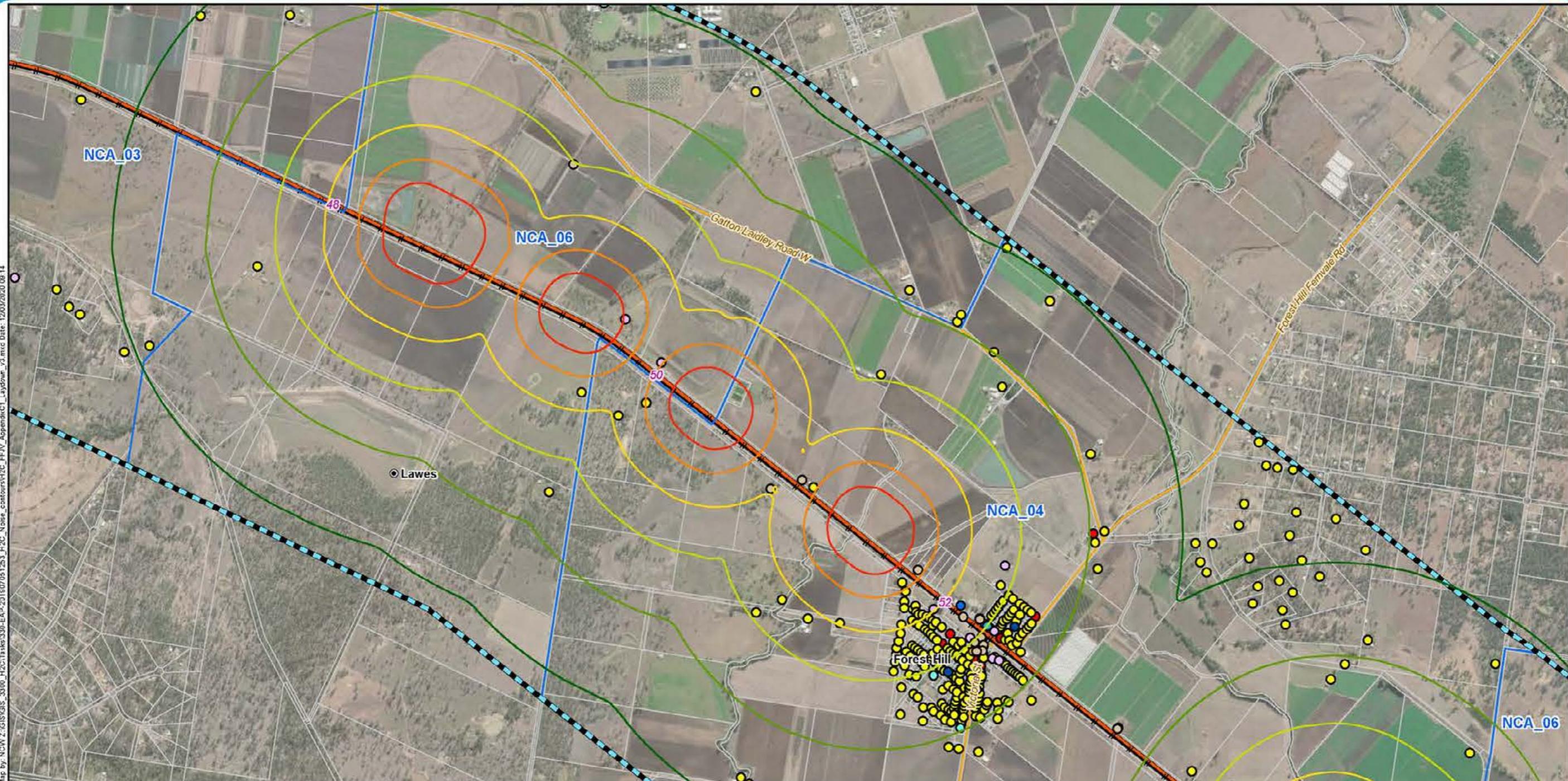
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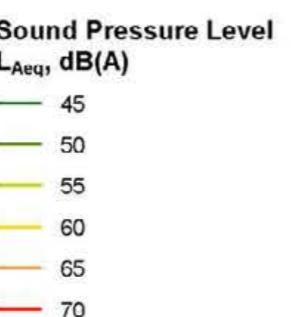
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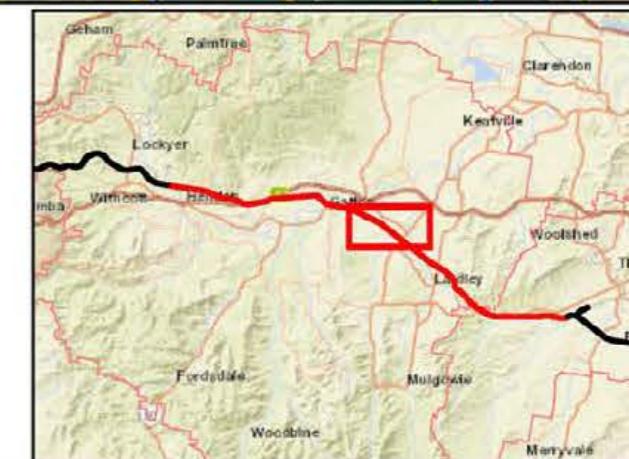


#### Legend

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- Localities
- Existing rail
- H2C project alignment
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



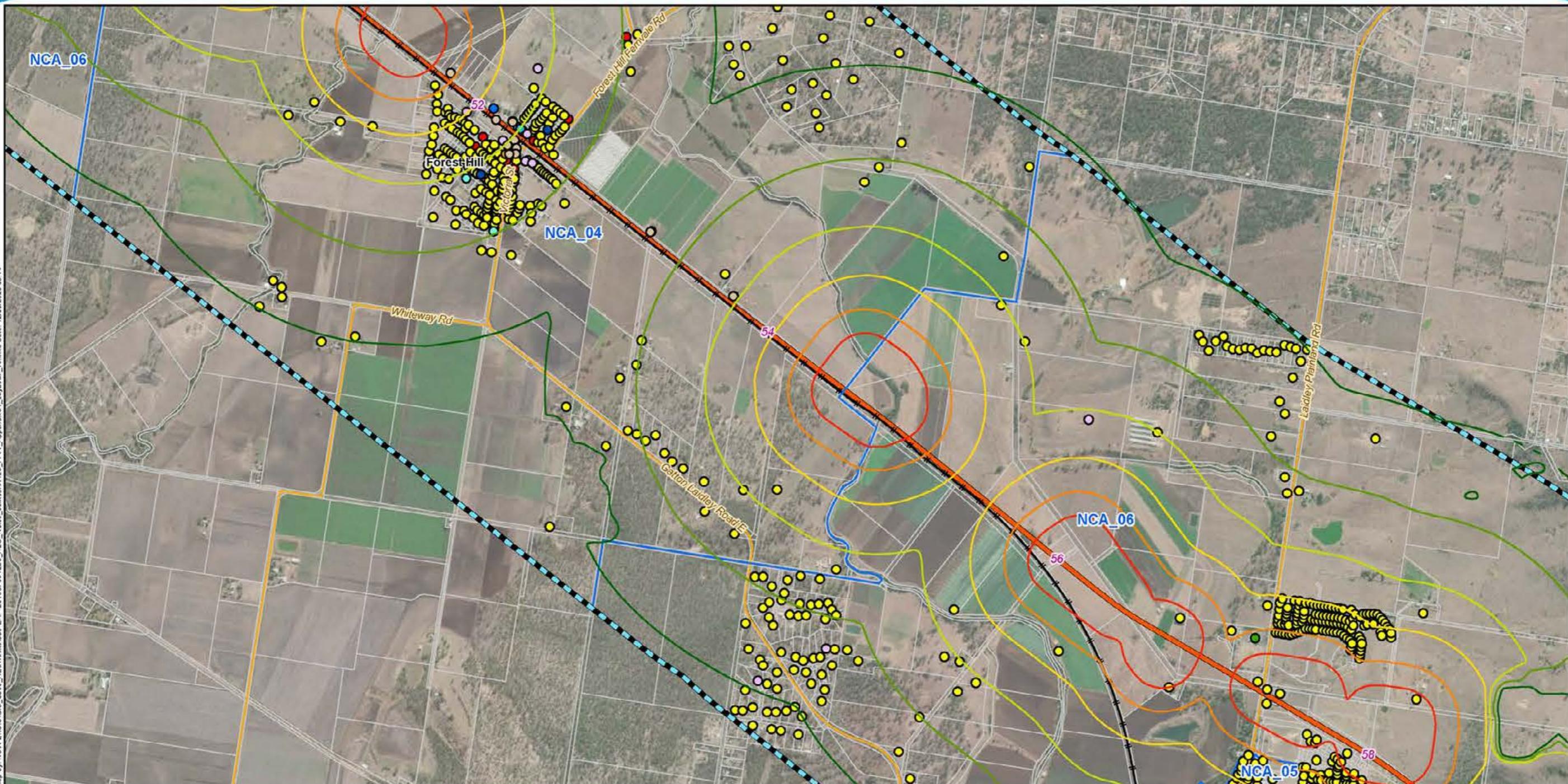
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
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  - Residential
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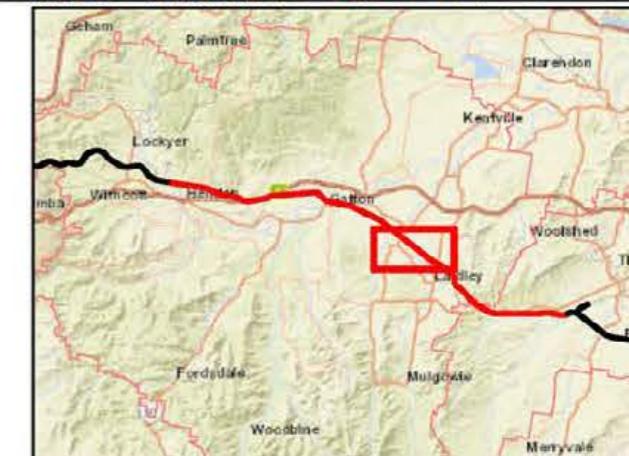
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
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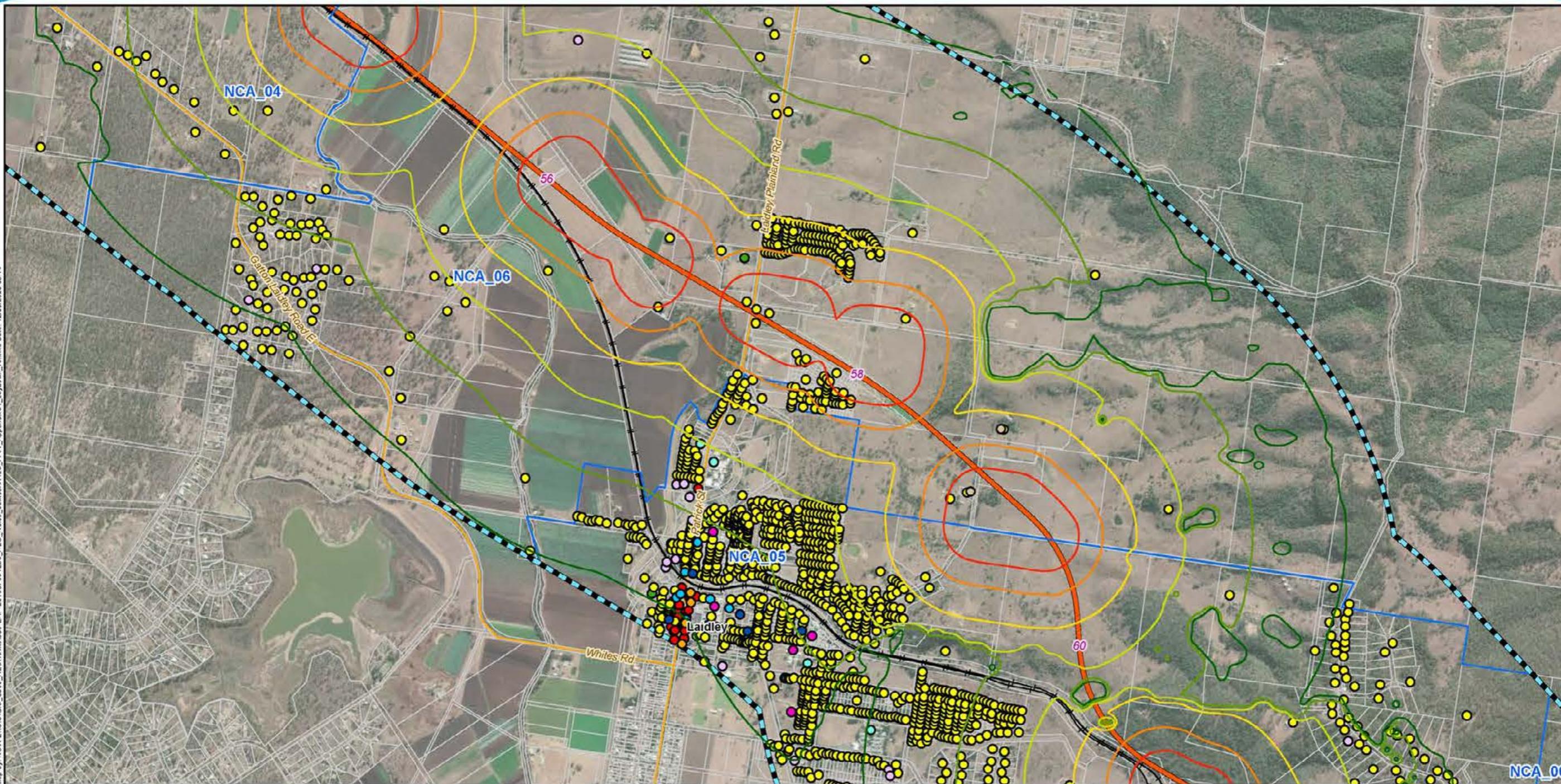
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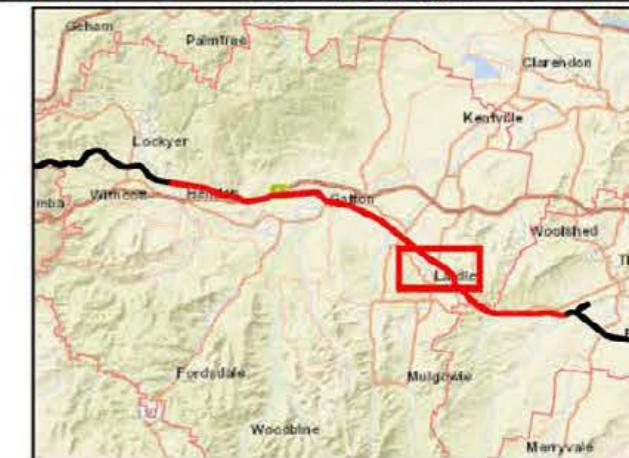
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- Localities
- Existing rail
- H2C project alignment
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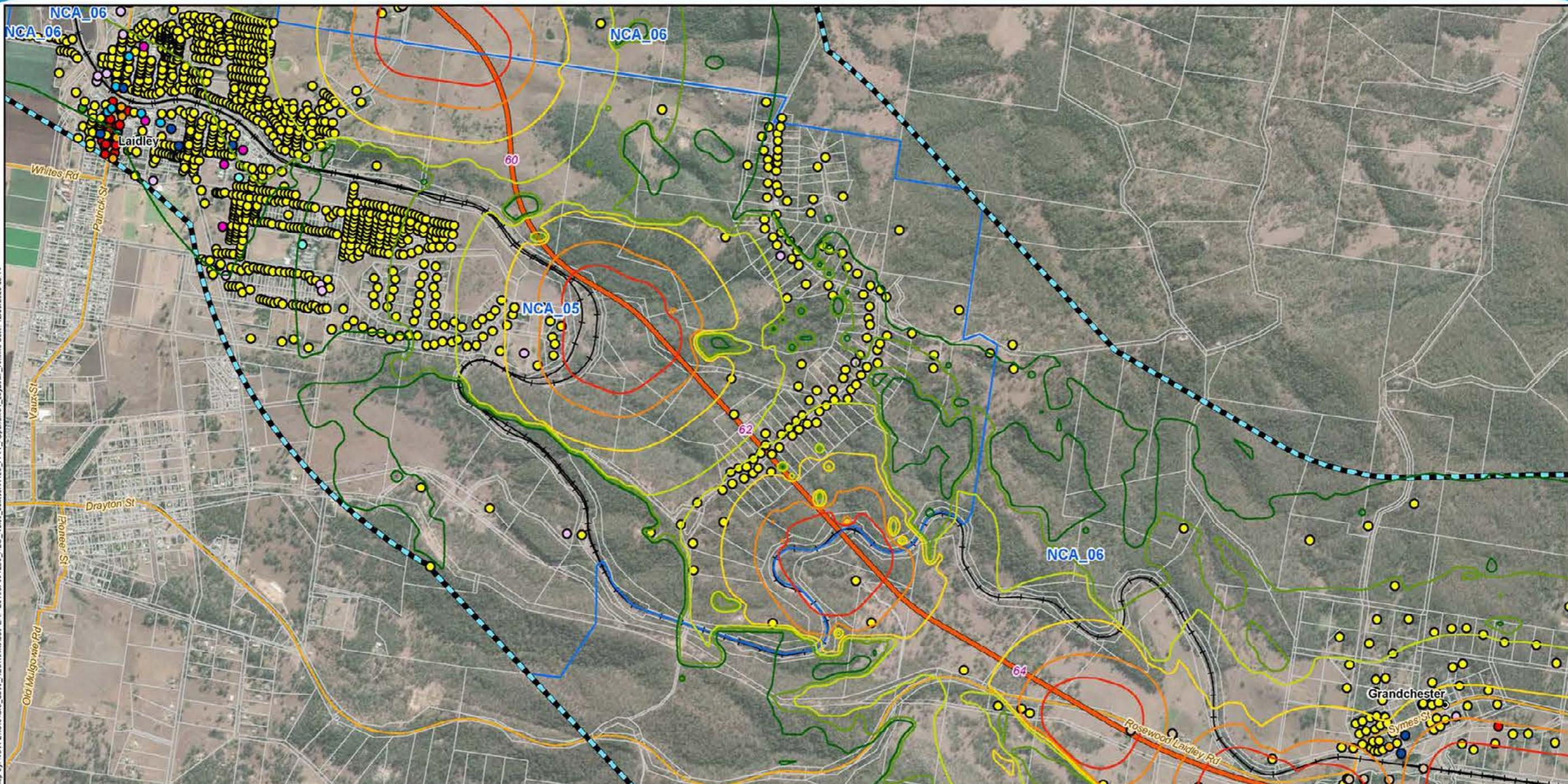
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A3 scale: 1:23,000

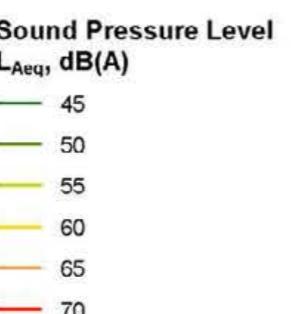
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
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- Minor roads
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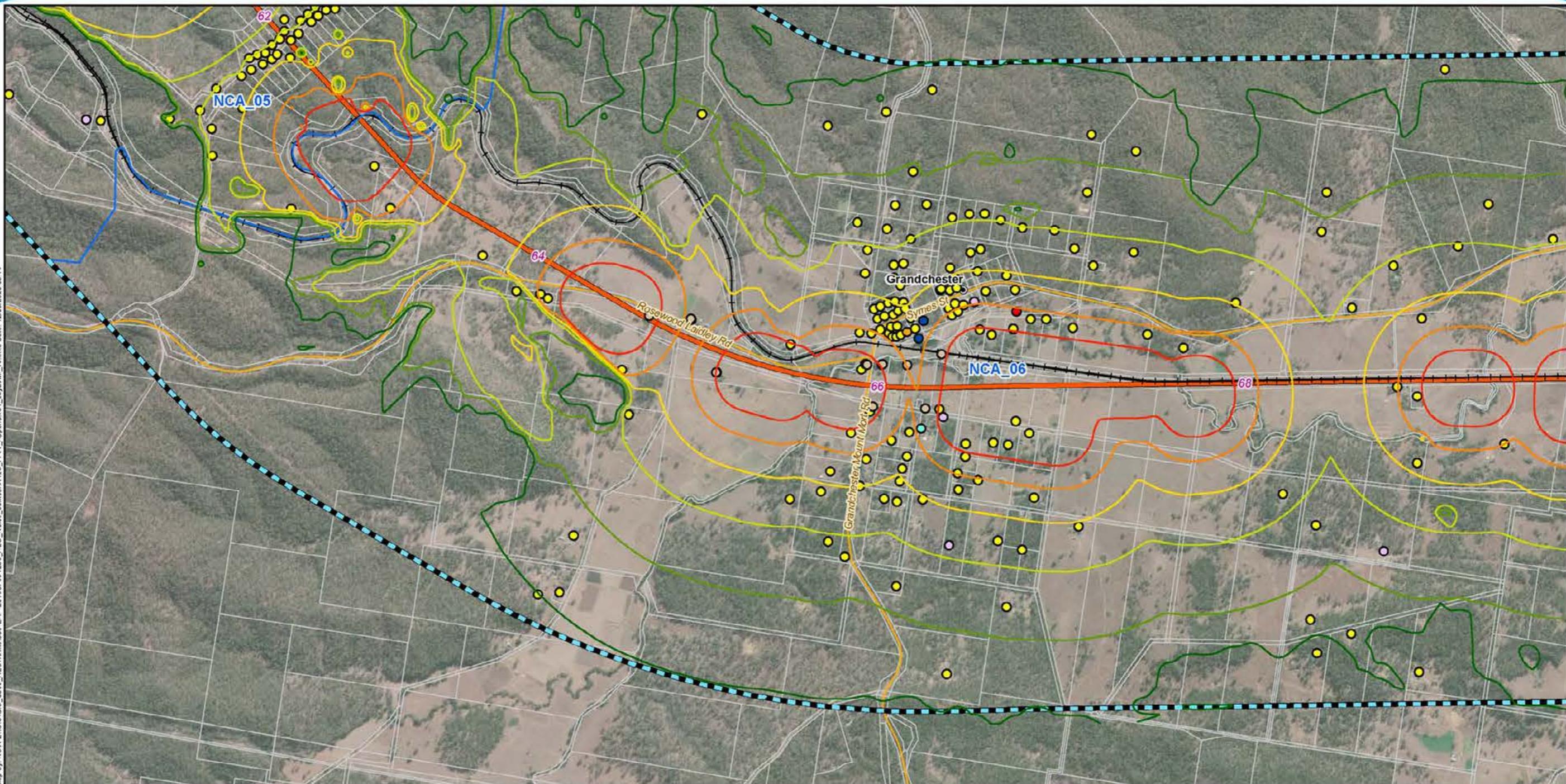
- Sensitive Receptors**
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  - Hotel/Motel
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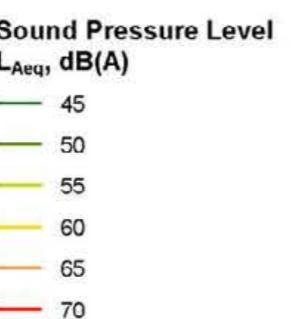
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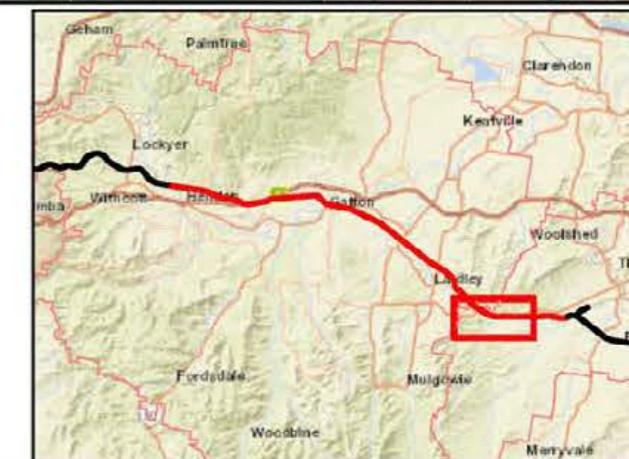


#### Legend

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- Localities
- Existing rail
- H2C project alignment
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



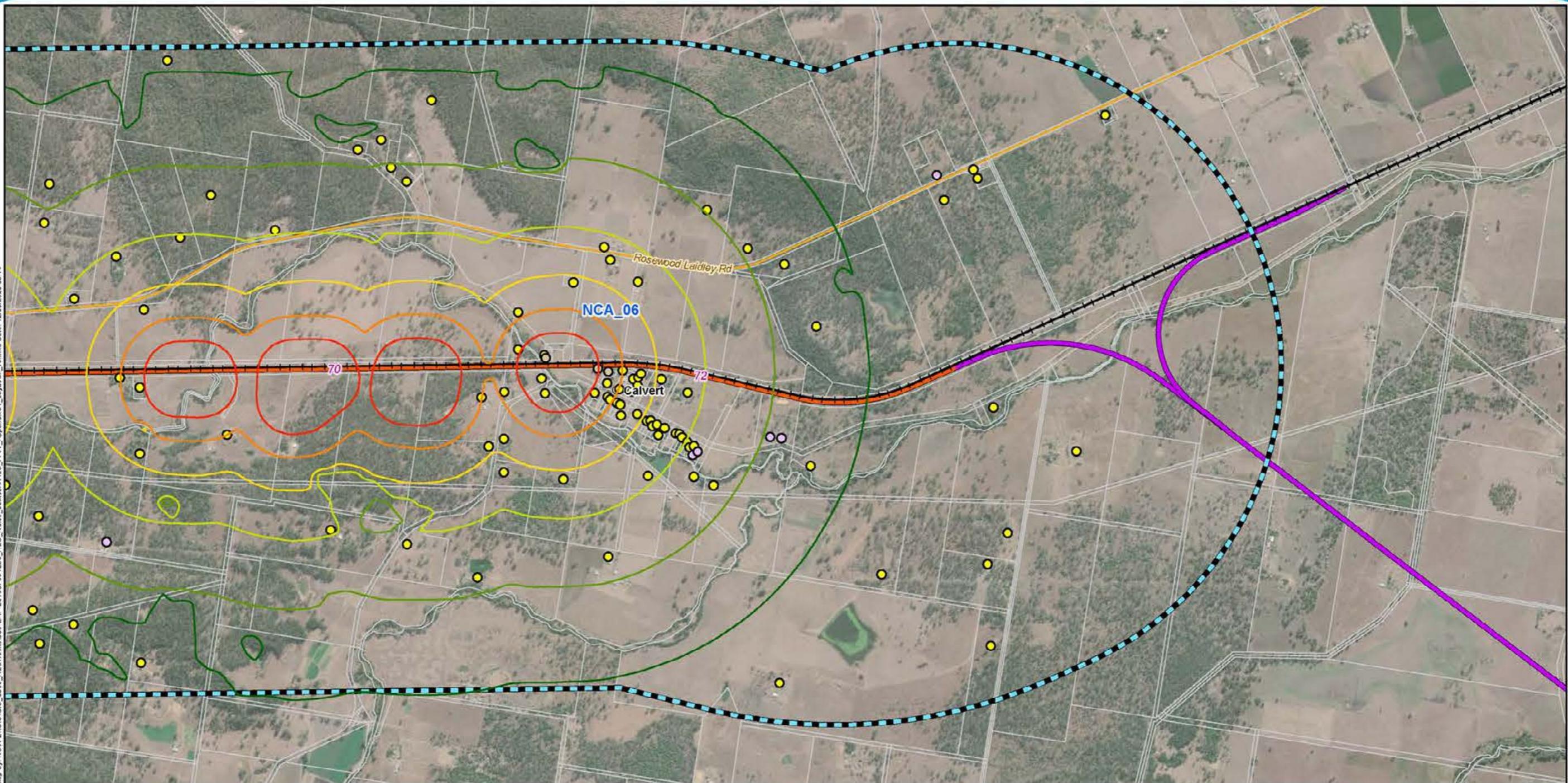
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A3 scale: 1:23,000

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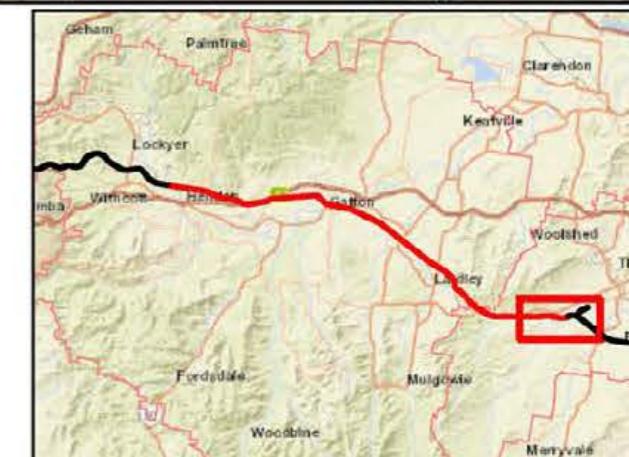
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
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#### Sensitive Receptors

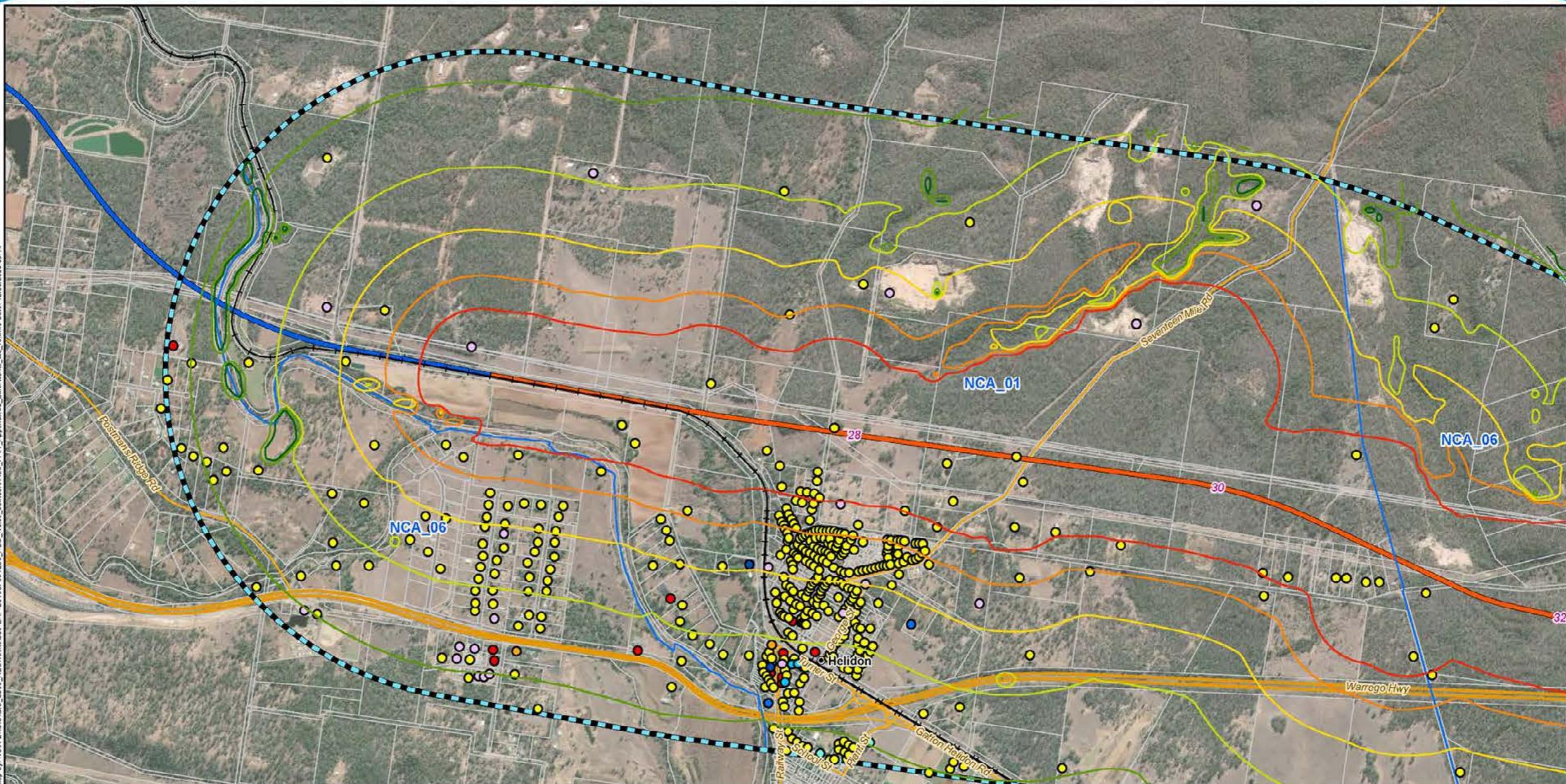
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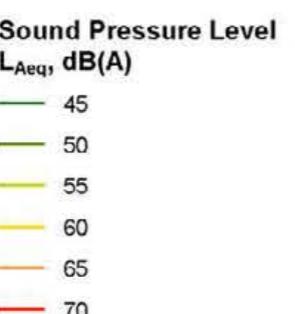
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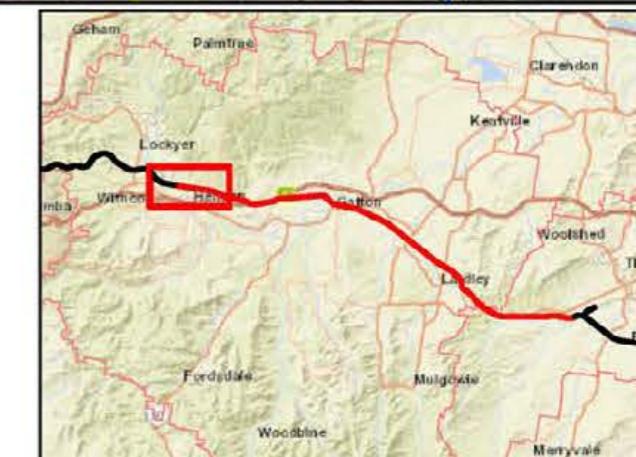


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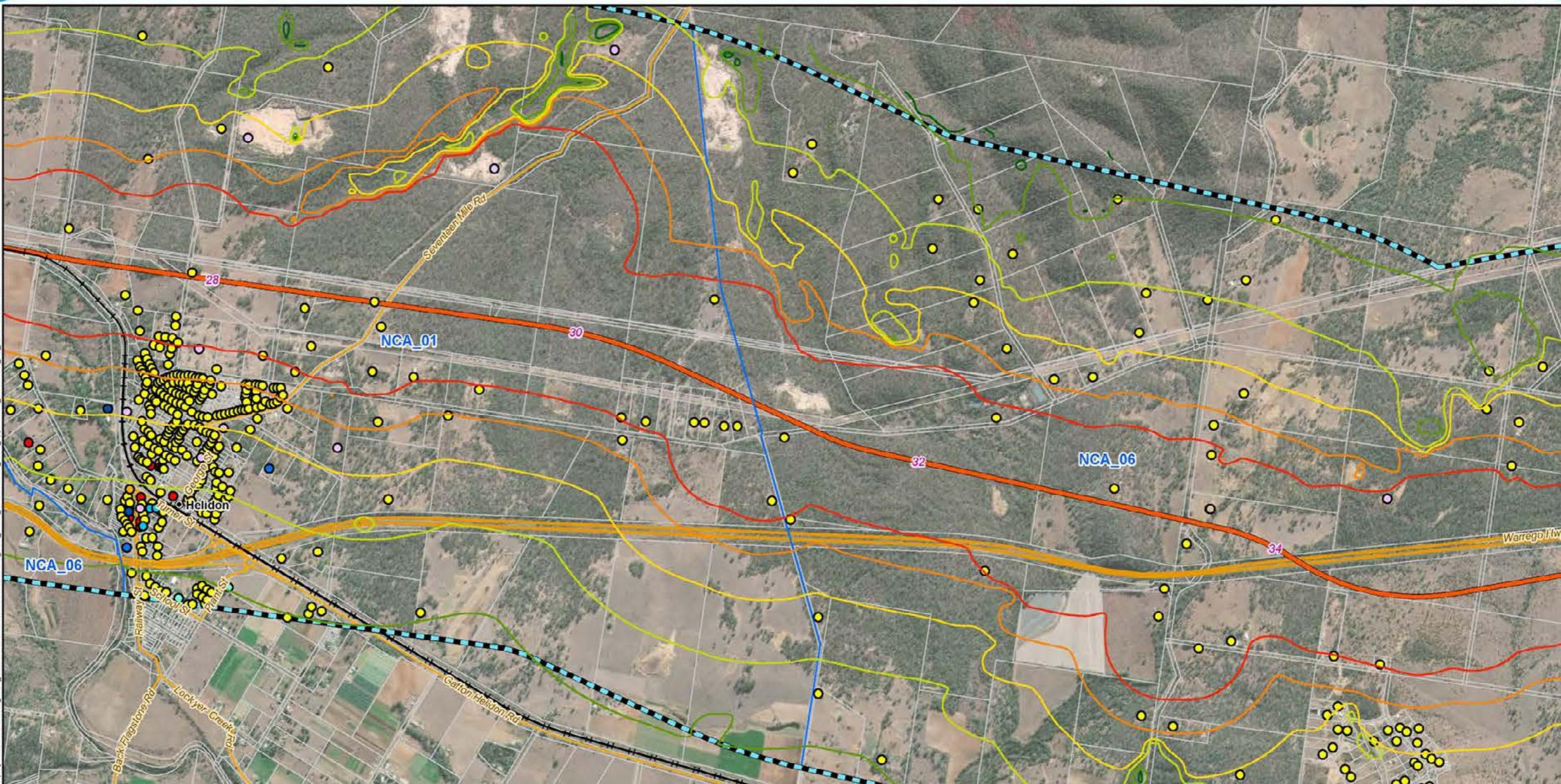
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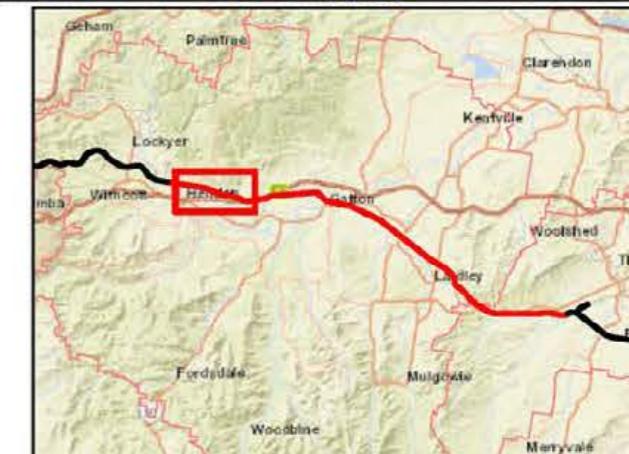
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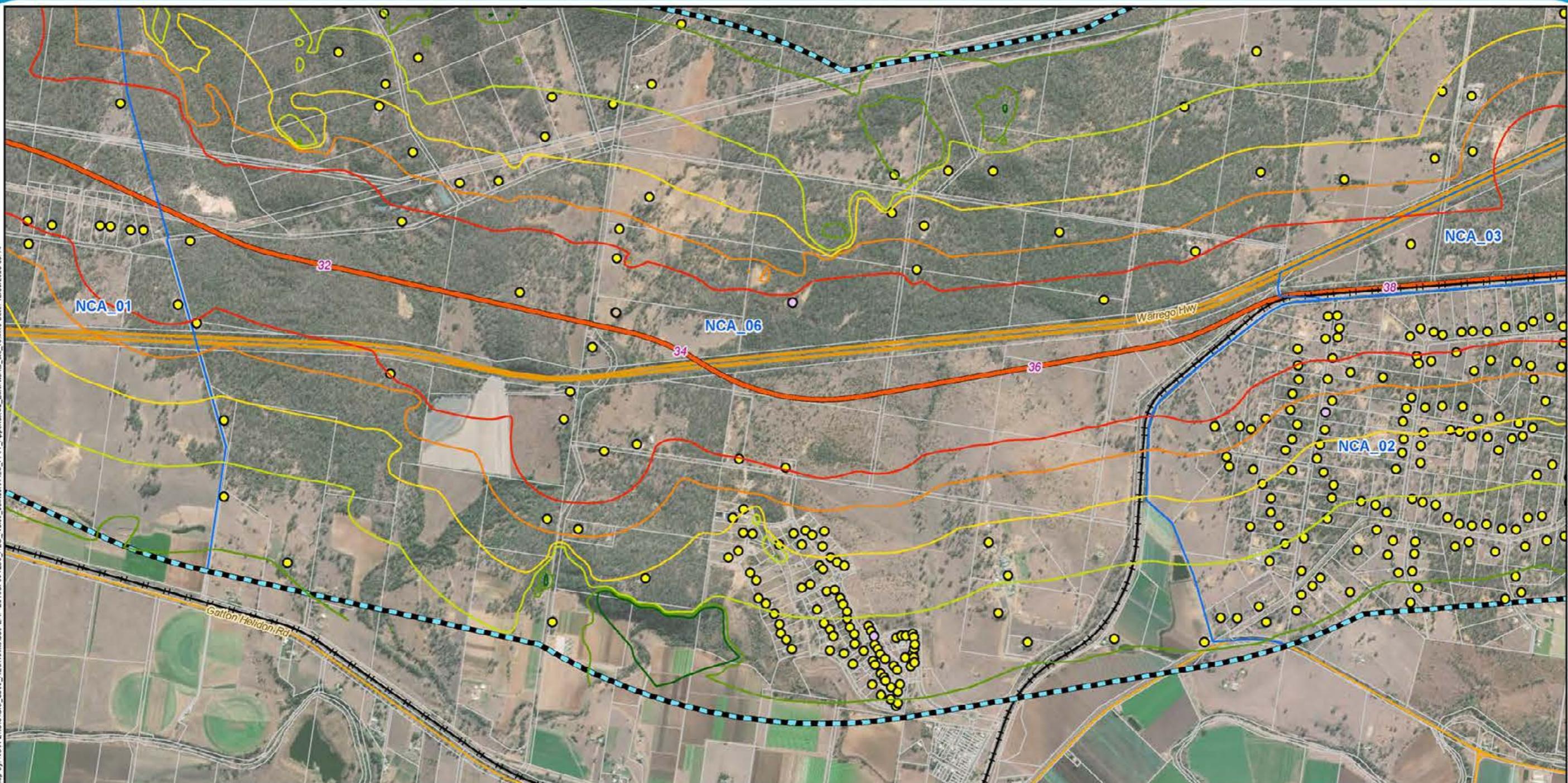
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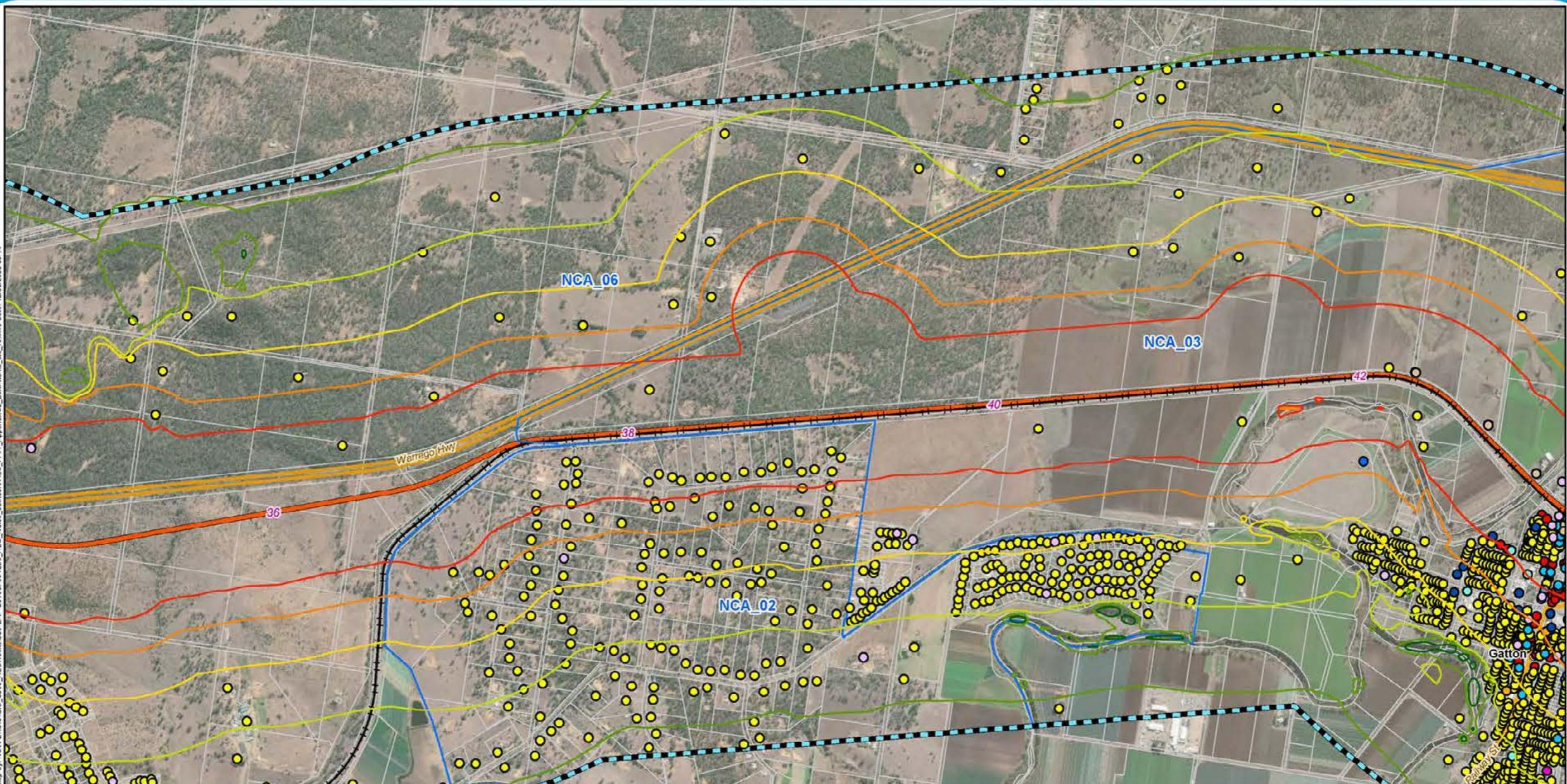
#### Sensitive Receptors

- Heritage
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A3 scale: 1:23,000

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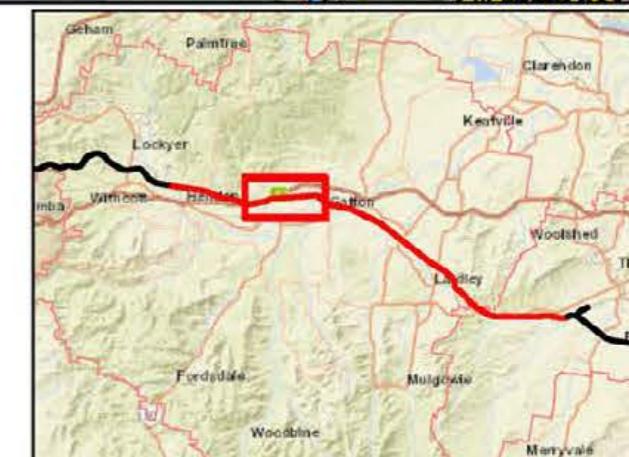
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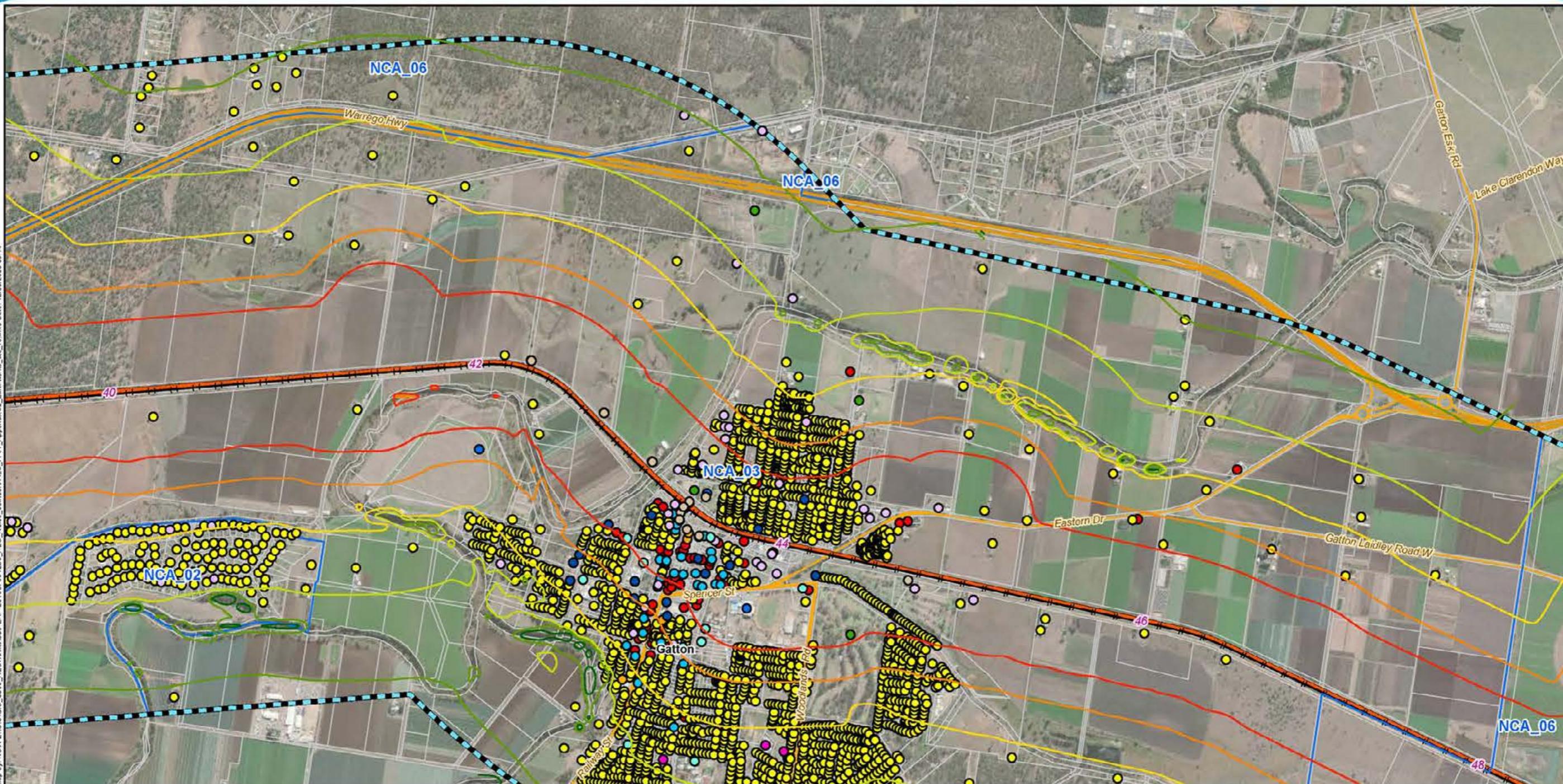
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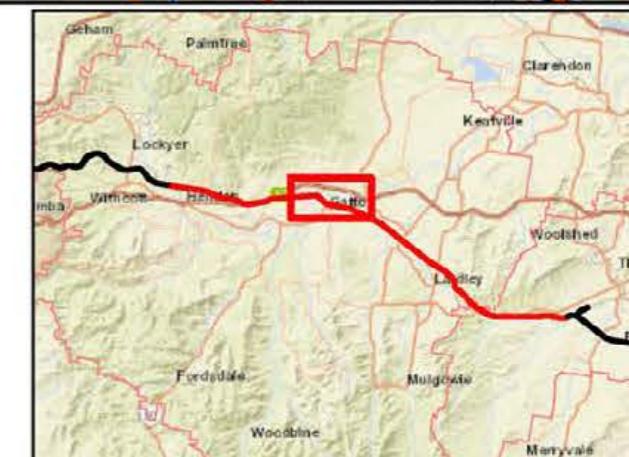
#### Legend

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- Existing rail
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

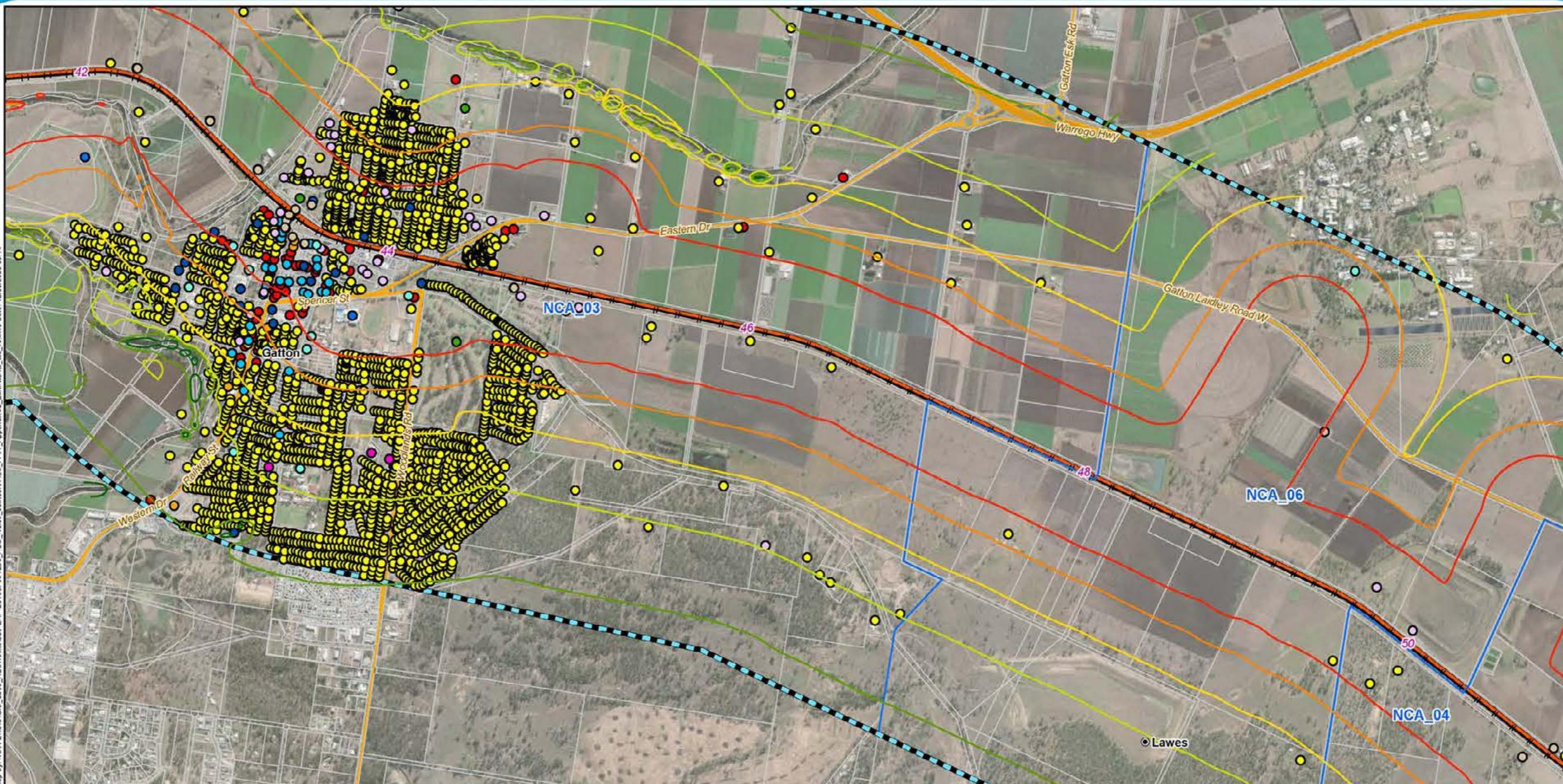
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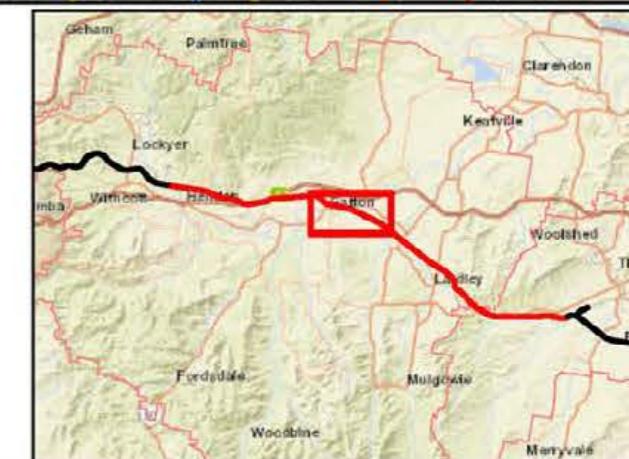
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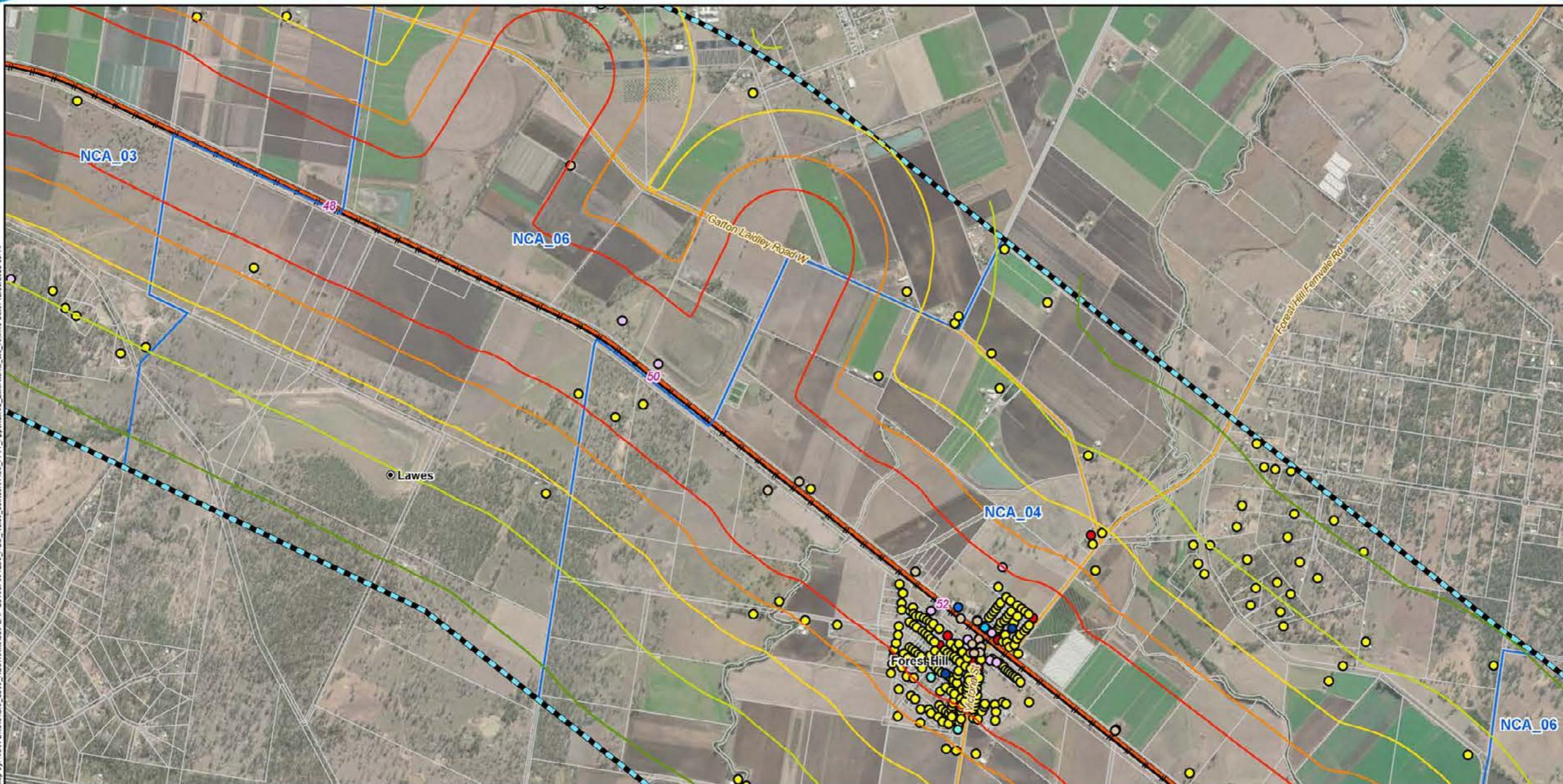
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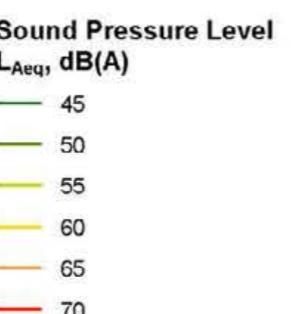
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#### Legend

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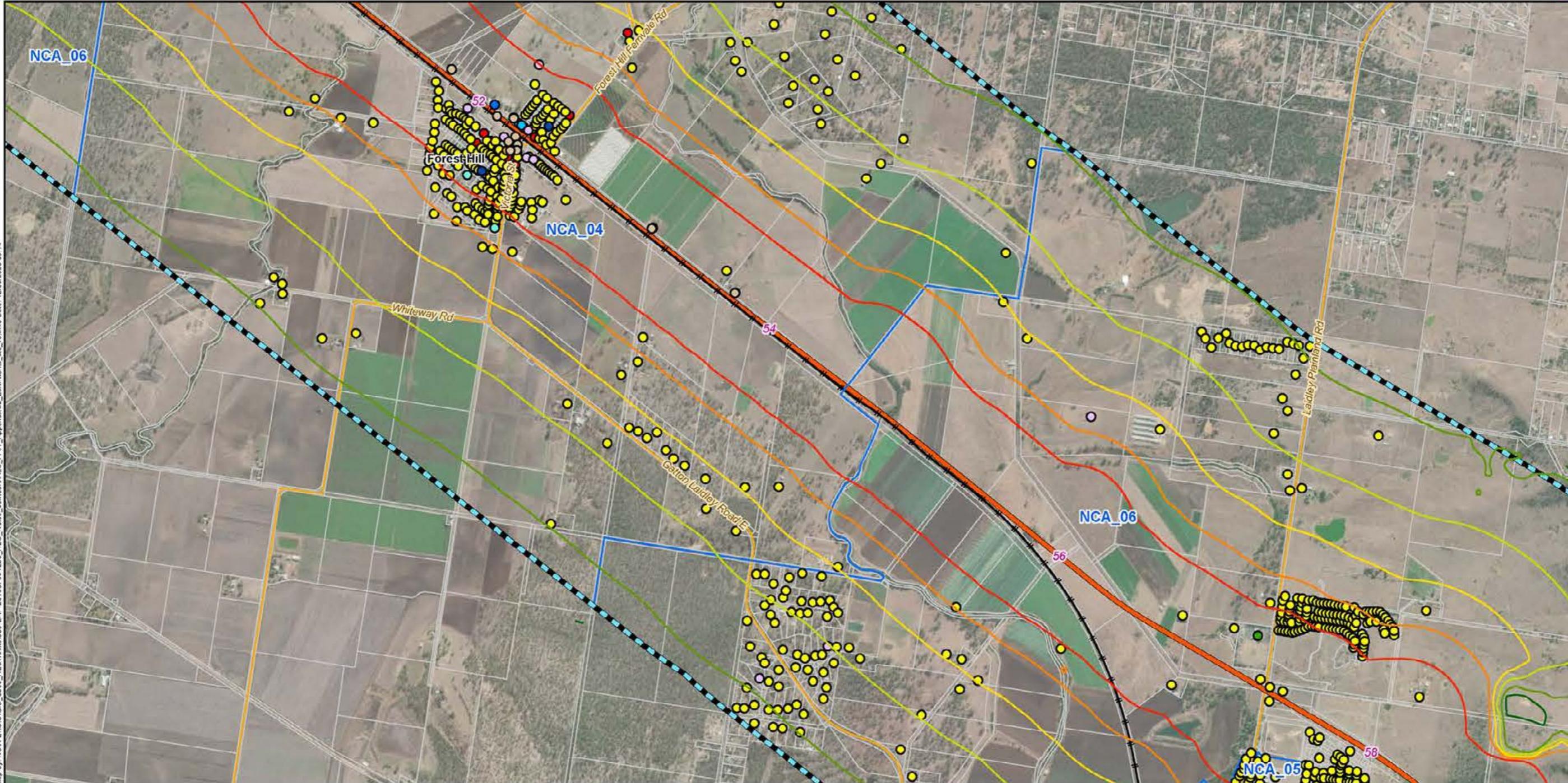
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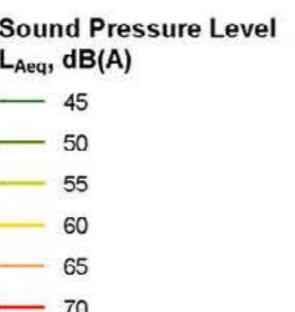
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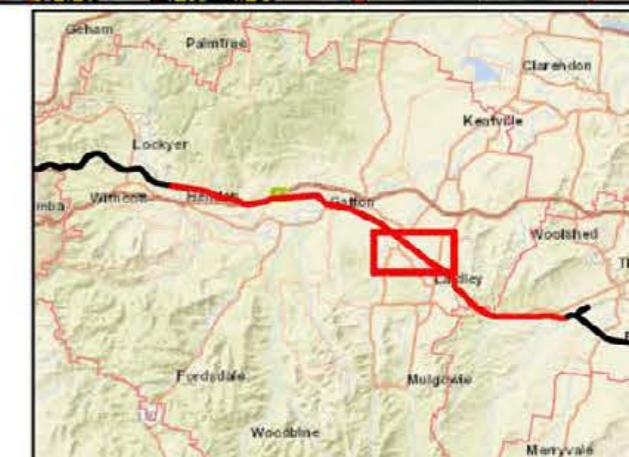
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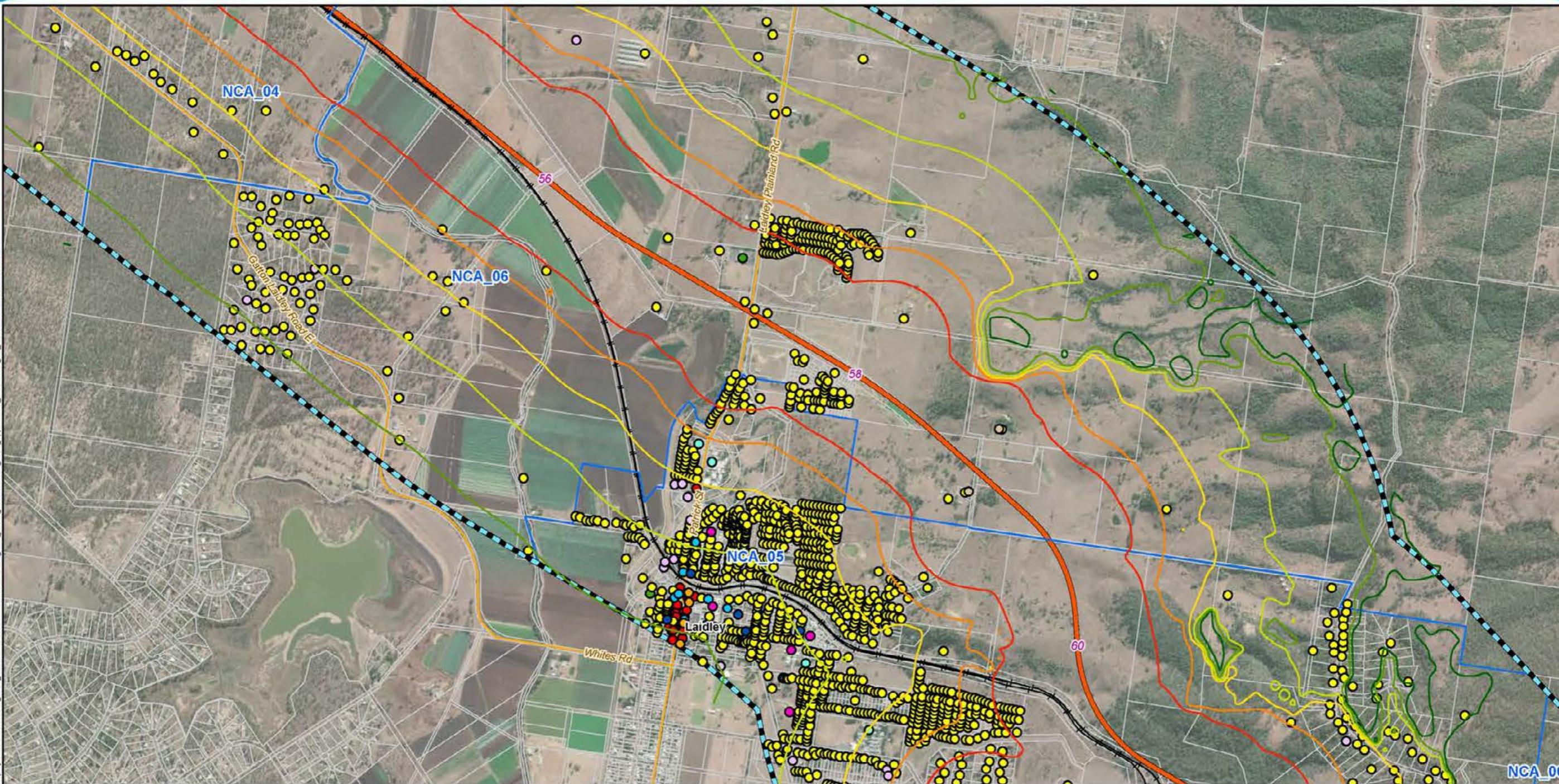
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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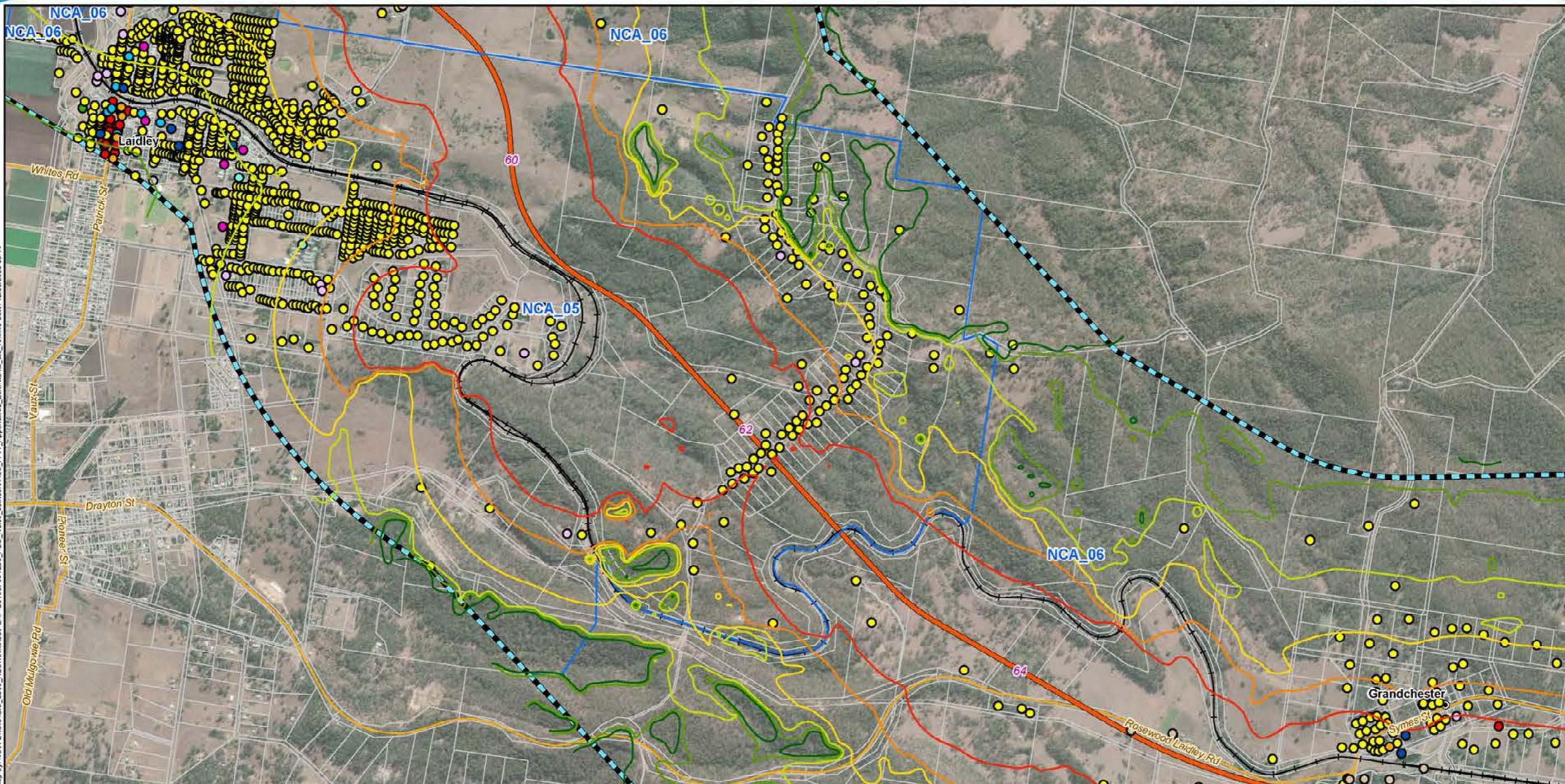
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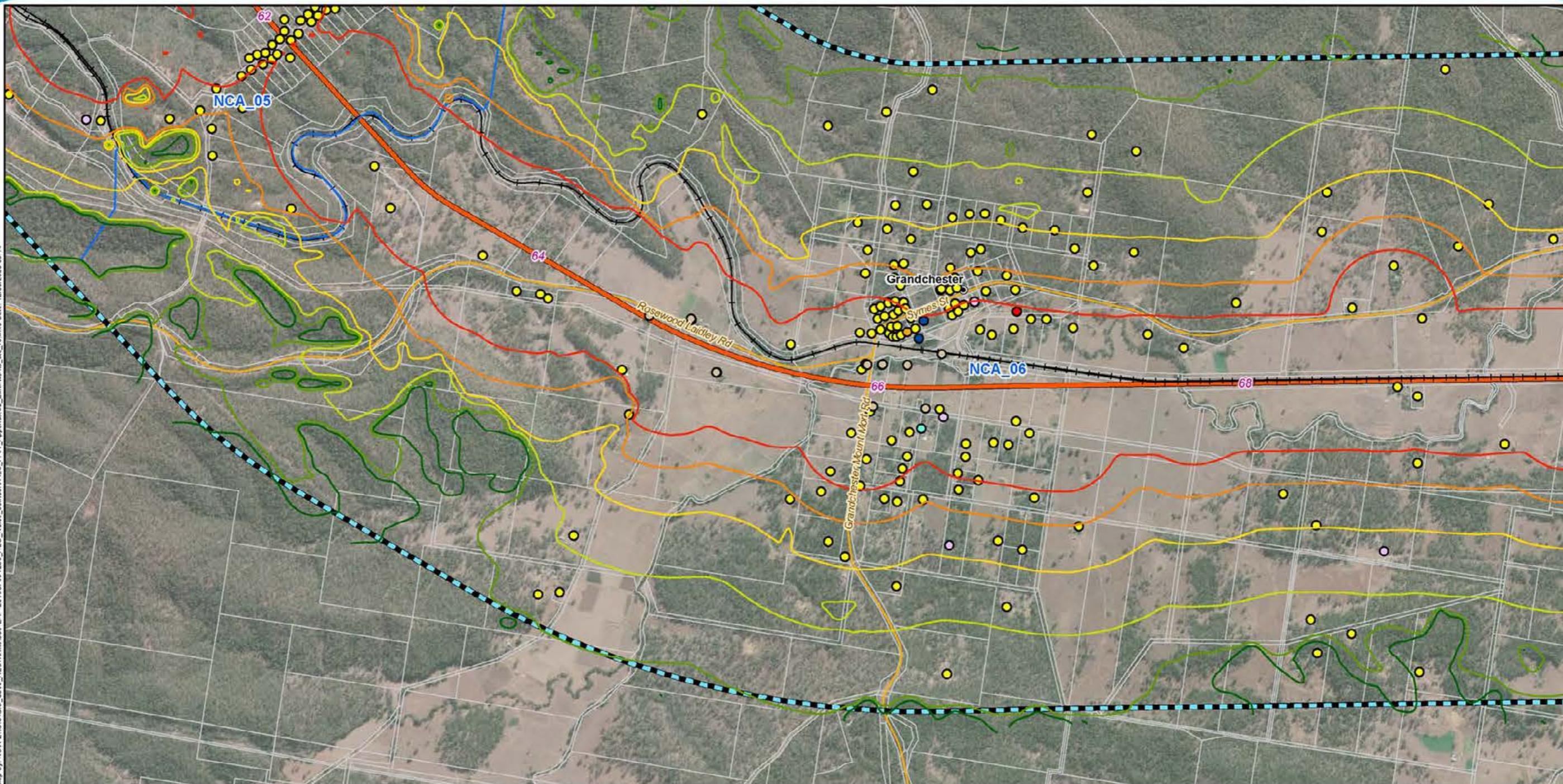
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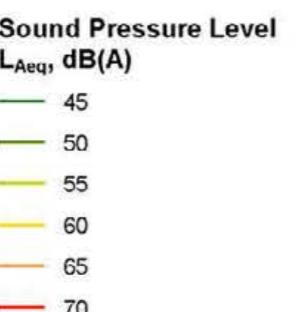
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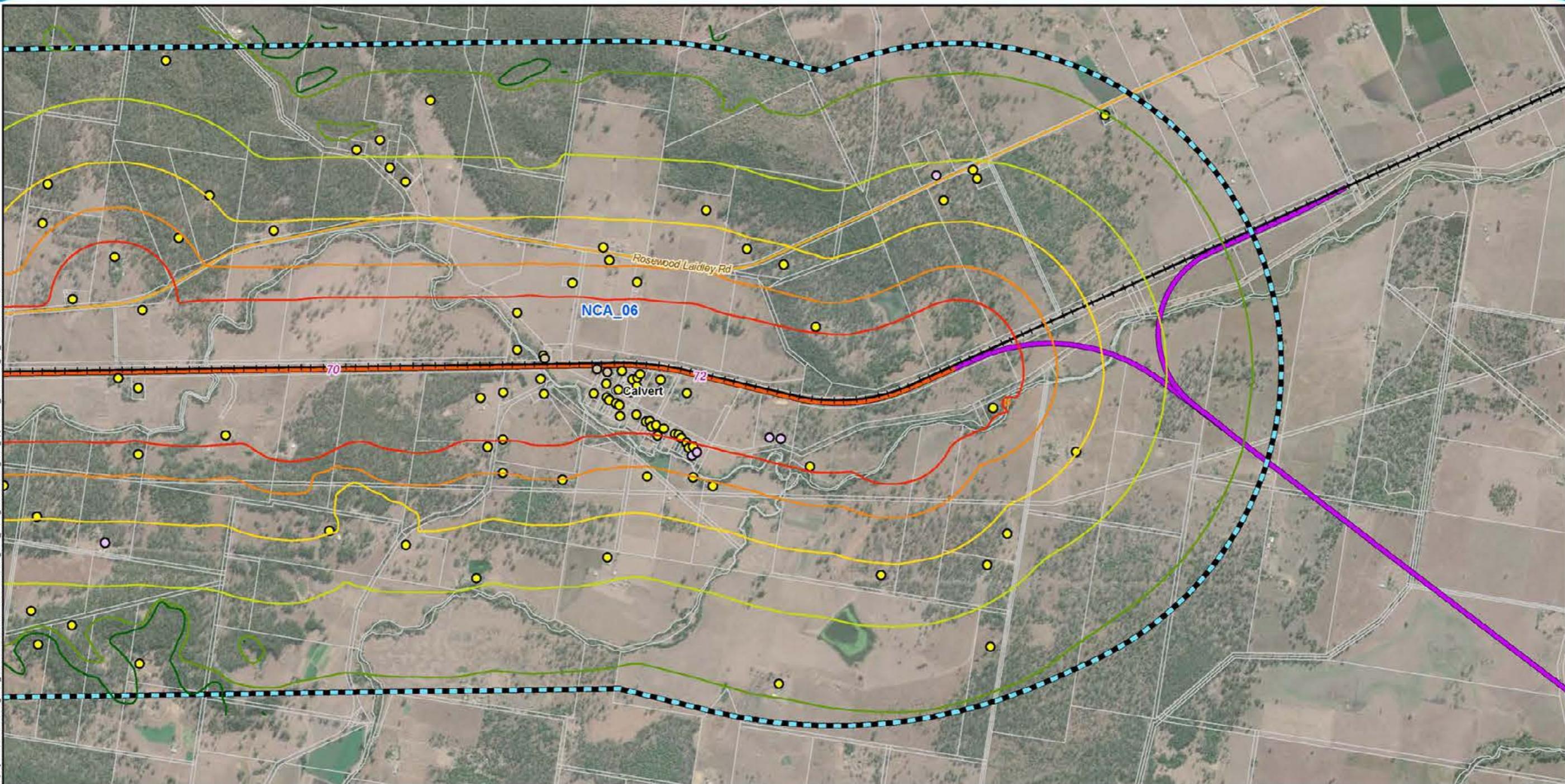
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





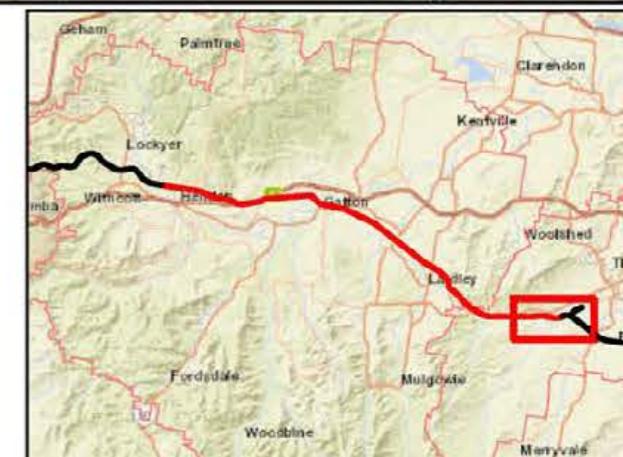
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

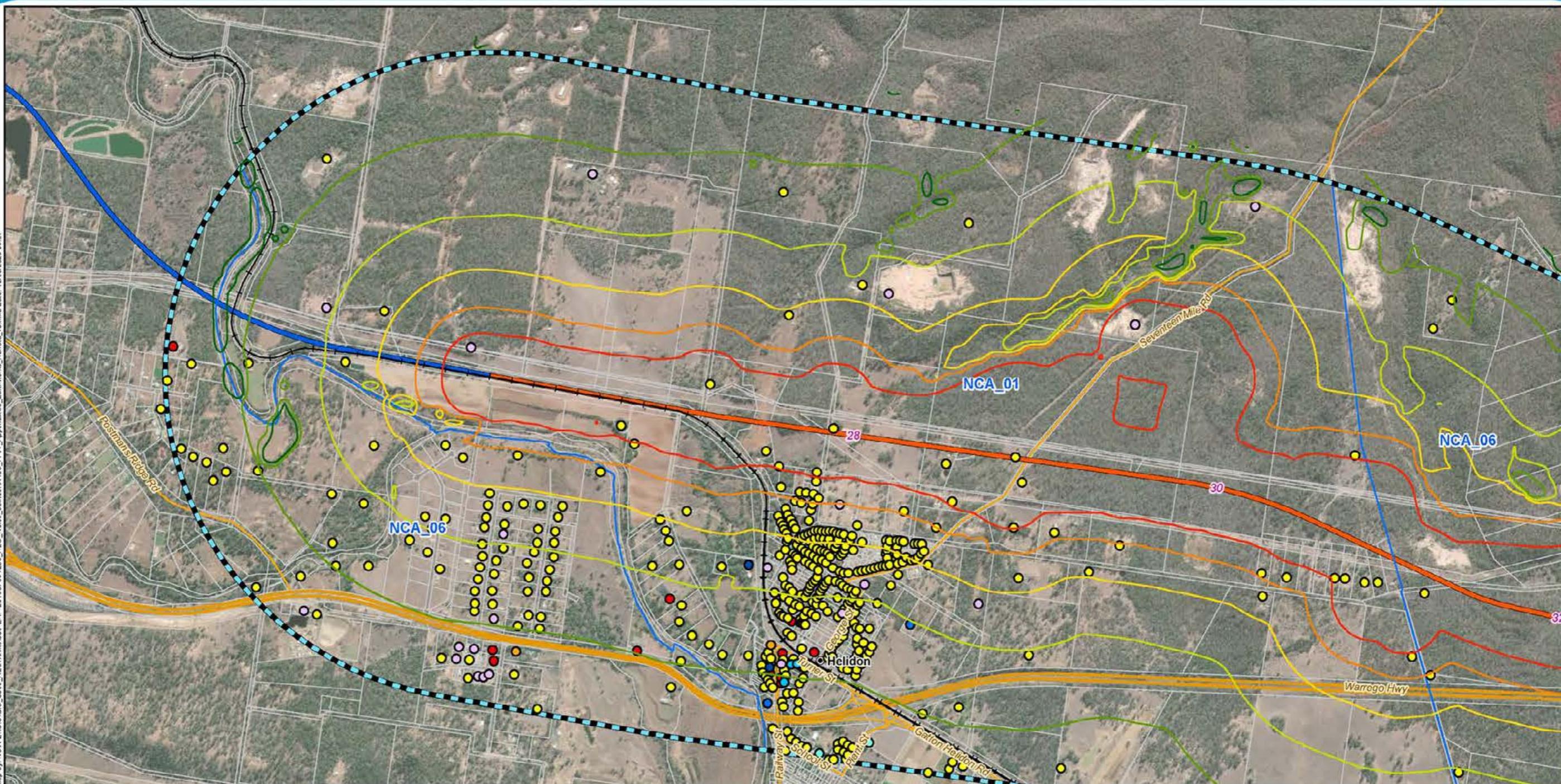
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

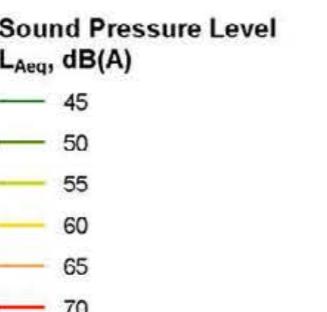
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



#### Sensitive Receptors

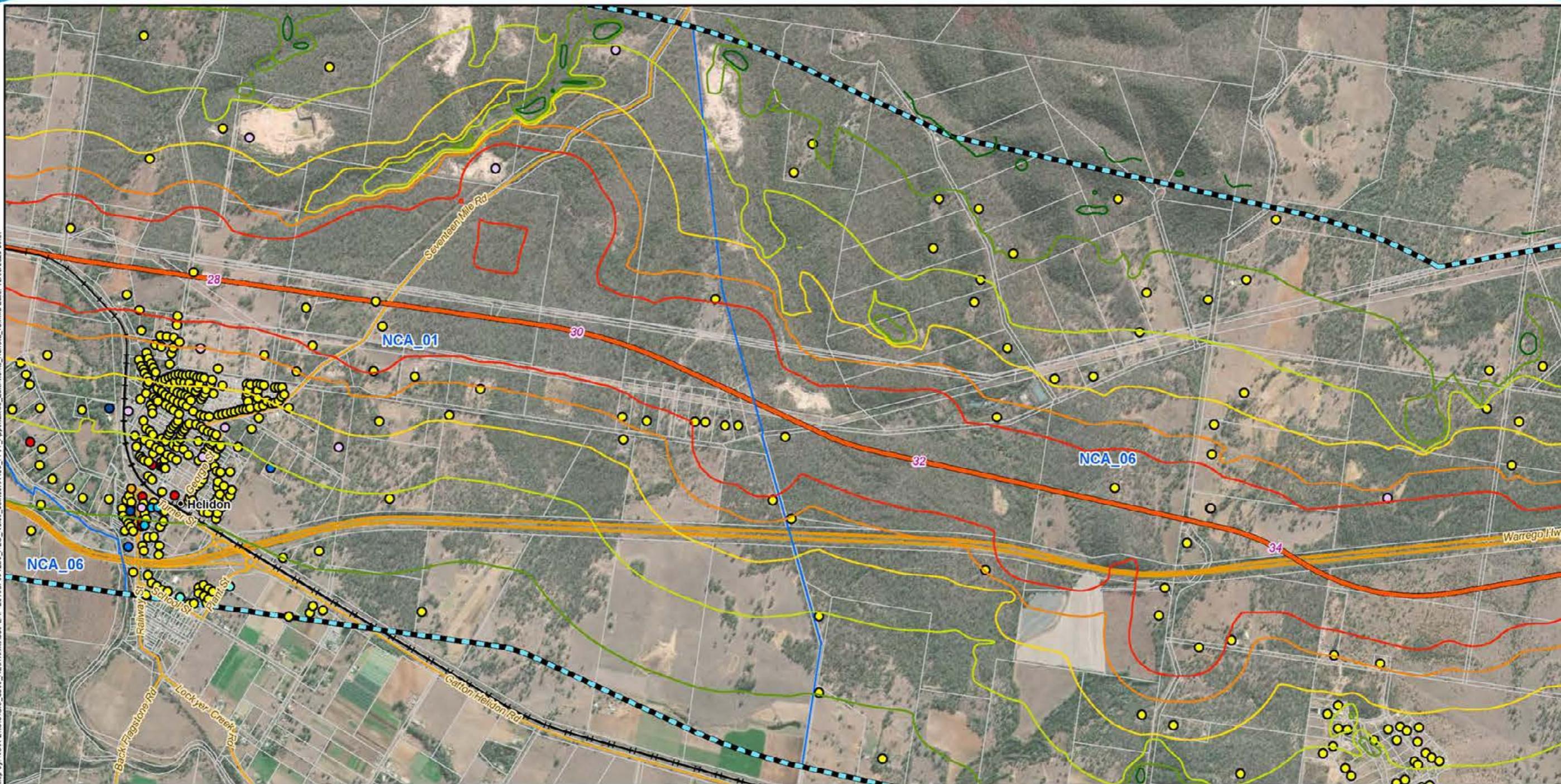
- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

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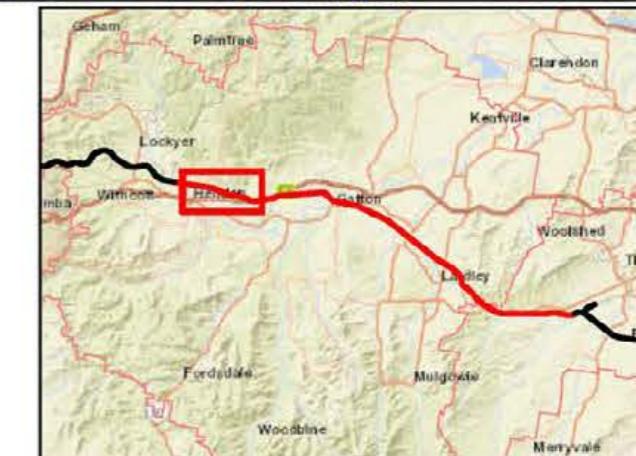
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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60	
65	
70	

#### Sensitive Receptors

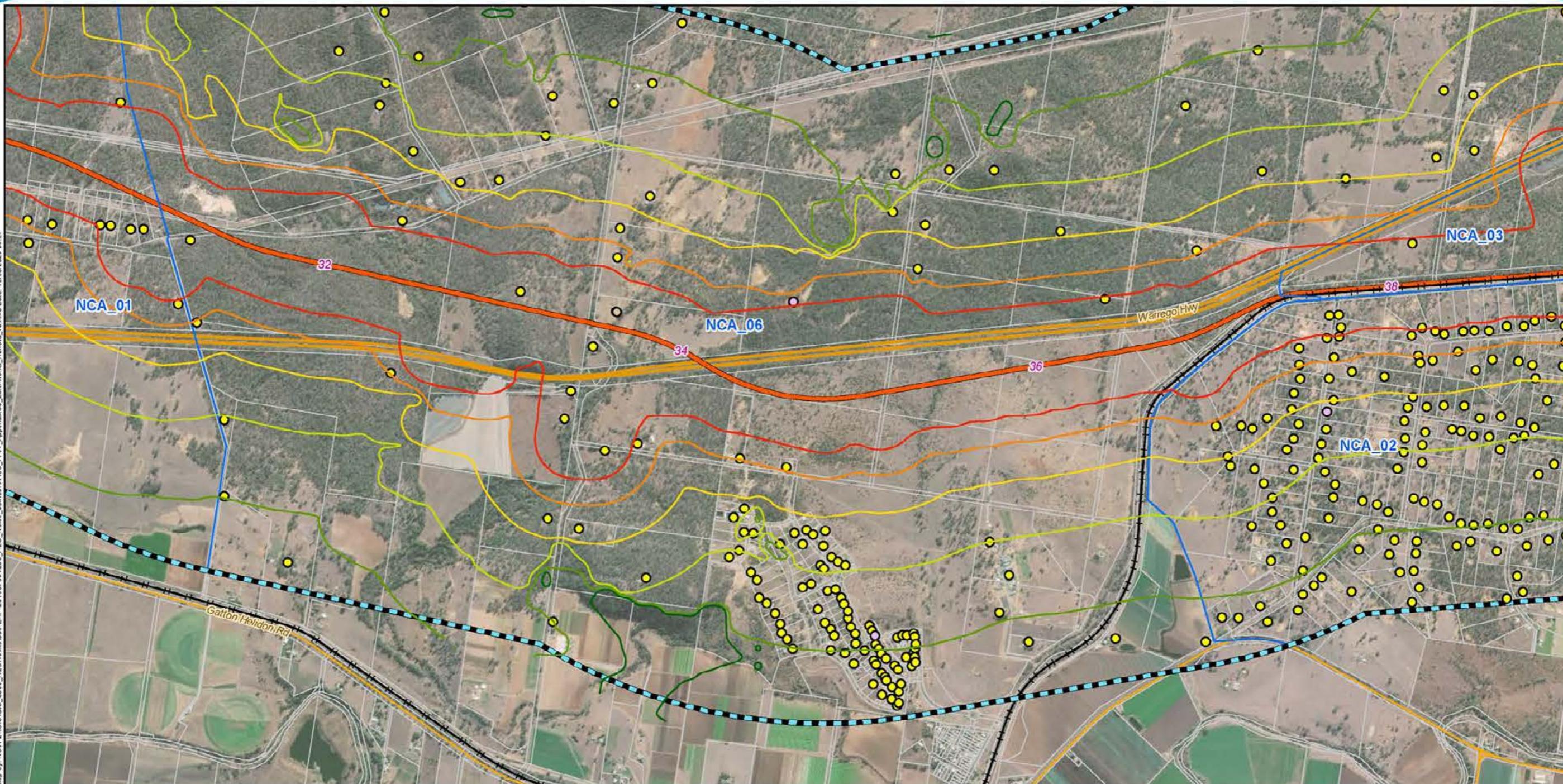
- Commercial
- Industrial
- Education
- Commercial Office
- Heritage
- Residential
- Hotel/Motel
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





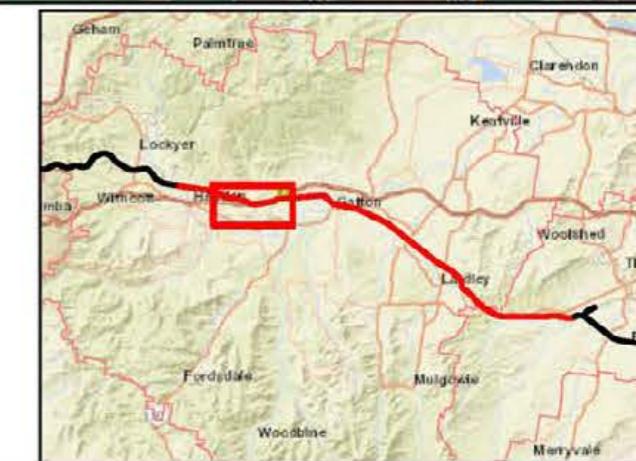
#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

#### Sensitive Receptors

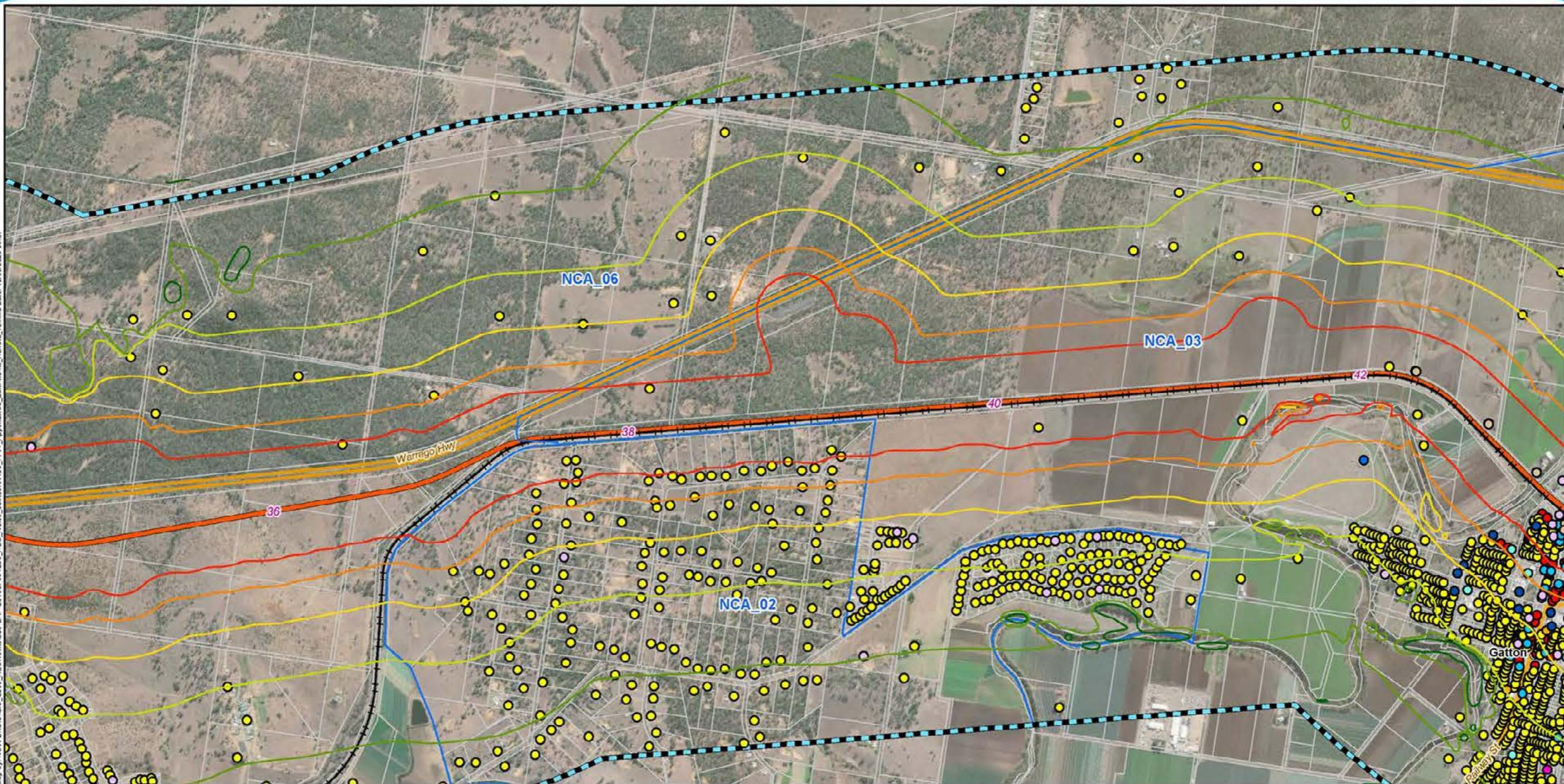
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





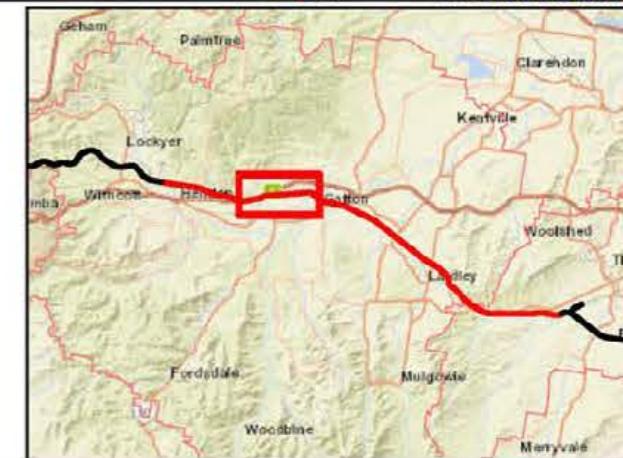
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

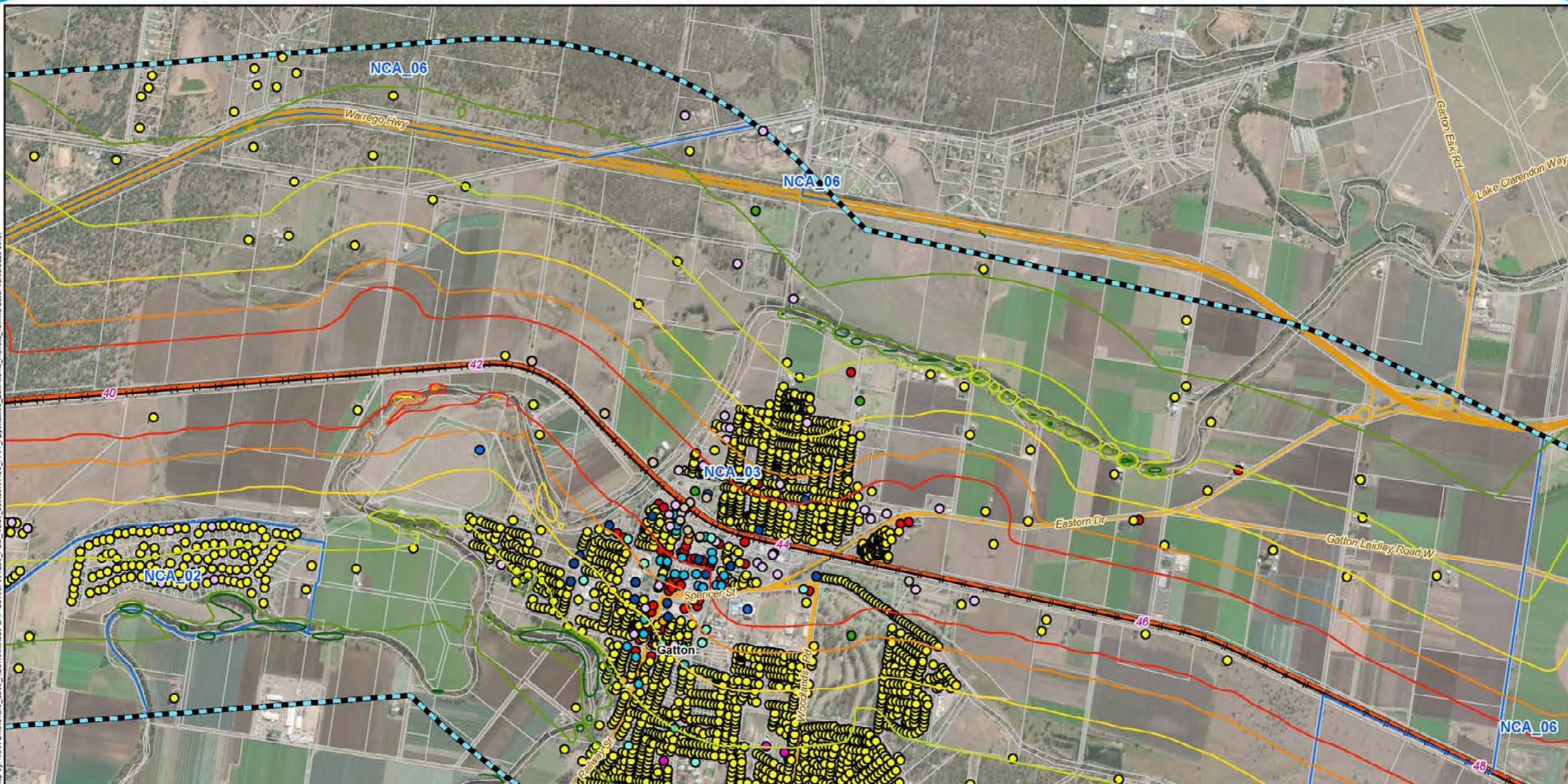
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Hotel/Motel
- Residential
- Commercial Office
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





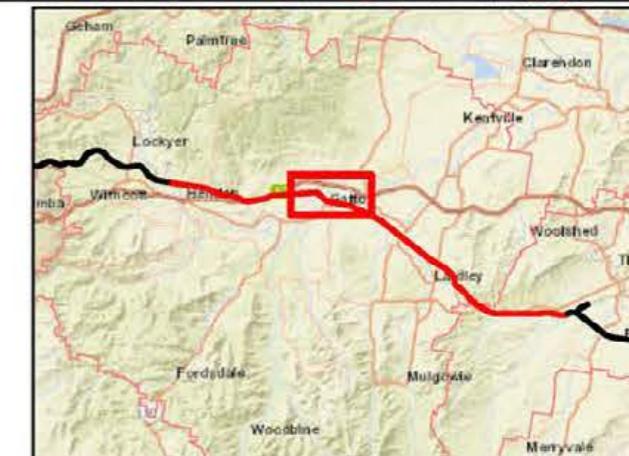
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	50
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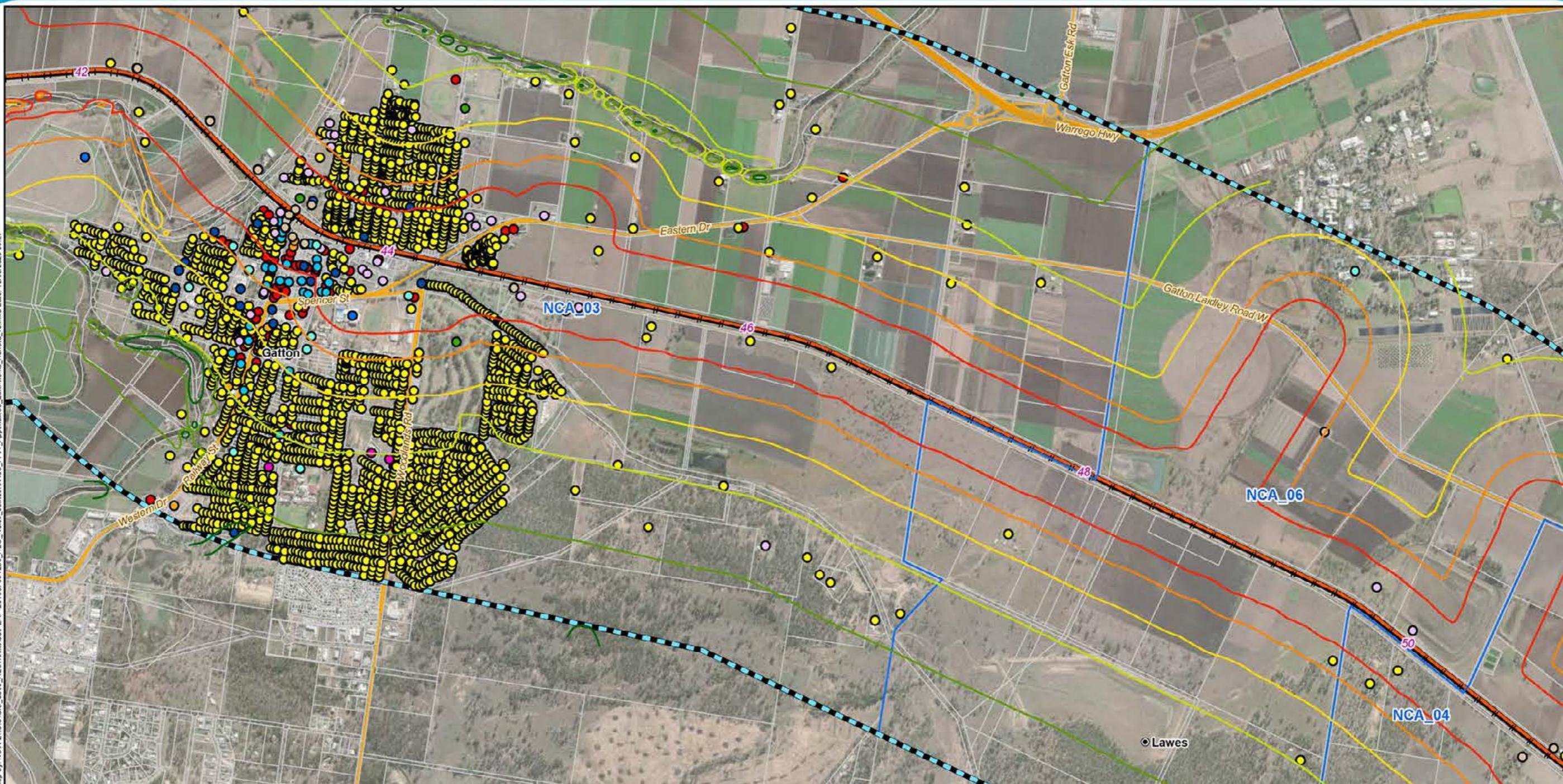
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





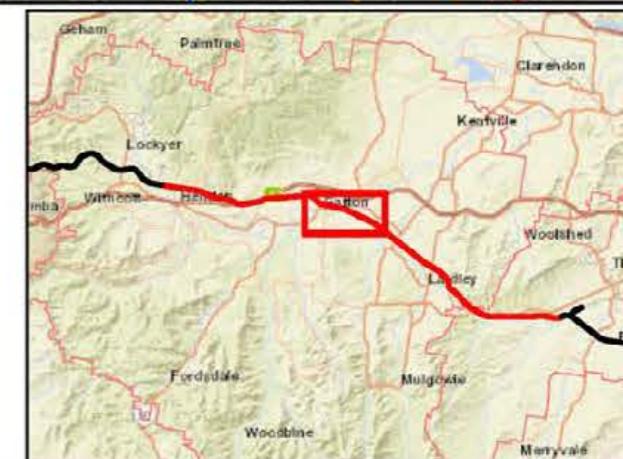
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	60
—	65
—	70

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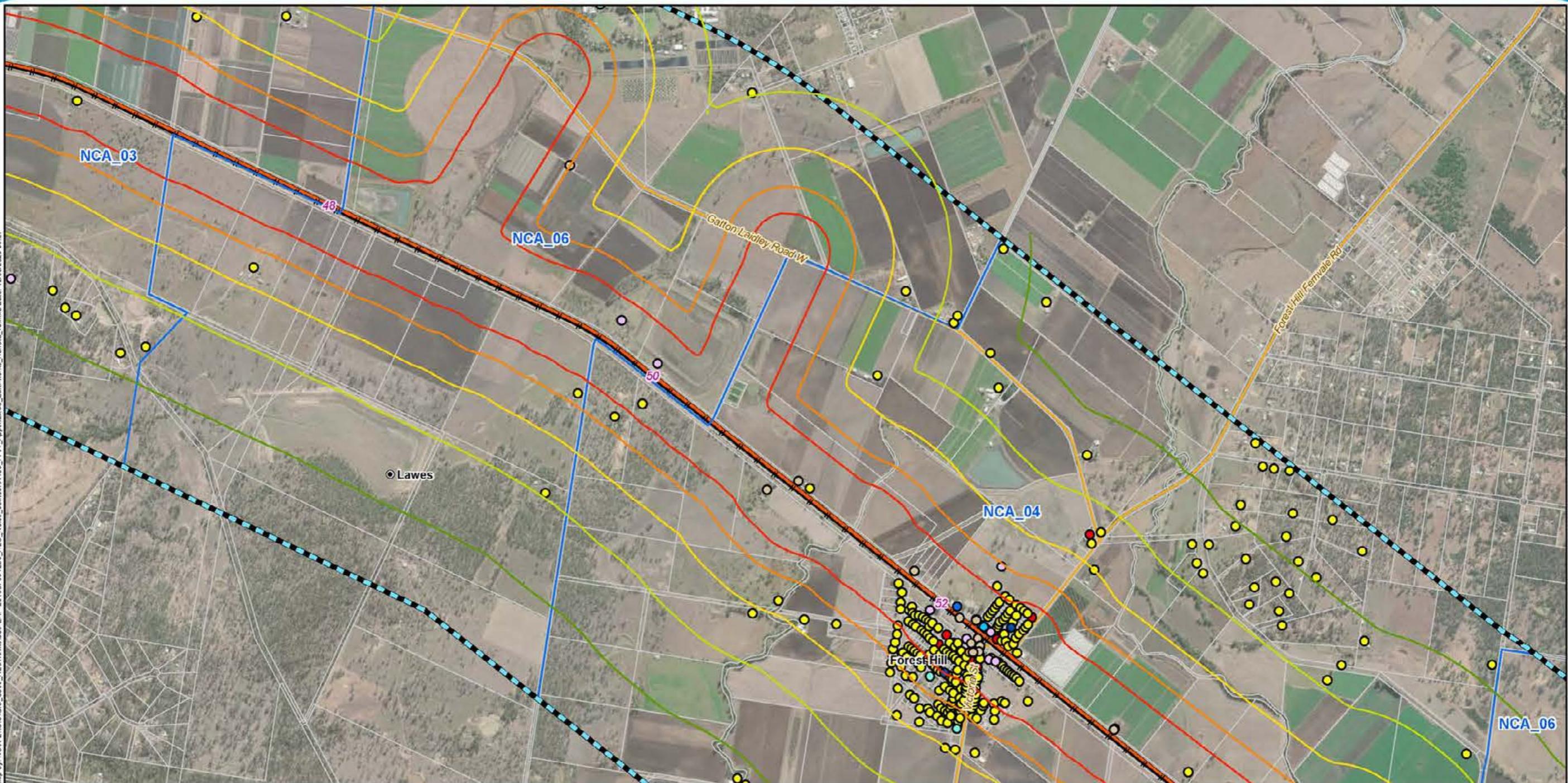
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

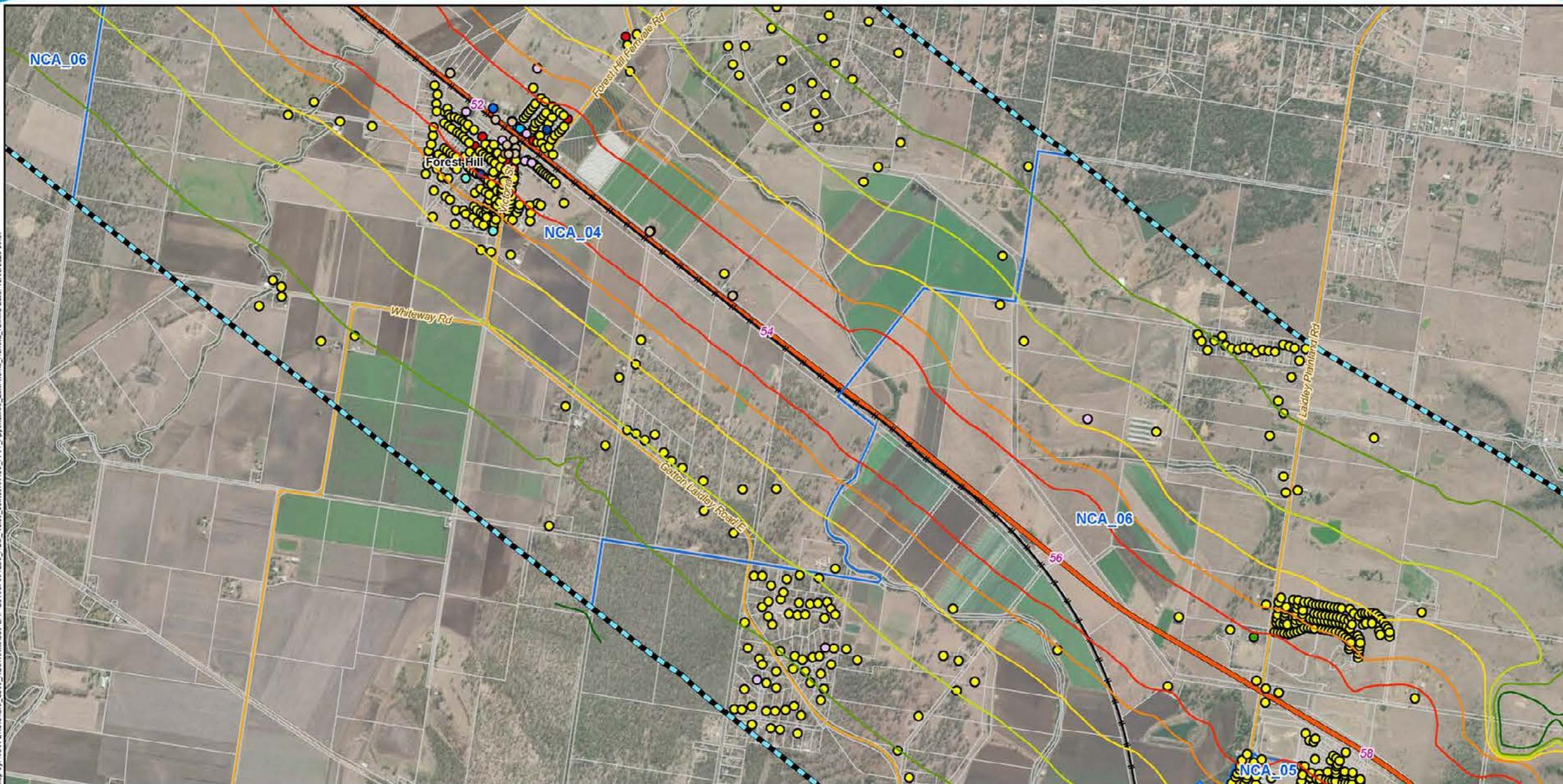
- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Outdoor Recreation
- Heritage
- Hotel/Motel
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





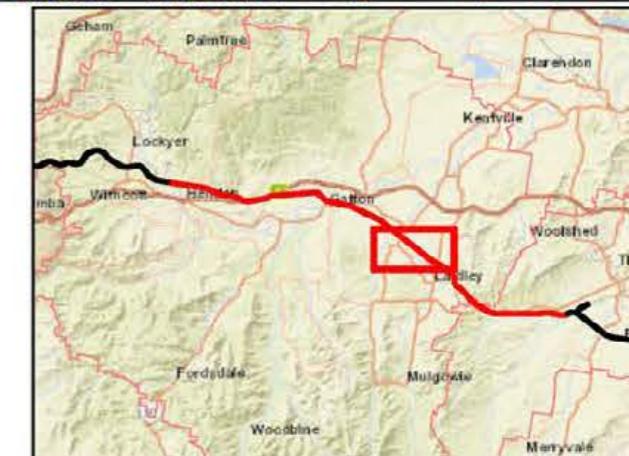
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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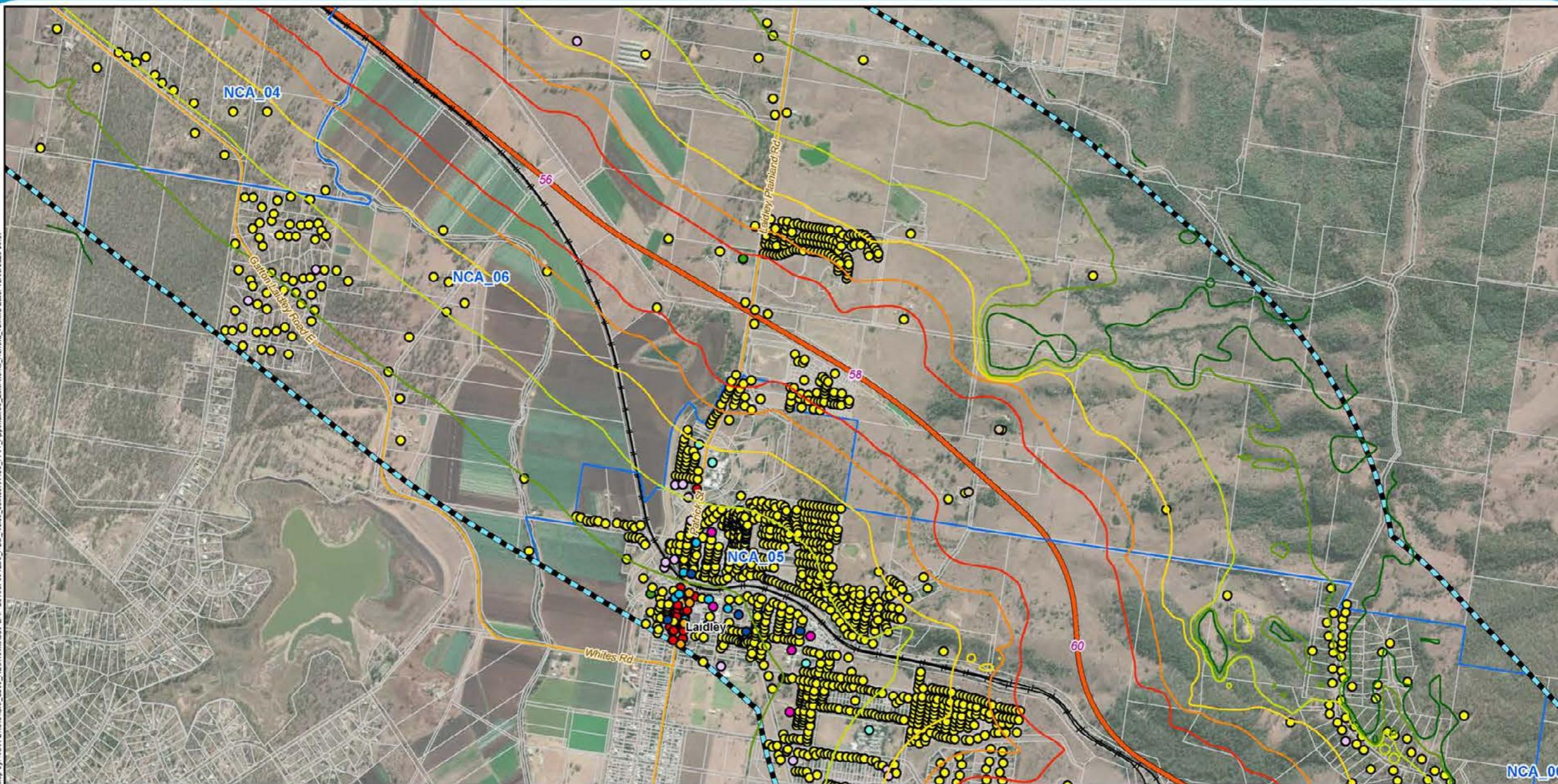
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Retail
- Heritage
- Outdoor Recreation
- Sport Facilities
- Hotel/Motel



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	55
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—	65
—	70

#### Sensitive Receptors

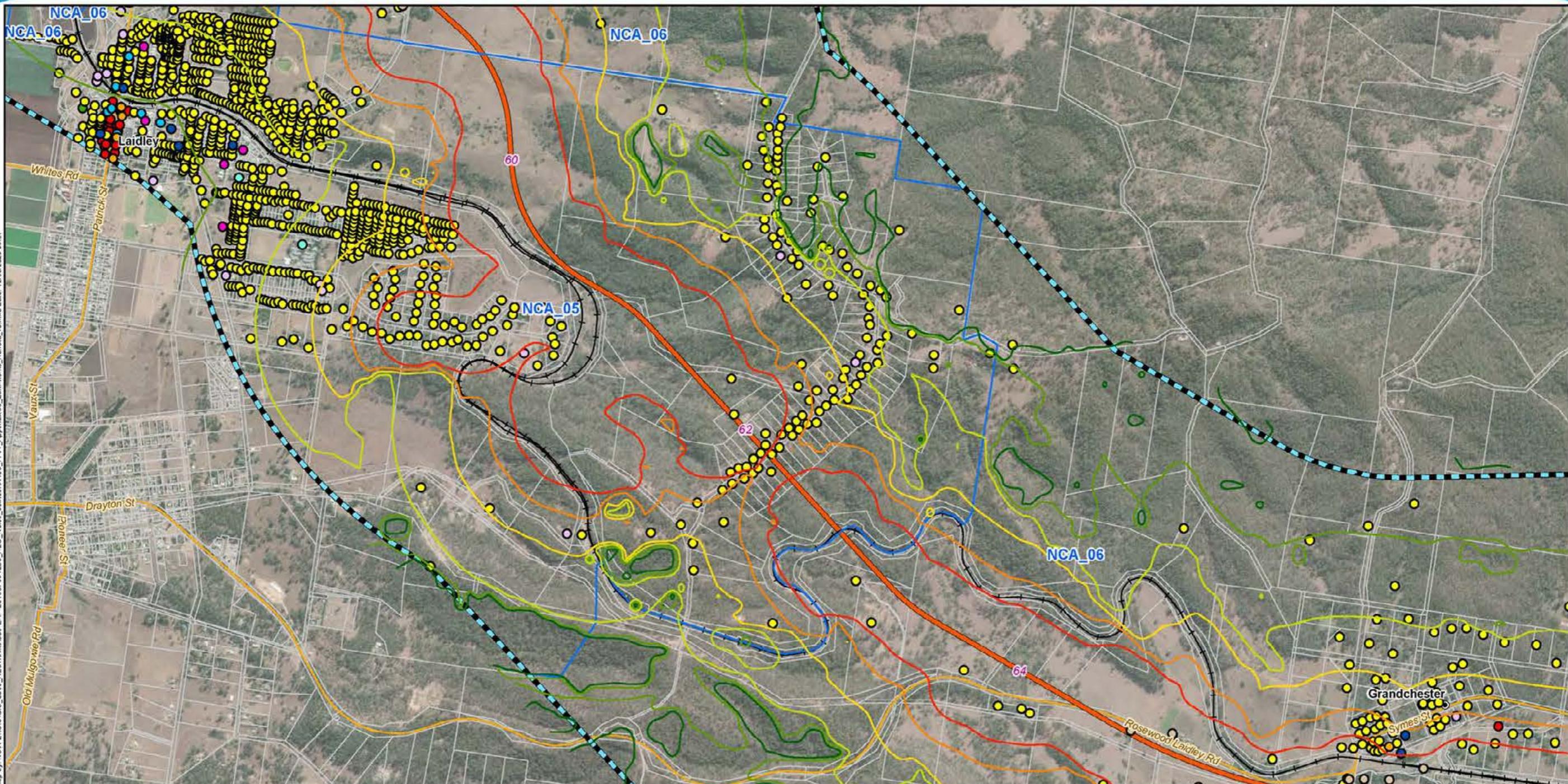
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





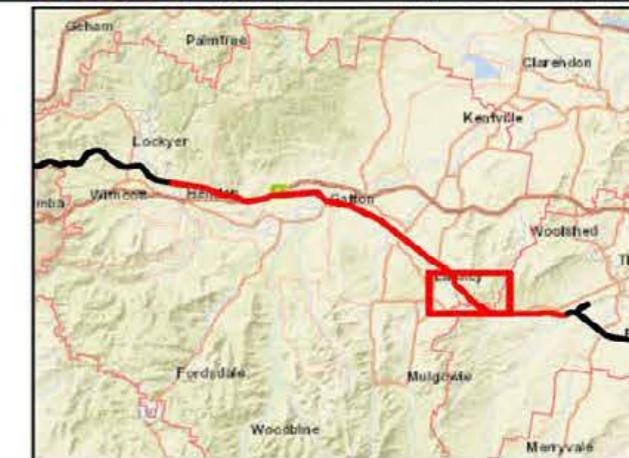
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

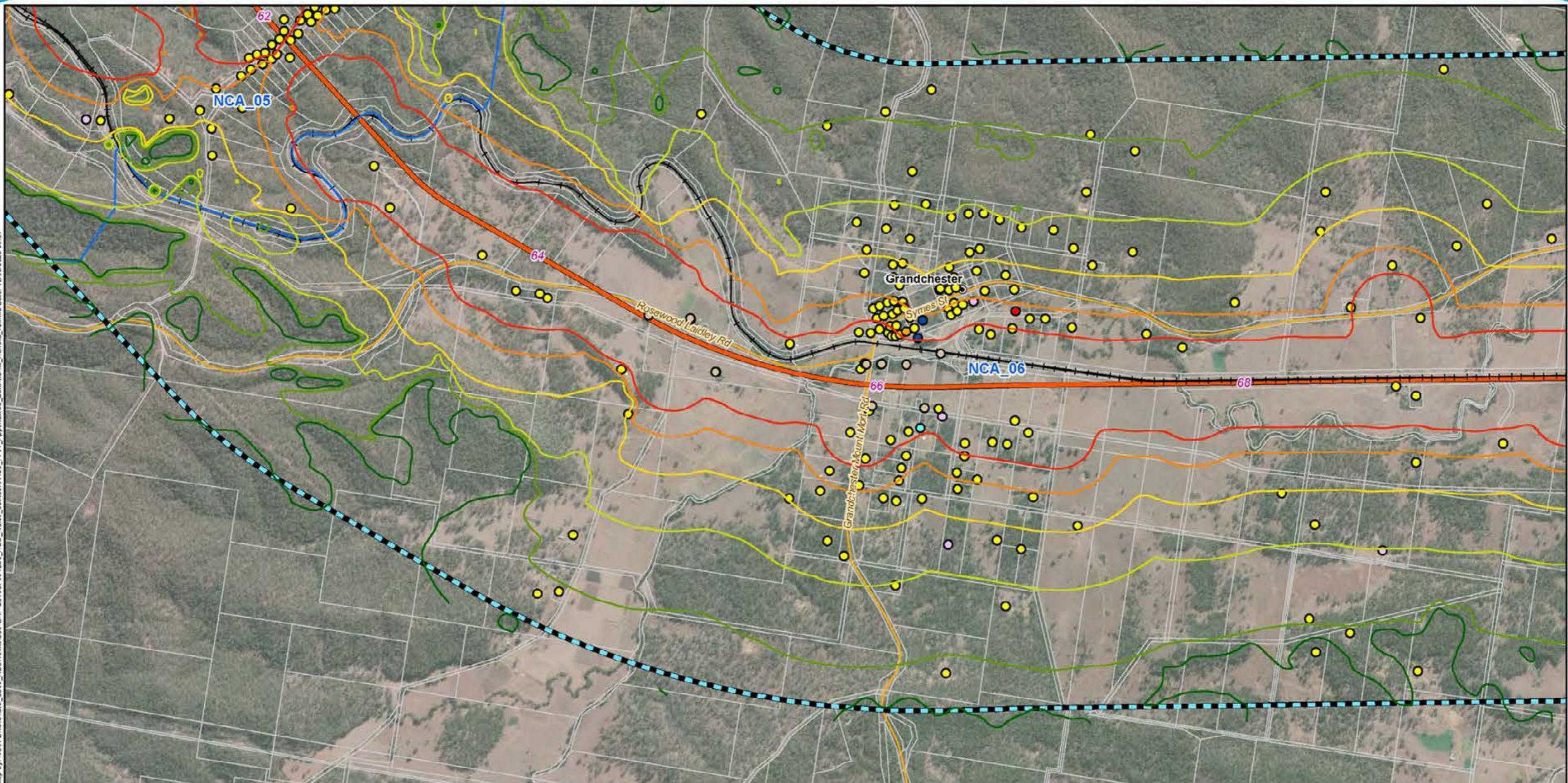
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Residential
- Hotel/Motel
- Sport Facilities
- Commercial Office



A3 scale: 1:23,000

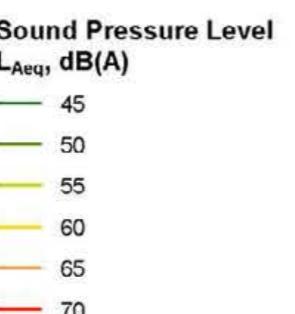
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



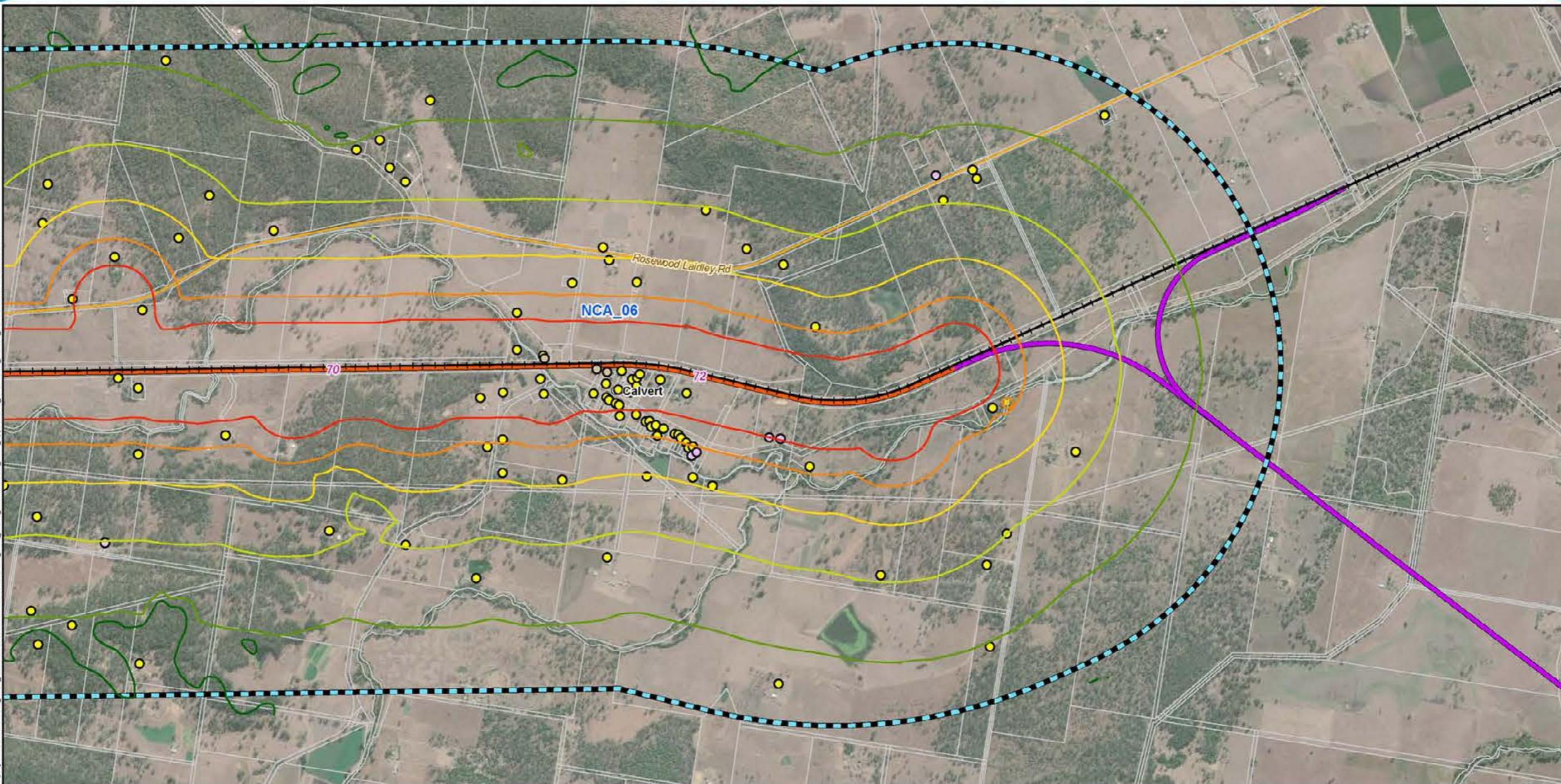
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





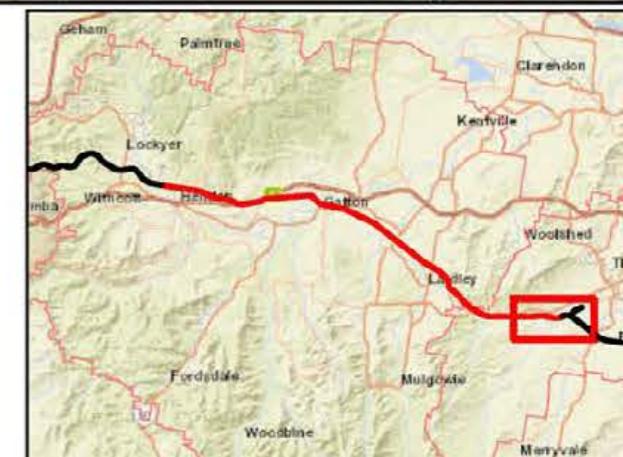
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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65	
70	

#### Sensitive Receptors

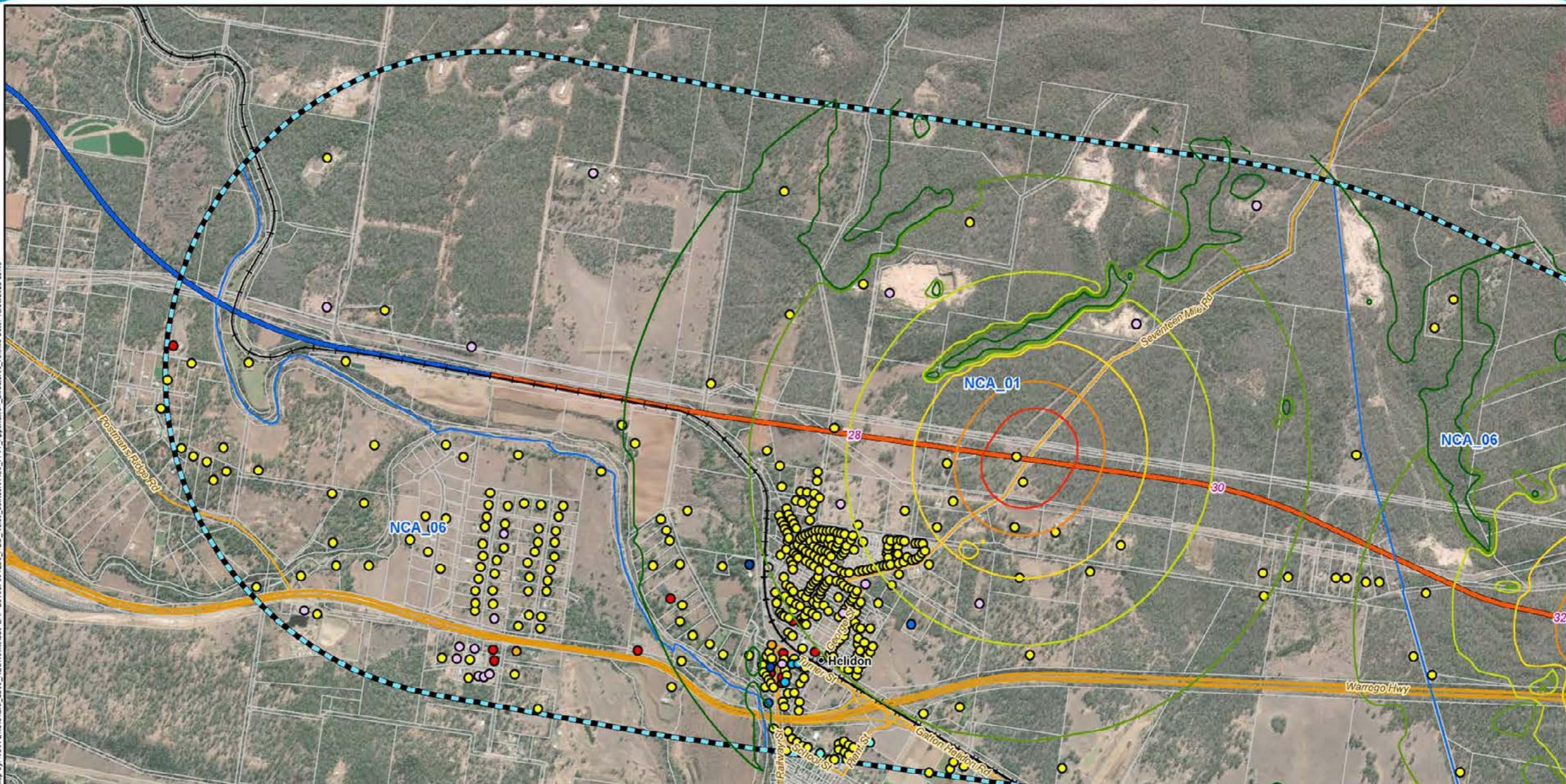
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



#### **Sensitive Receptors**

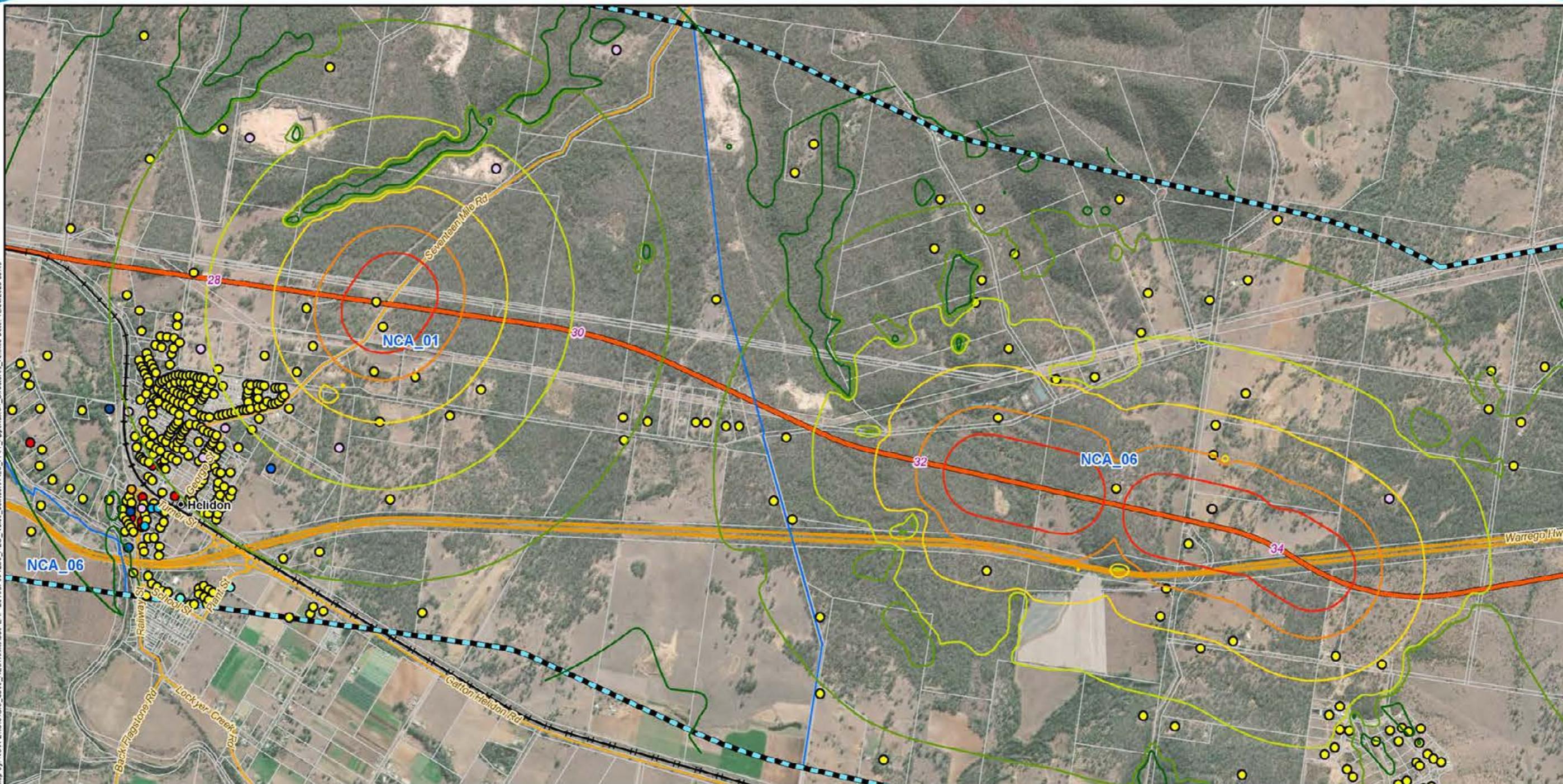
- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

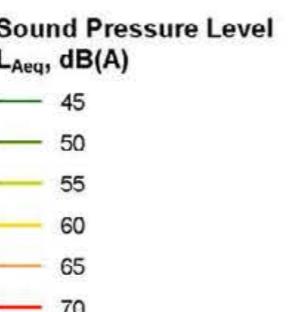
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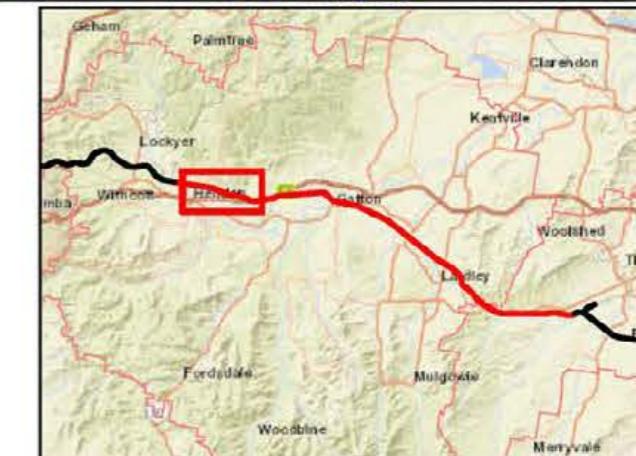


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



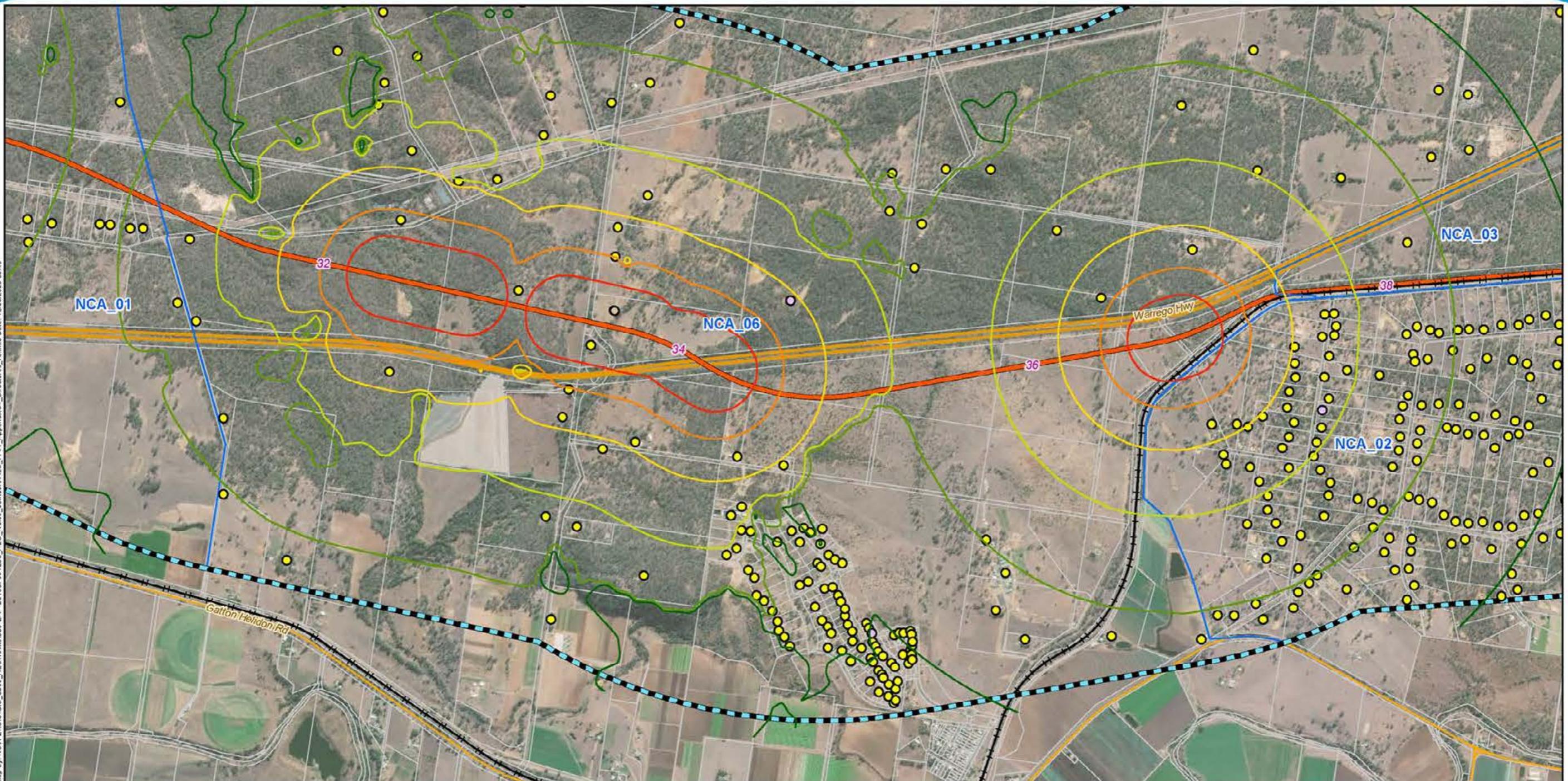
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Commercial Office
  - Heritage
  - Outdoor Recreation
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
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—	65
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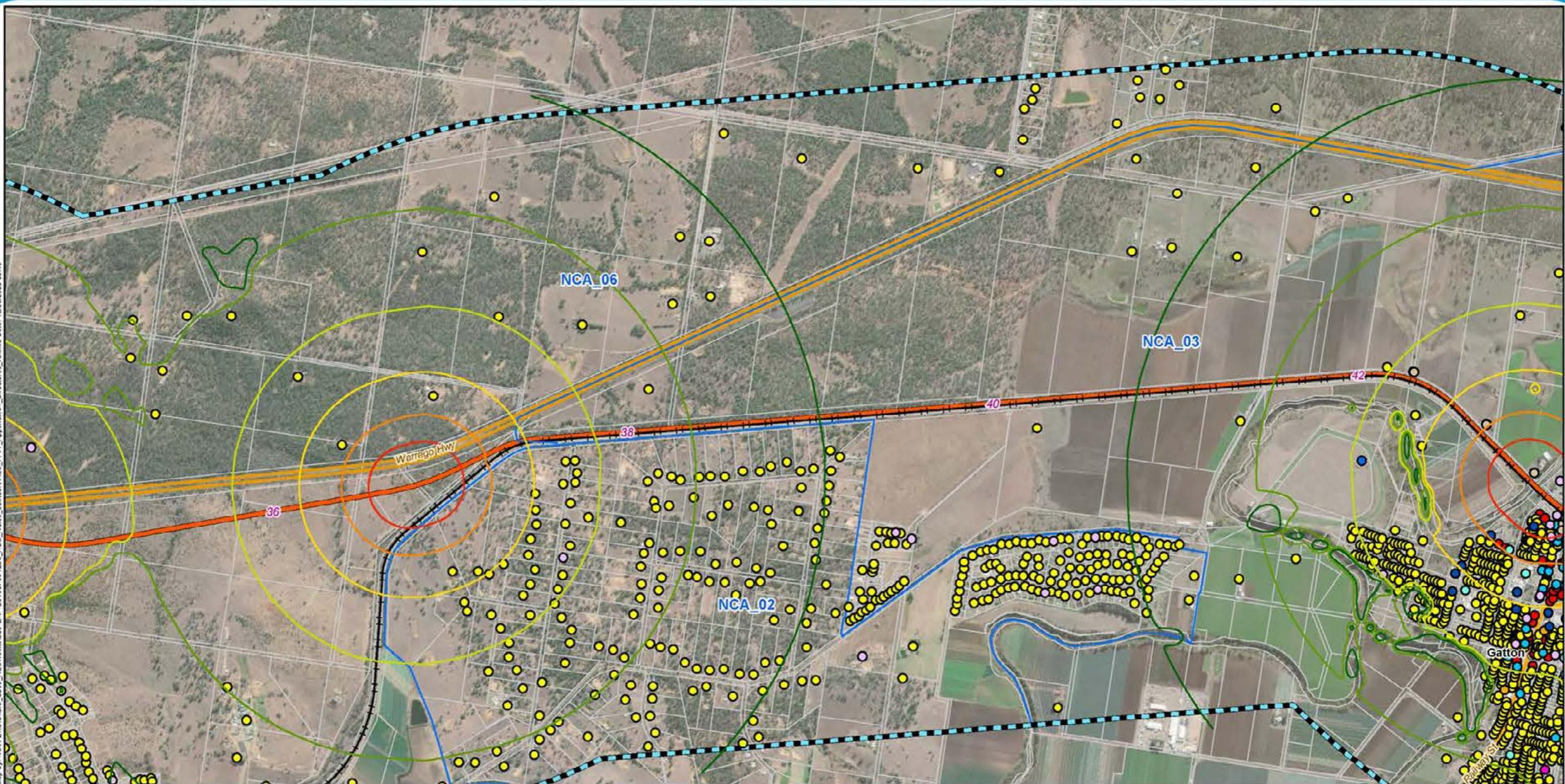
#### Sensitive Receptors

- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



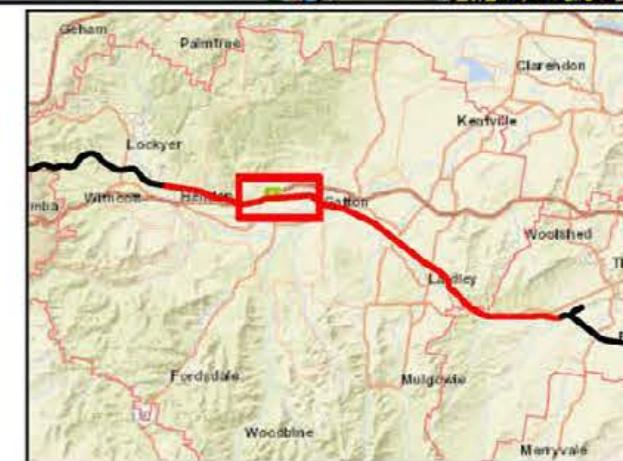
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
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- NCA
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	60
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#### Sensitive Receptors

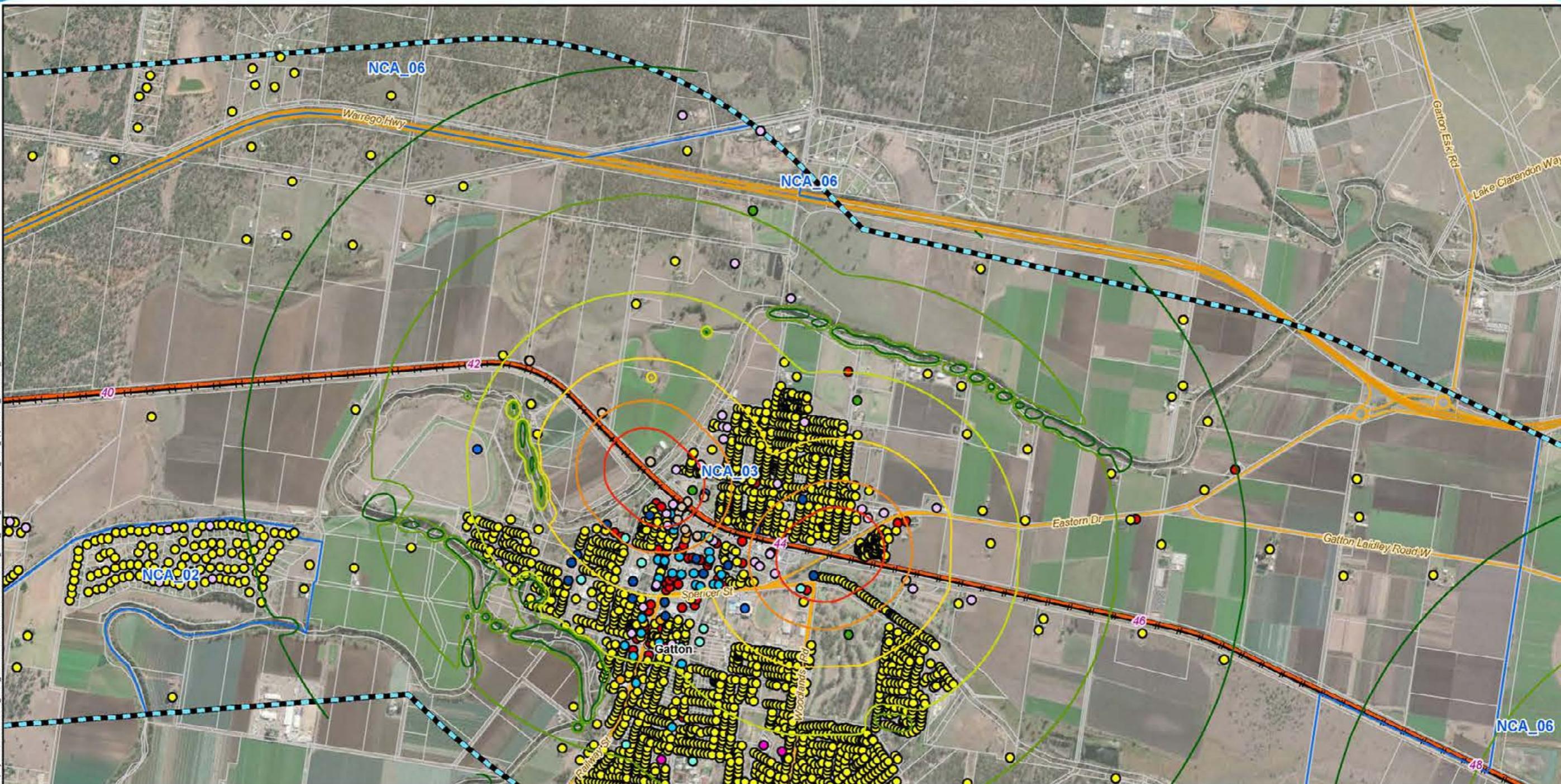
- Commercial
- Industrial
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- Heritage
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- Residential
- Commercial Office
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





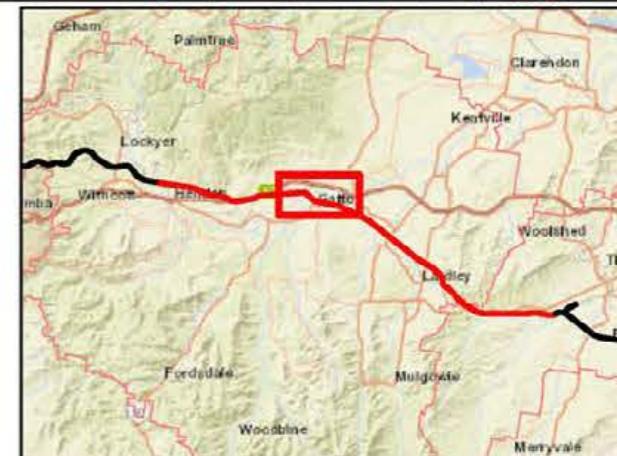
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

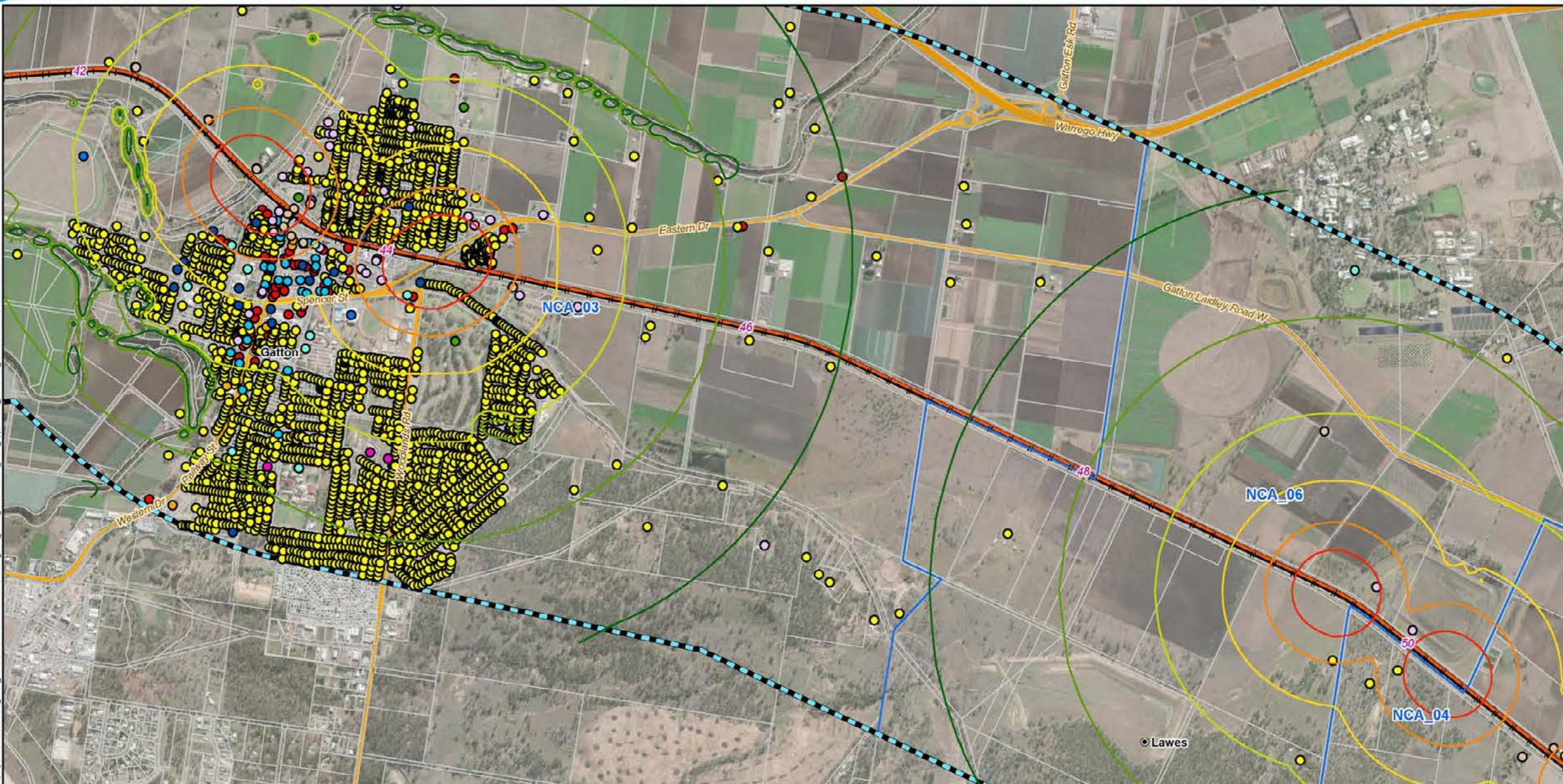
- Commercial
- Industrial
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- Commercial Office
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- Residential
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- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





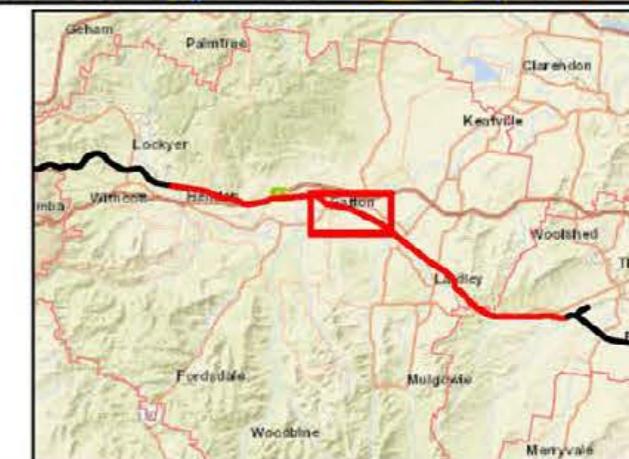
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
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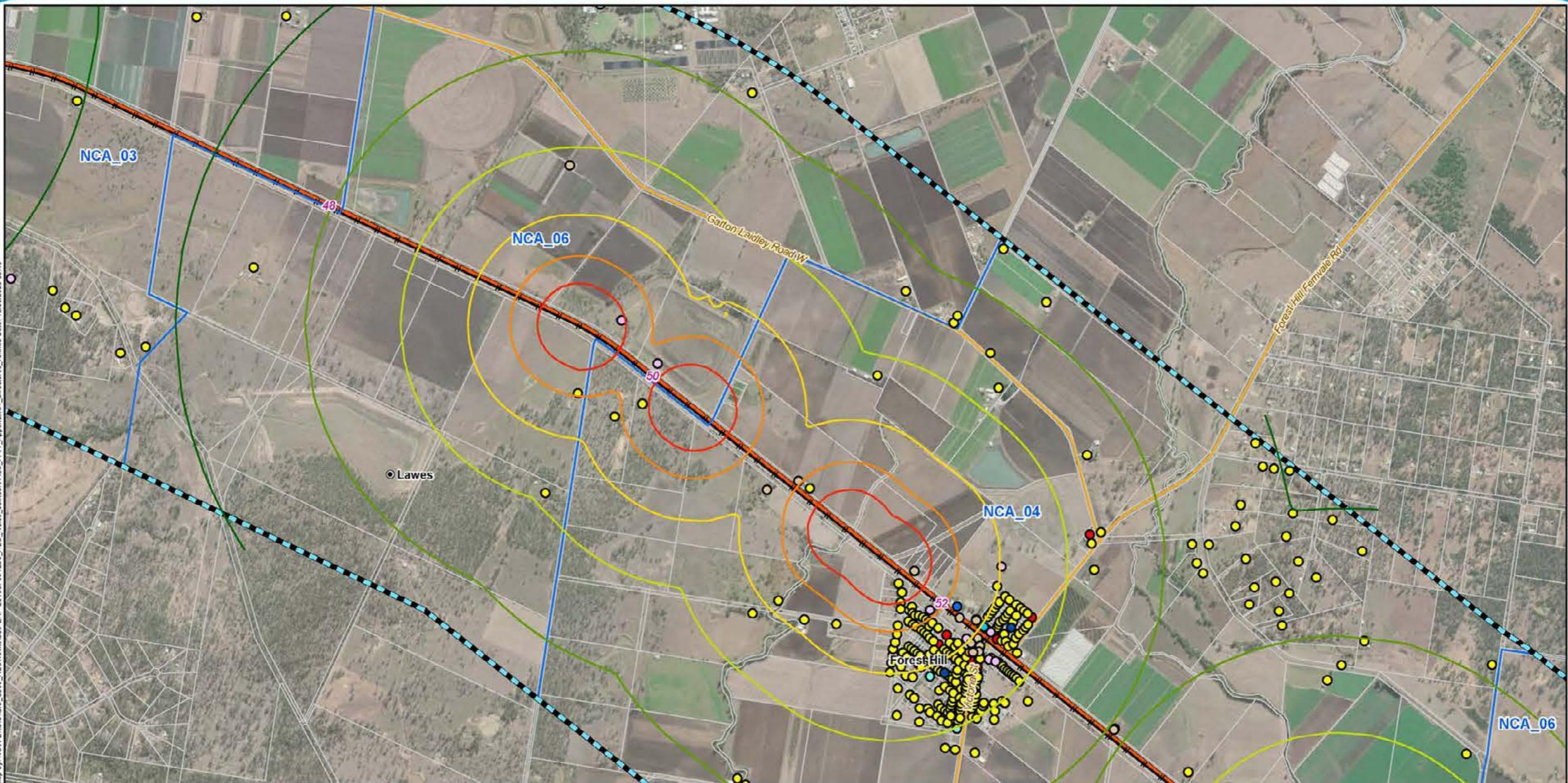
- Commercial
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0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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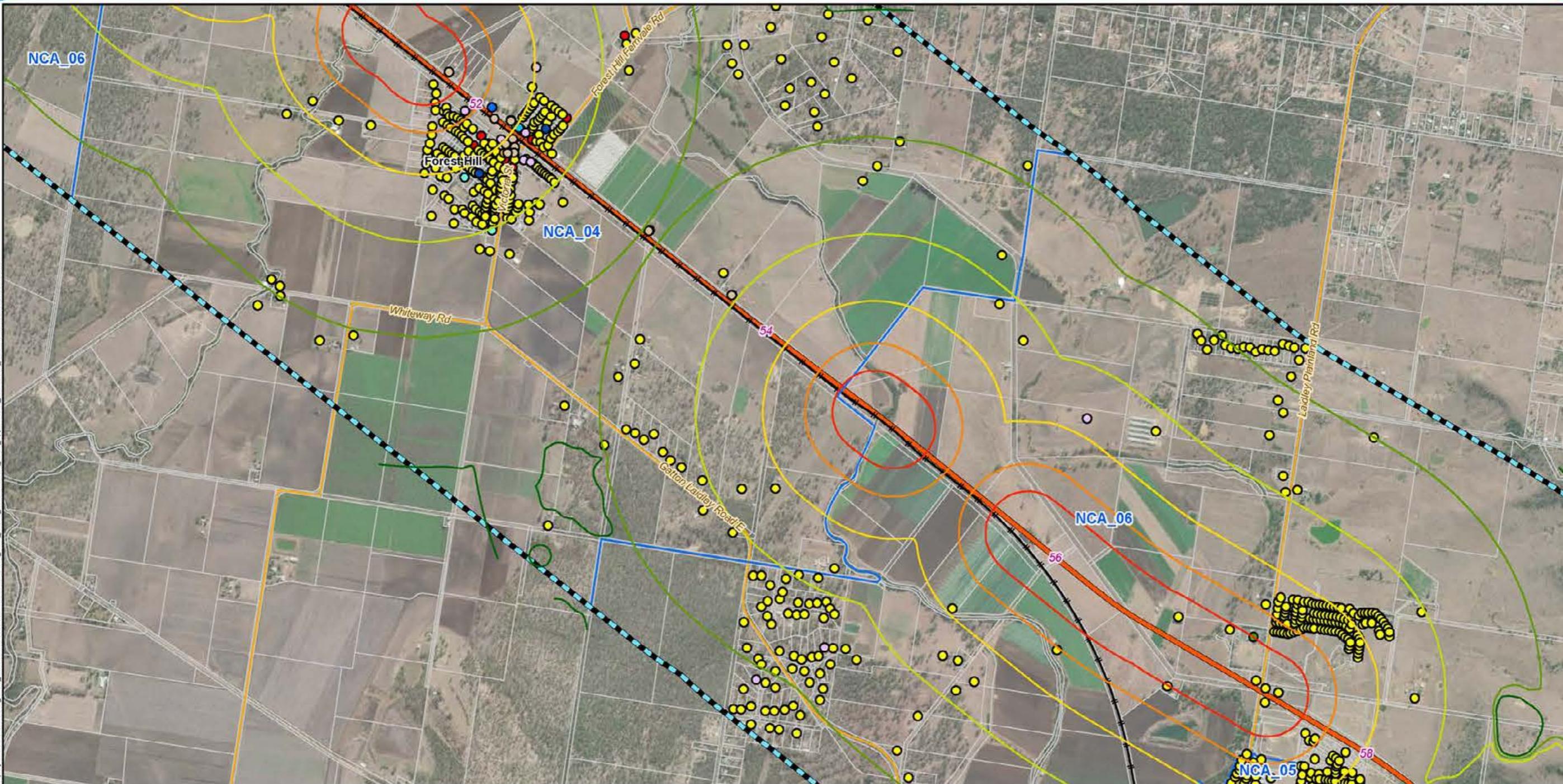
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Outdoor Recreation
- Heritage
- Hotel/Motel
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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- NCA
- Noise and vibration study area

**Sound Pressure Level**  
 $L_{Aeq}$ , dB(A)

45
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**Sensitive Receptors**

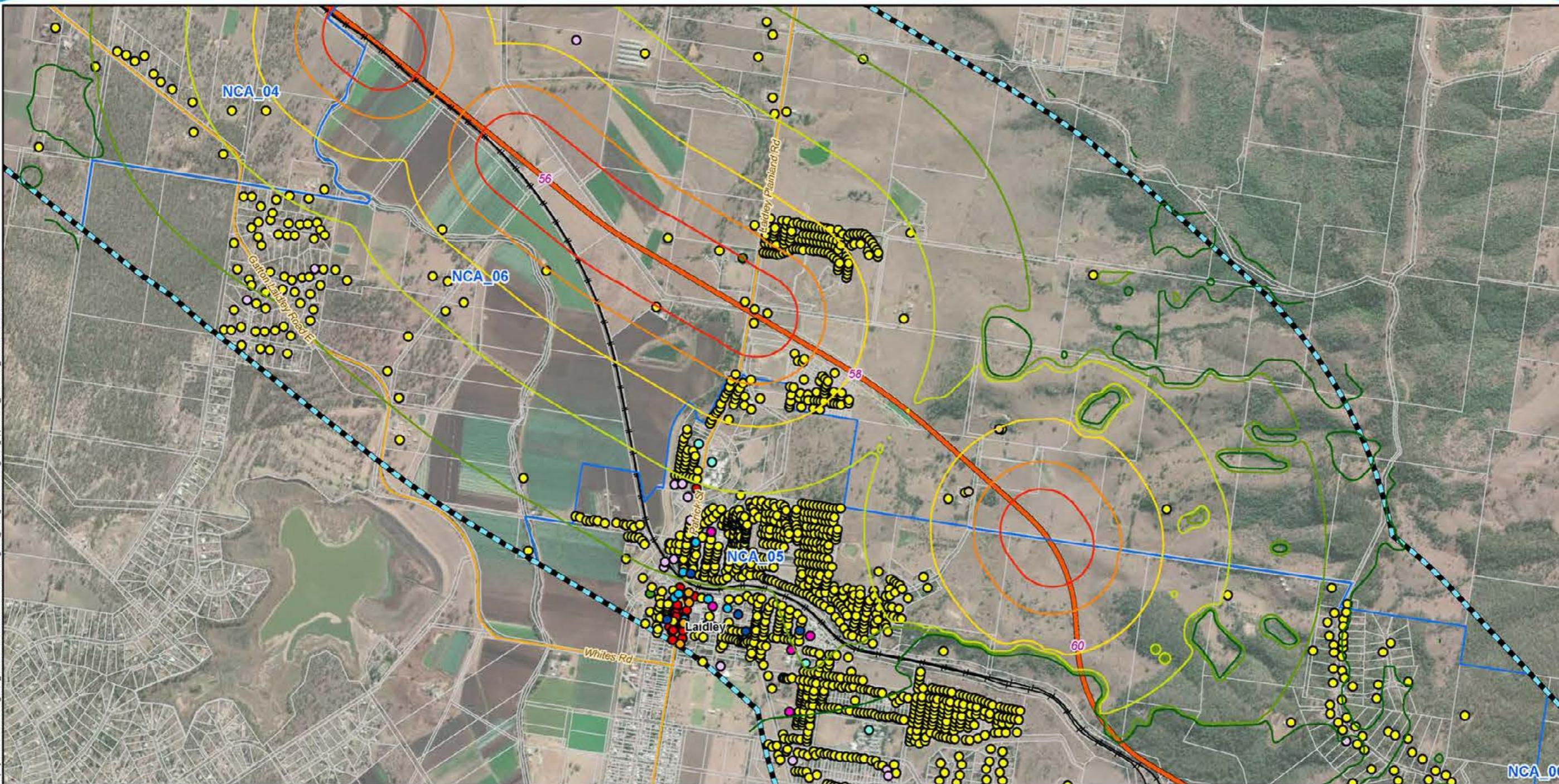
- Commercial
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- Outdoor Recreation
- Residential
- Retail
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

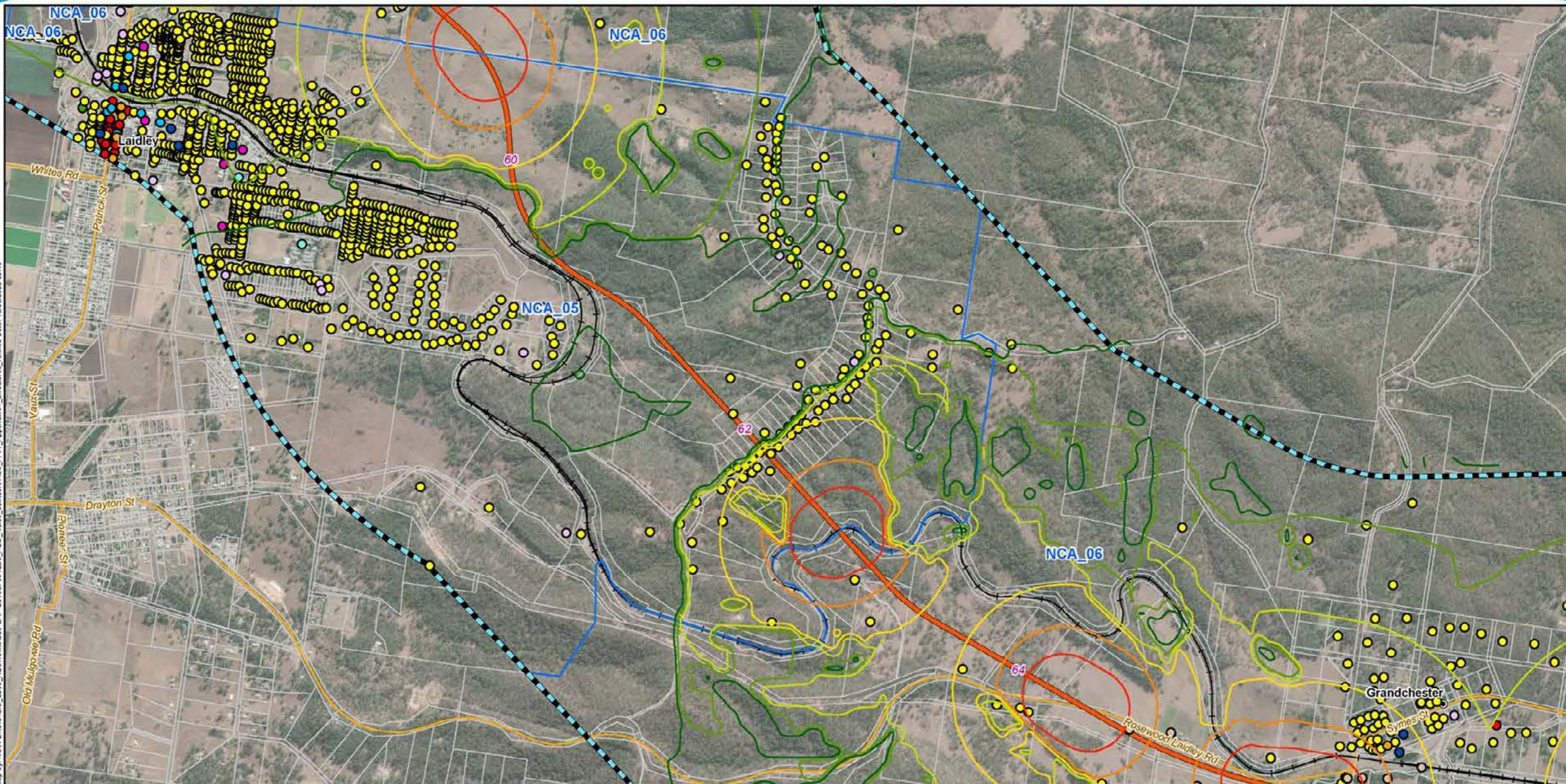
- Commercial
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- Hotel/Motel
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- Retail
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





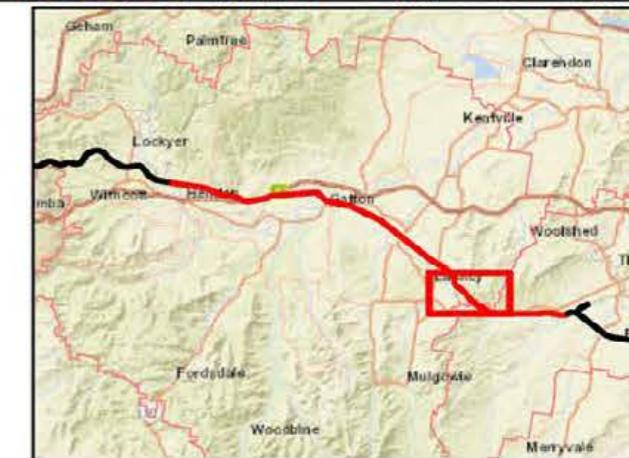
#### Legend

- 5 Chainage (km)
- Localities
- + Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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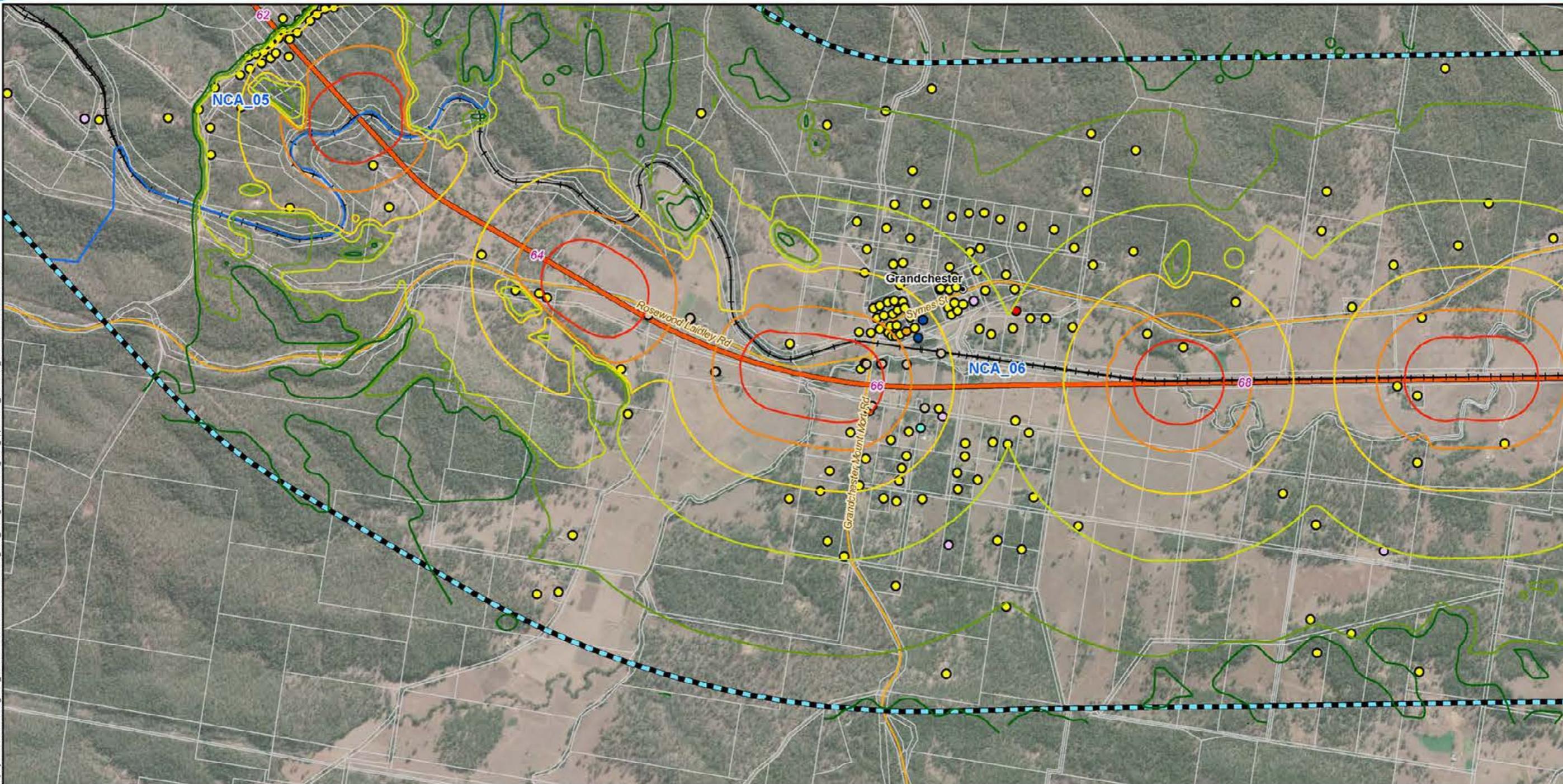
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Residential
- Hotel/Motel
- Sport Facilities
- Commercial Office



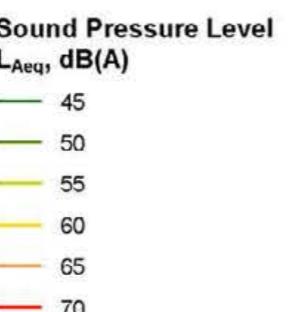
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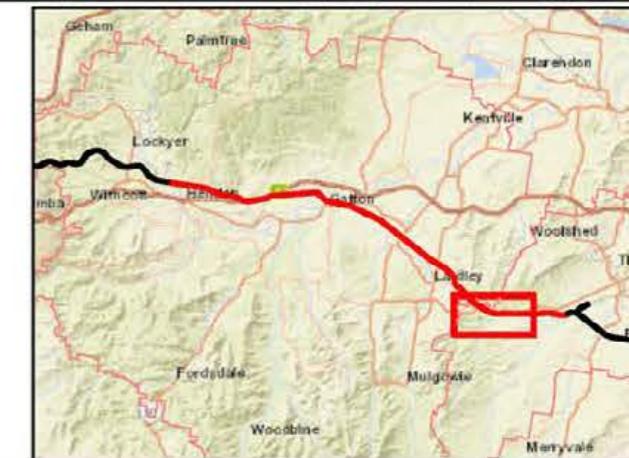


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

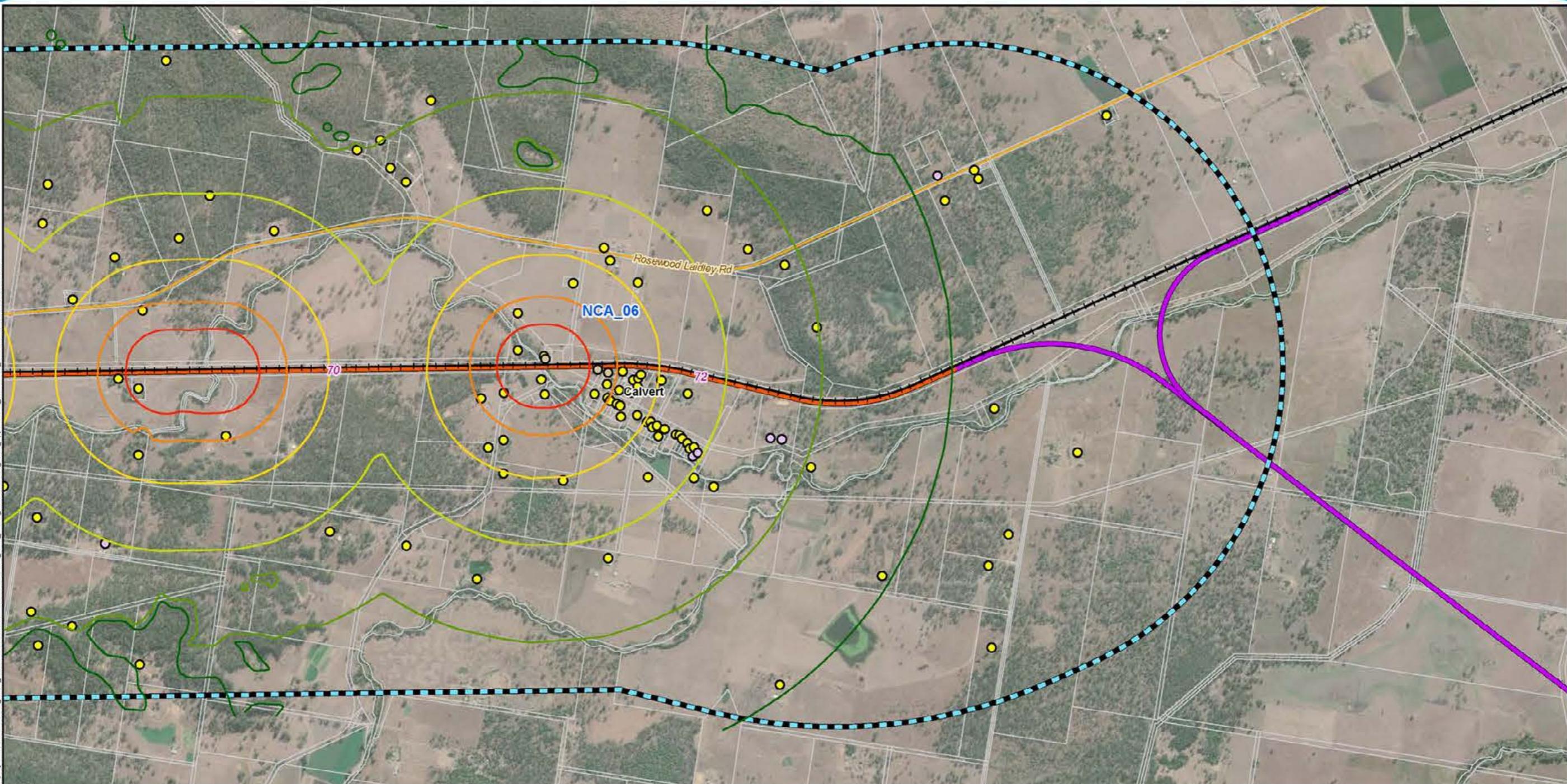


- Sensitive Receptors**
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  - Education
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  - Hotel/Motel
  - Industrial
  - Residential
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



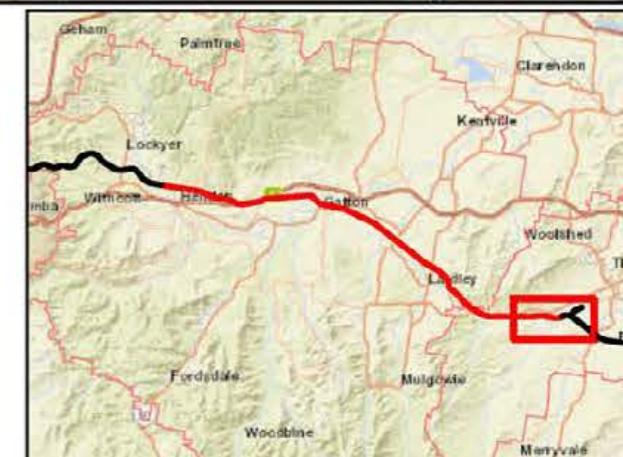
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

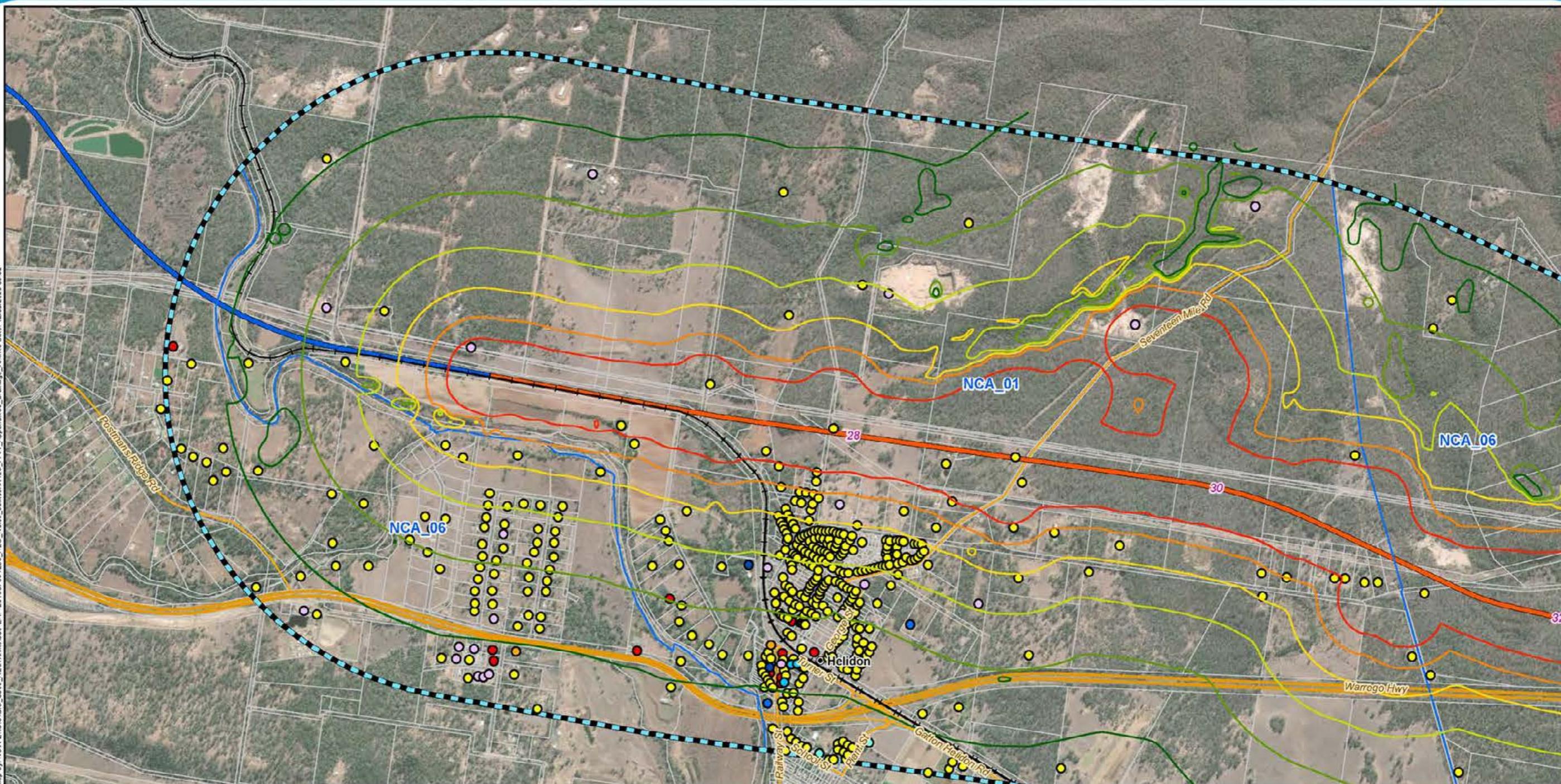
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

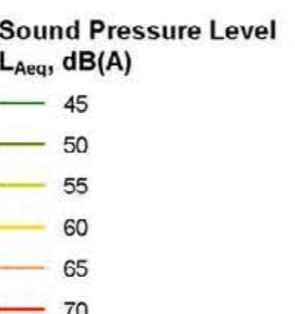
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



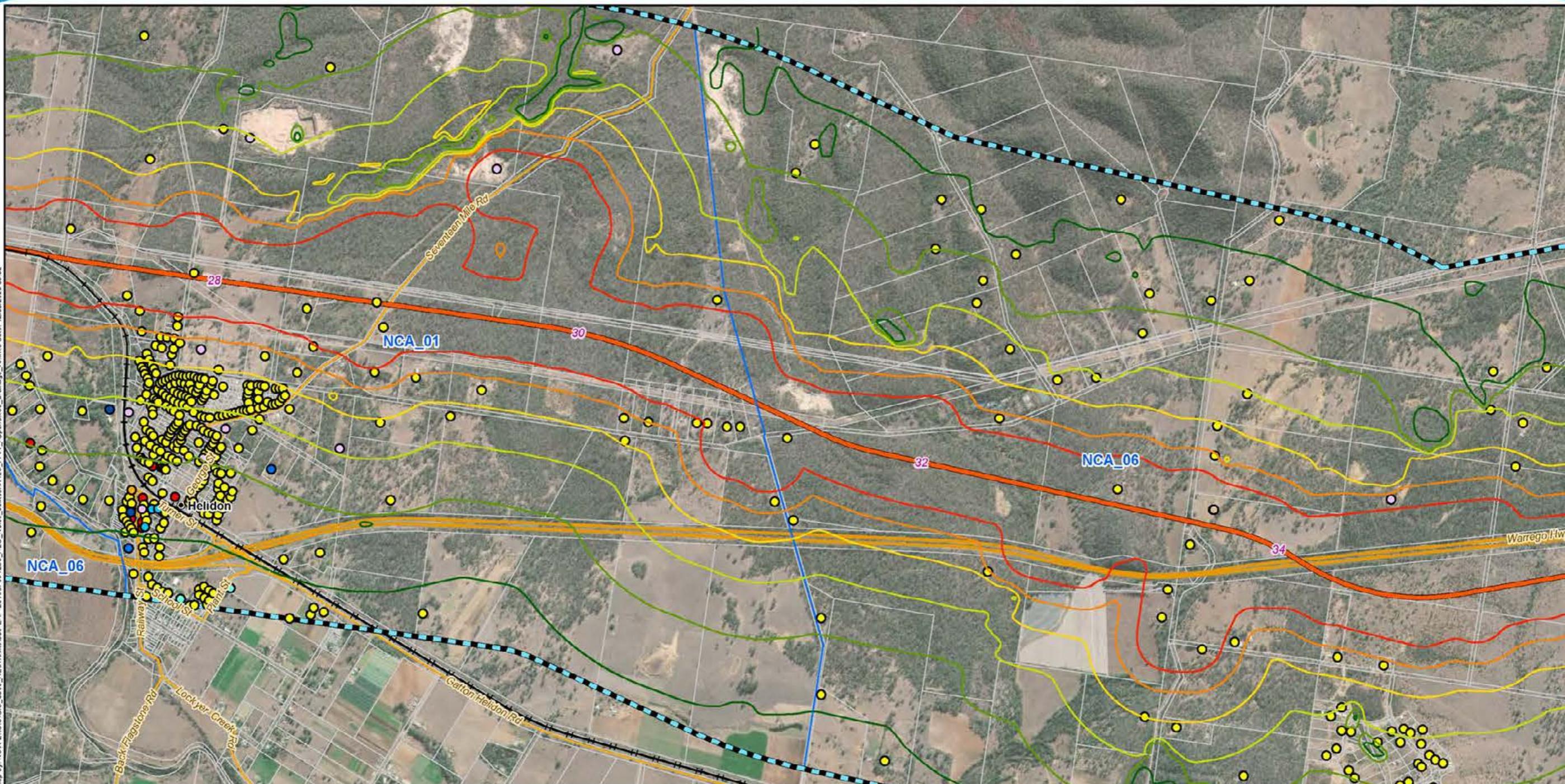
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
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—	55
—	60
—	65
—	70

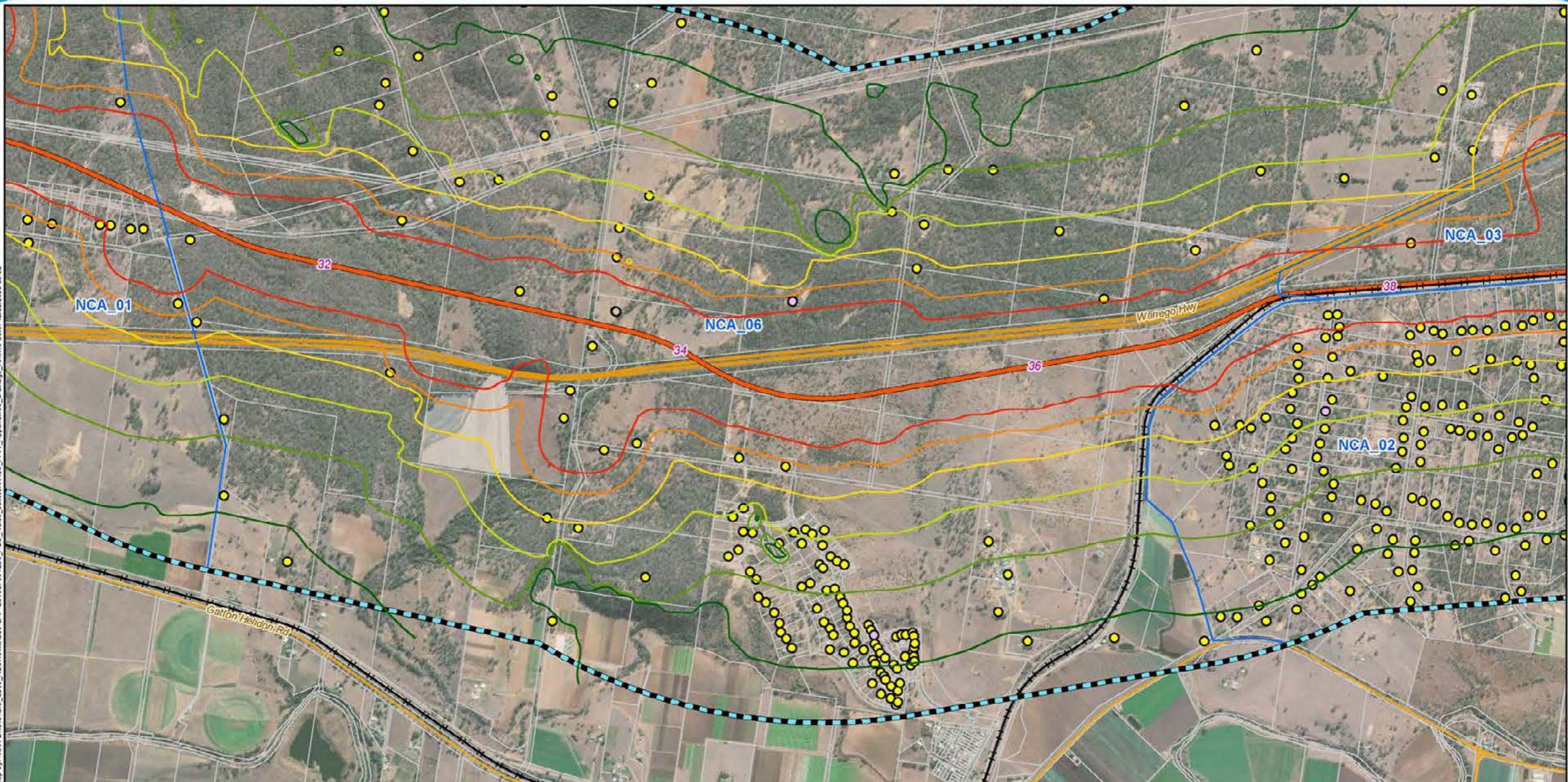
#### Sensitive Receptors

- Commercial
- Education
- Heritage
- Hotel/Motel
- Industrial
- Commercial Office
- Outdoor Recreation
- Residential
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
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- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
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—	65
—	70

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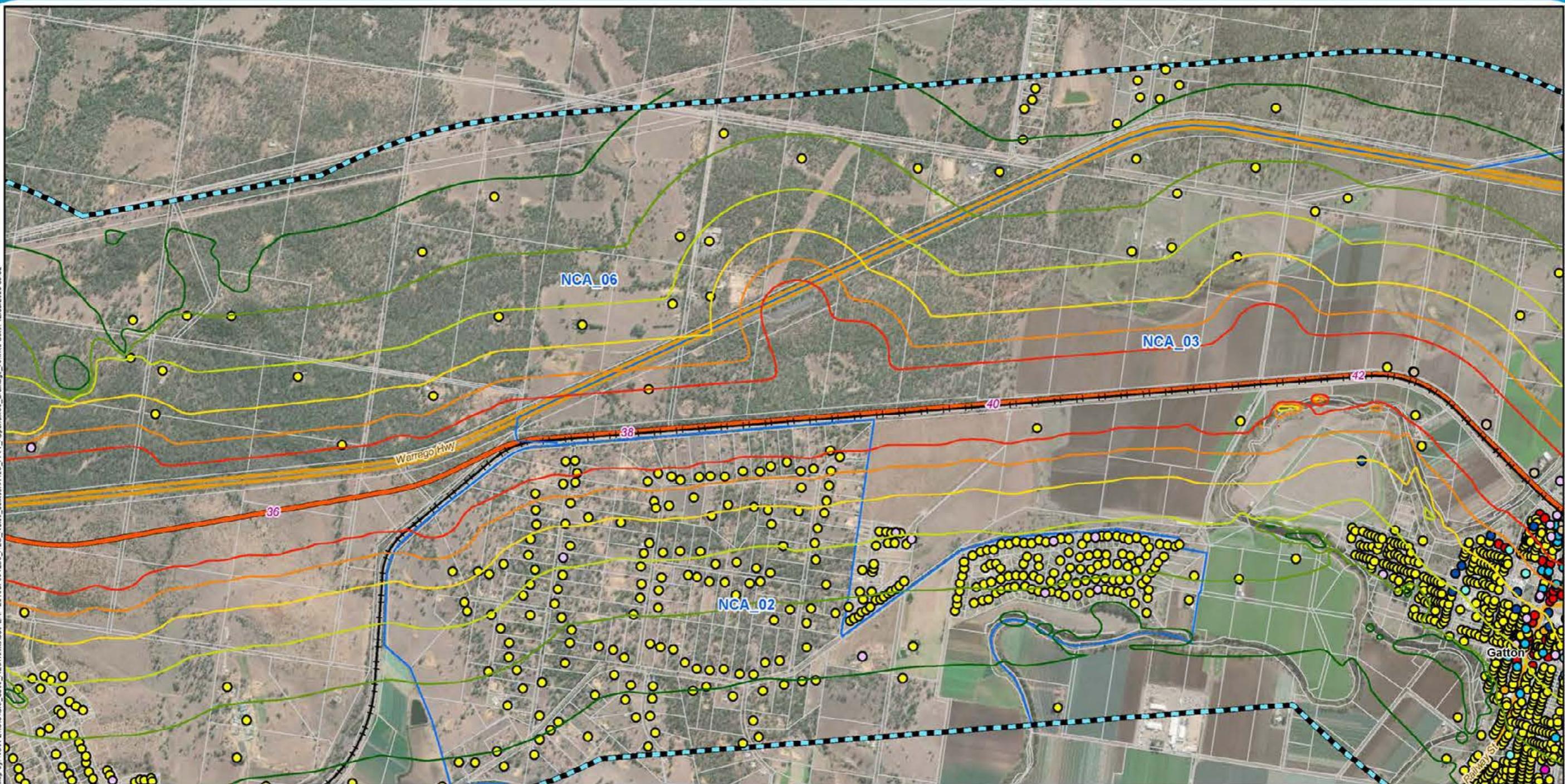
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- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





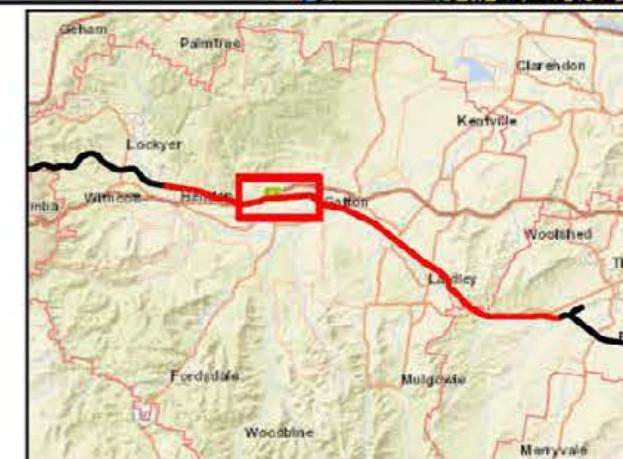
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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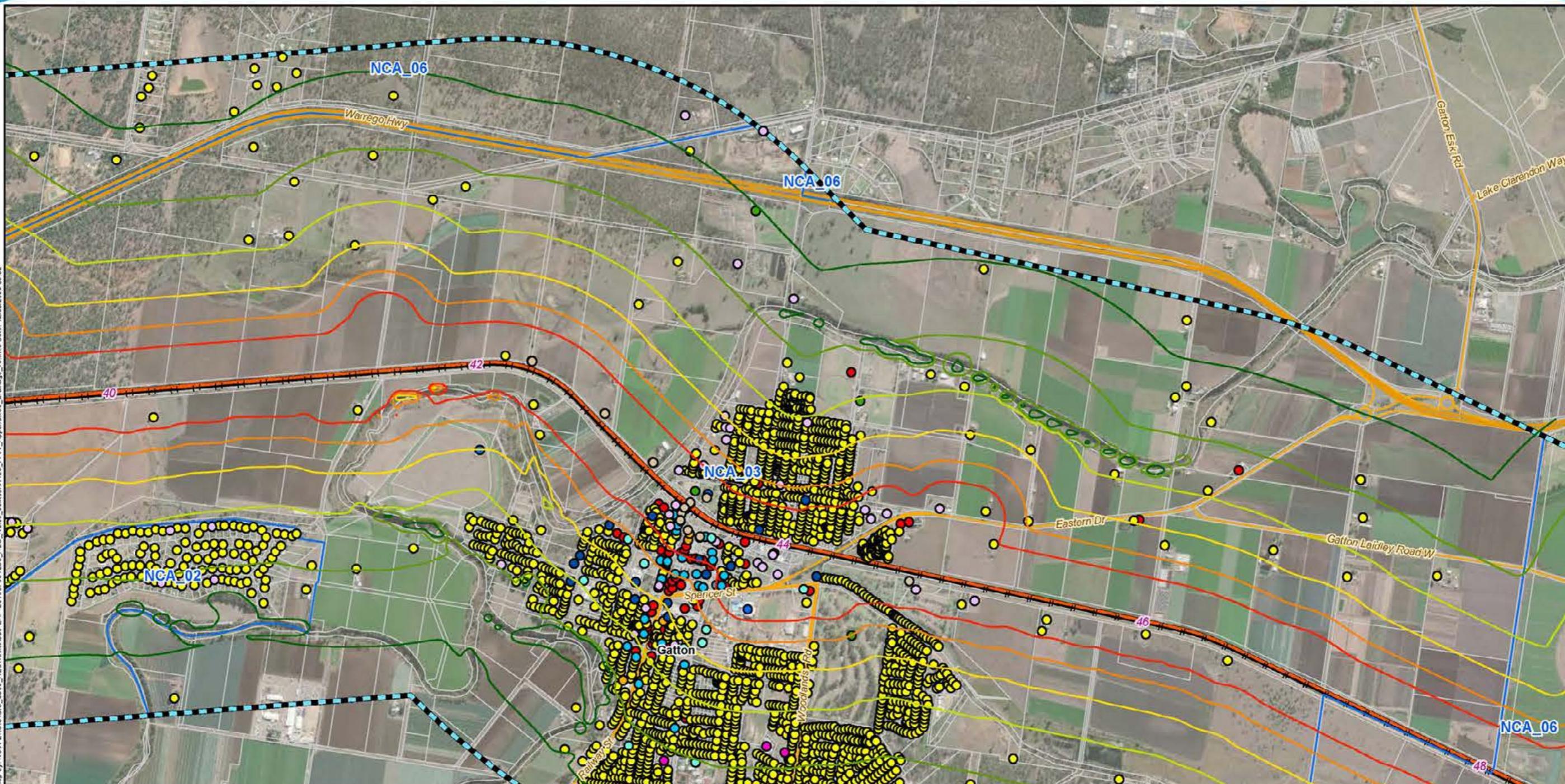
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





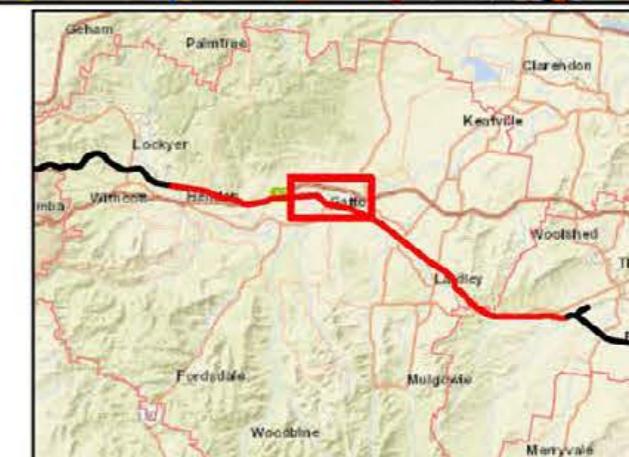
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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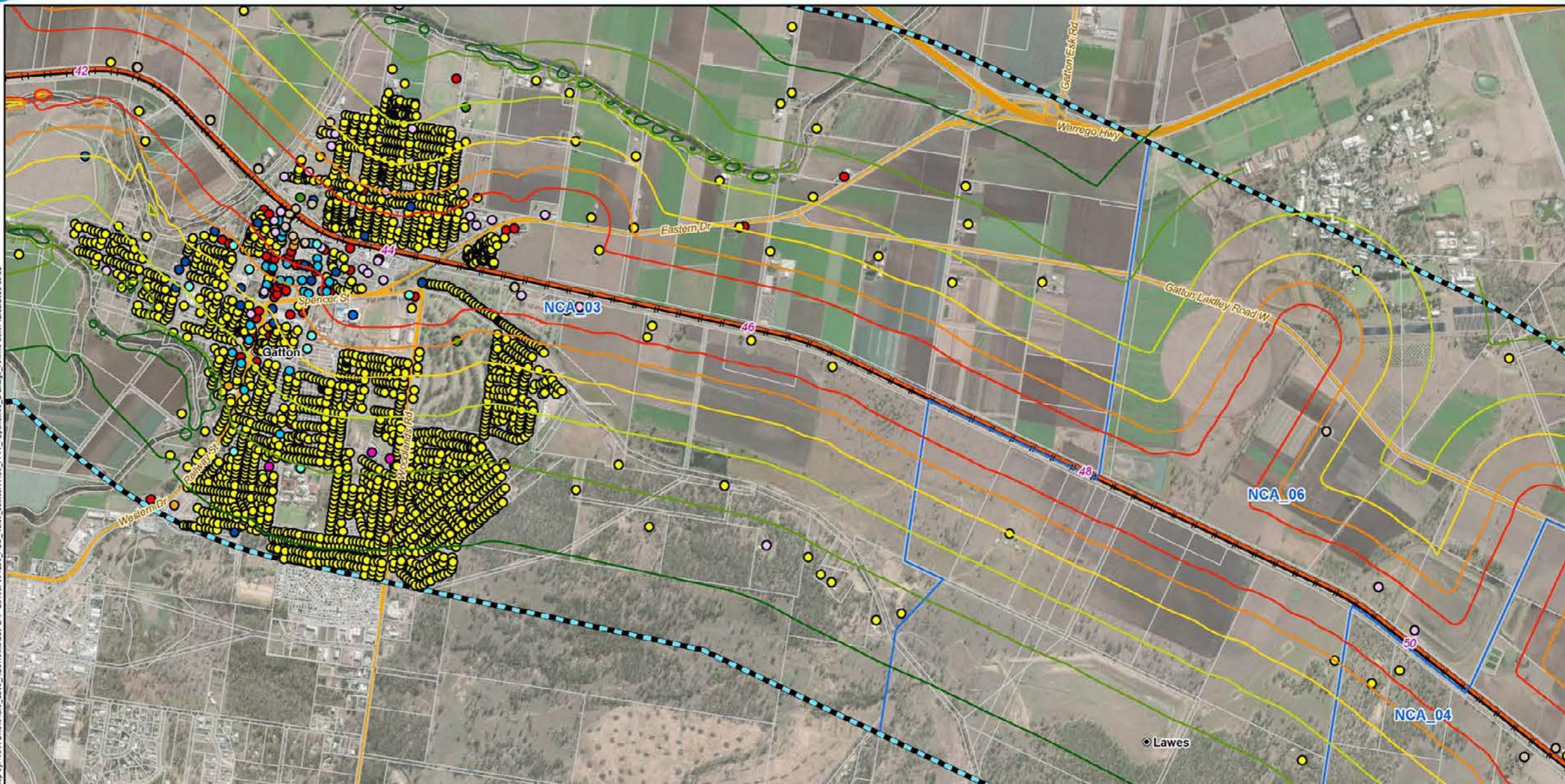
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





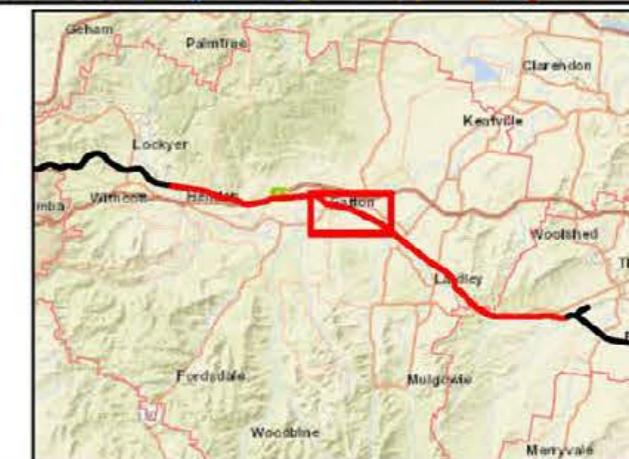
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



#### Sensitive Receptors

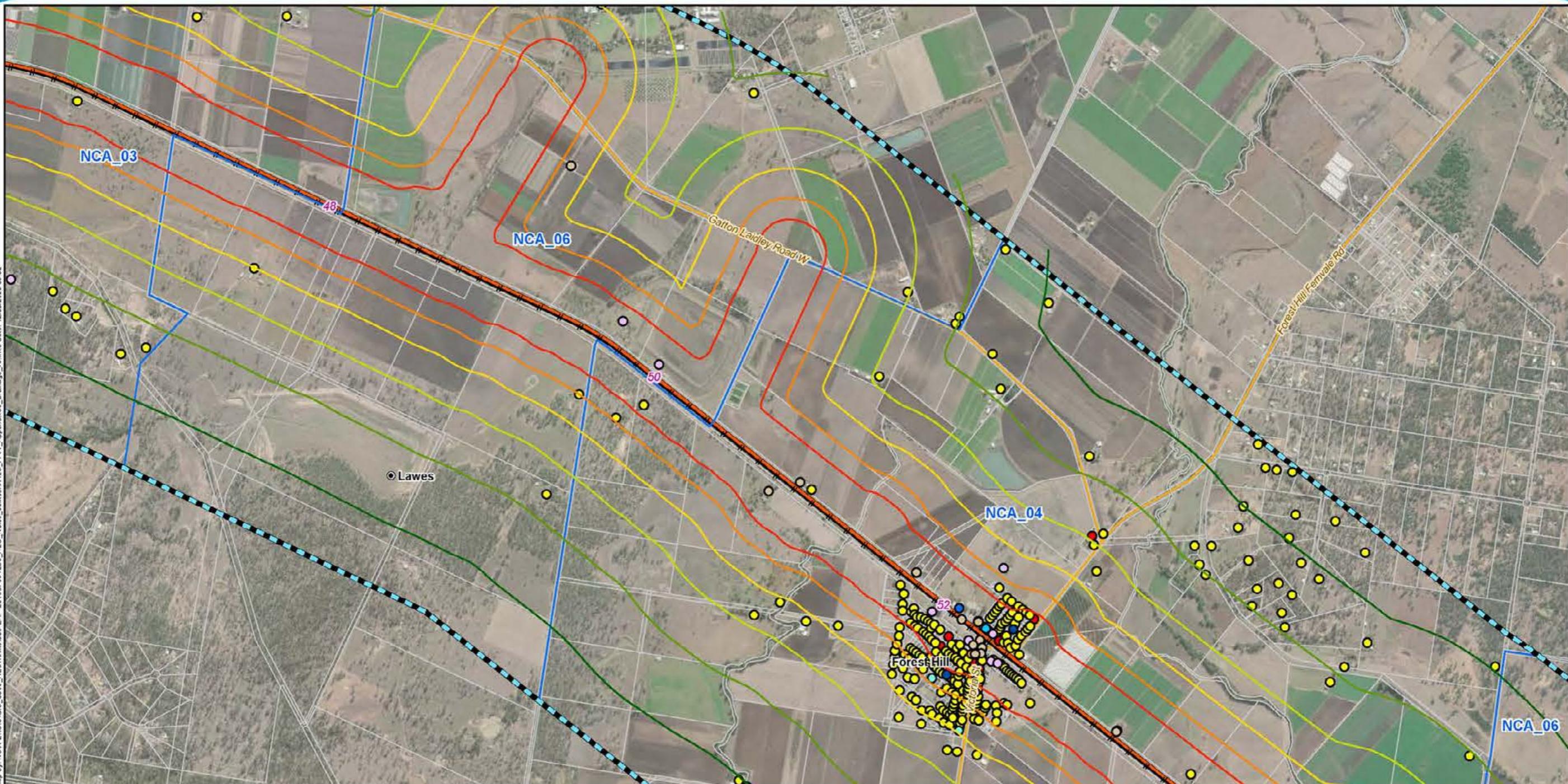
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

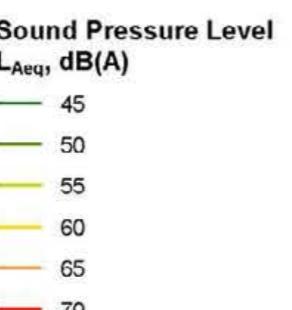
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



#### Sensitive Receptors

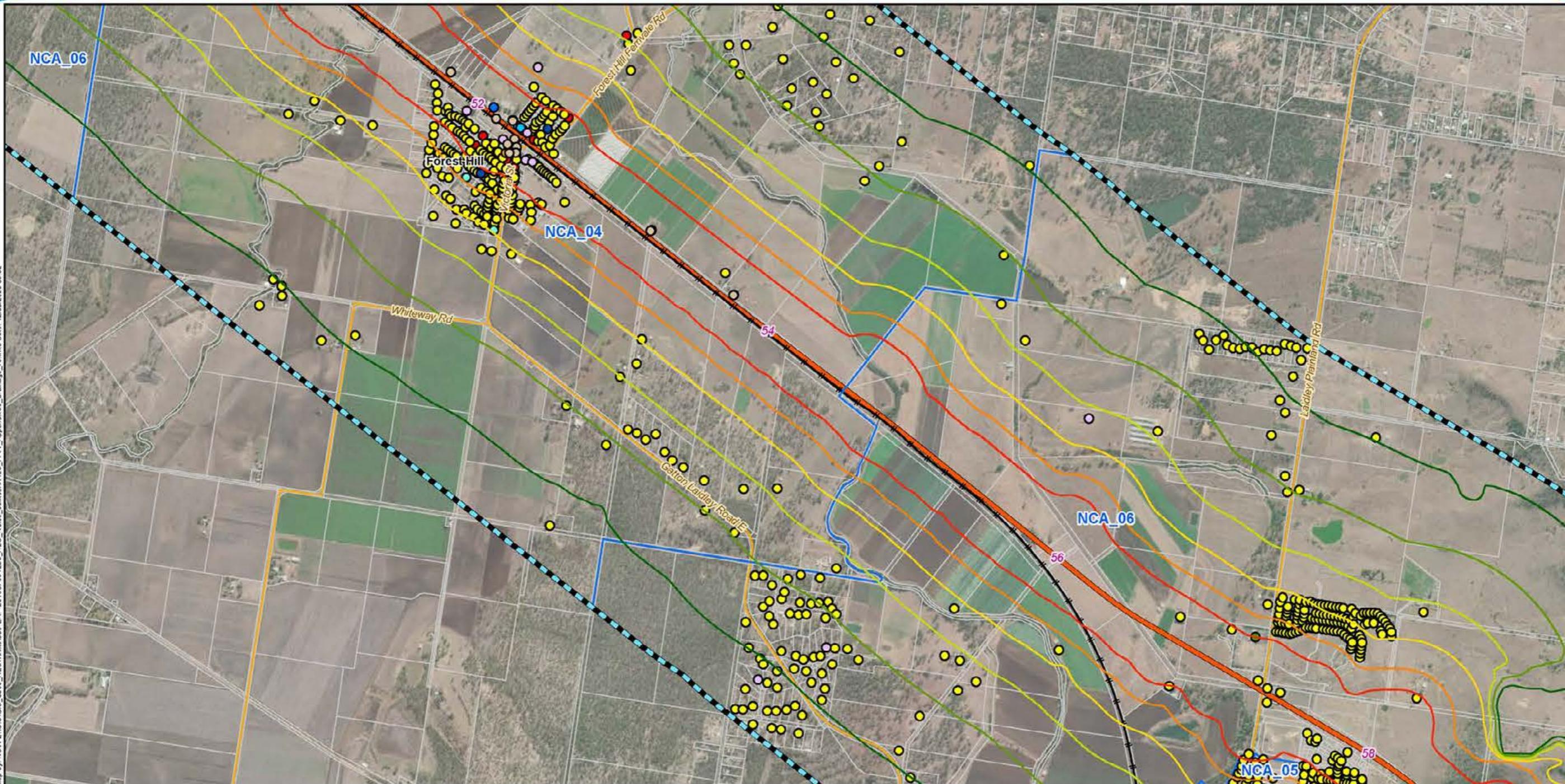
- Commercial
- Industrial
- Education
- Residential
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

**Sound Pressure Level**  
 $L_{Aeq}$ , dB(A)

45
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60
65
70

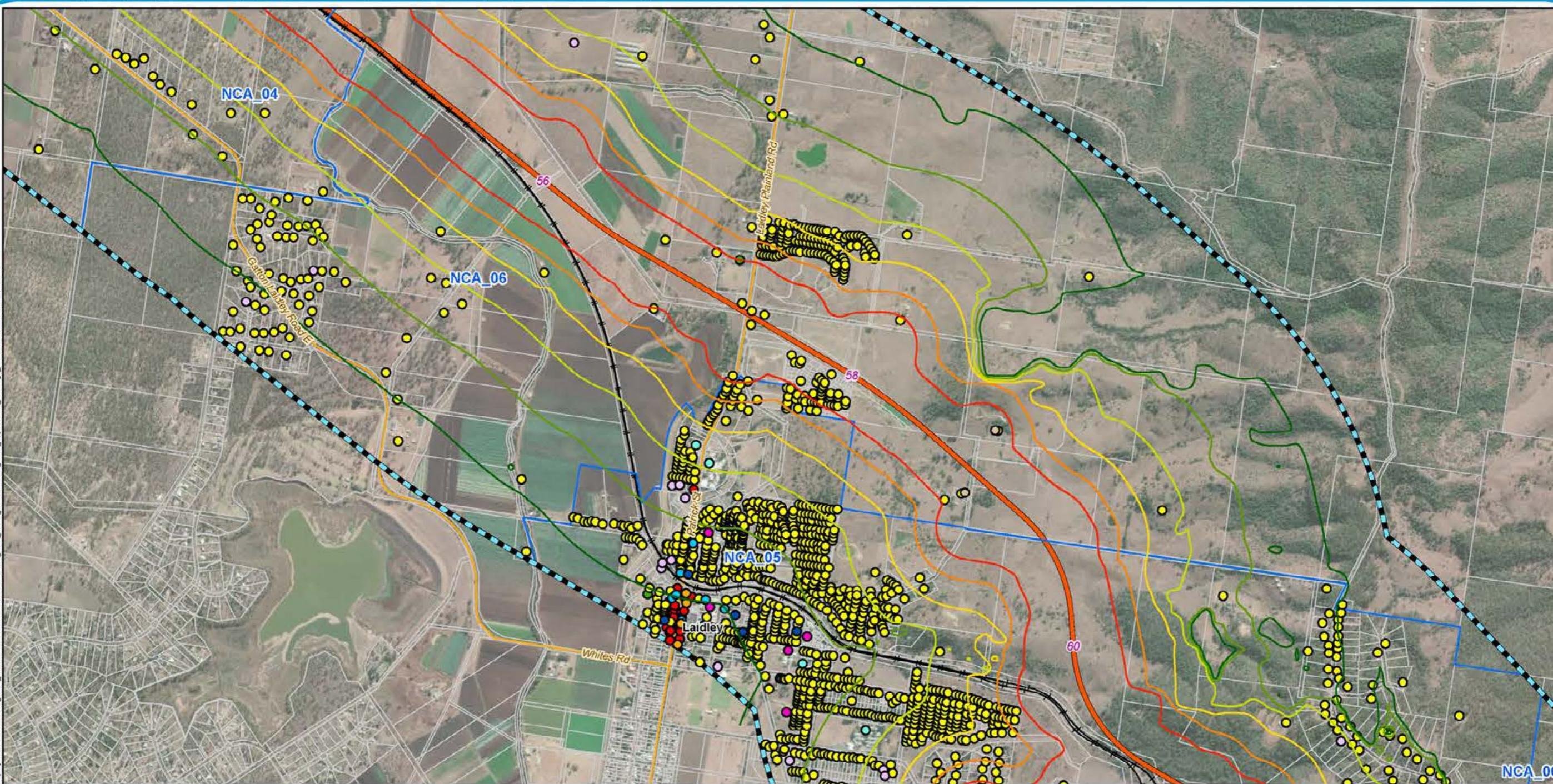
**Sensitive Receptors**

- Commercial
- Education
- Heritage
- Hotel/Motel
- Industrial
- Commercial Office
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

#### Sensitive Receptors

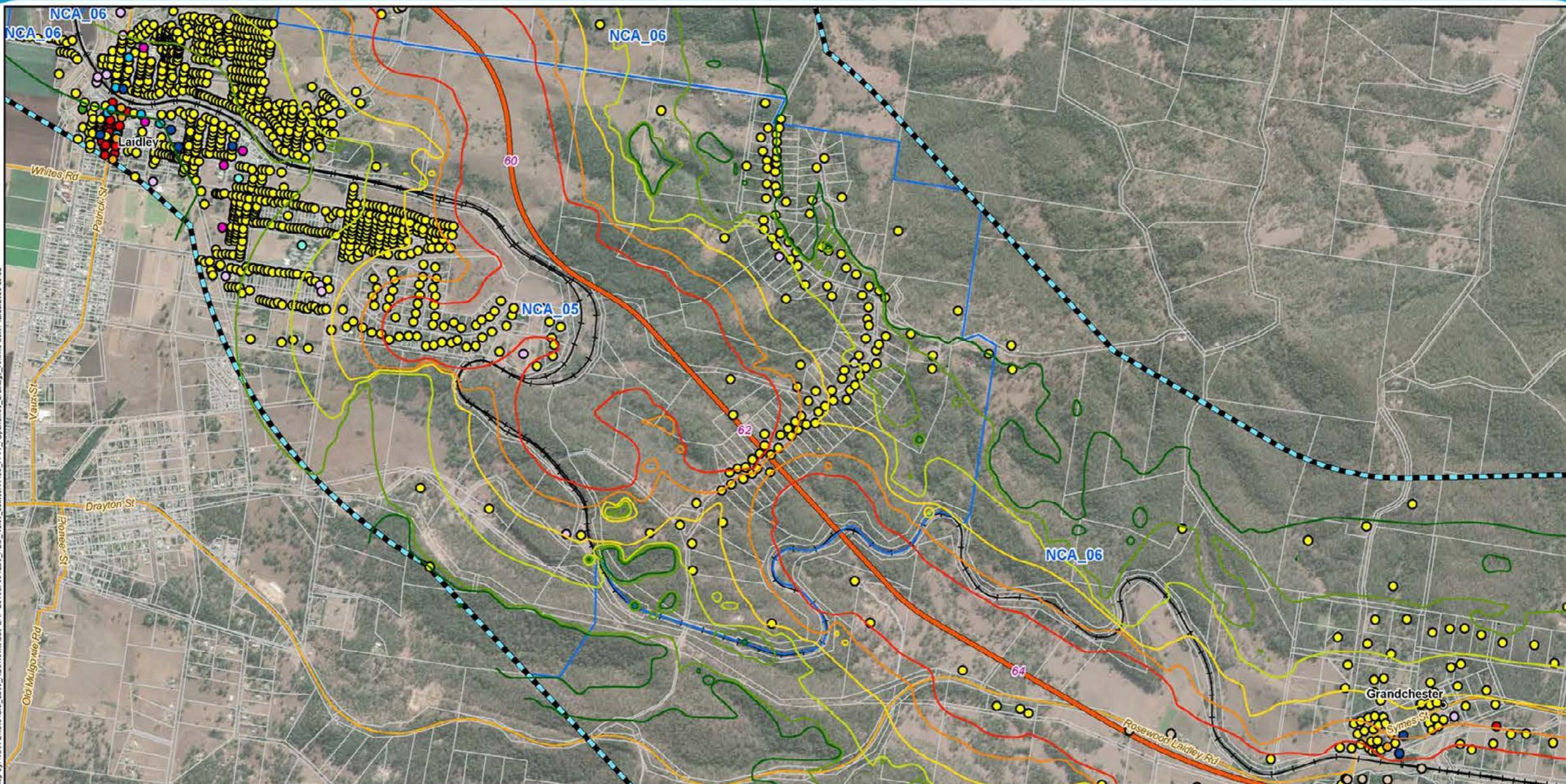
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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#### Sensitive Receptors

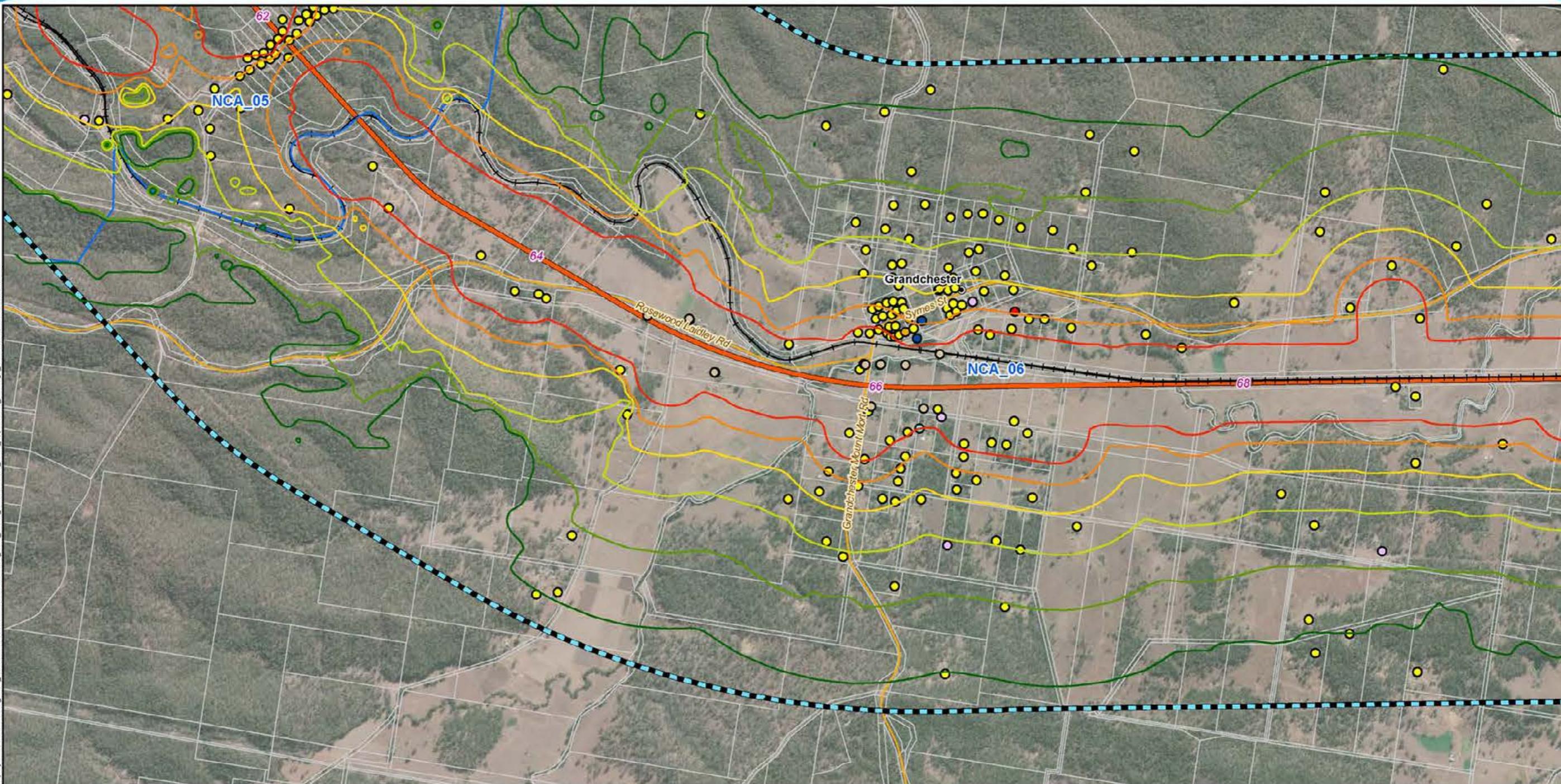
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Residential
- Hotel/Motel
- Sport Facilities
- Commercial Office



A3 scale: 1:23,000

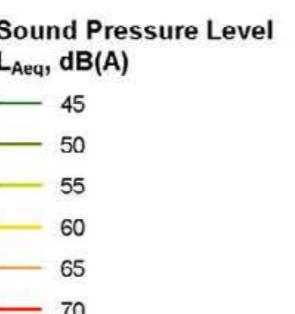
0 0.2 0.4 0.6 0.8 1km



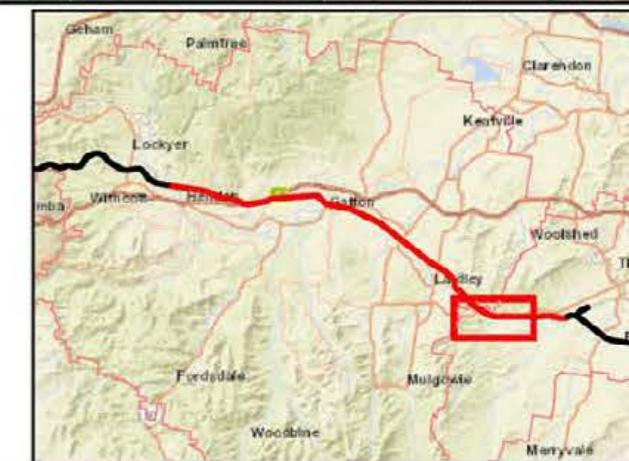


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



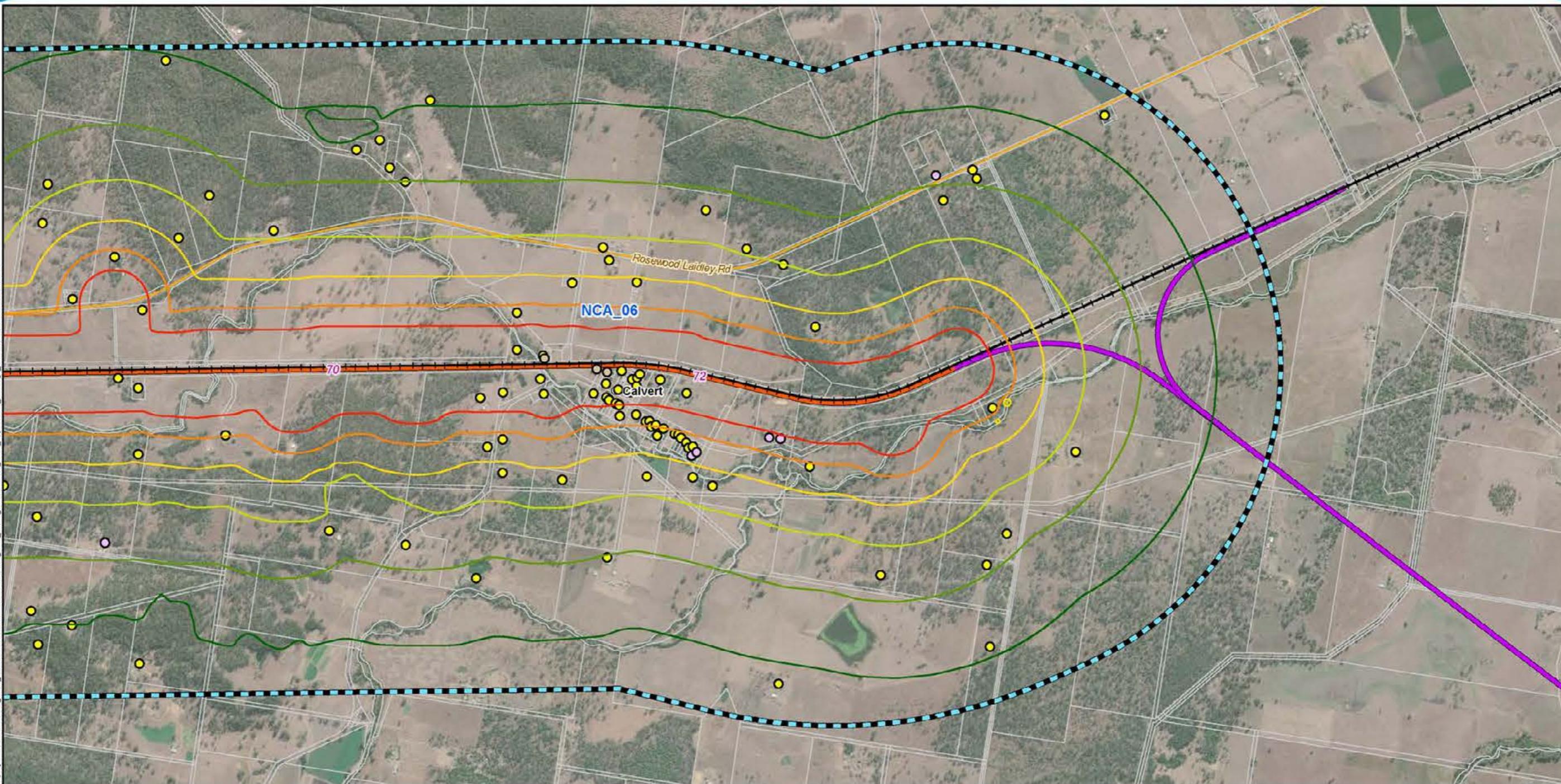
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





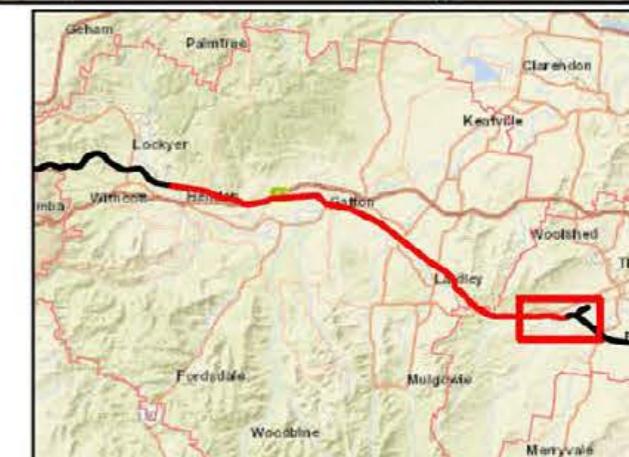
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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#### Sensitive Receptors

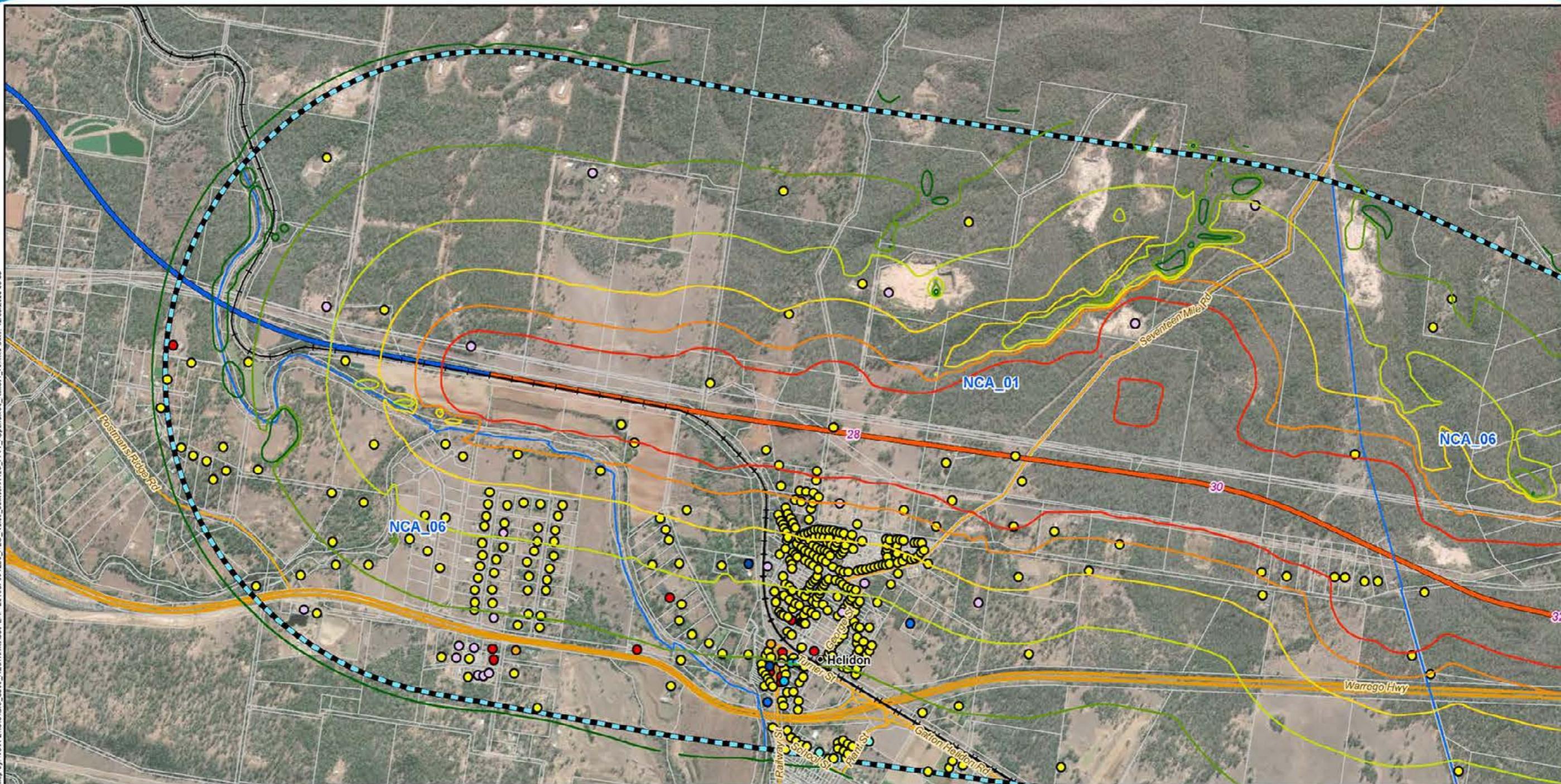
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

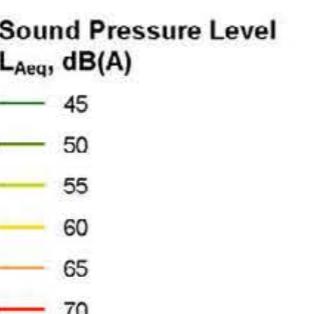
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



#### Sensitive Receptors

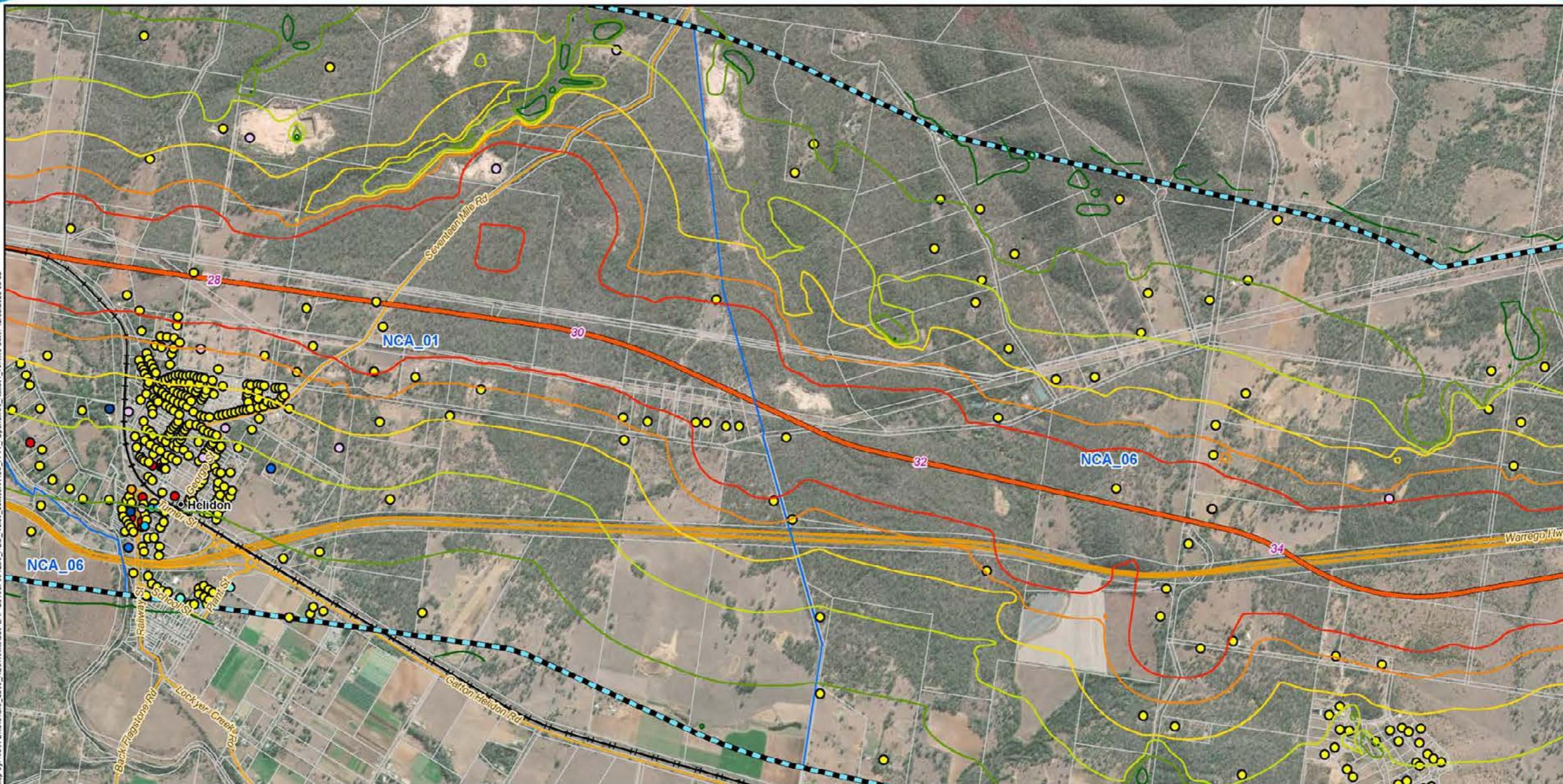
- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

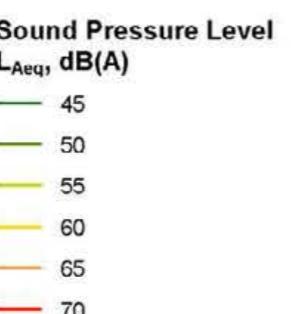
0 0.2 0.4 0.6 0.8 1km



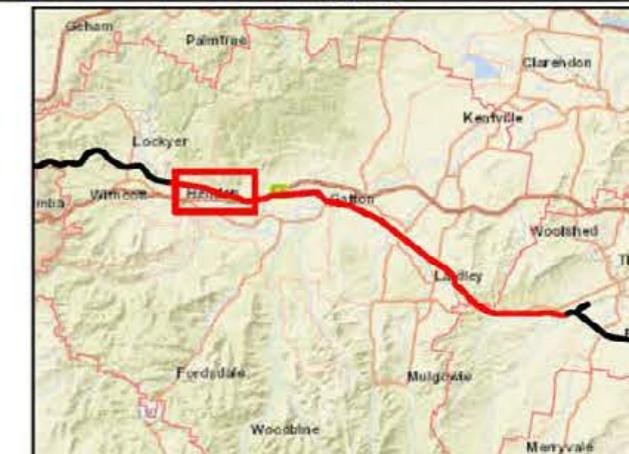


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



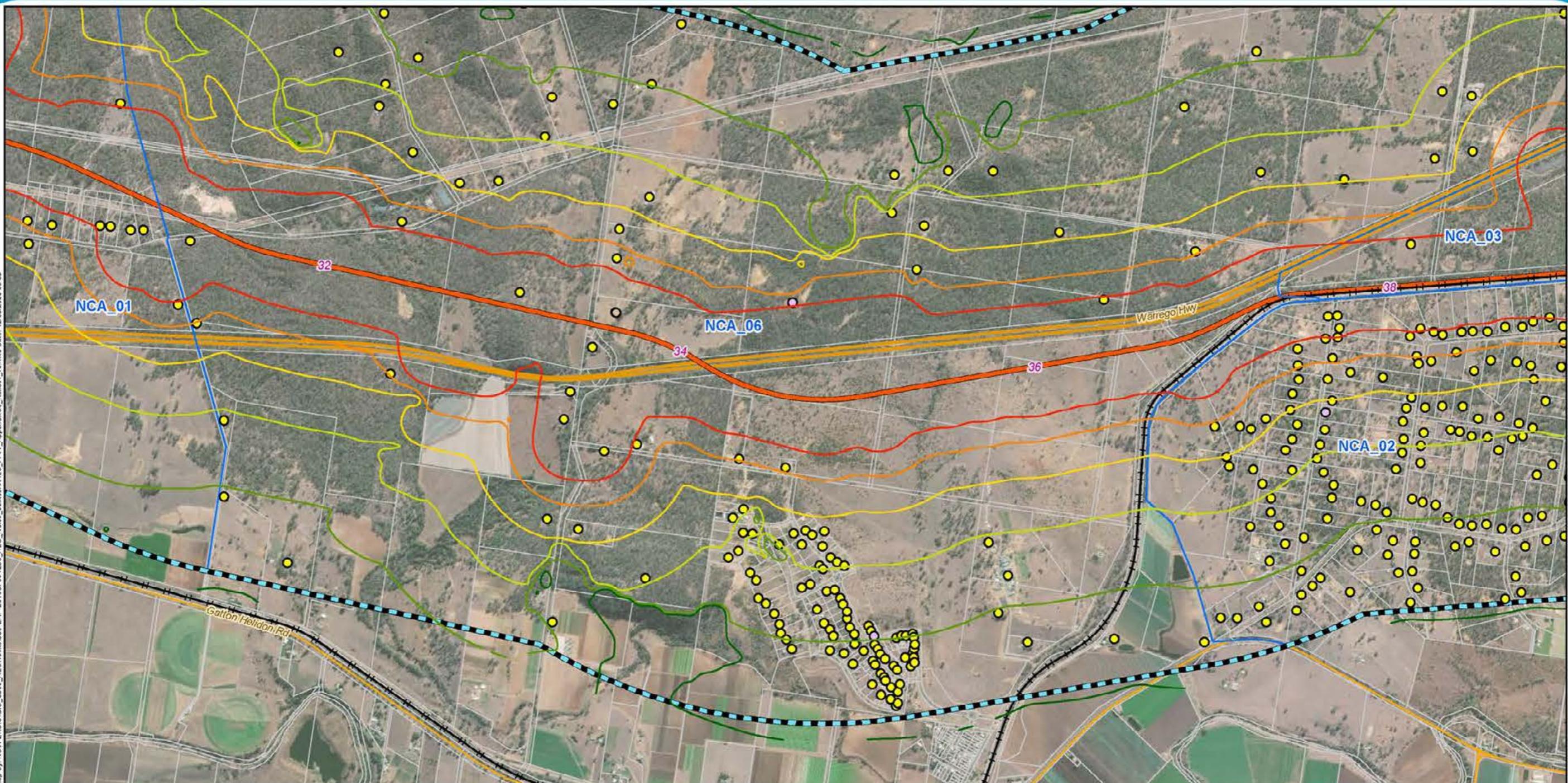
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Commercial Office
  - Outdoor Recreation
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
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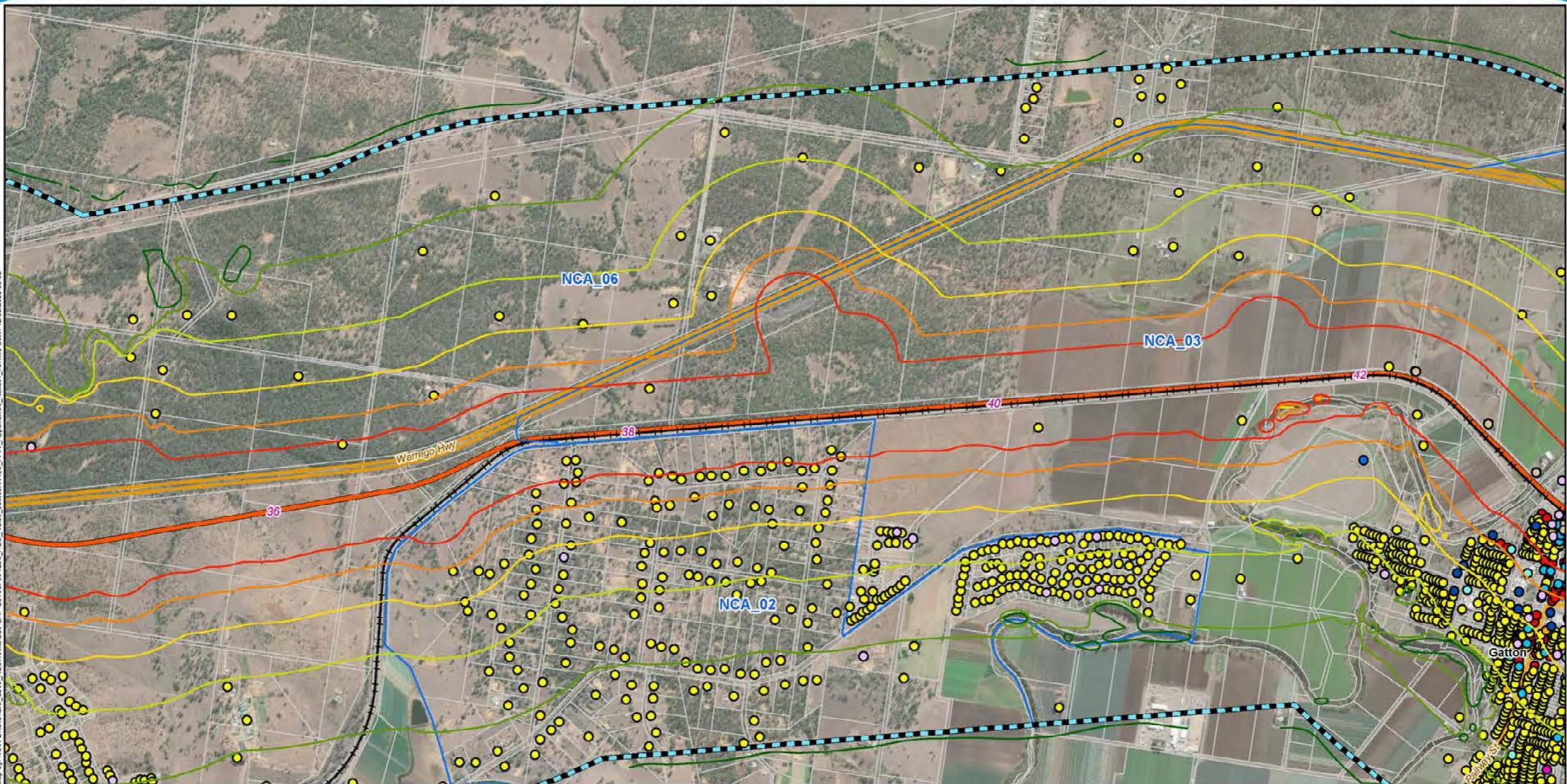
#### Sensitive Receptors

- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



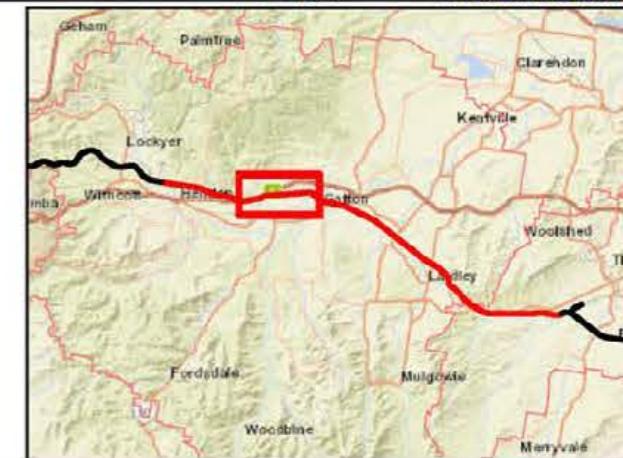
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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#### Sensitive Receptors

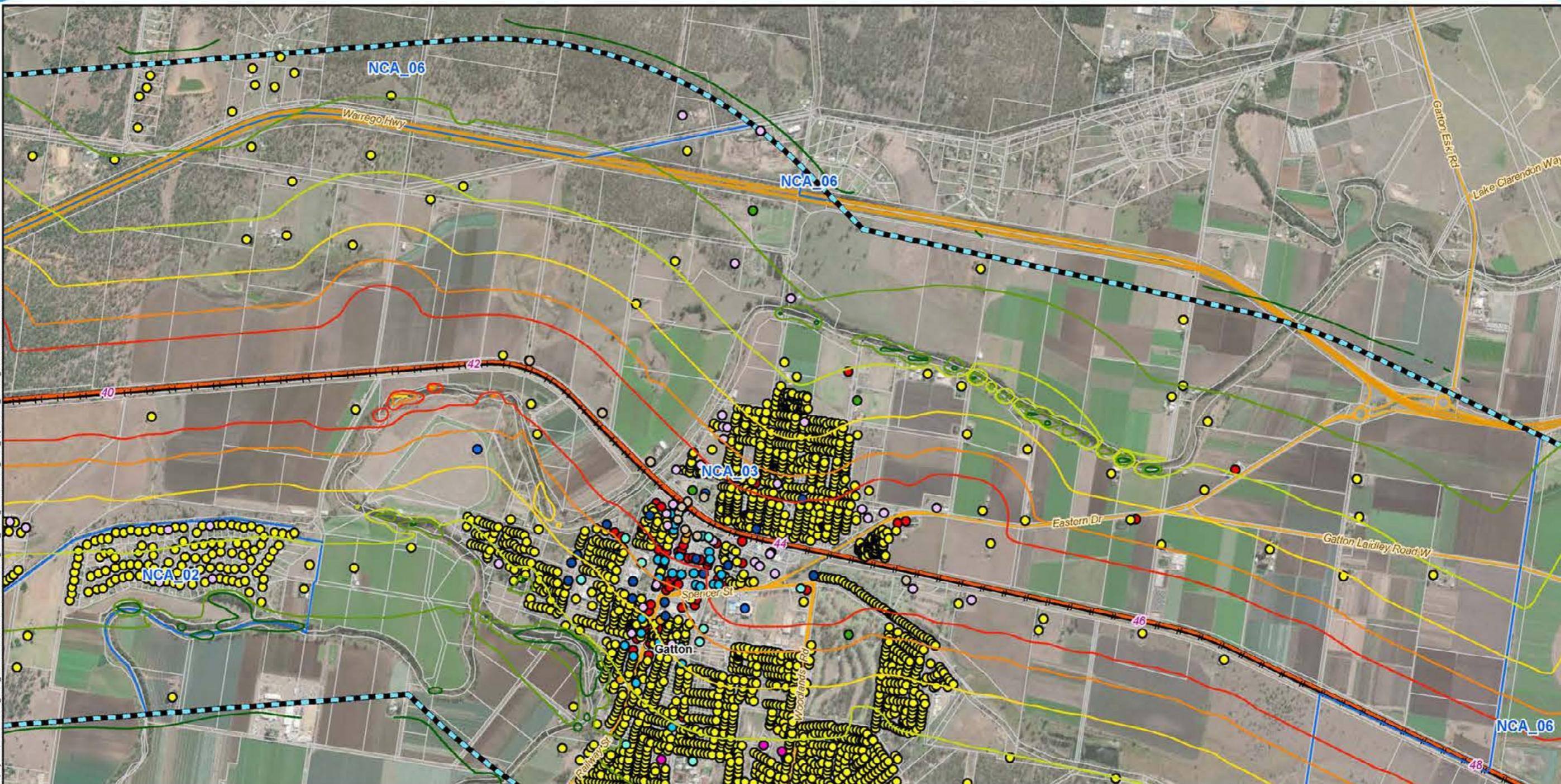
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





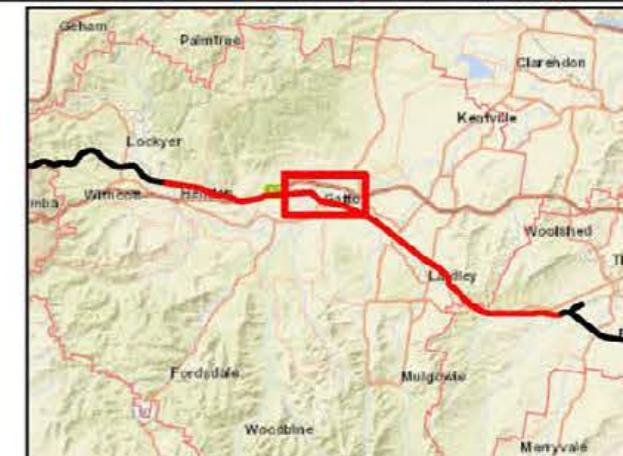
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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- Major roads
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

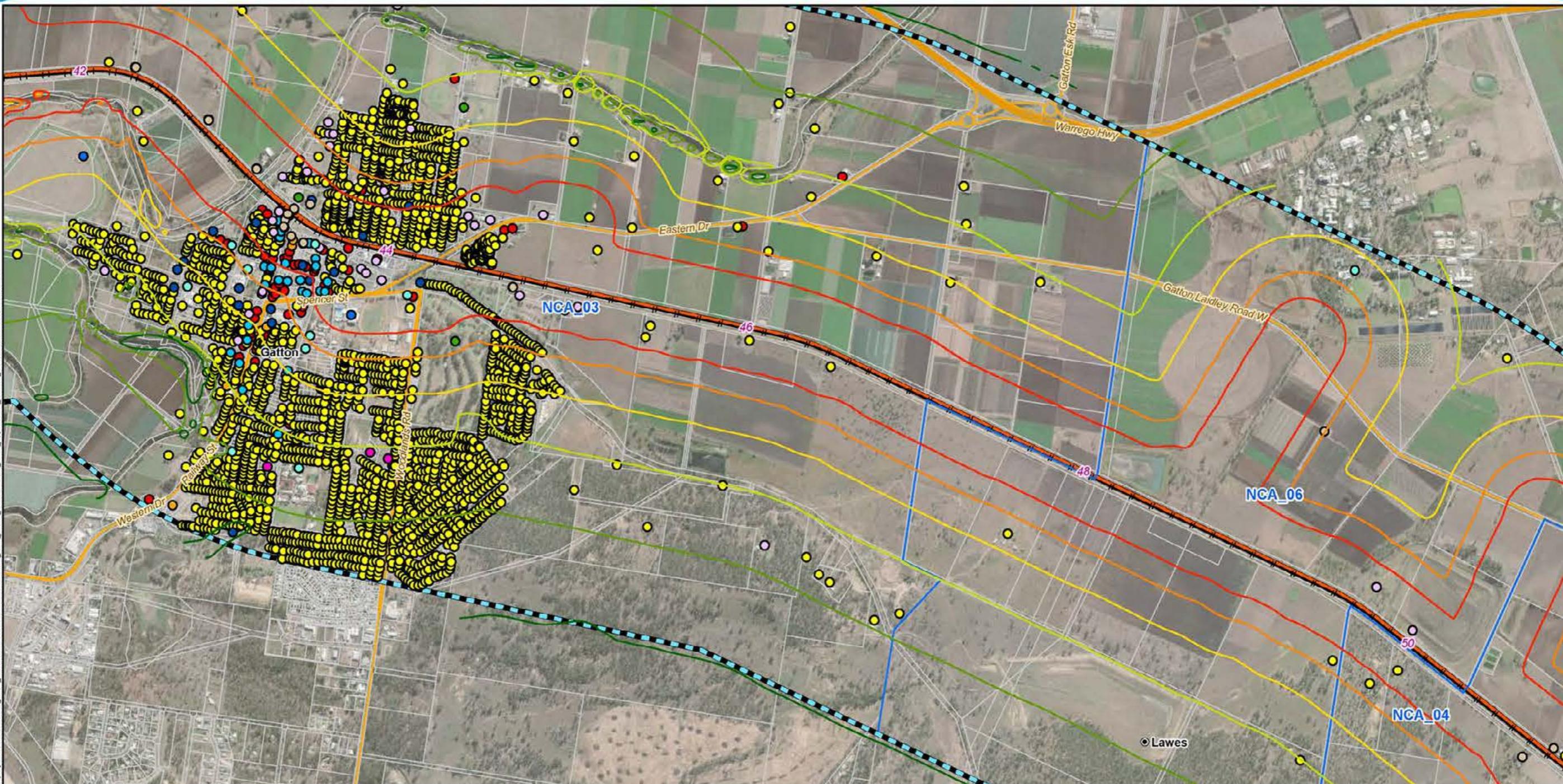
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Retail
- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





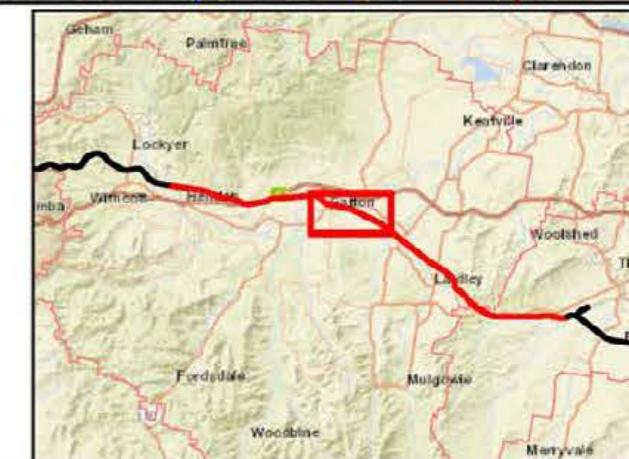
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
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#### Sensitive Receptors

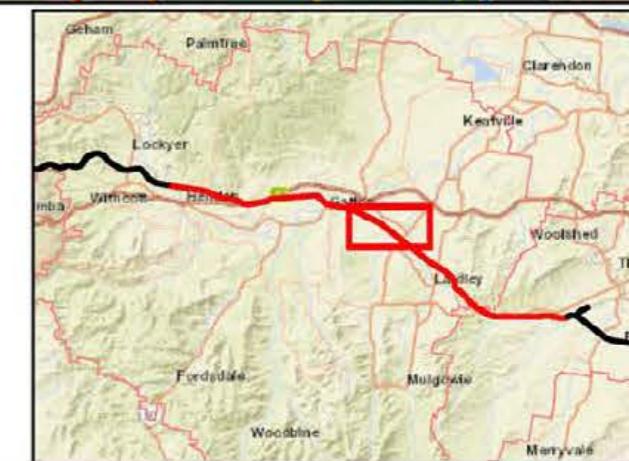
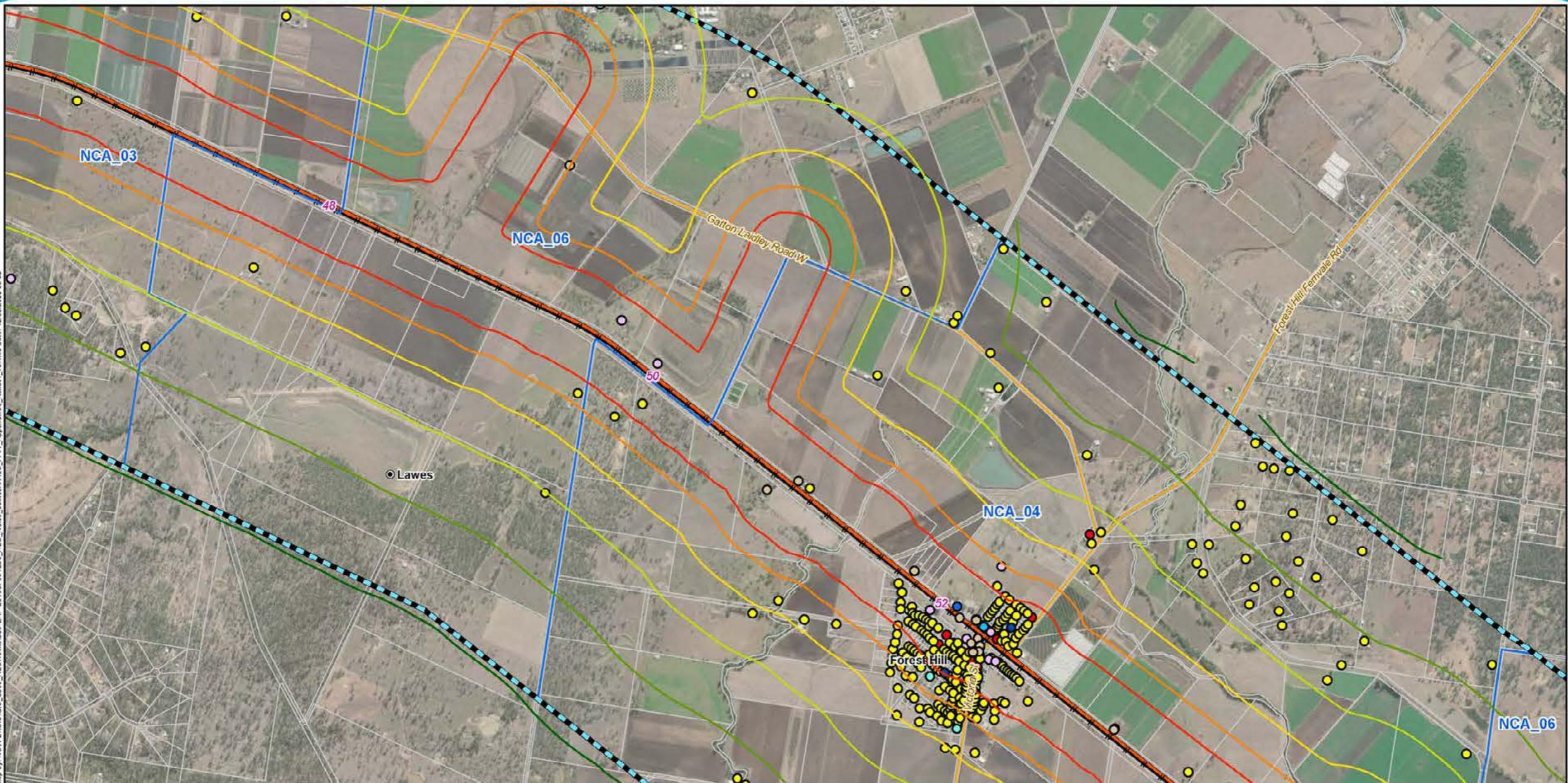
- Commercial
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- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities
- 



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km

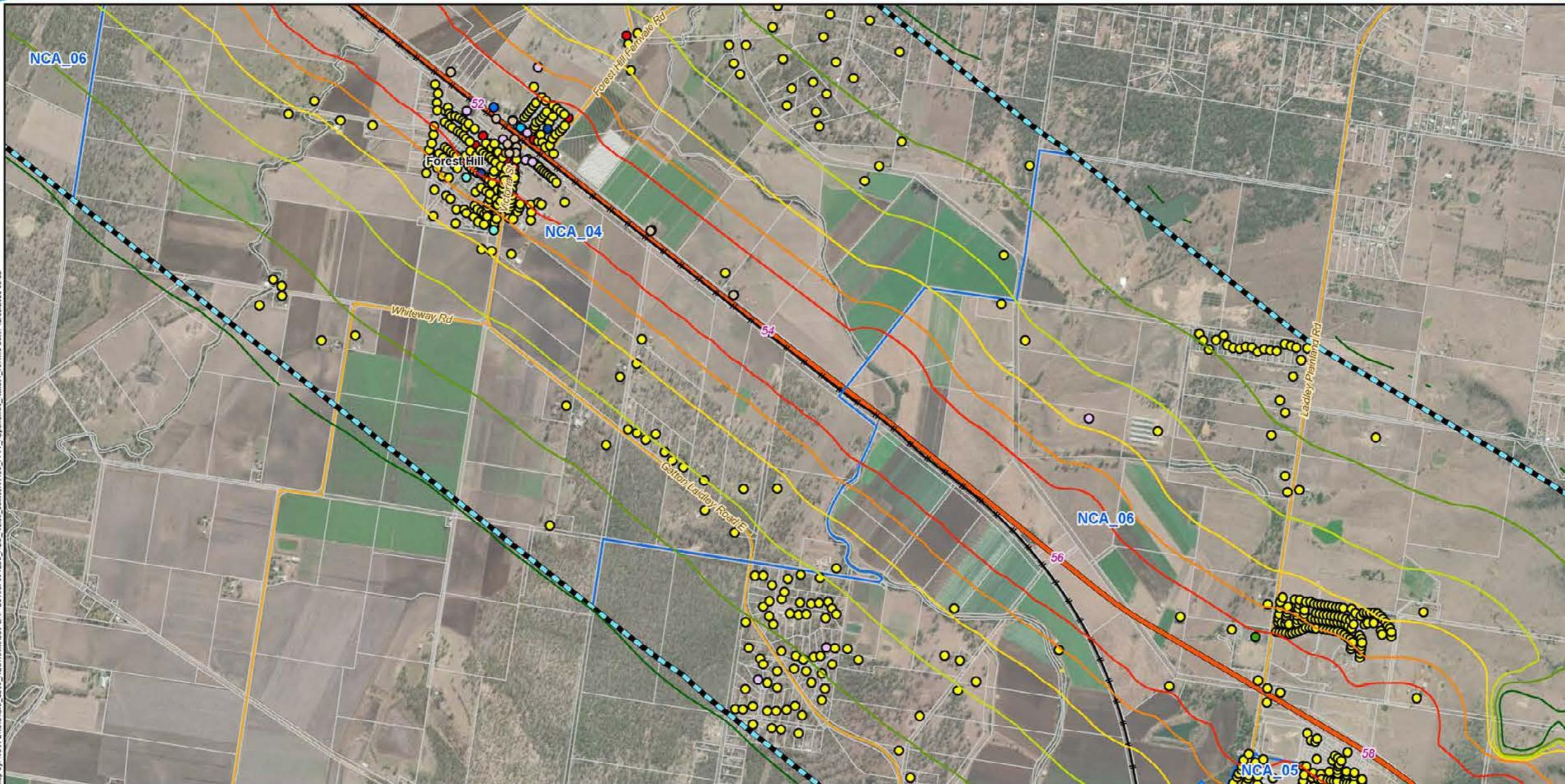




A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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**Sound Pressure Level**  
 $L_{Aeq}$ , dB(A)

45
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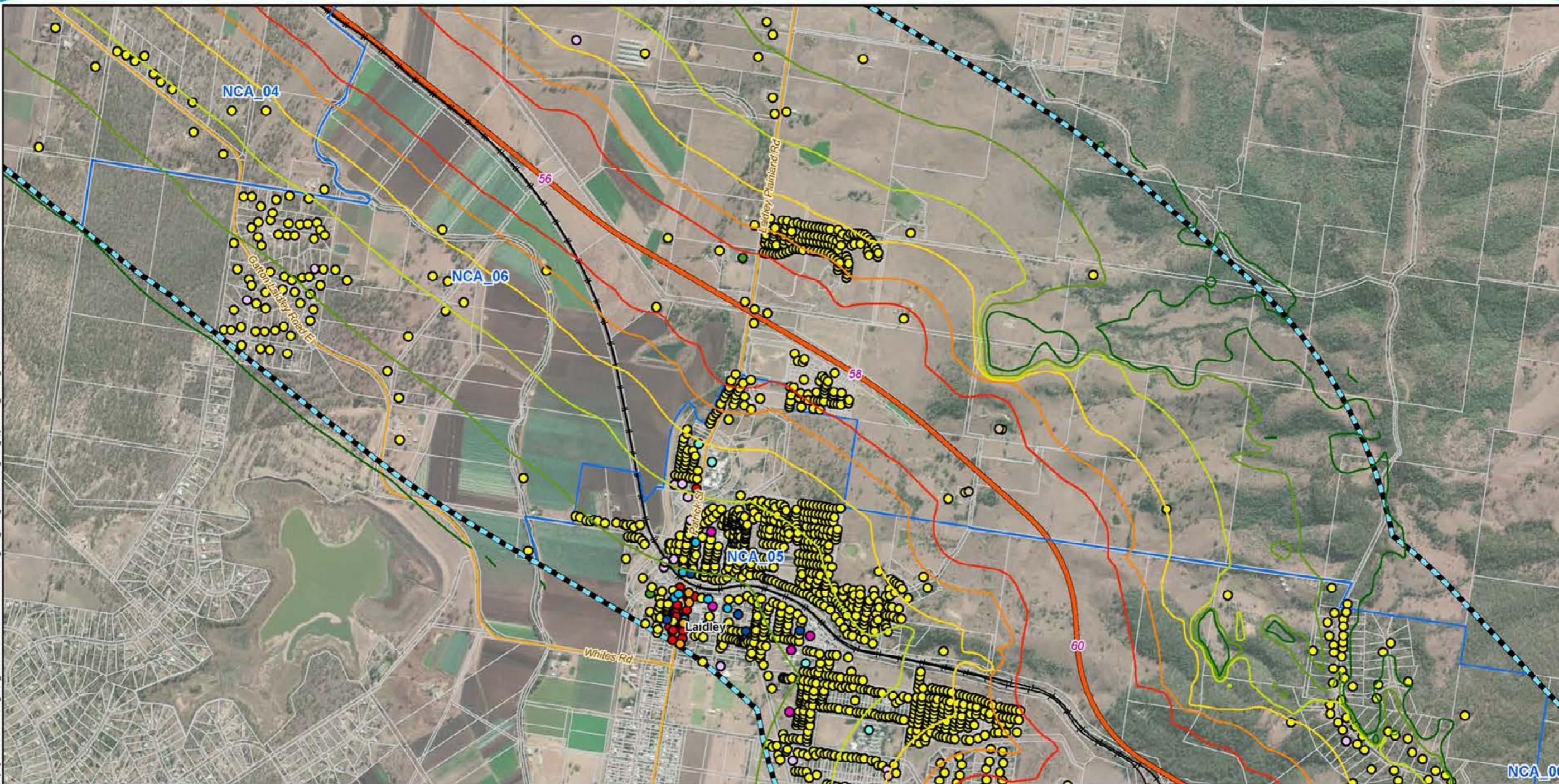
**Sensitive Receptors**

- Commercial
- Education
- Heritage
- Hotel/Motel
- Industrial
- Commercial Office
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

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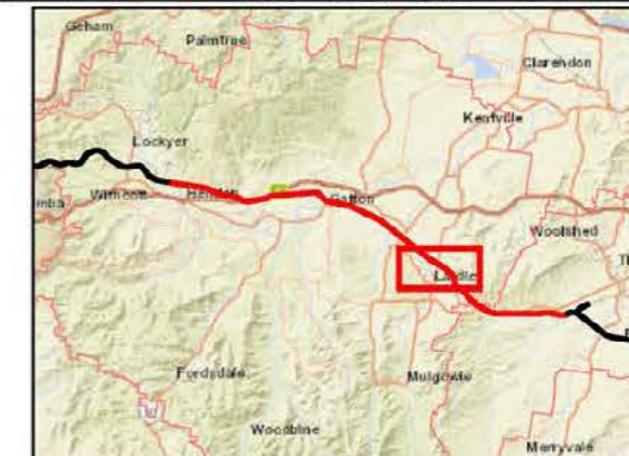
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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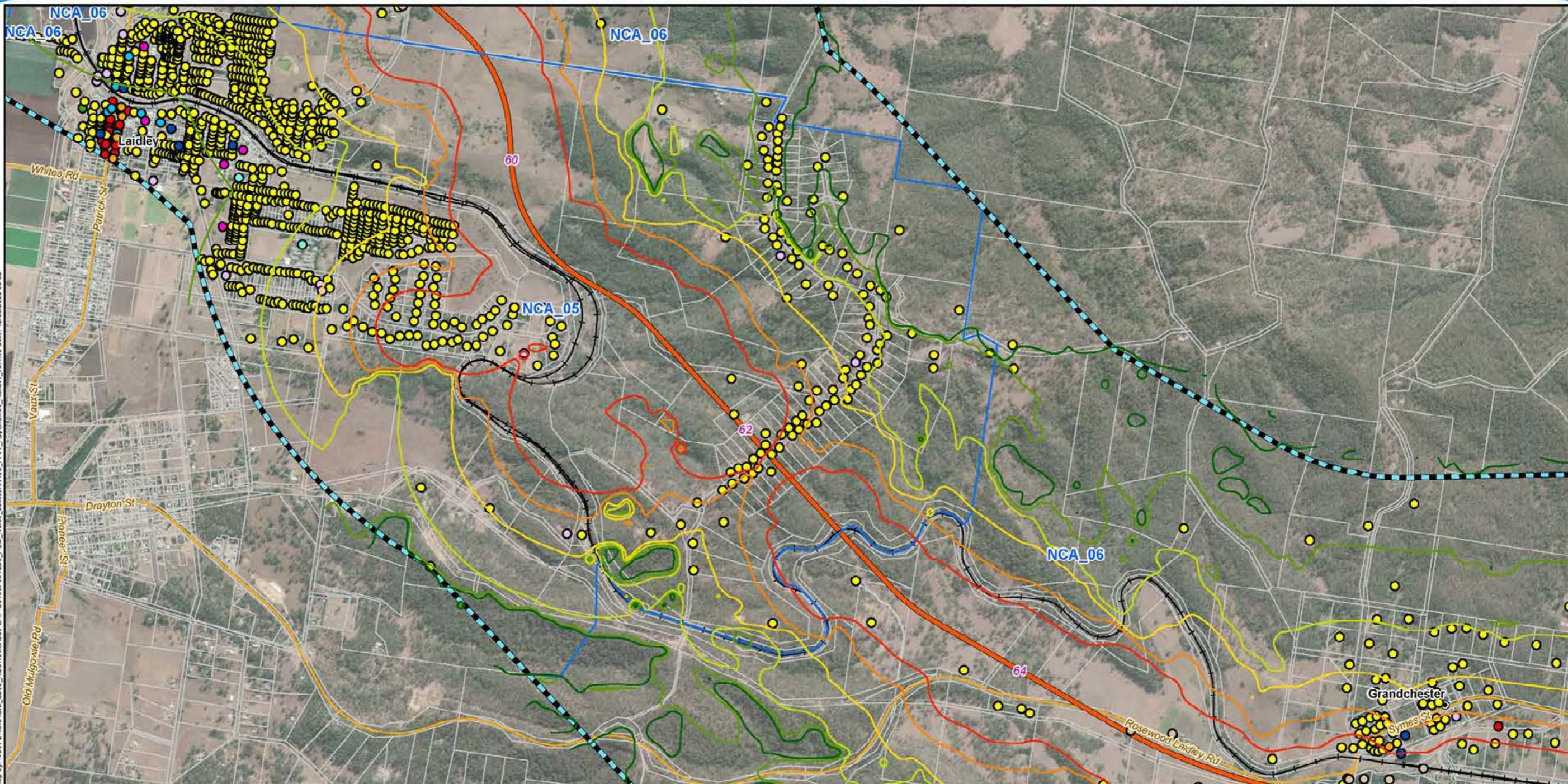
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- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





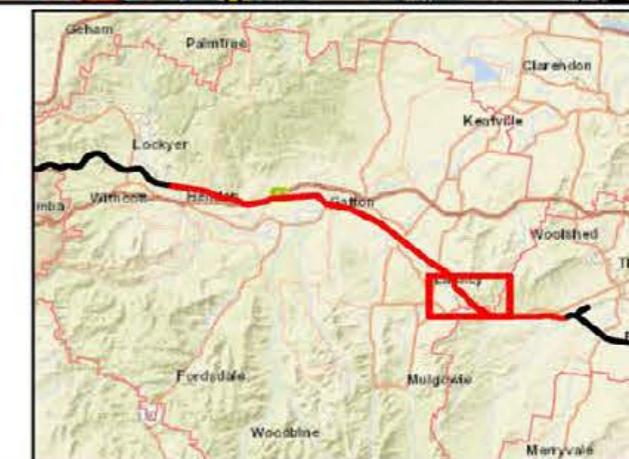
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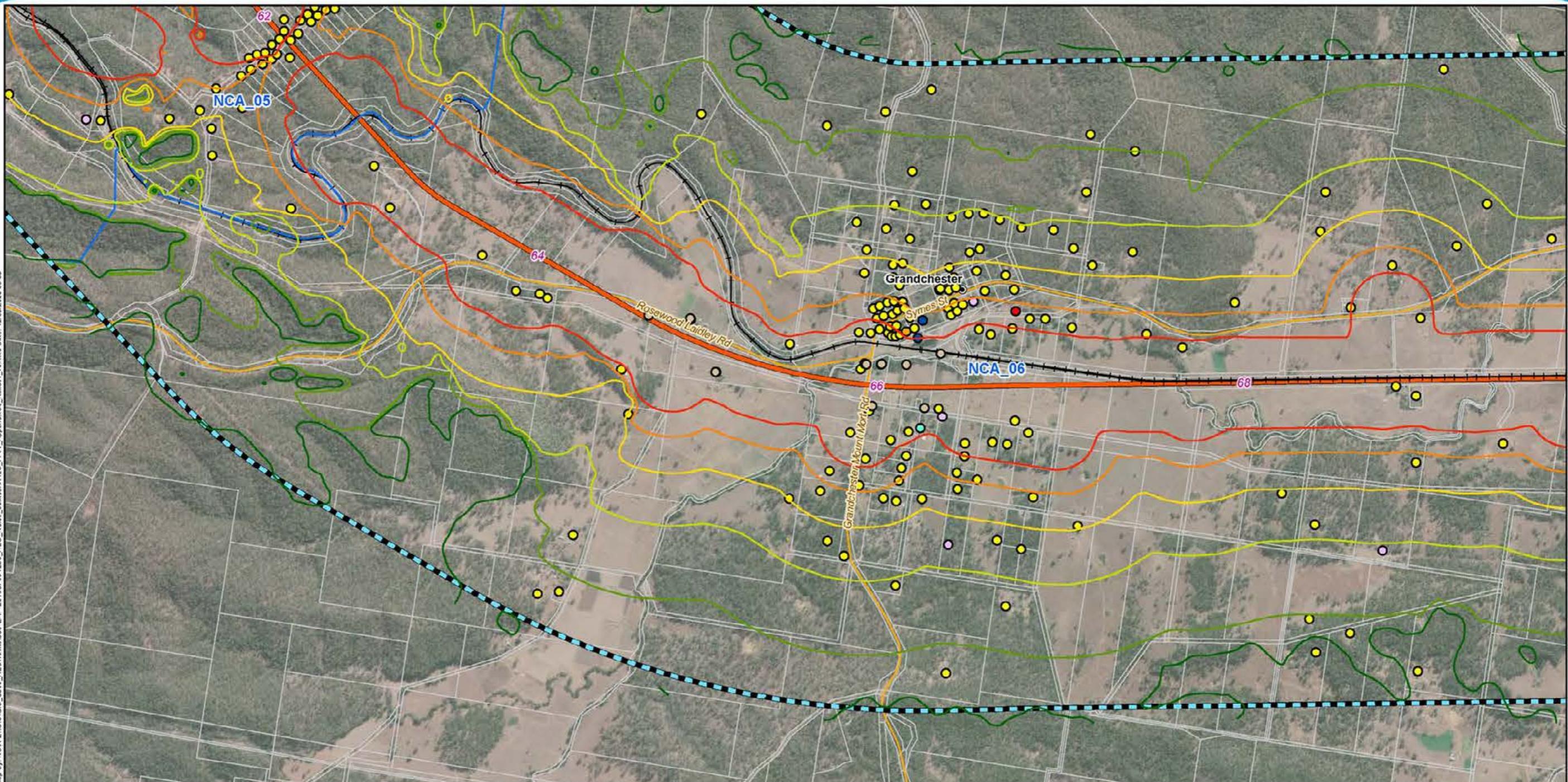
- Commercial
- Industrial
- Education
- Heritage
- Medical/Health Facilities
- Residential
- Hotel/Motel
- Commercial Office
- Sport Facilities



A3 scale: 1:23,000

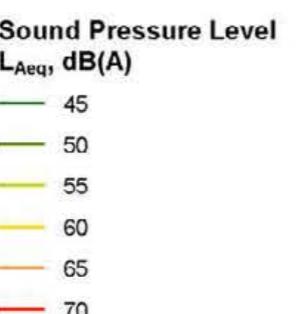
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

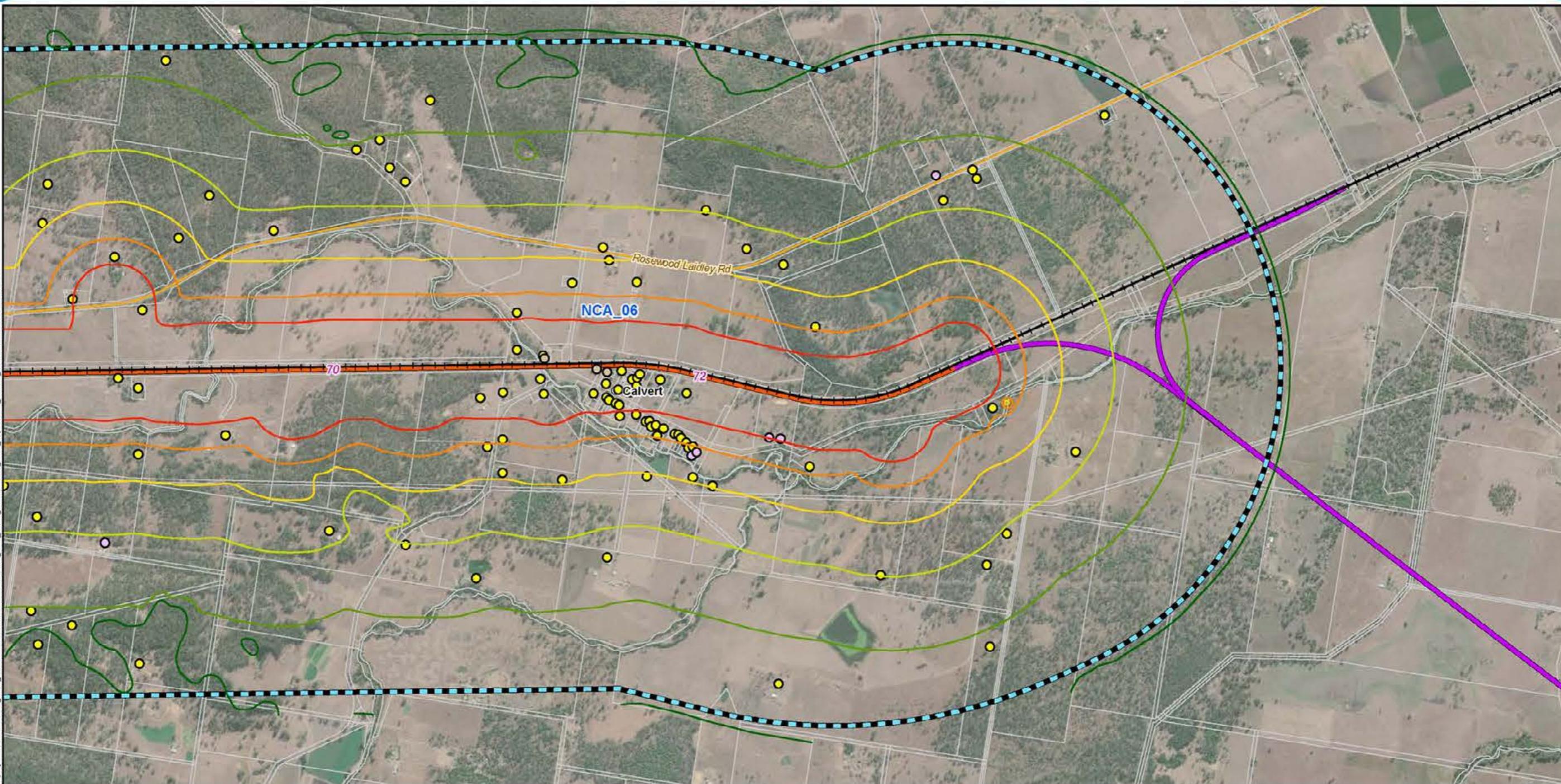


- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



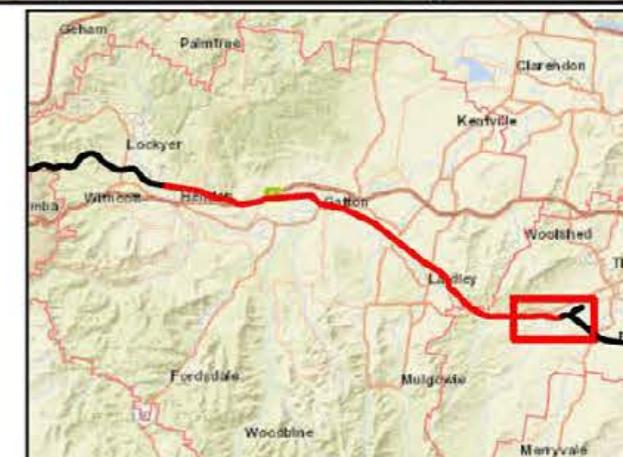
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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#### Sensitive Receptors

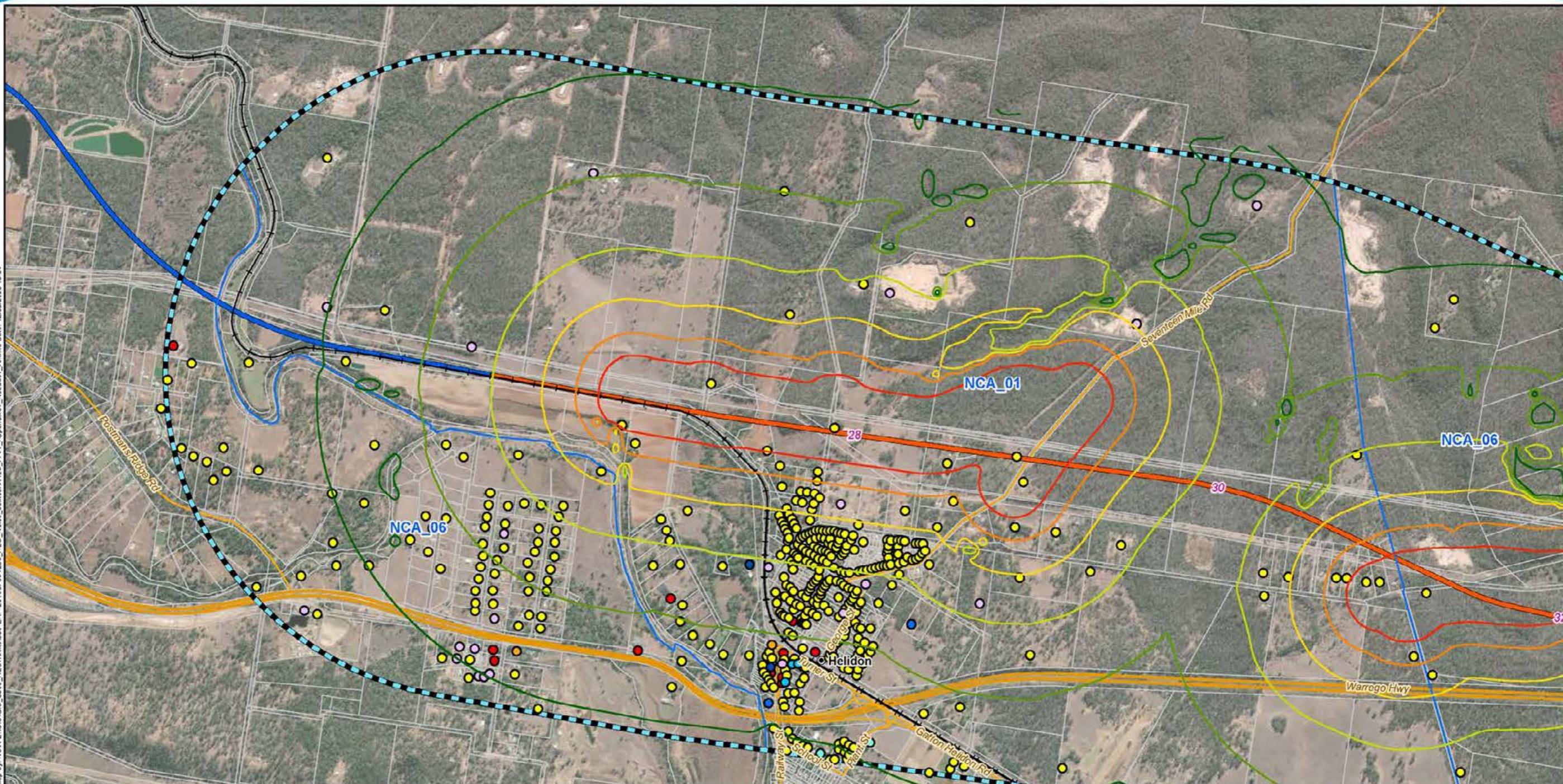
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



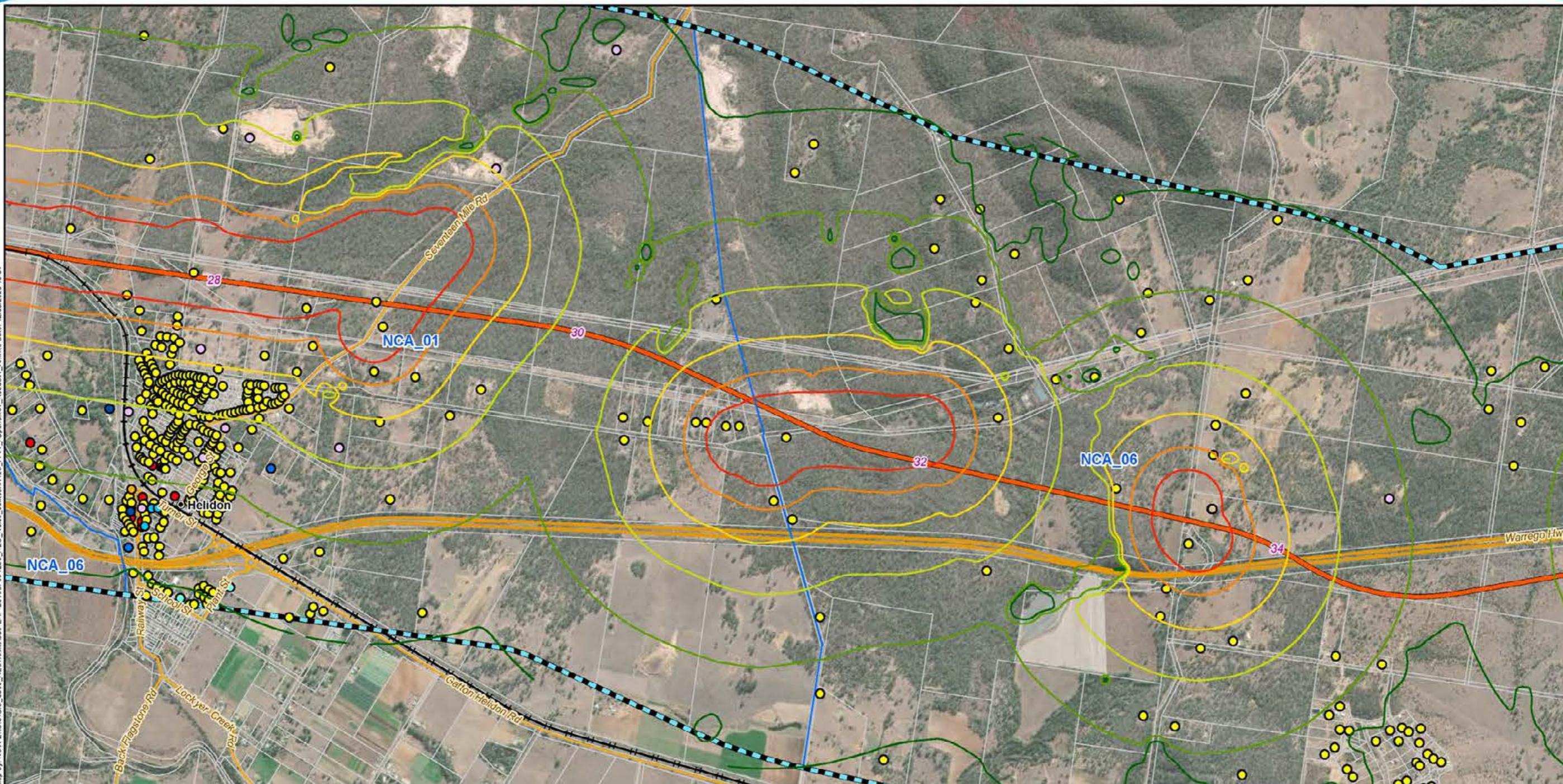
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Commercial Office
- Hotel/Motel
- Residential
- Outdoor Recreation
- Retail



A3 scale: 1:23,000  
 0 0.2 0.4 0.6 0.8 1km



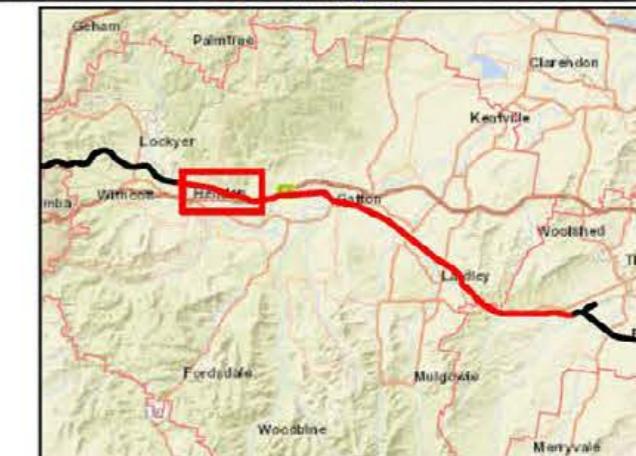


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



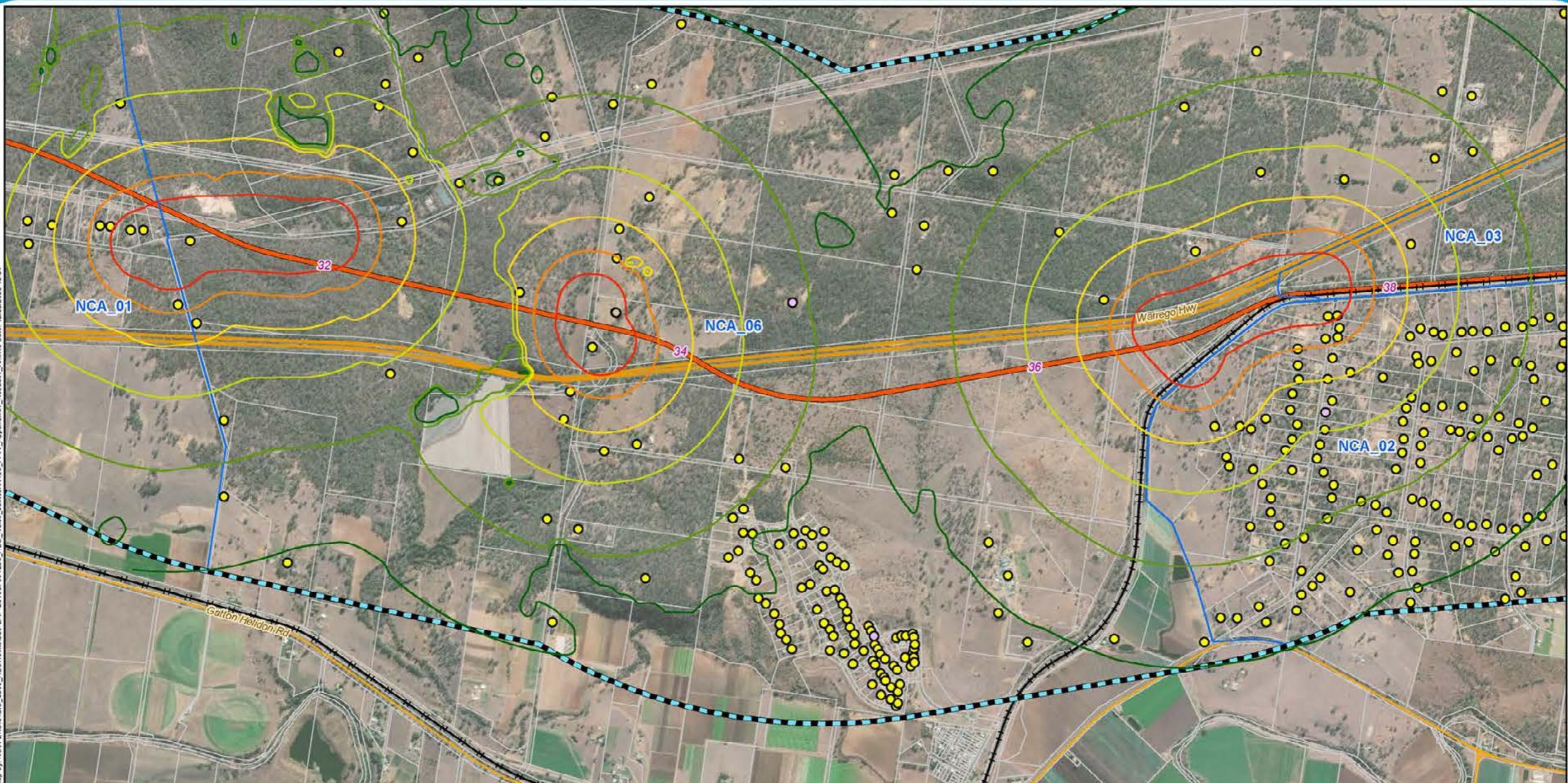
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Commercial Office
  - Outdoor Recreation
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

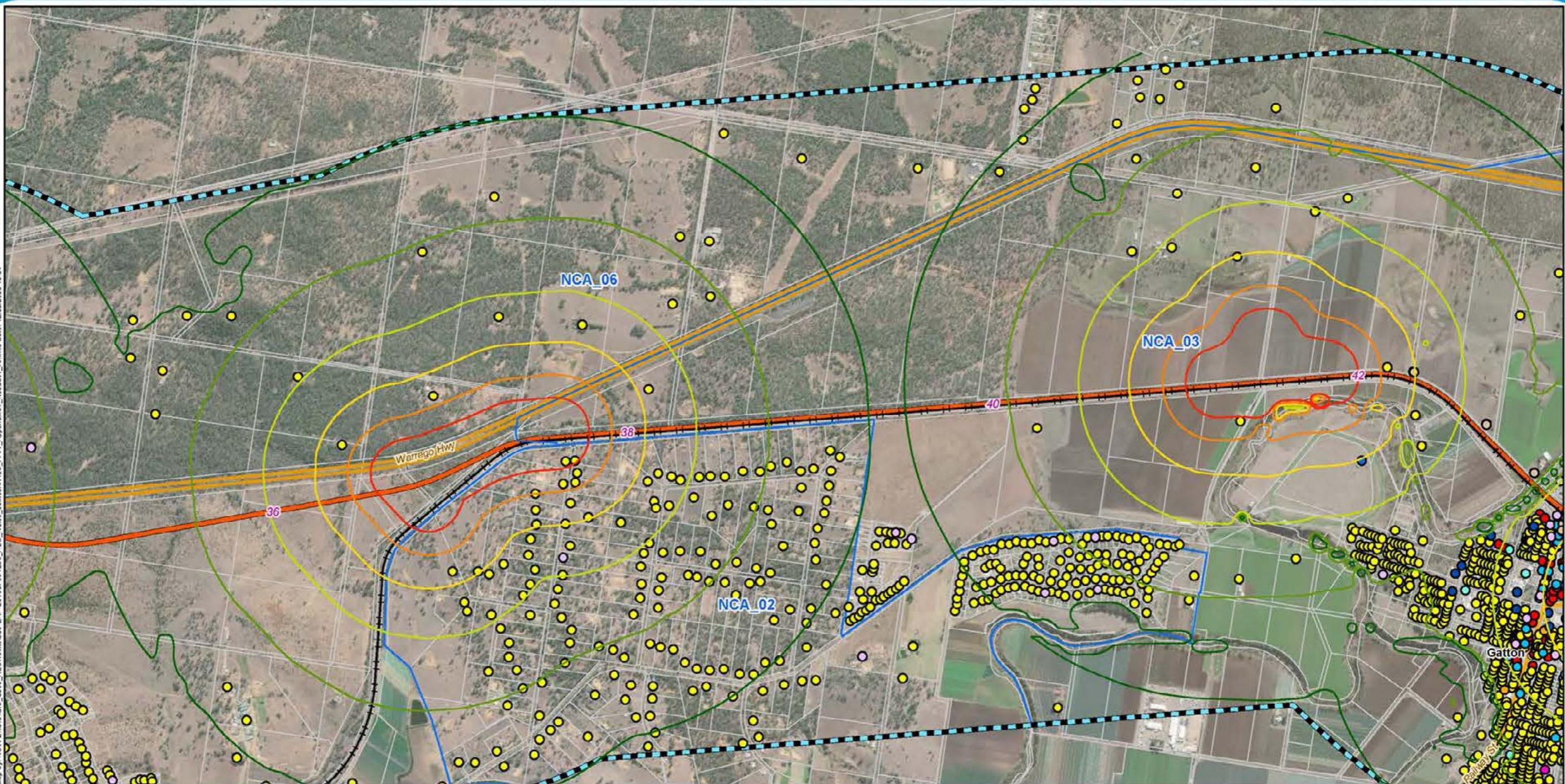
#### Sensitive Receptors

- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



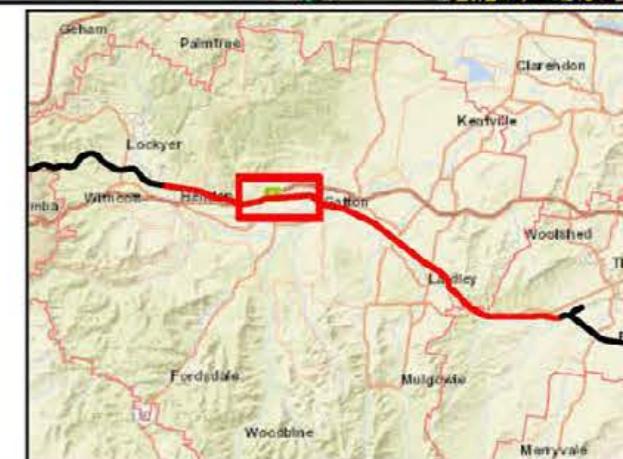
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	50
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—	70

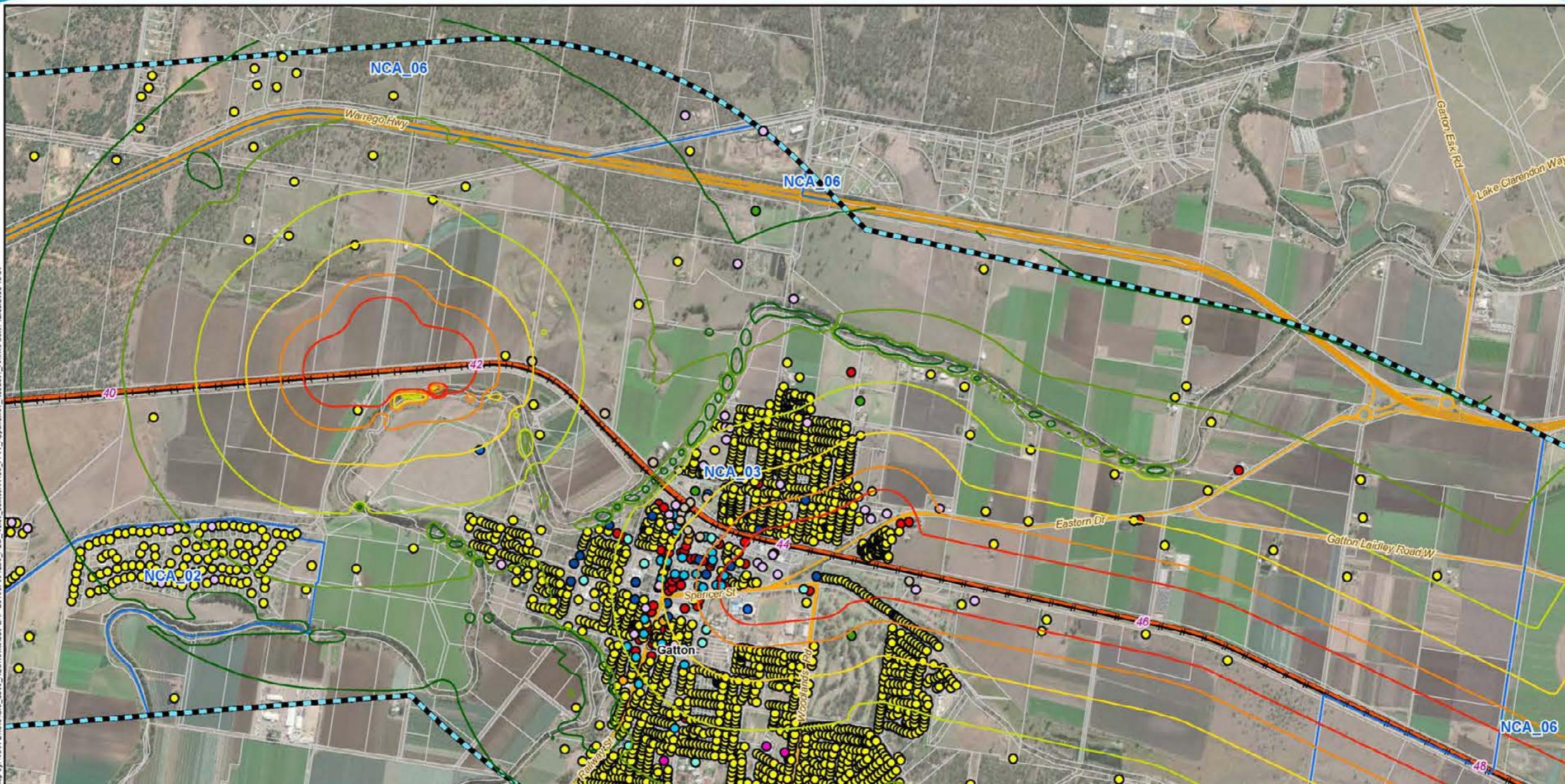
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Hotel/Motel
- Residential
- Commercial Office
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



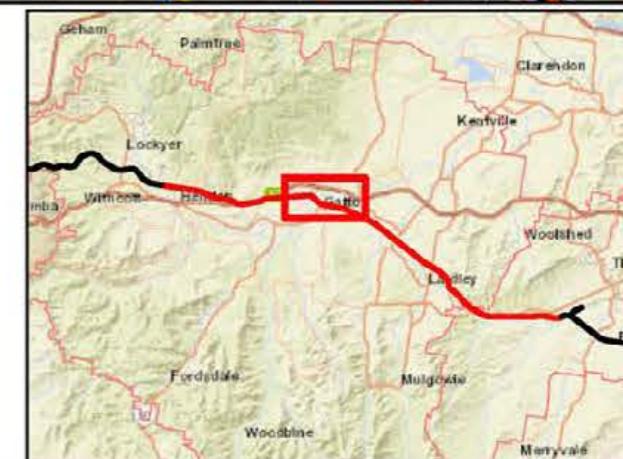
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
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- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

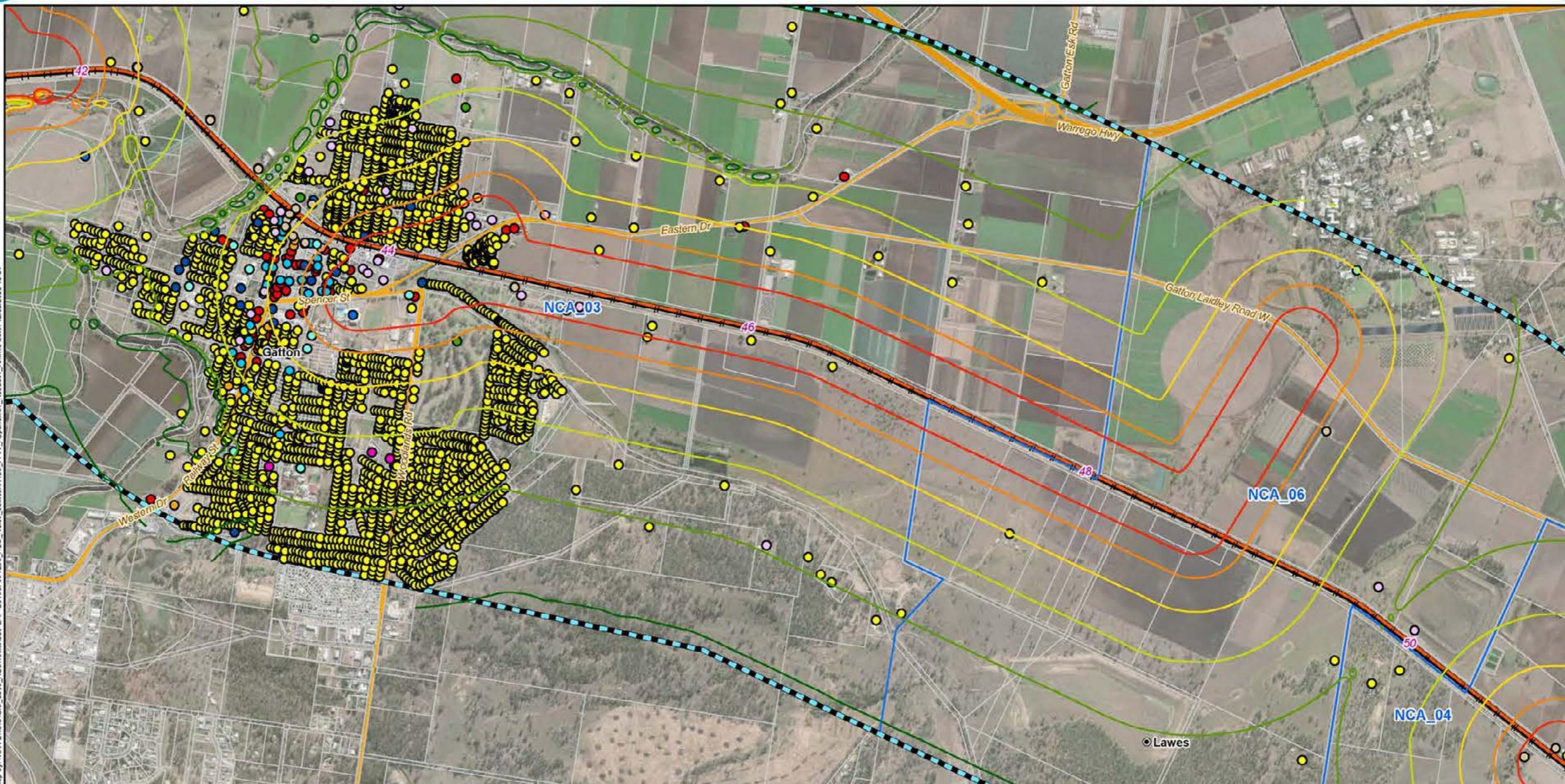
- Commercial
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- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





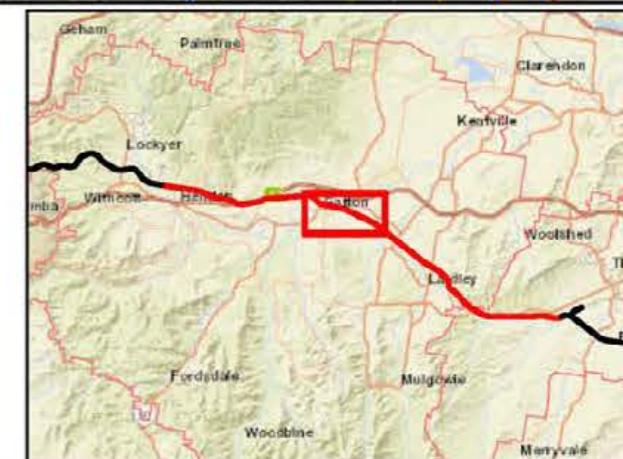
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- Localities
- Existing rail
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- Major roads
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- NCA
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#### **Sensitive Receptors**

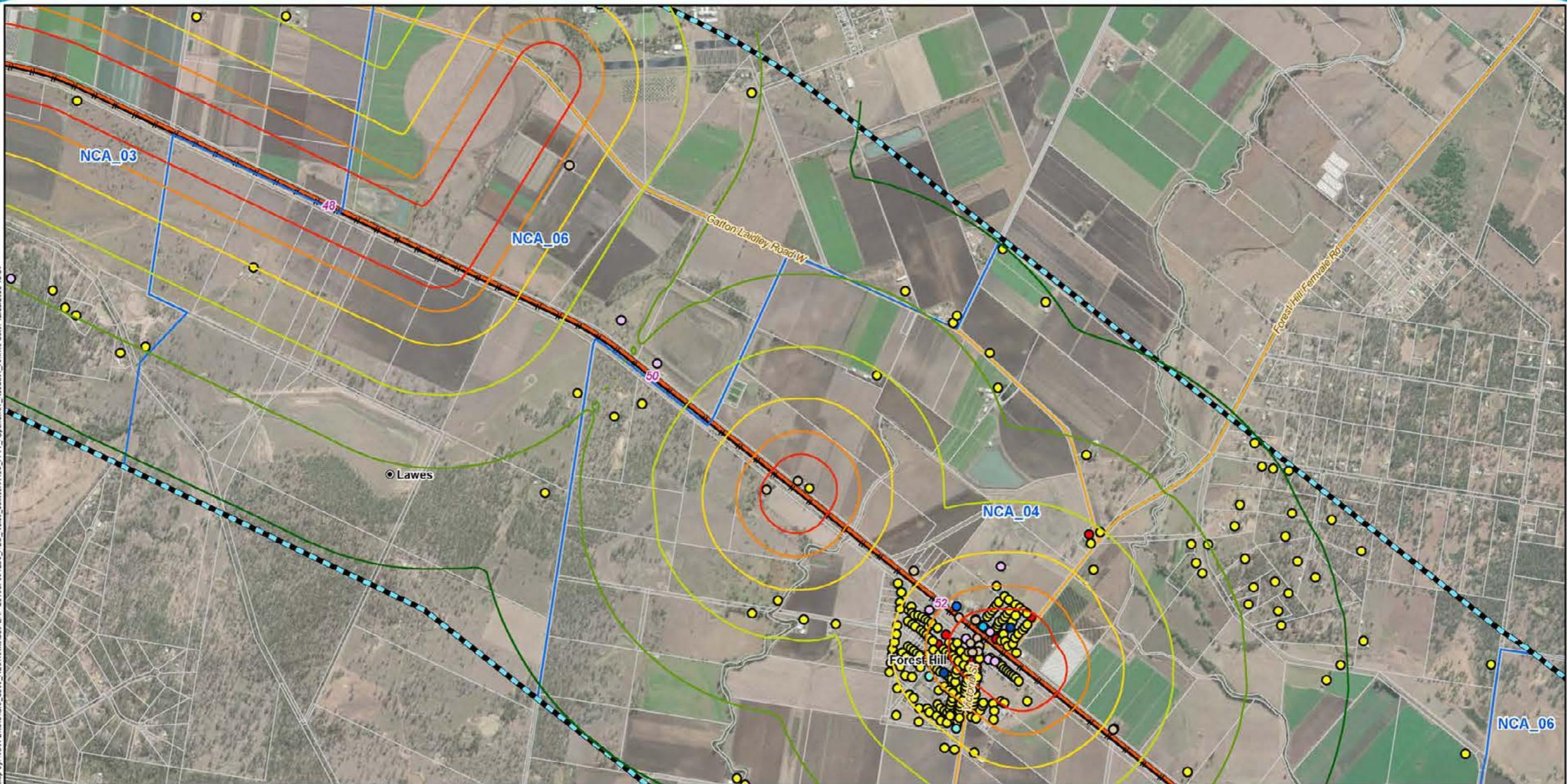
- Commercial
- Industrial
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- Medical/Health Facilities
- Heritage
- Commercial Office
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- Outdoor Recreation
- Residential
- Retail
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





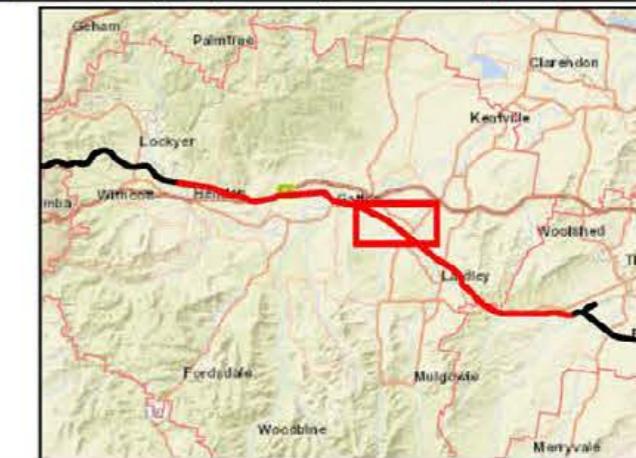
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

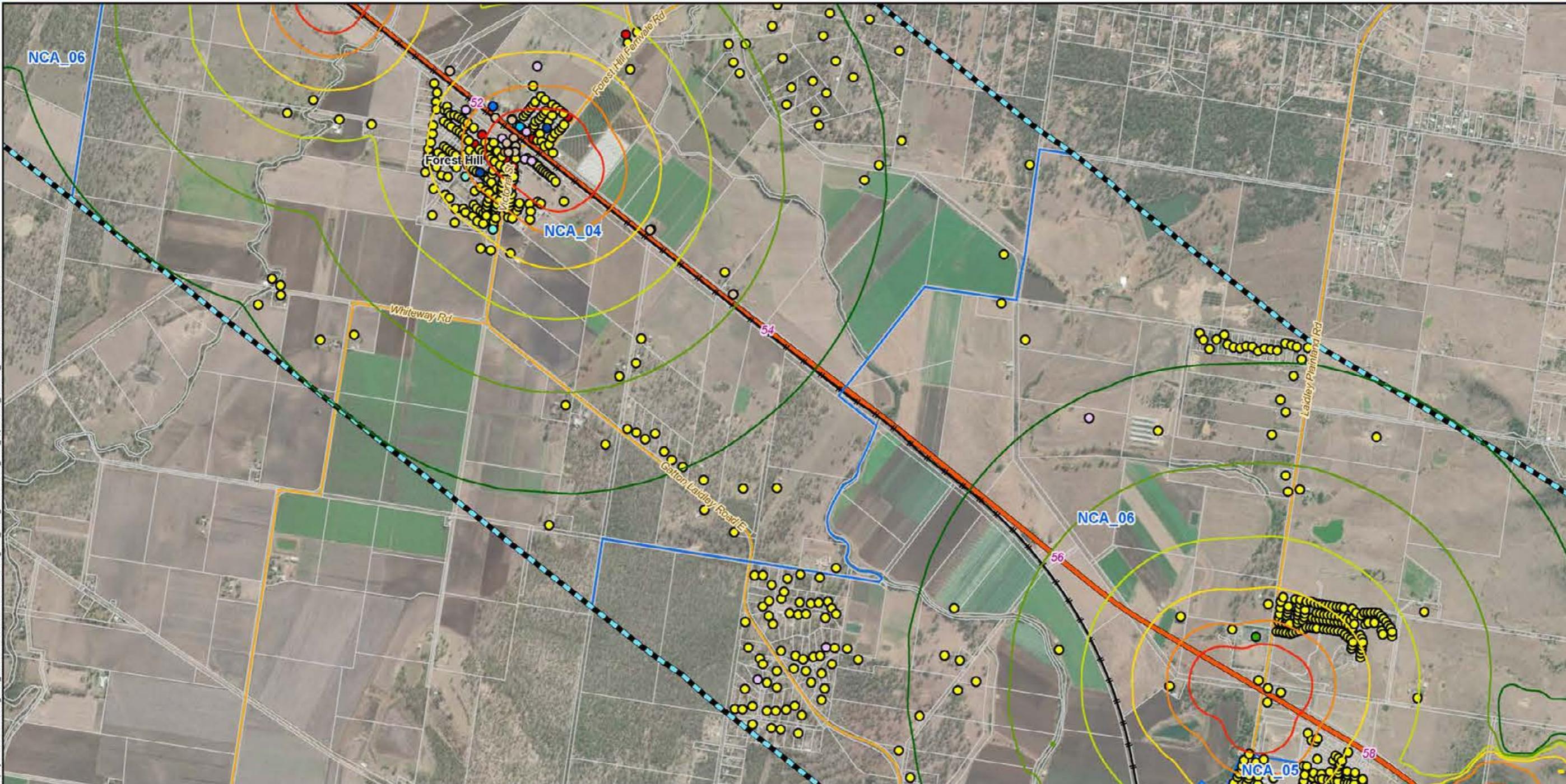
- Commercial
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- Retail
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- Hotel/Motel
- Outdoor Recreation



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





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- NCA
- Noise and vibration study area

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—	45
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—	55
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—	65
—	70

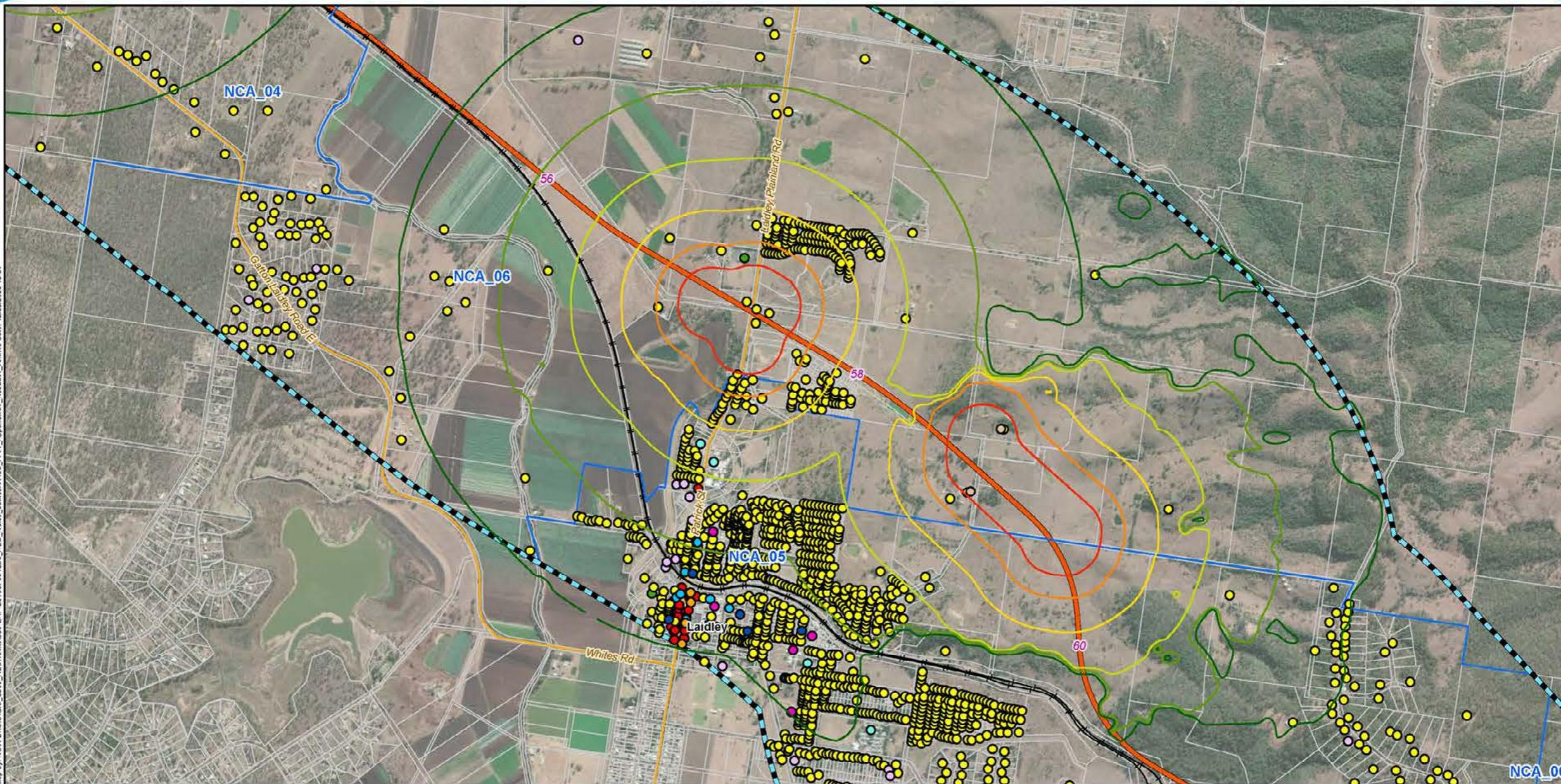
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Retail
- Heritage
- Outdoor Recreation
- Sport Facilities
- Hotel/Motel



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



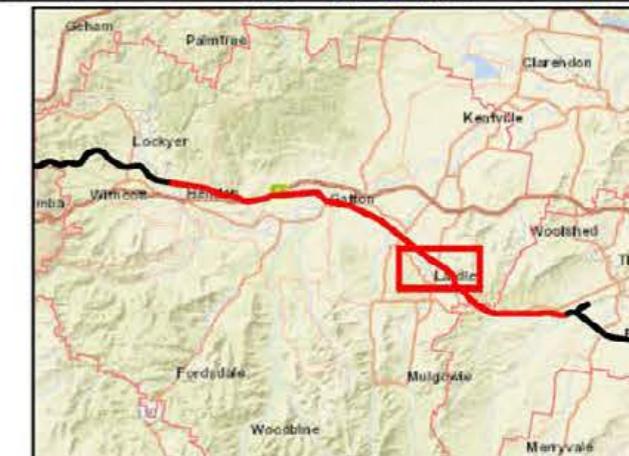
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- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
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—	55
—	60
—	65
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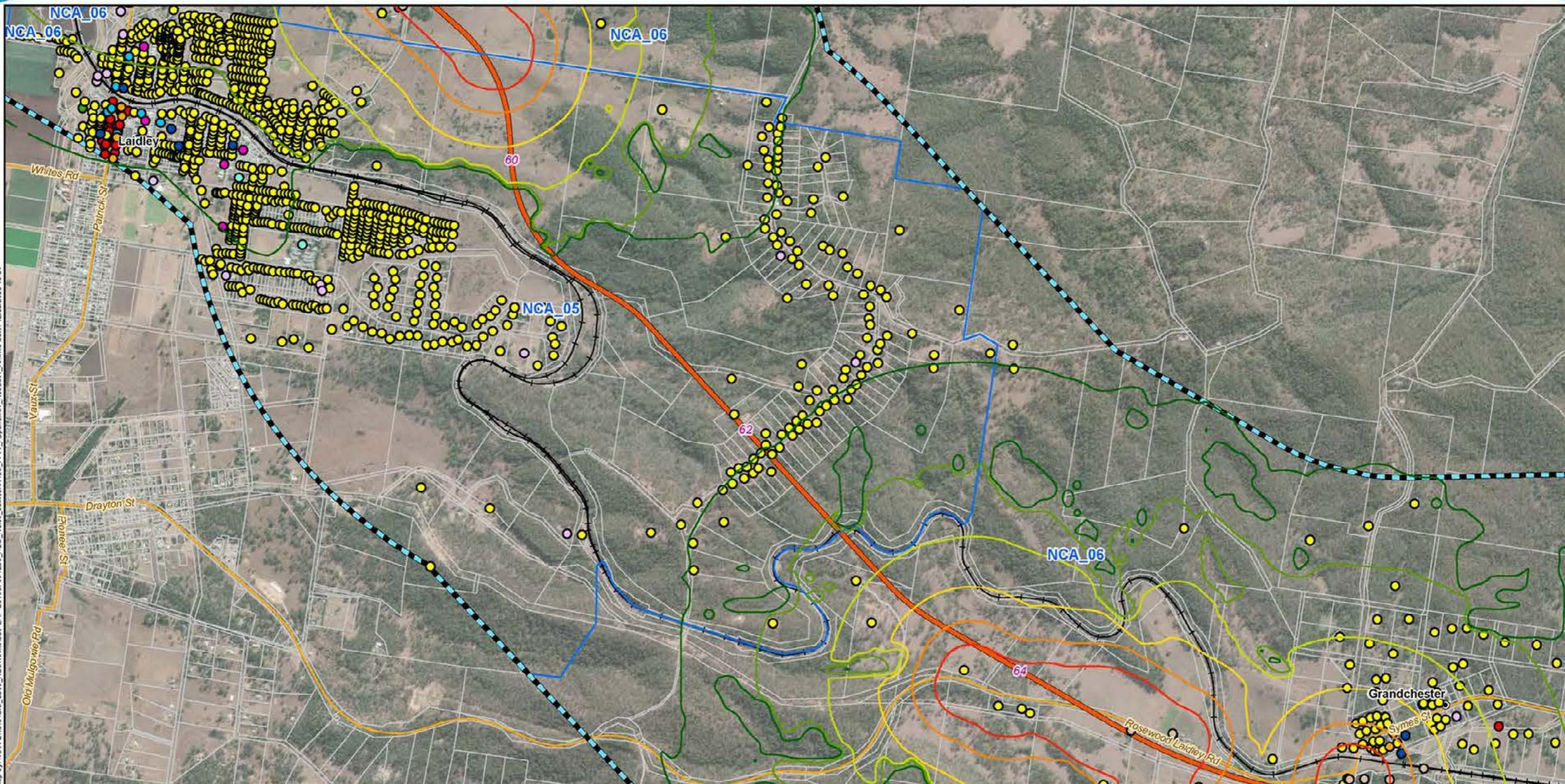
#### Sensitive Receptors

- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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70	

#### Sensitive Receptors

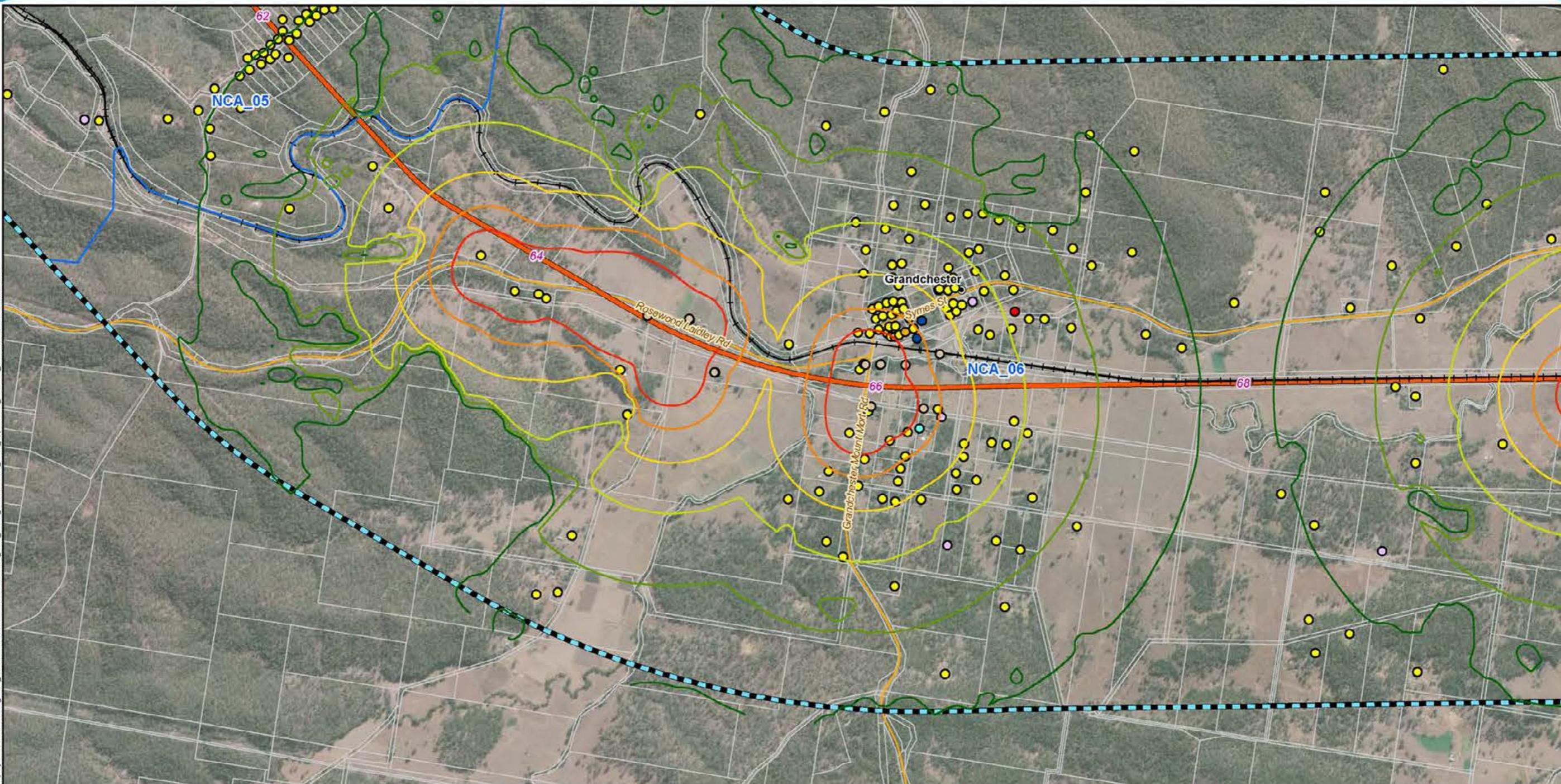
- Commercial
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- Medical/Health Facilities
- Commercial Office
- Residential
- Retail
- Hotel/Motel
- Sport Facilities



A3 scale: 1:23,000

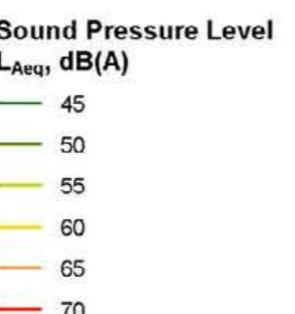
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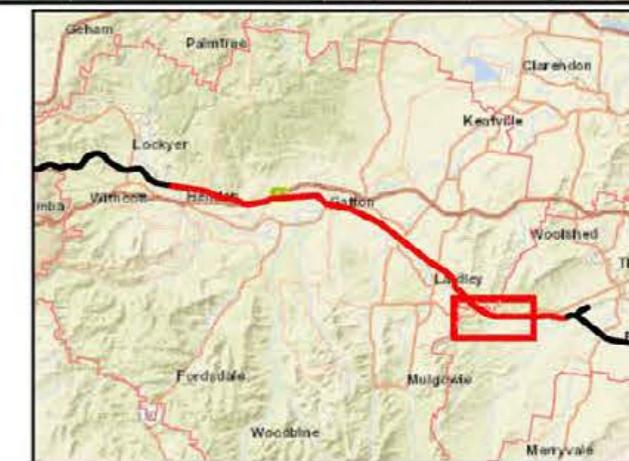


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



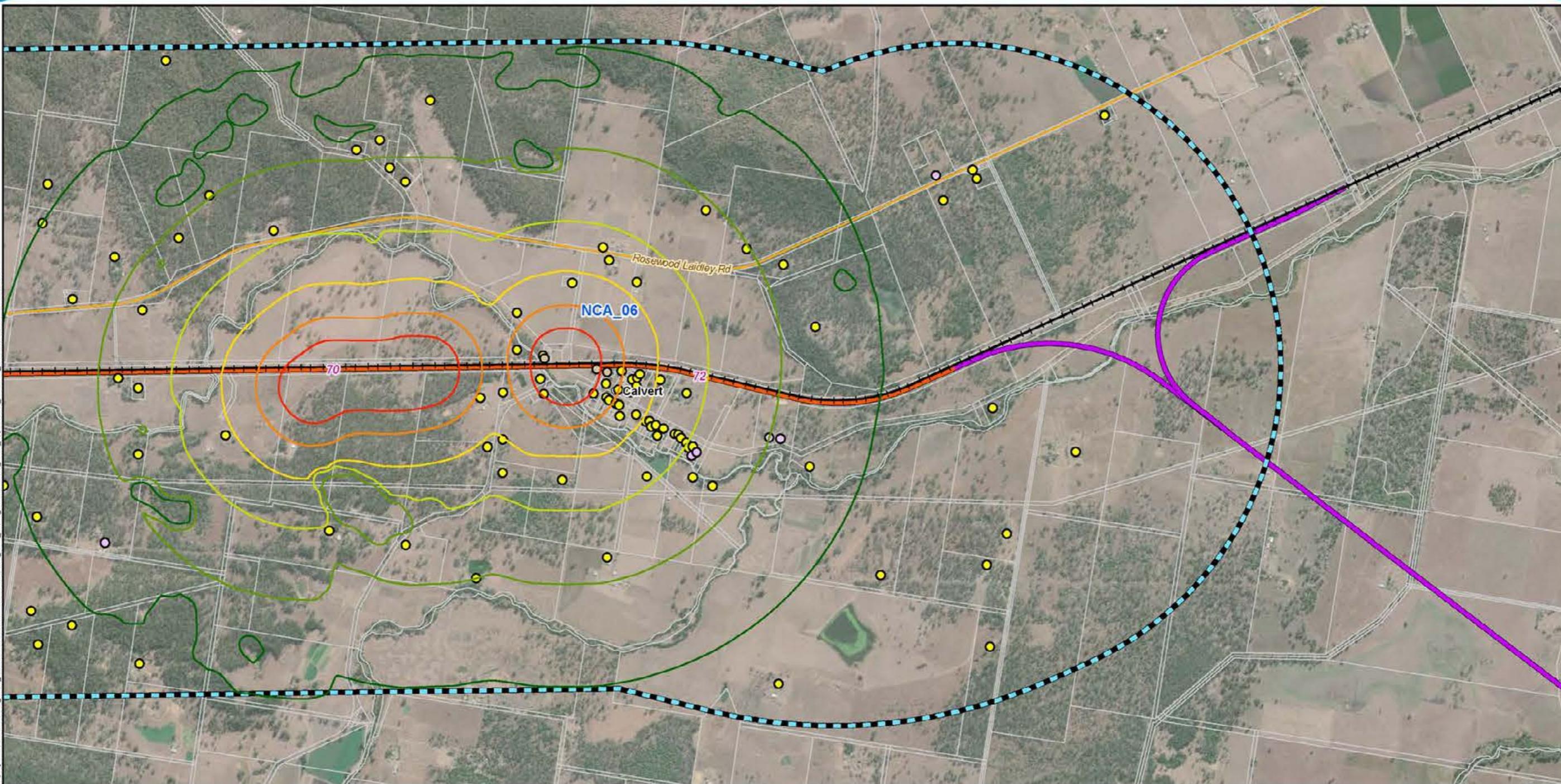
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





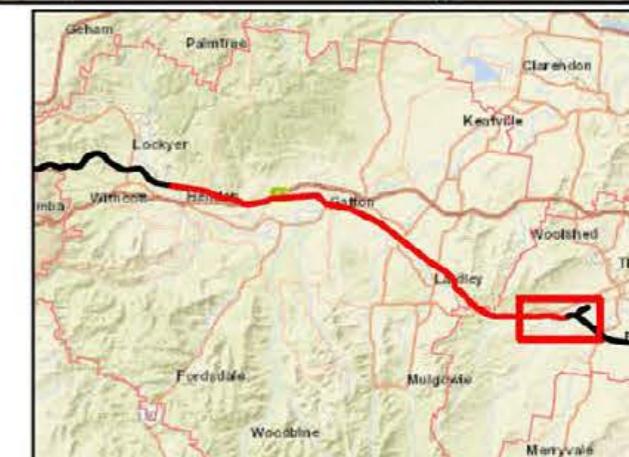
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
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—	50
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#### Sensitive Receptors

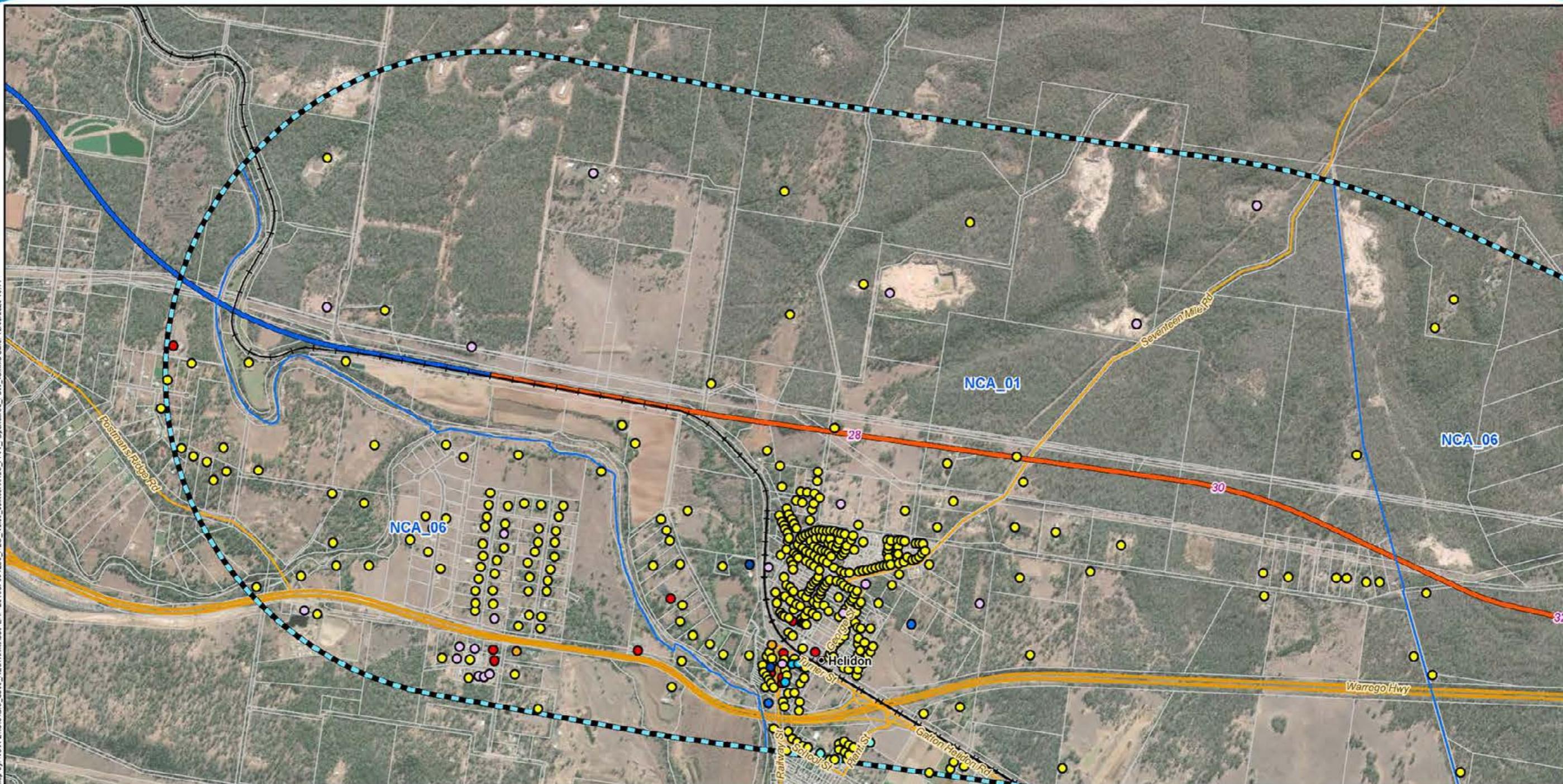
- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

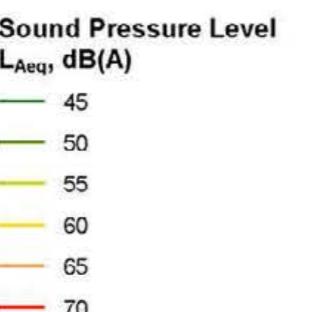
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



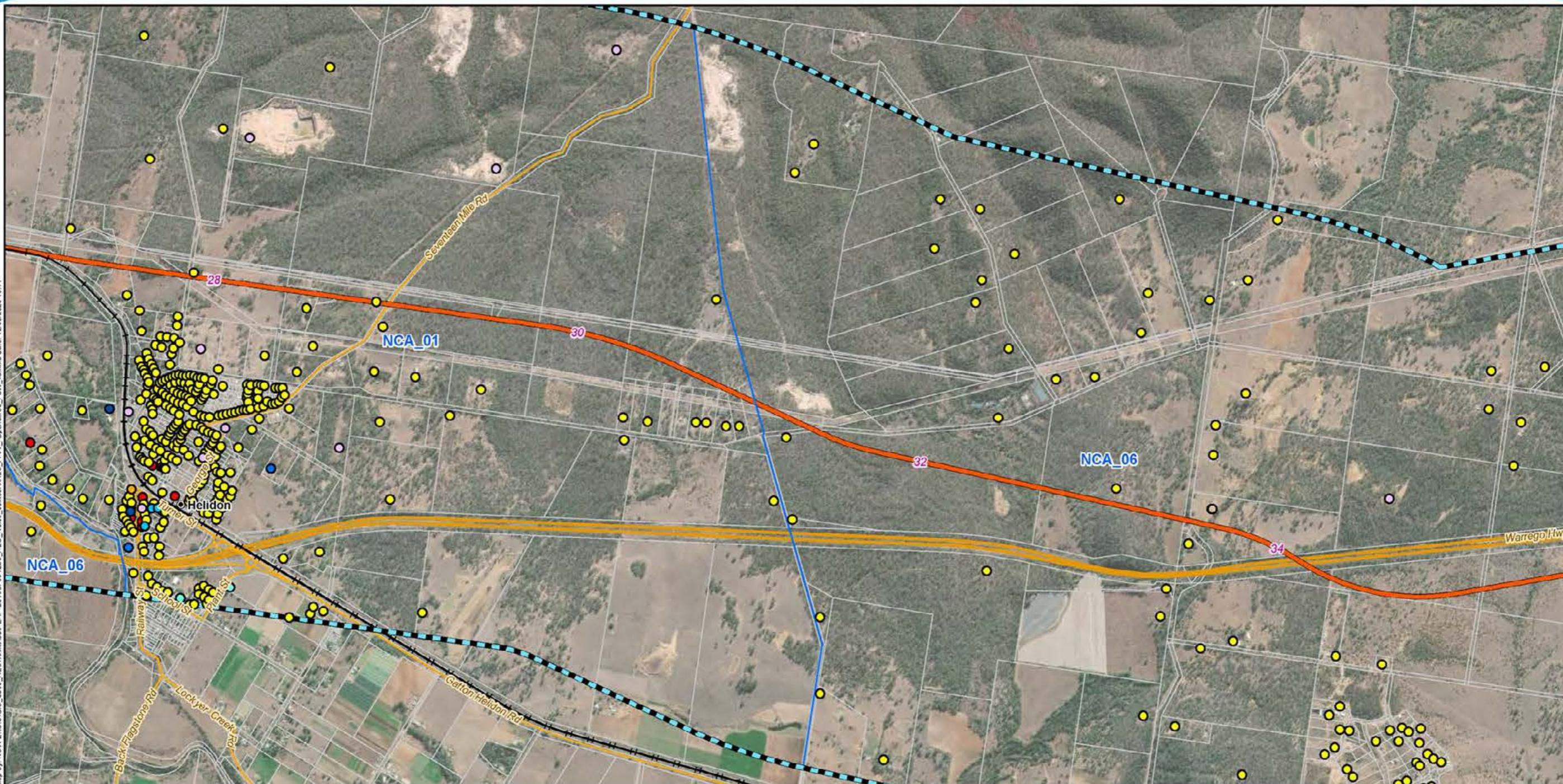
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Localities
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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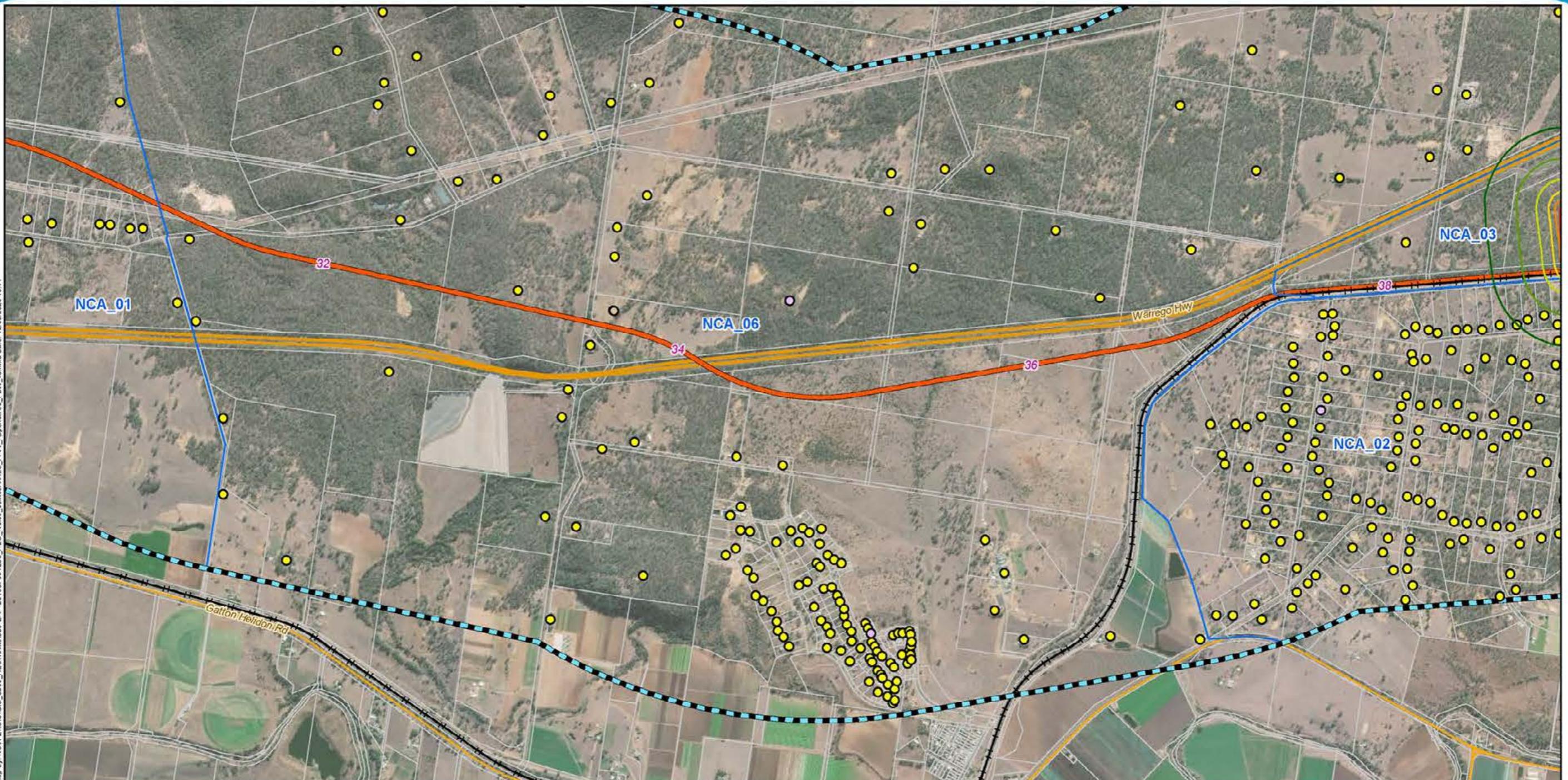
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- Commercial Office
- Outdoor Recreation
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- Hotel/Motel
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A3 scale: 1:23,000

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#### Legend

- 5 Chainage (km)
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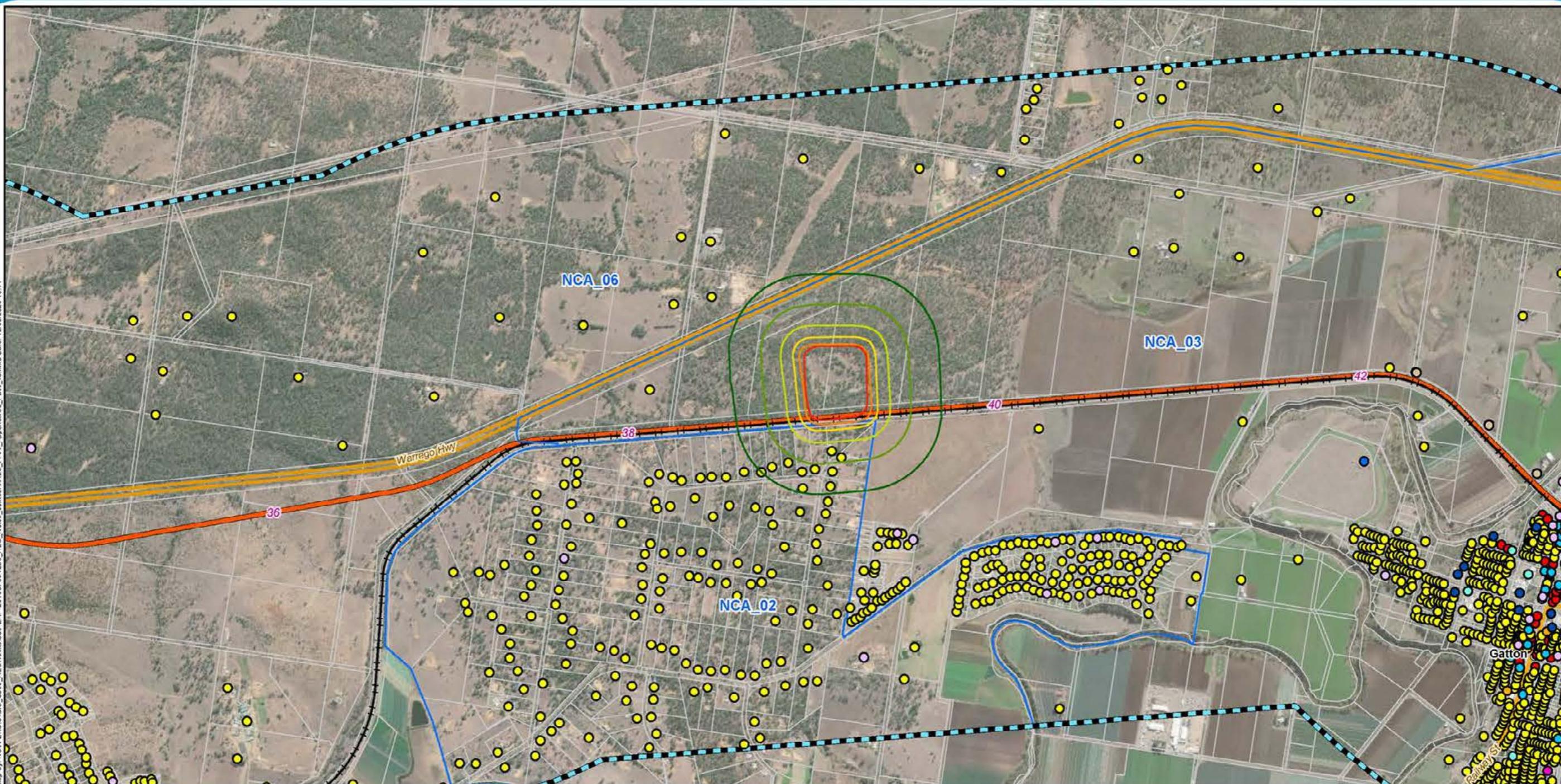
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A3 scale: 1:23,000

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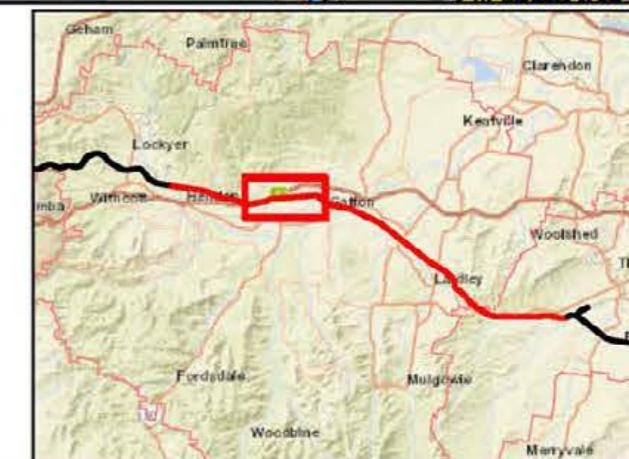
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- 5 Chainage (km)
- Localities
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

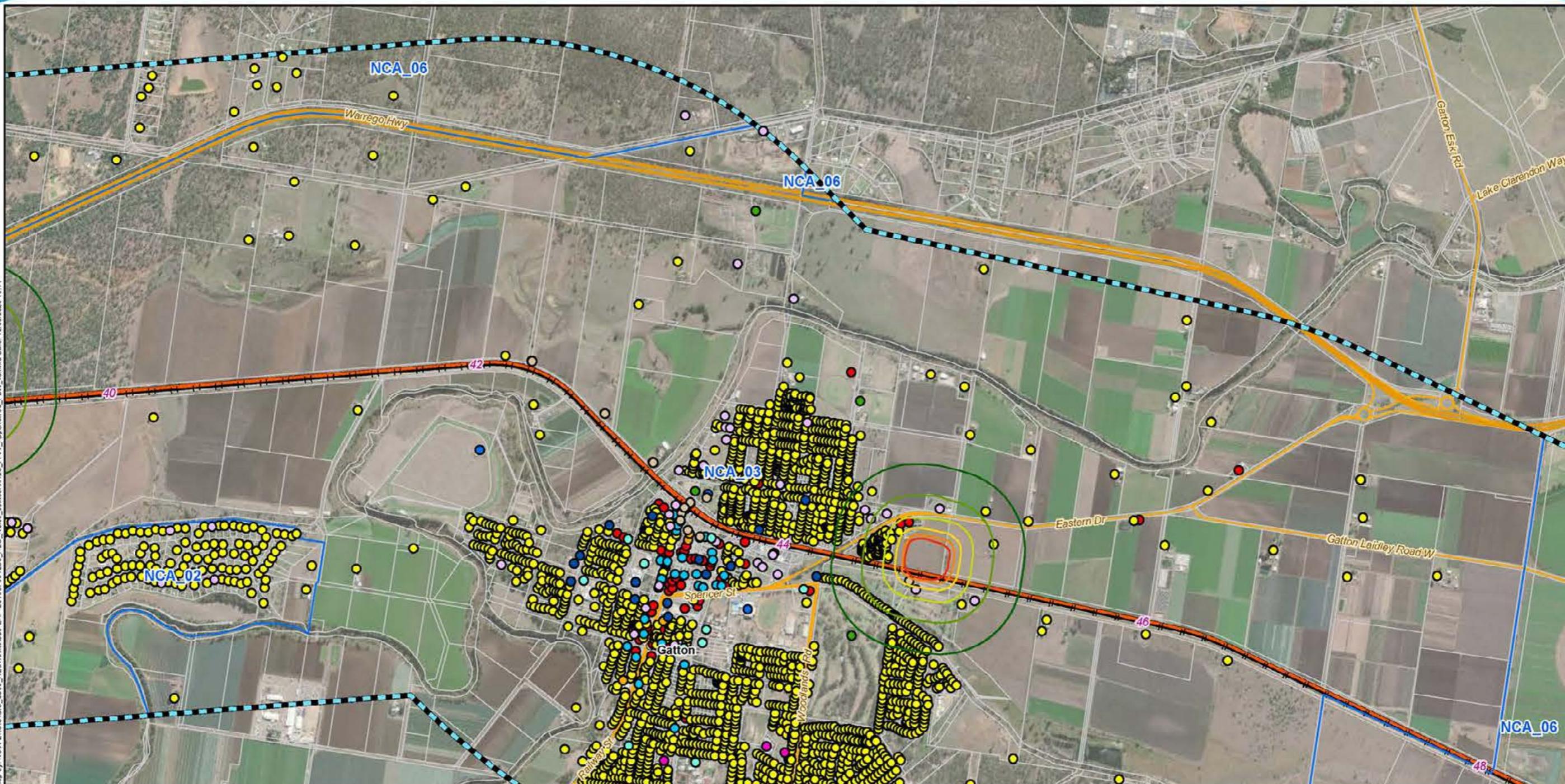
- Commercial
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- Medical/Health Facilities
- Heritage
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





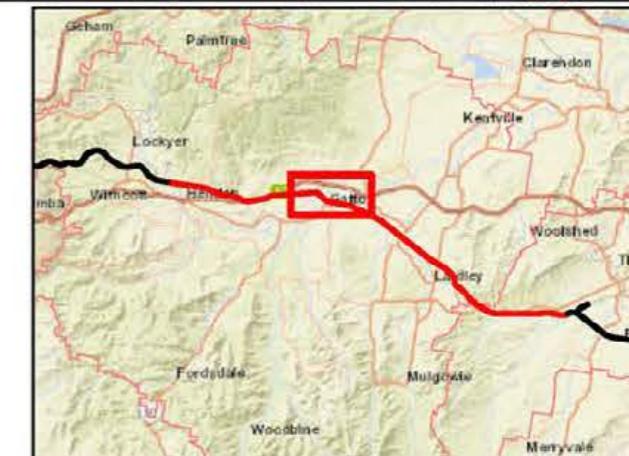
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- 5 Chainage (km)
- Localities
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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#### Sensitive Receptors

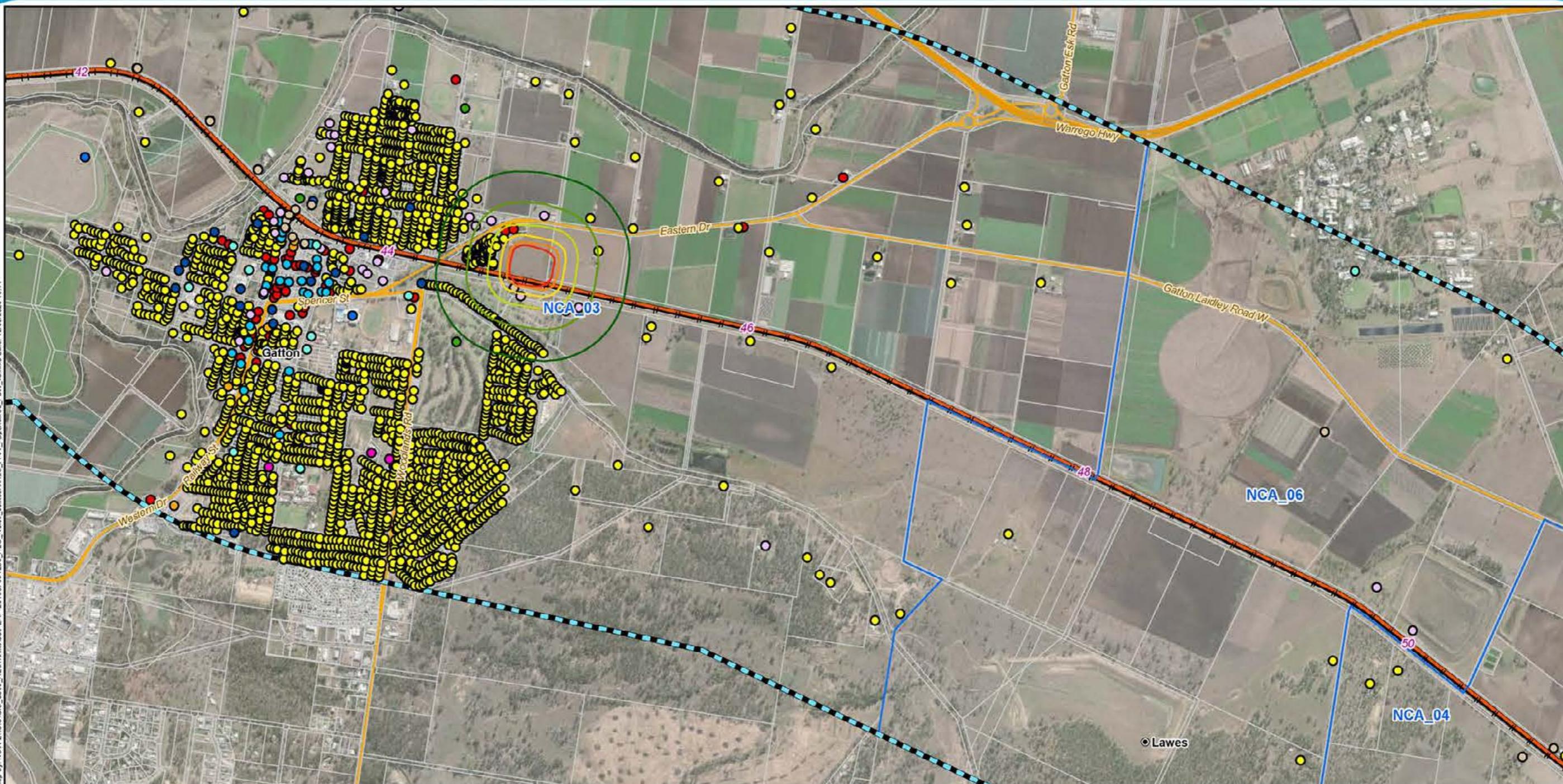
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A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





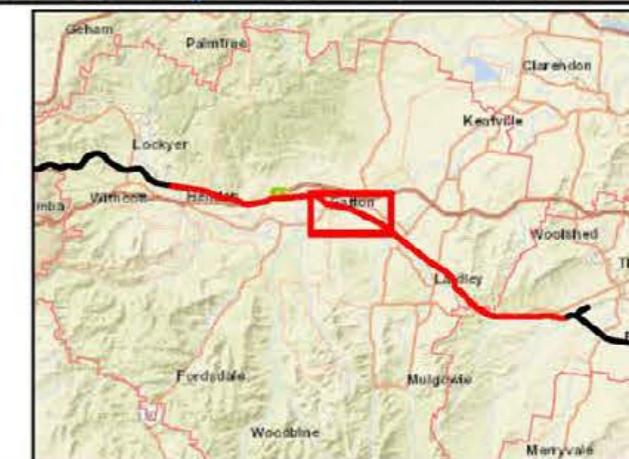
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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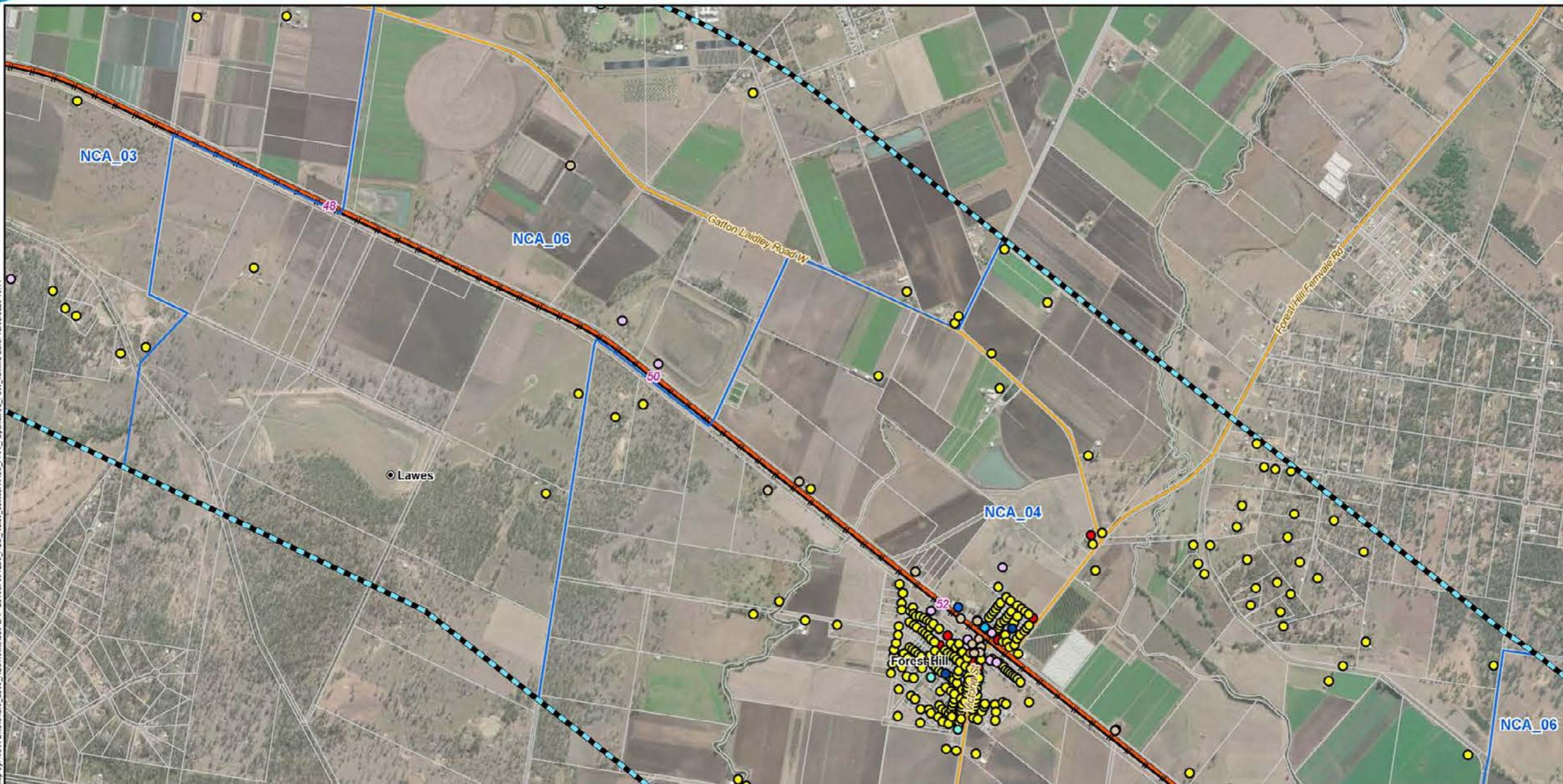
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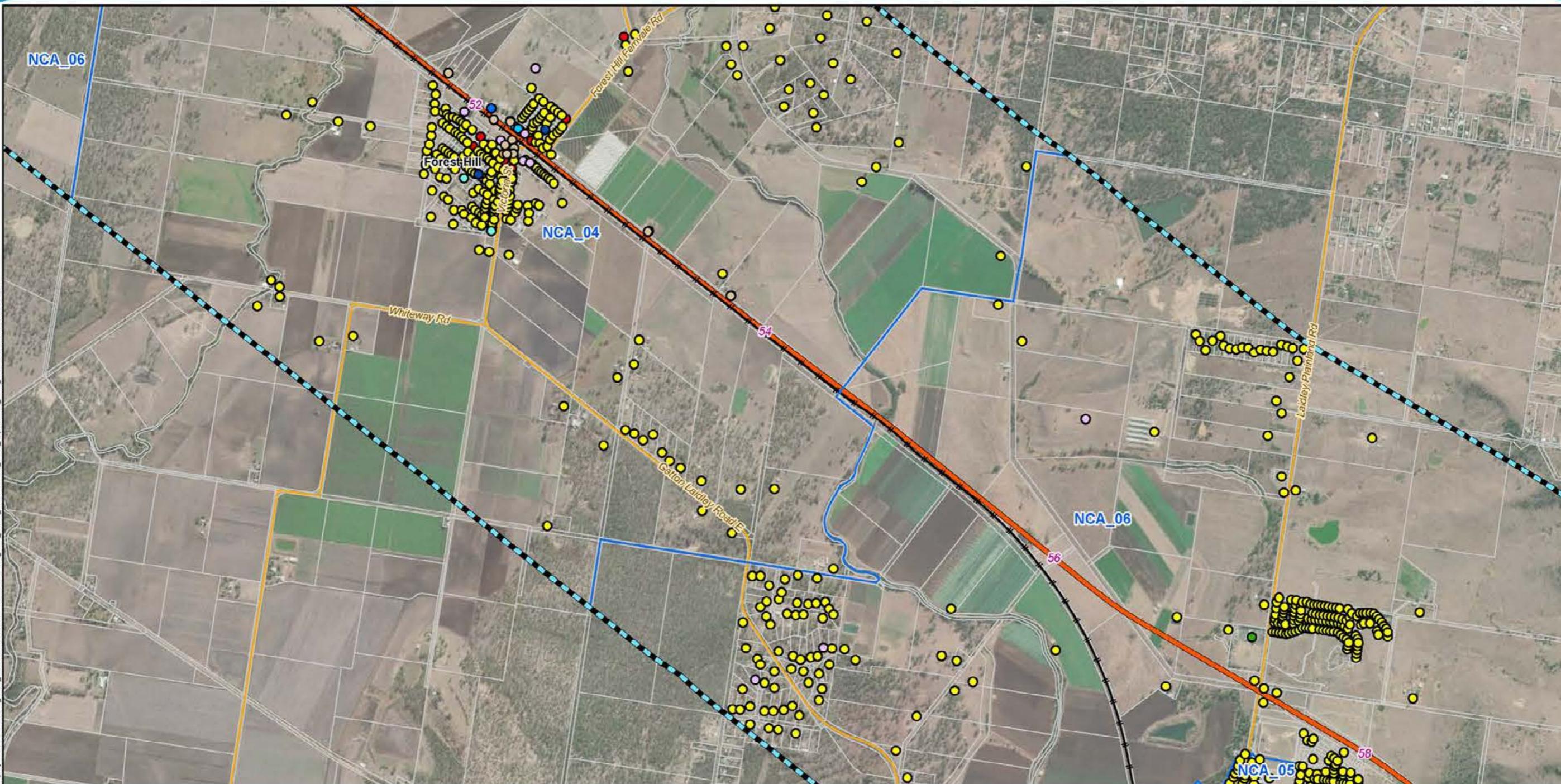
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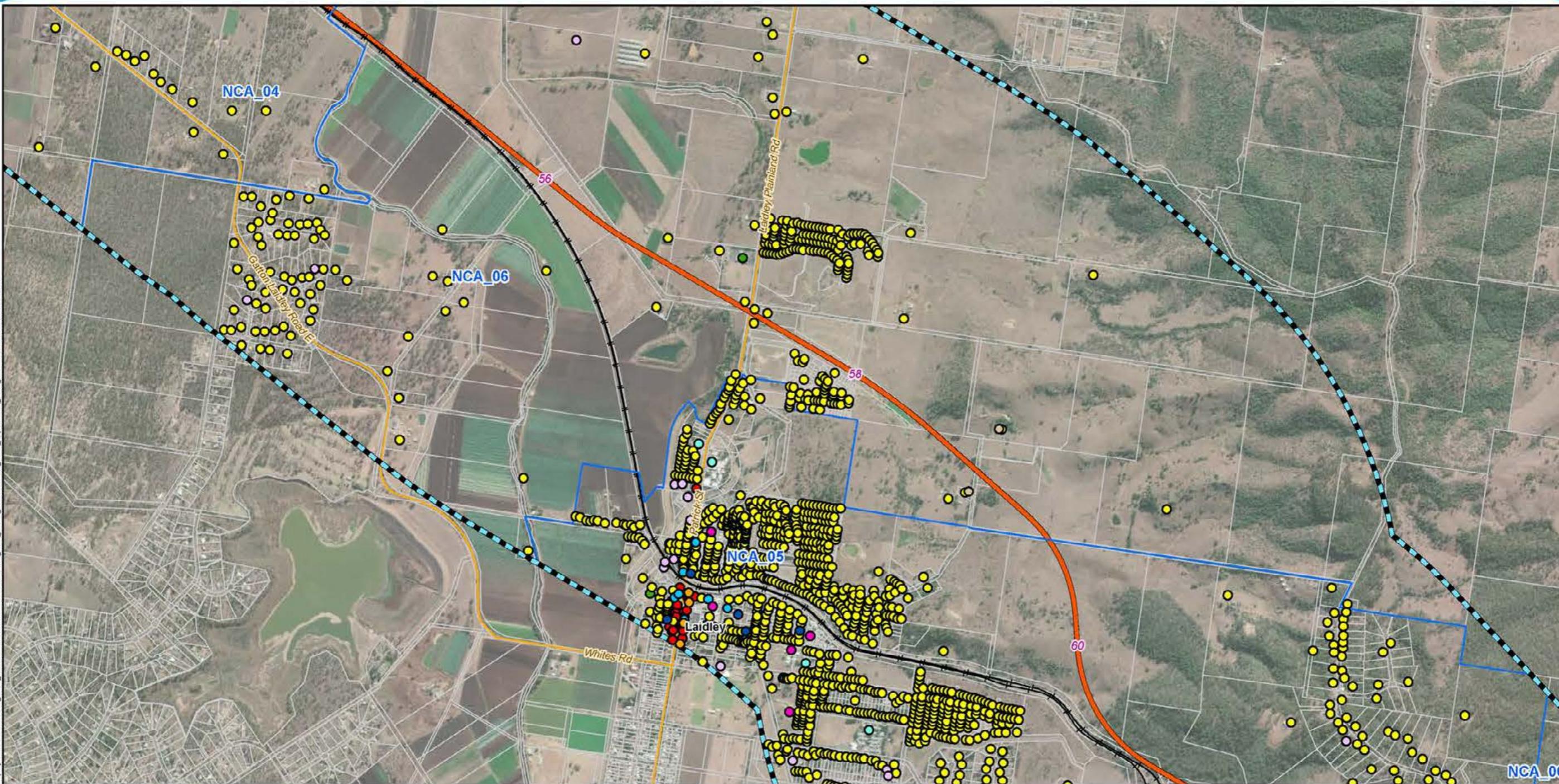
#### Sensitive Receptors

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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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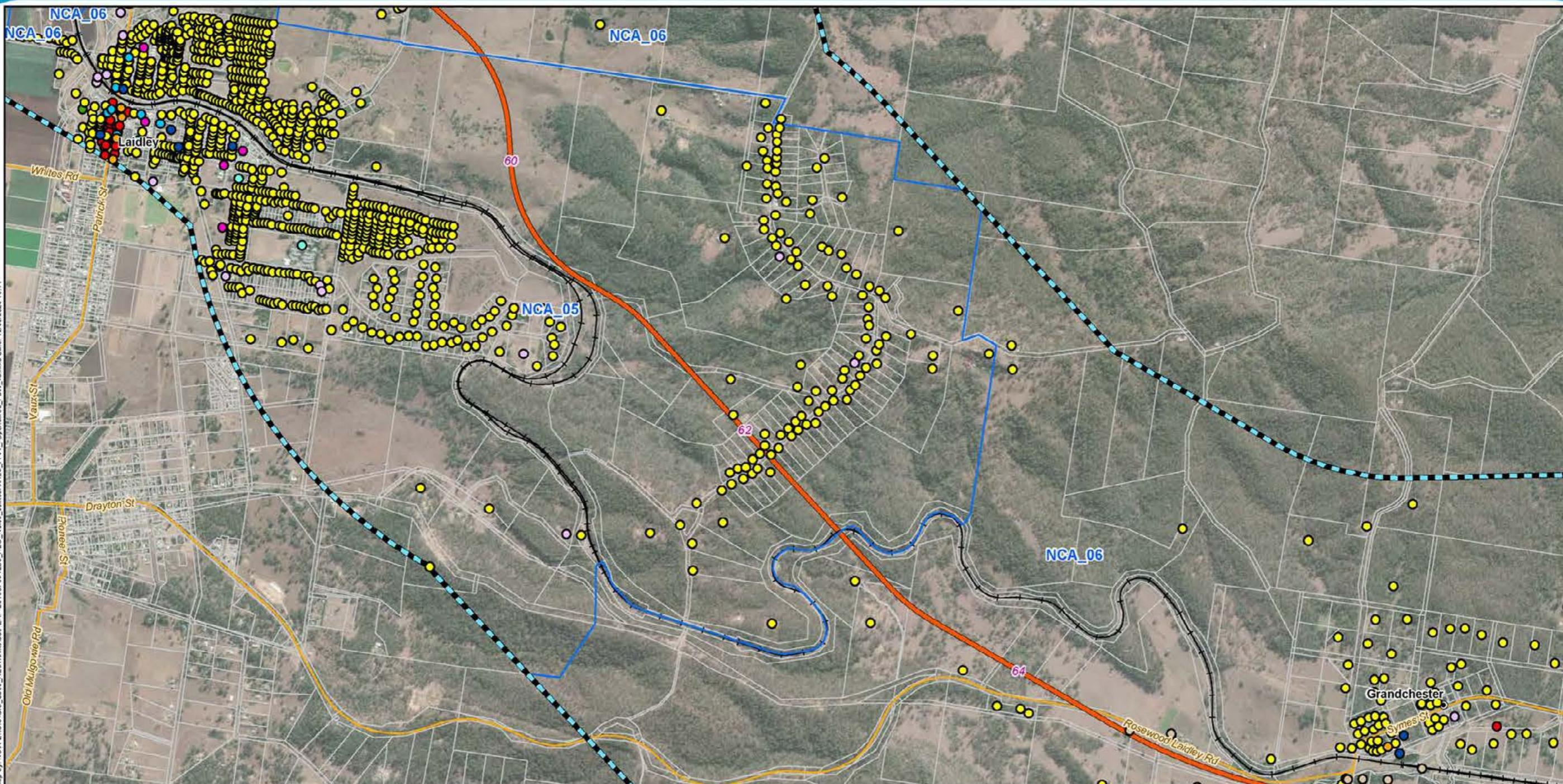
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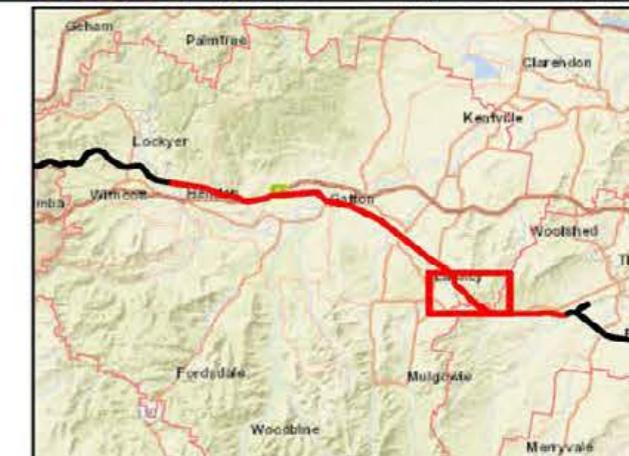
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- Localities
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Sound Pressure Level $L_{Aeq}$ , dB(A)	
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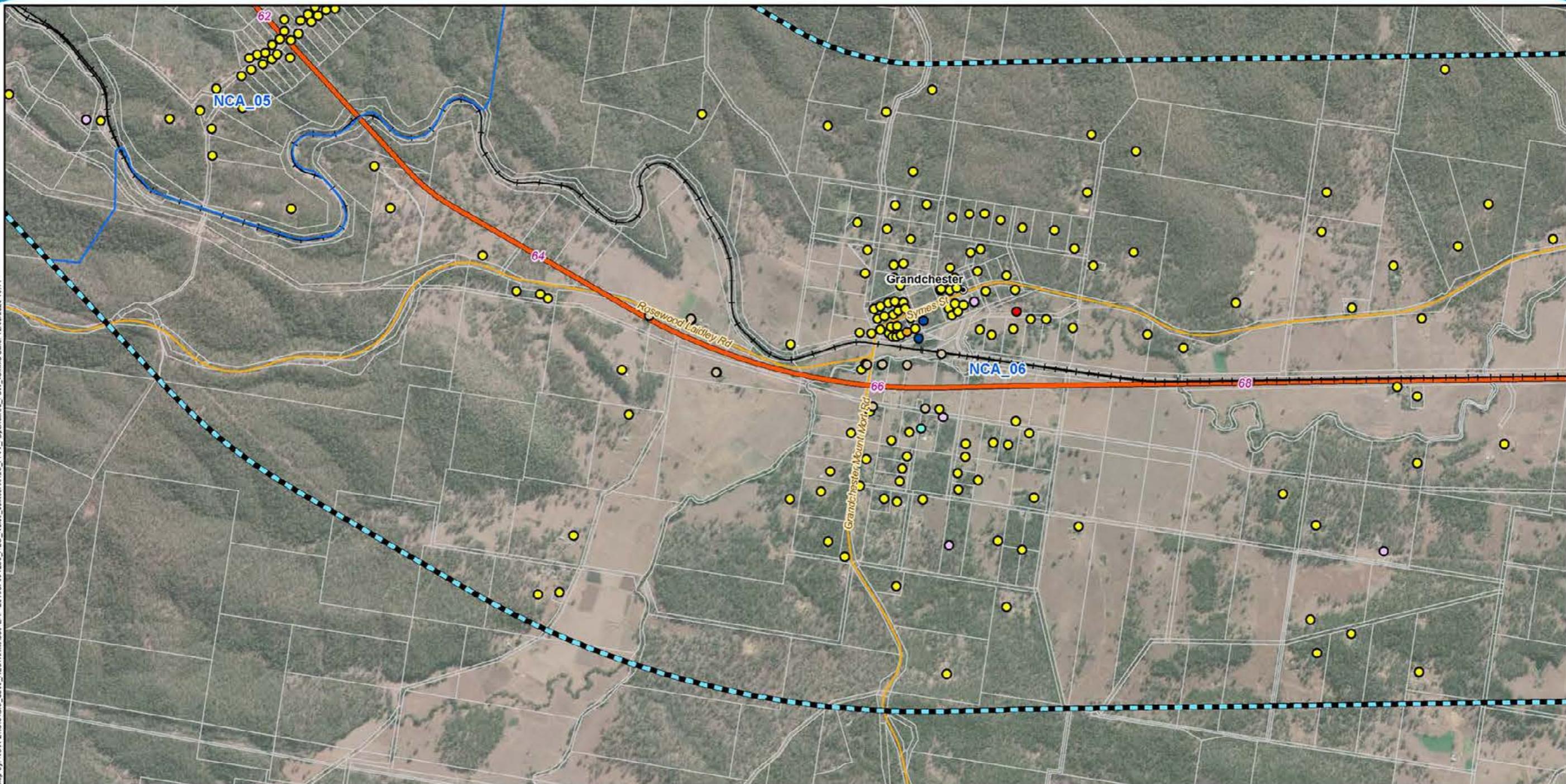
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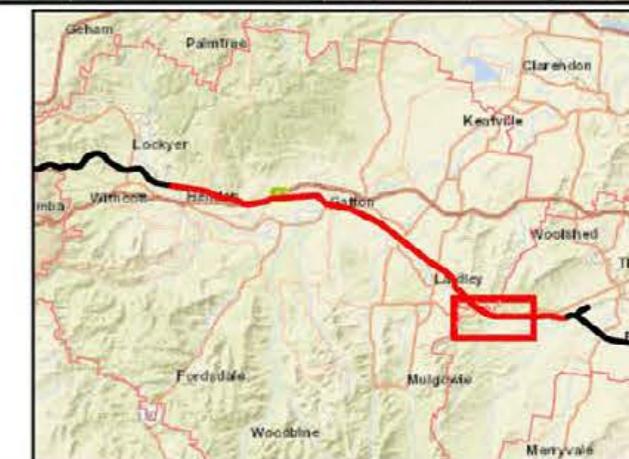
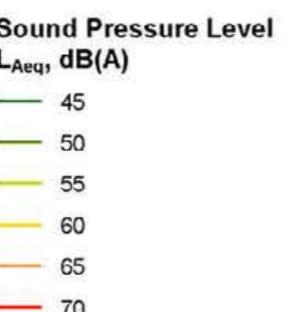
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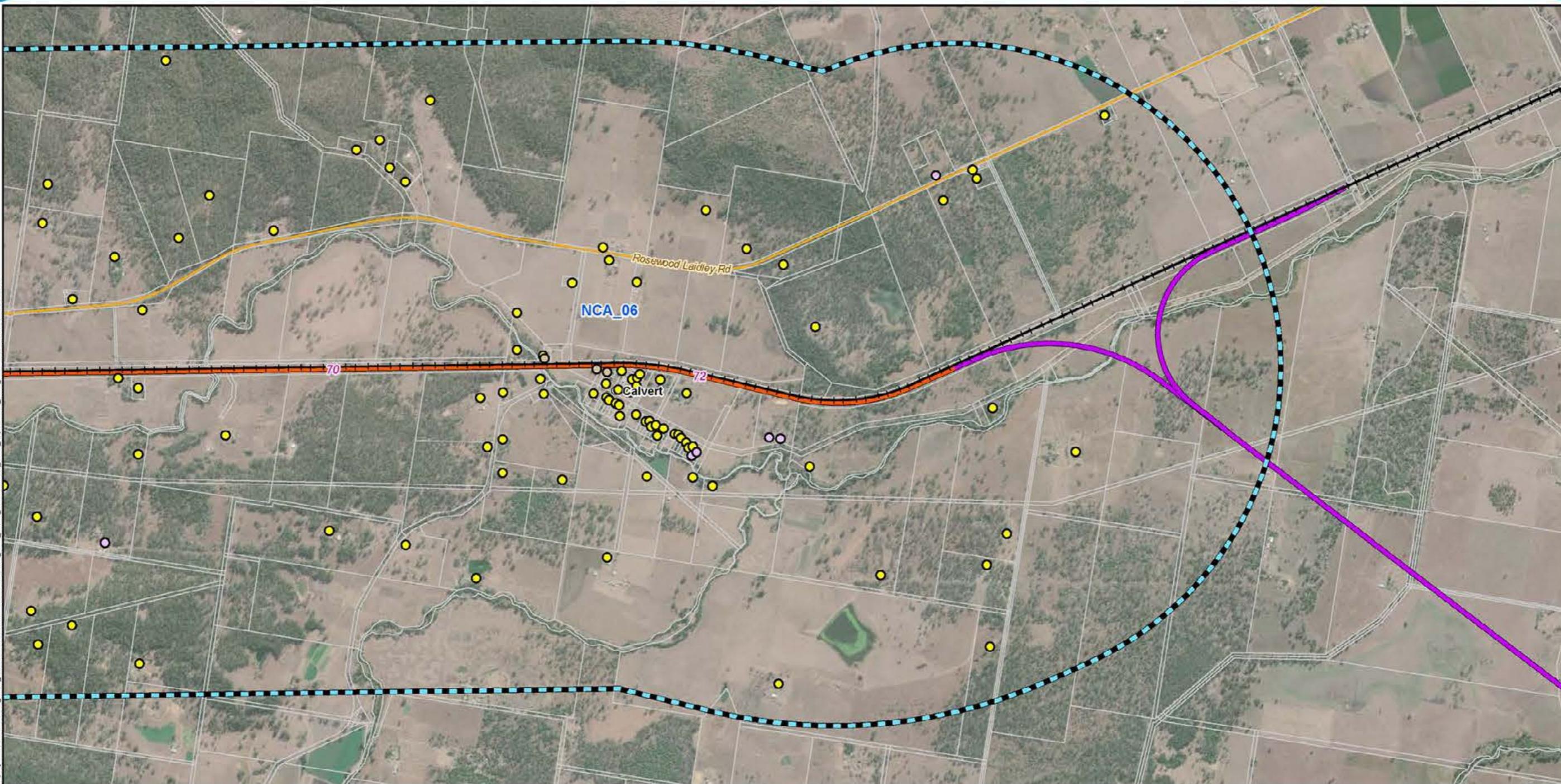
#### Legend

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- Major roads
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- NCA
- Noise and vibration study area



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



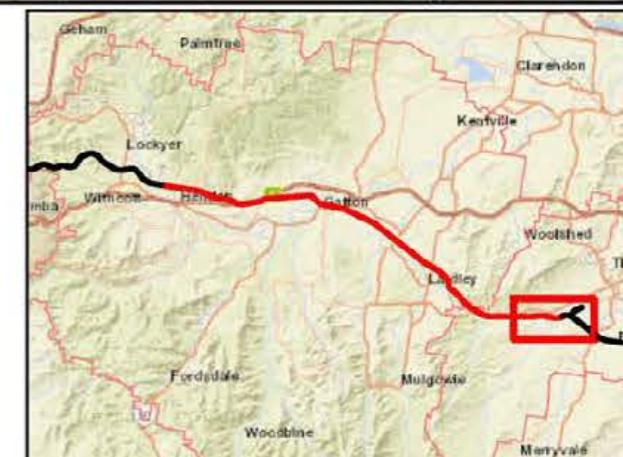
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
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#### Sensitive Receptors

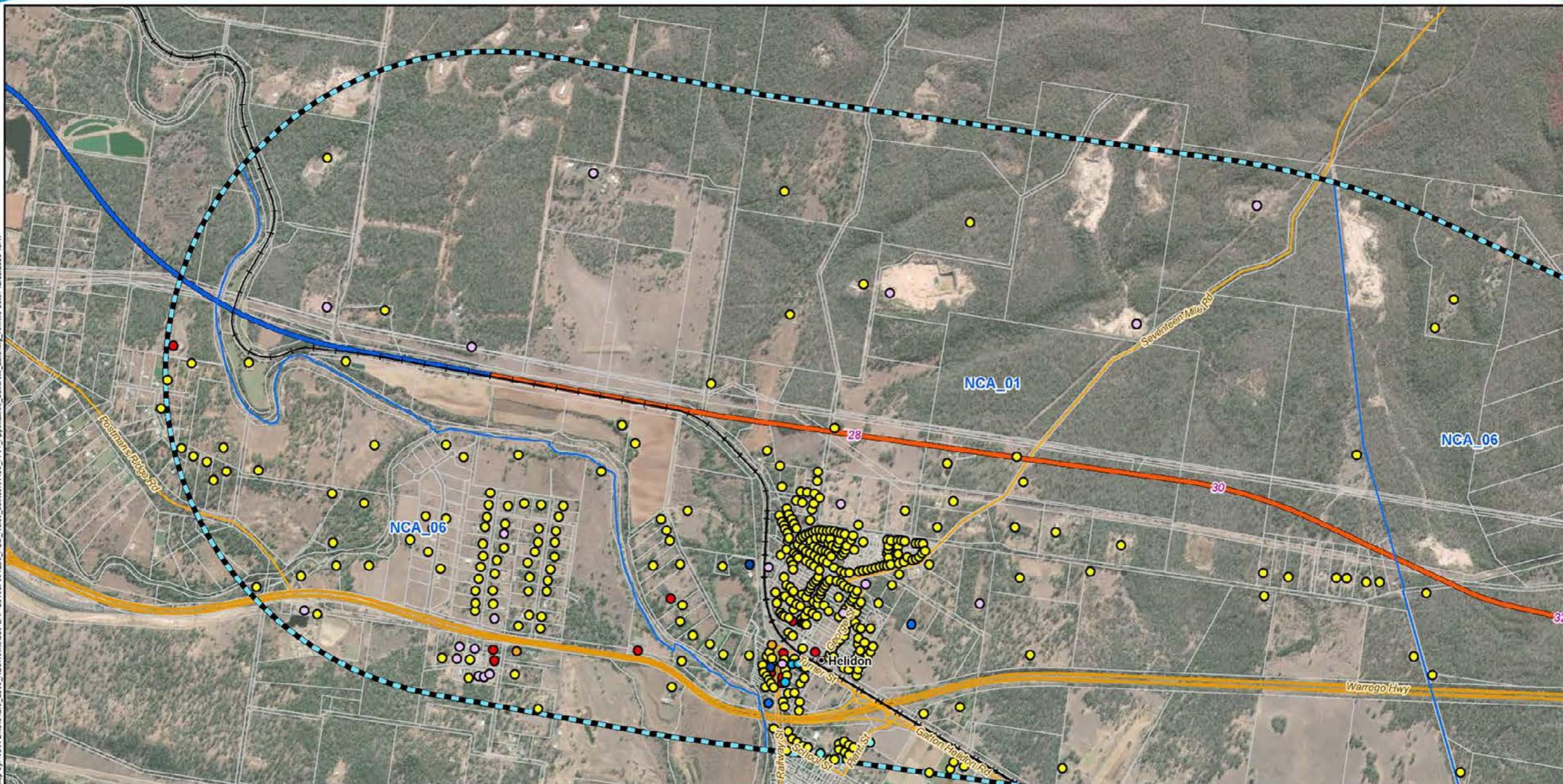
- Heritage
- Industrial
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A3 scale: 1:23,000

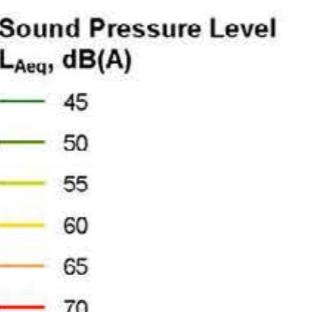
0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- G2H project alignment
- H2C project alignment
- Major roads
- Minor roads
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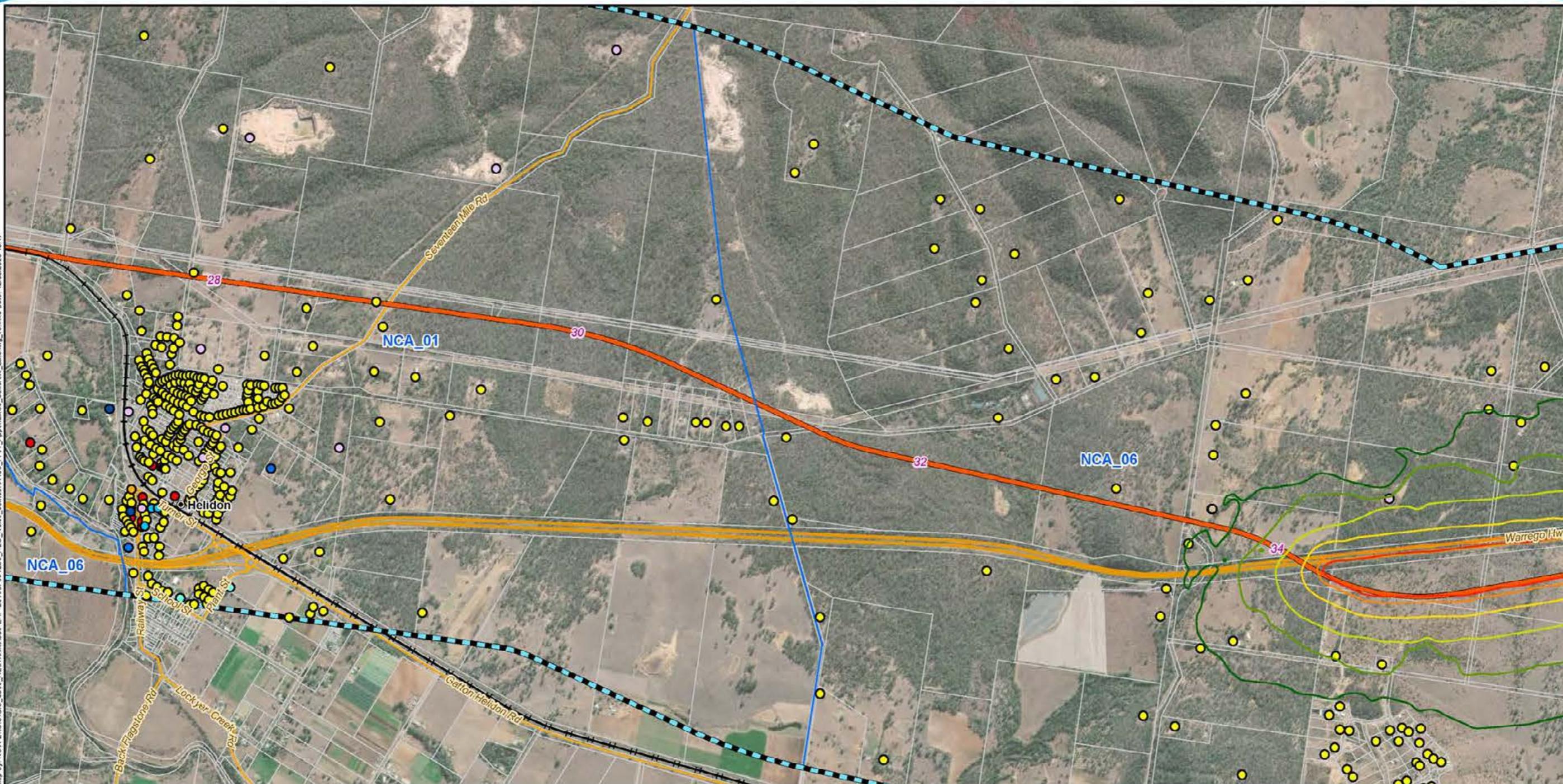
- Sensitive Receptors**
- Commercial
  - Education
  - Hotel/Motel
  - Industrial
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  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





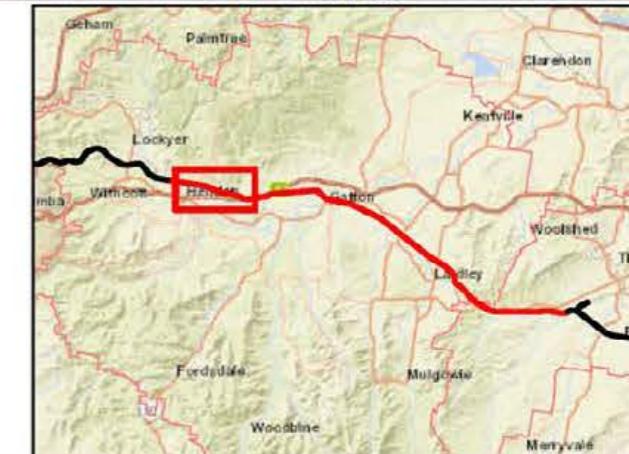
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- H2C project alignment
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- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

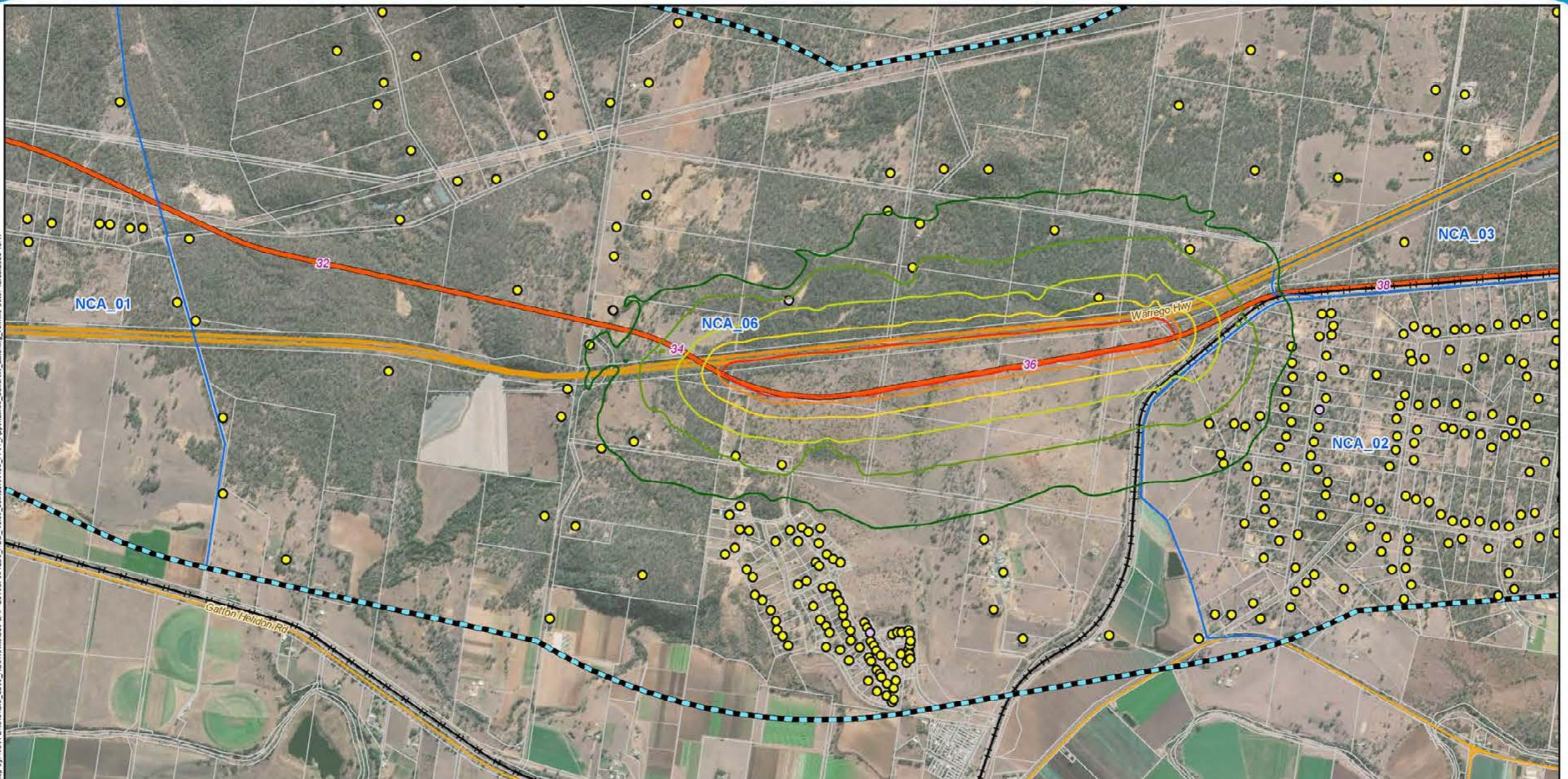
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Outdoor Recreation
- Heritage
- Hotel/Motel
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

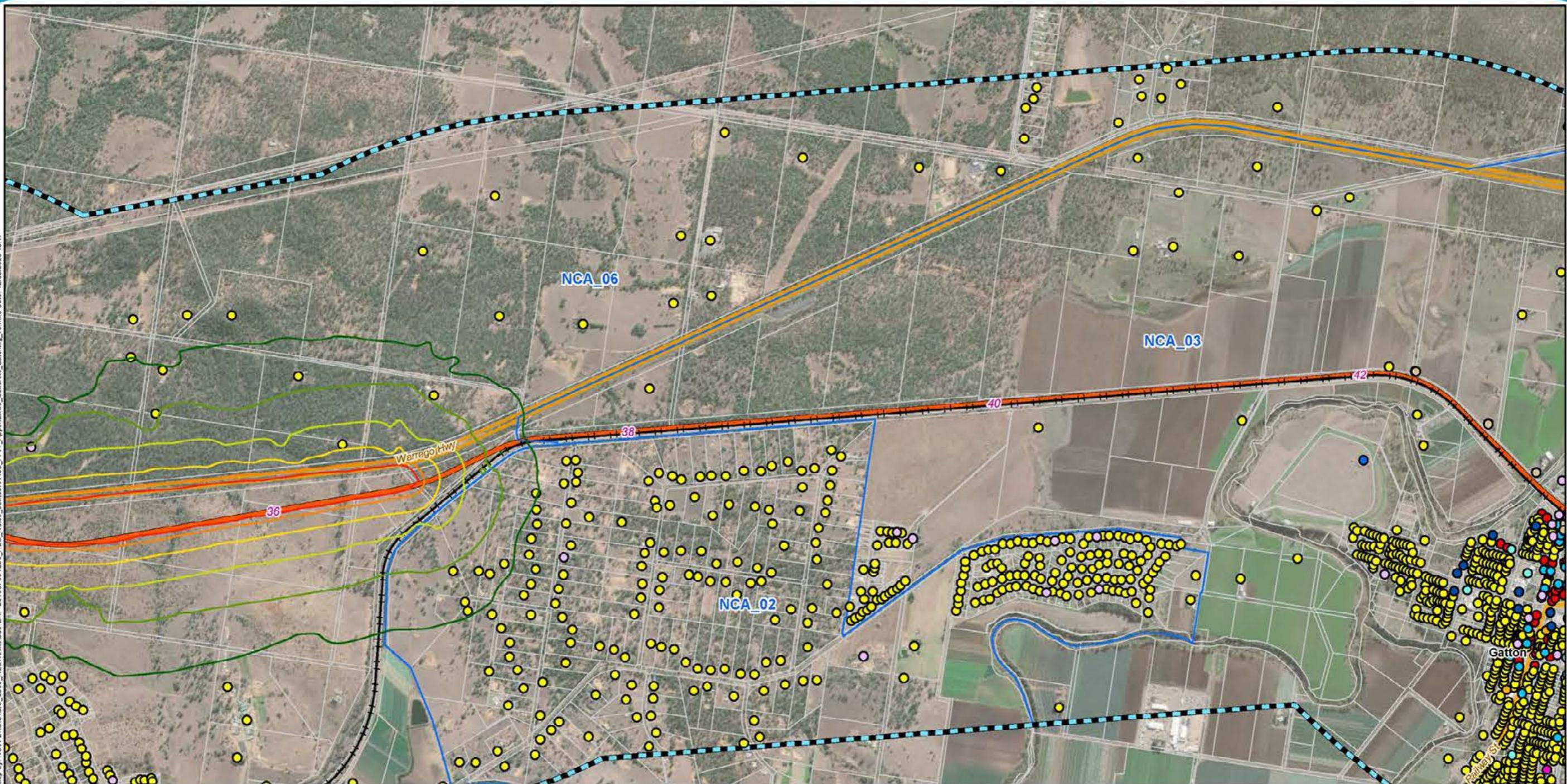
#### Sensitive Receptors

- Heritage
- Industrial
- Residential



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



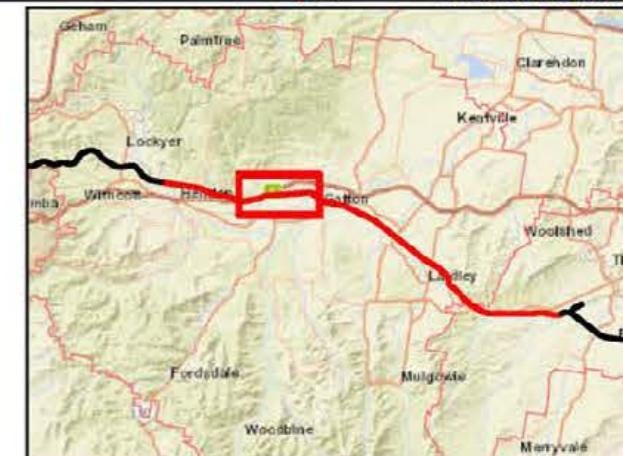
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

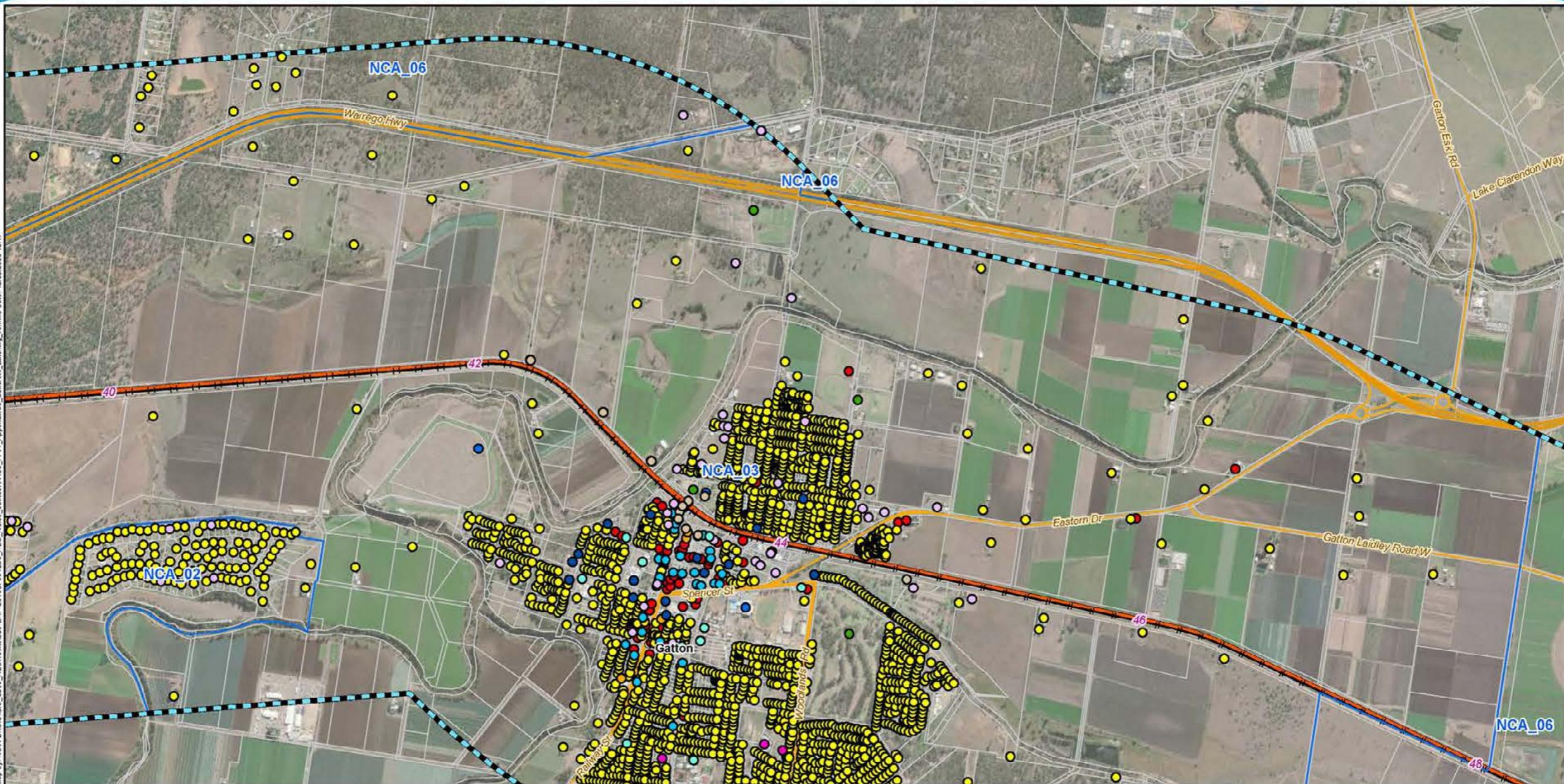
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

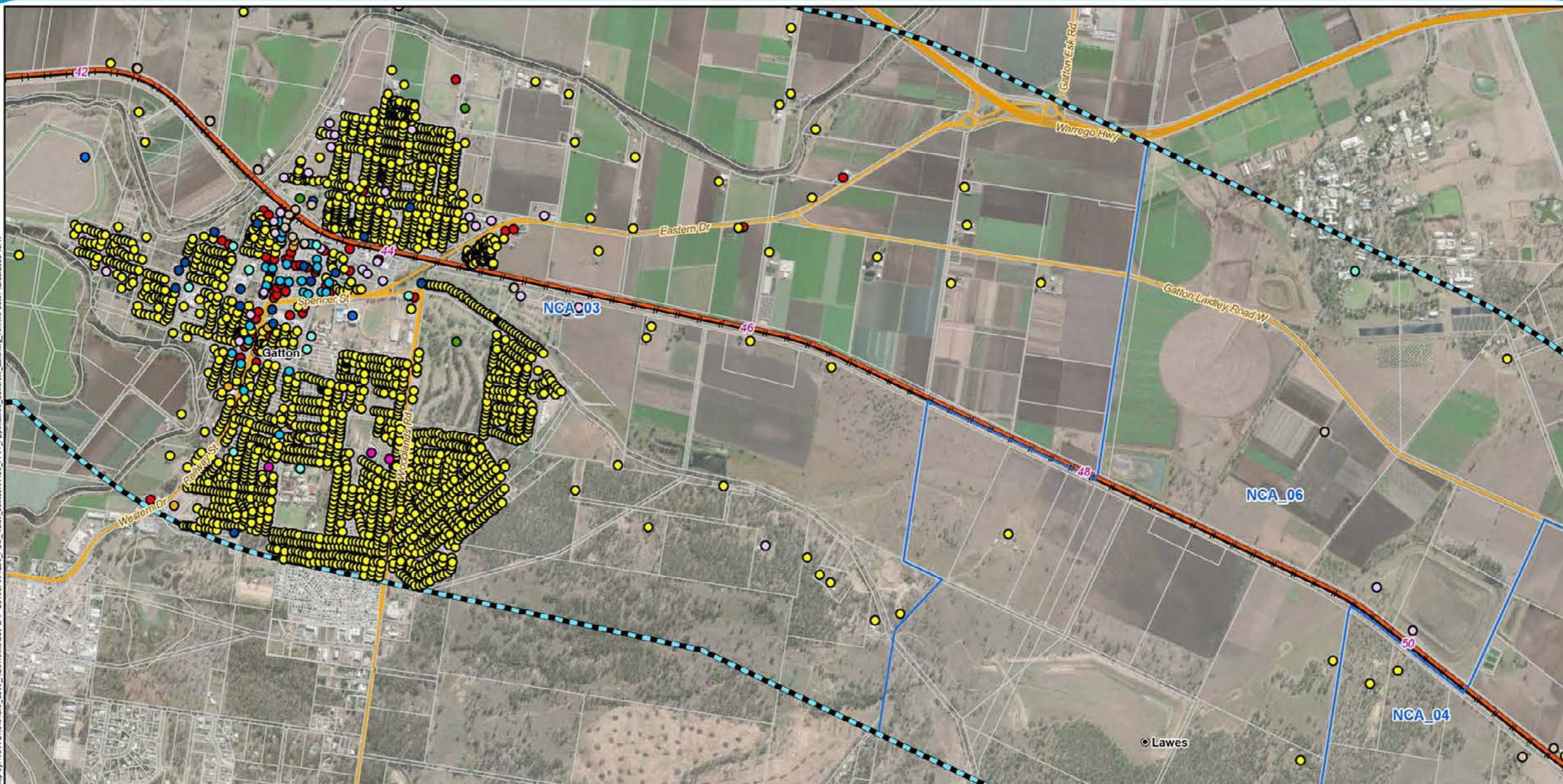
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Outdoor Recreation
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





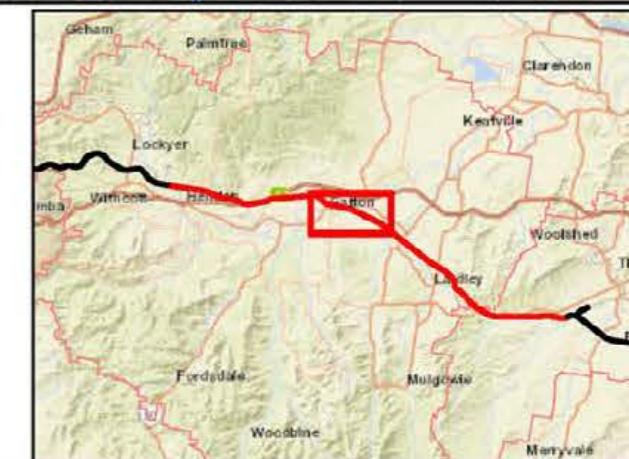
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

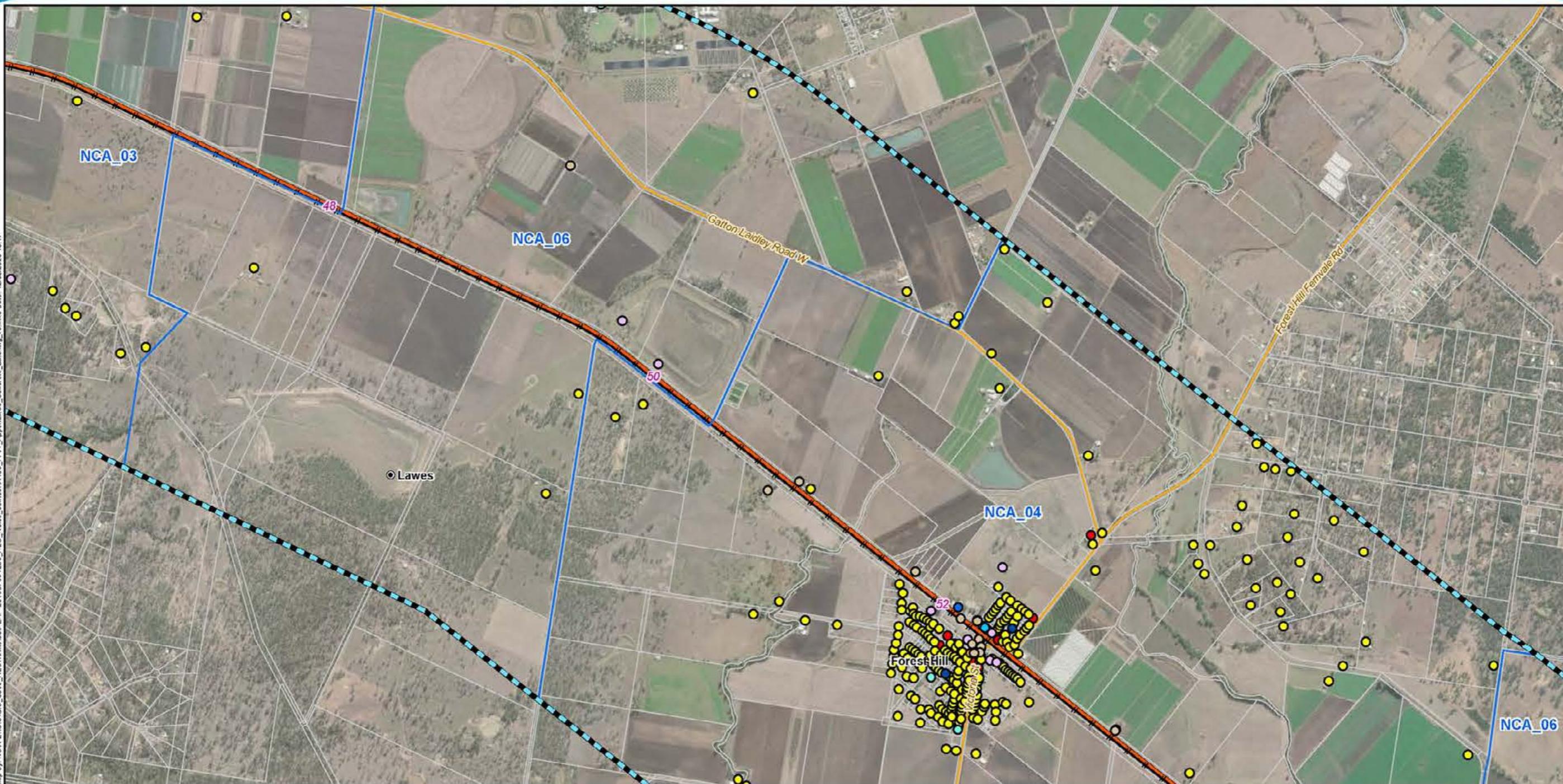
- Commercial
- Industrial
- Residential
- Education
- Medical/Health Facilities
- Retail
- Heritage
- Commercial Office
- Sport Facilities
- Hotel/Motel
- Outdoor Recreation



A3 scale: 1:23,000

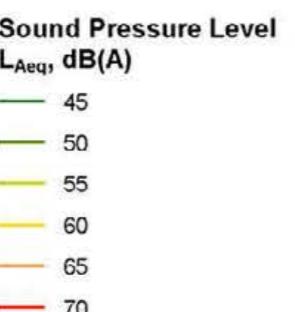
0 0.2 0.4 0.6 0.8 1km



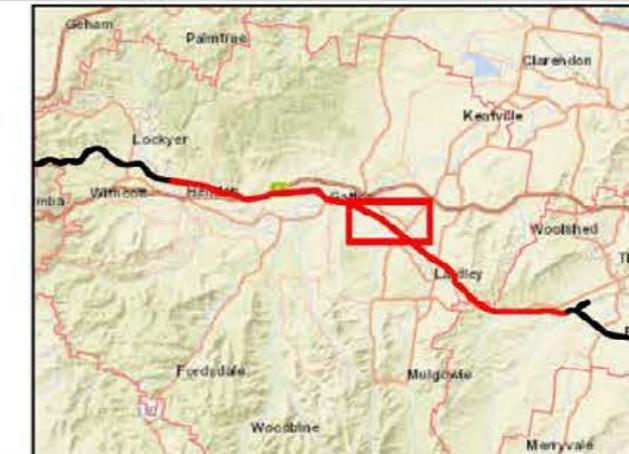


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area



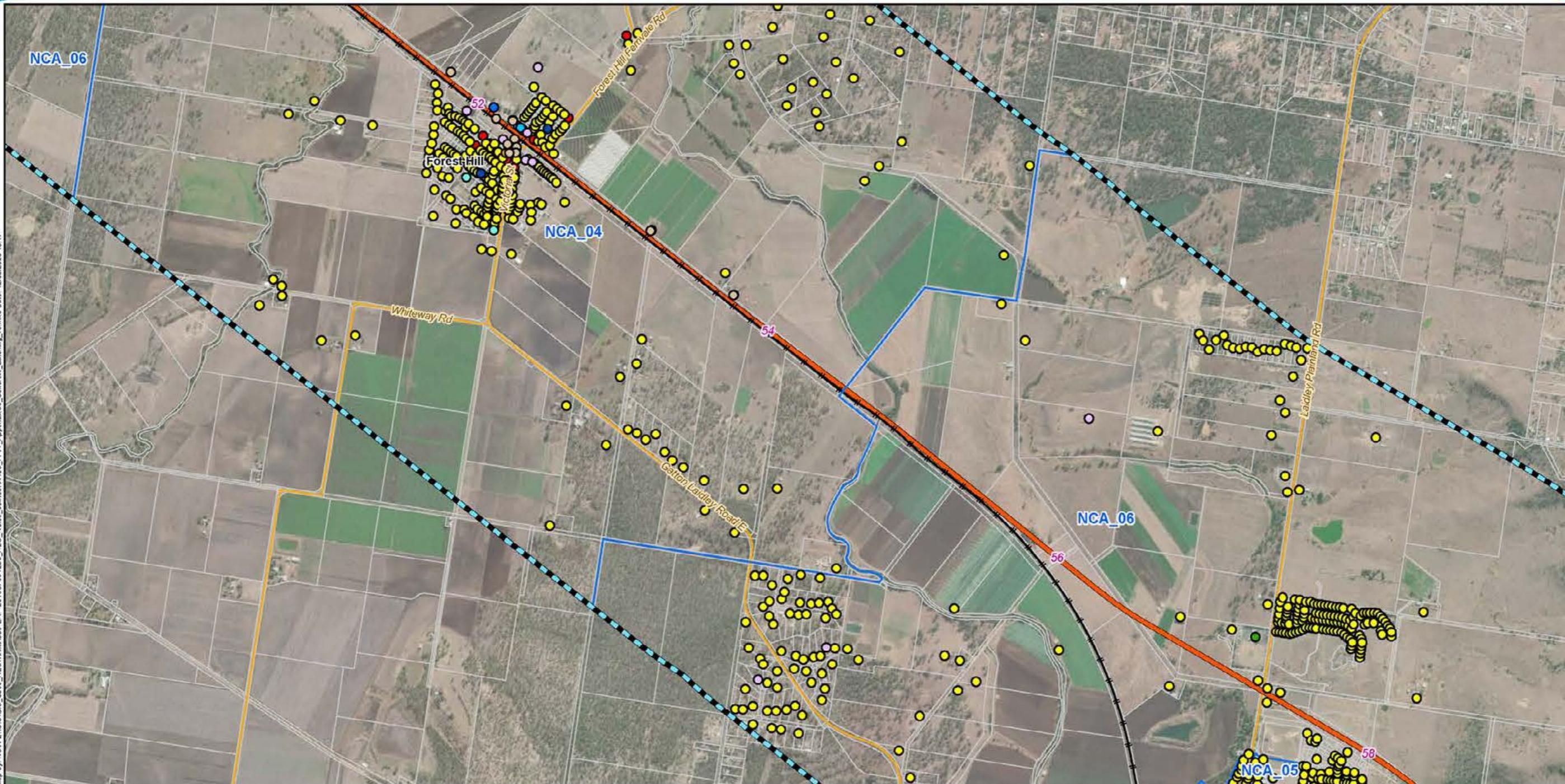
- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Commercial Office
  - Outdoor Recreation
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





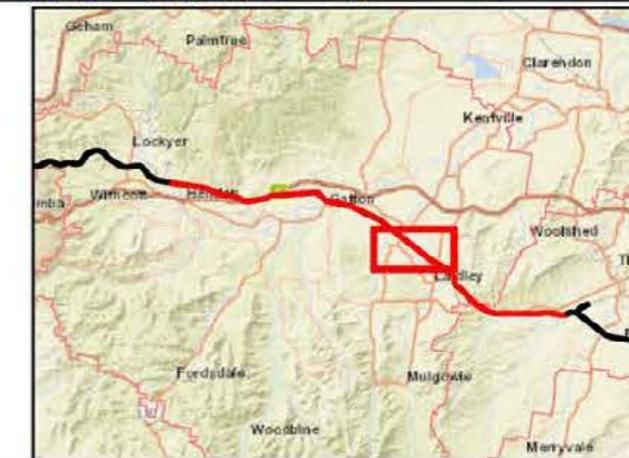
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

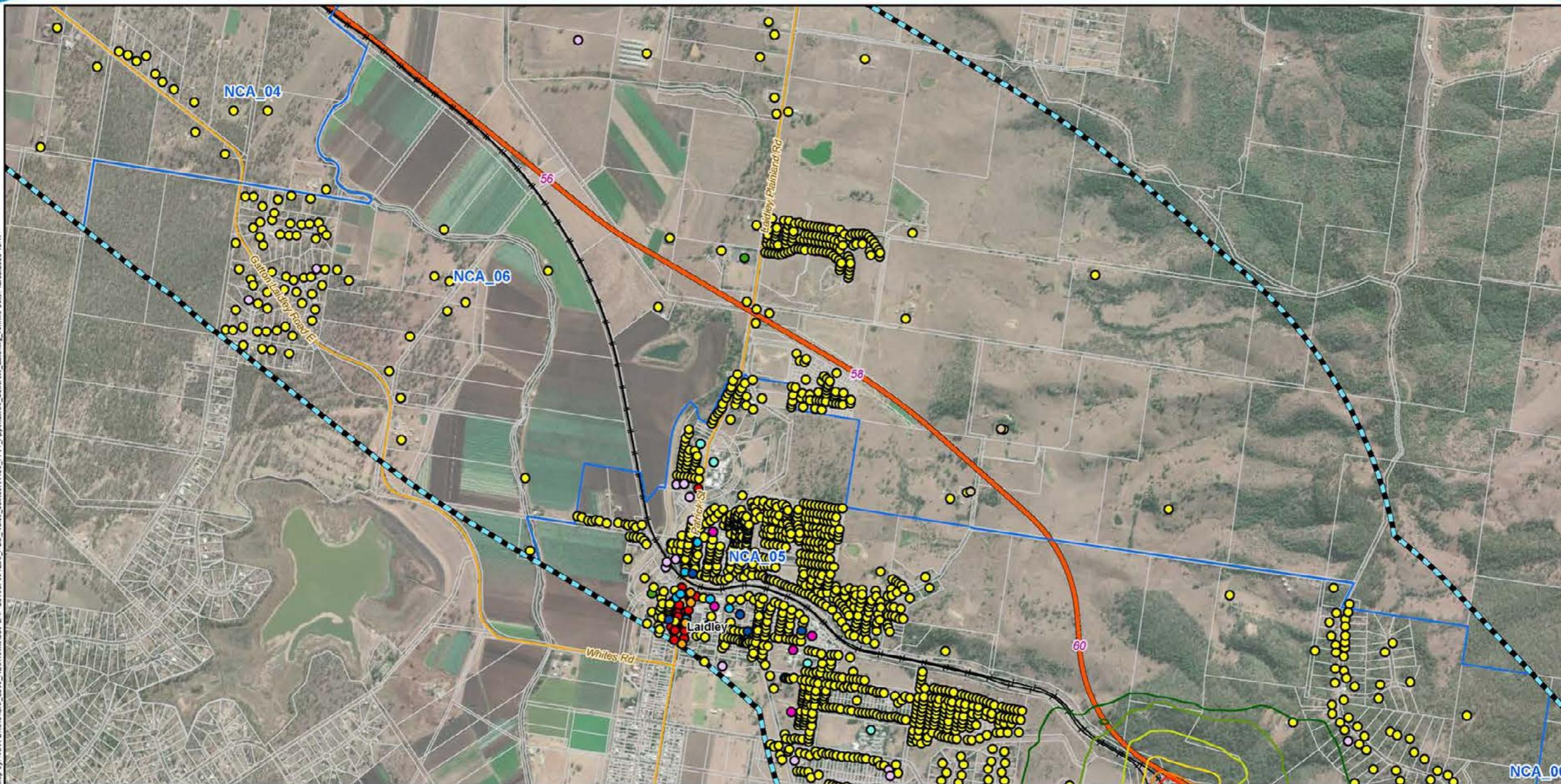
#### Sensitive Receptors

- Commercial
- Industrial
- Residential
- Education
- Commercial Office
- Retail
- Heritage
- Outdoor Recreation
- Sport Facilities
- Hotel/Motel



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



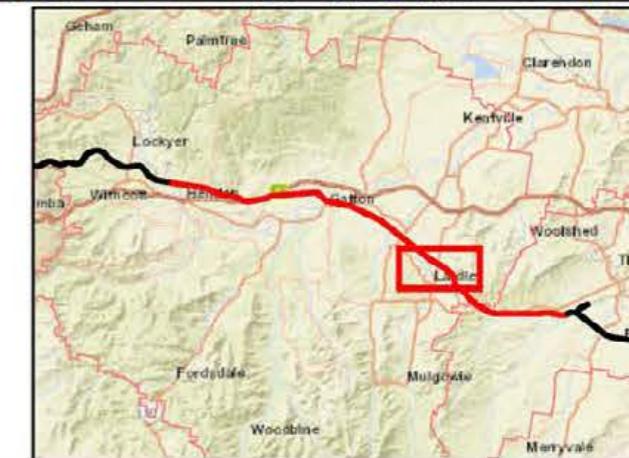
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
—	45
—	50
—	55
—	60
—	65
—	70

#### Sensitive Receptors

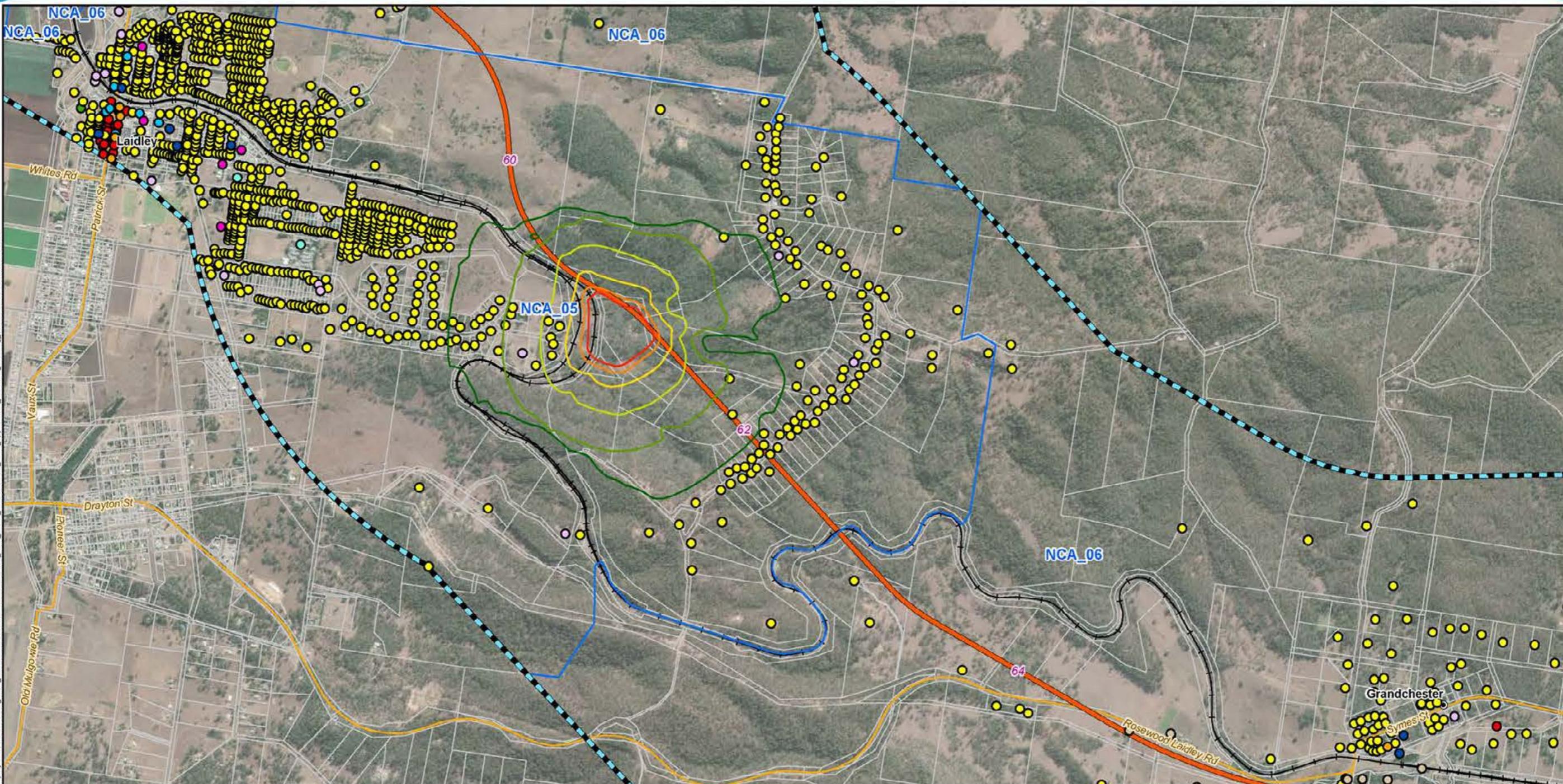
- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Commercial Office
- Hotel/Motel
- Residential
- Retail
- Sport Facilities



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





#### Legend

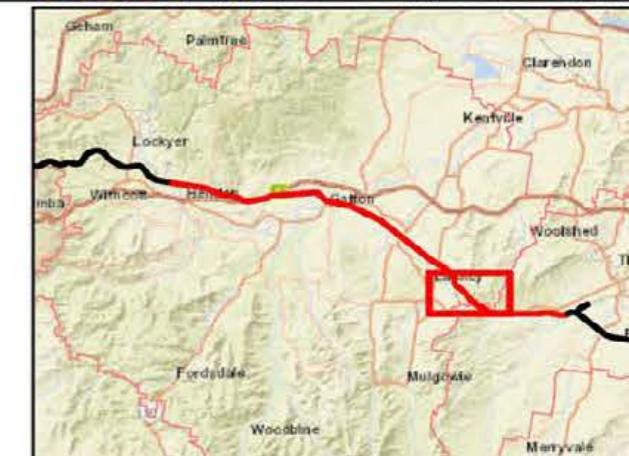
- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

**Sound Pressure Level**  
 $L_{Aeq}$ , dB(A)

45
50
55
60
65
70

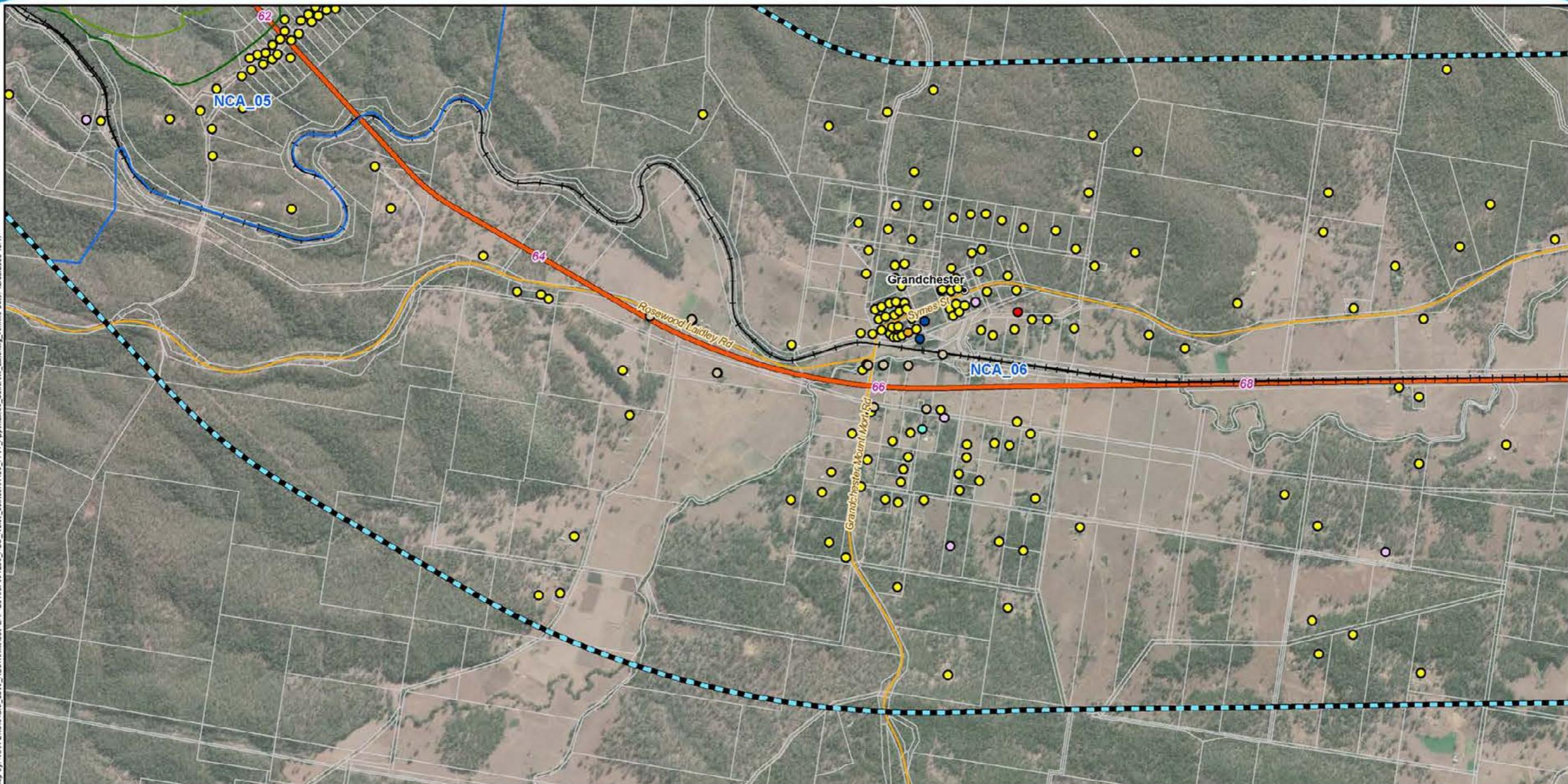
**Sensitive Receptors**

- Commercial
- Industrial
- Education
- Medical/Health Facilities
- Heritage
- Hotel/Motel
- Residential
- Commercial Office
- Sport Facilities
- Retail



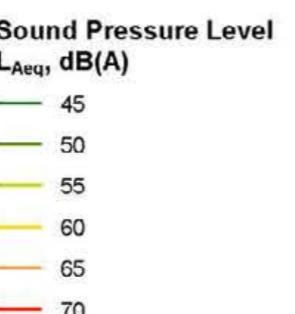
A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km

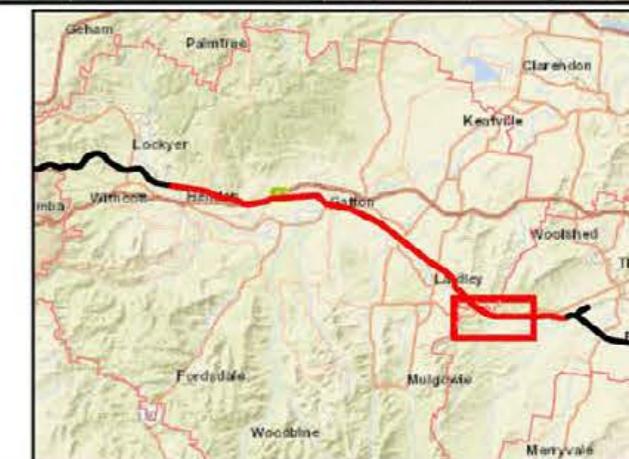


#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

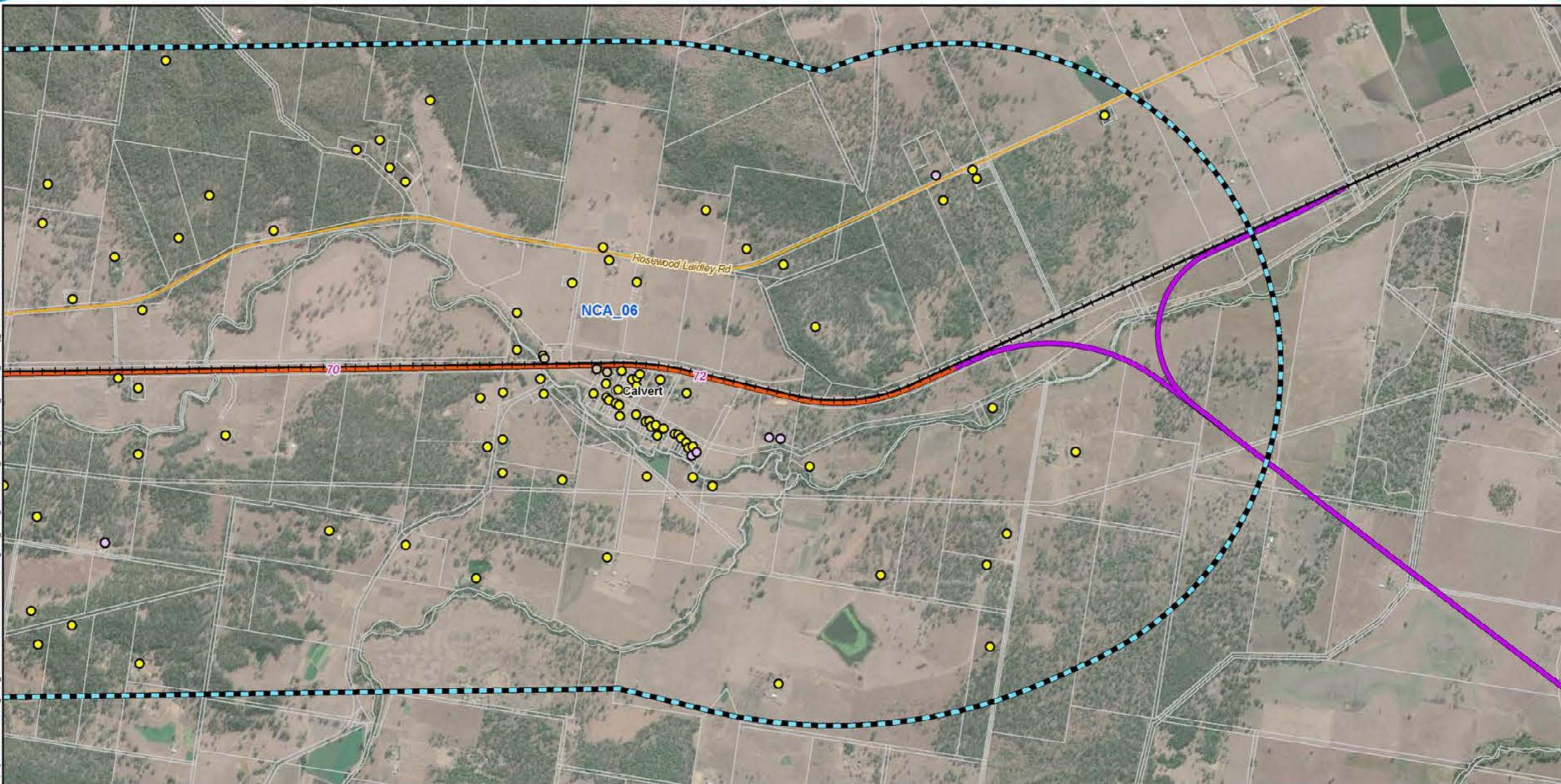


- Sensitive Receptors**
- Commercial
  - Education
  - Heritage
  - Hotel/Motel
  - Industrial
  - Residential
  - Retail



A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km



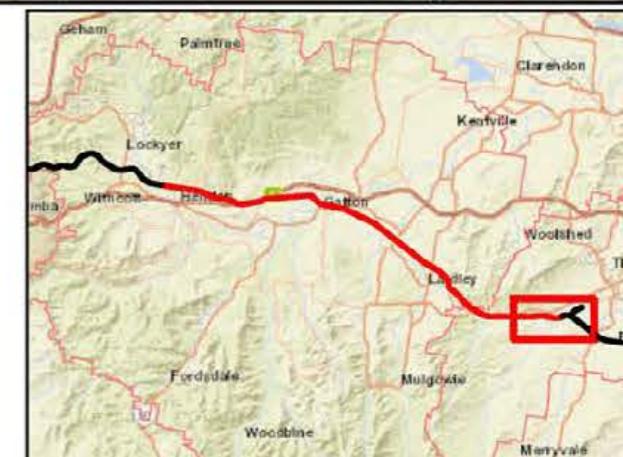
#### Legend

- 5 Chainage (km)
- Localities
- Existing rail
- H2C project alignment
- C2K project alignment
- Major roads
- Minor roads
- Cadastre
- NCA
- Noise and vibration study area

Sound Pressure Level $L_{Aeq}$ , dB(A)	
45	
50	
55	
60	
65	
70	

#### Sensitive Receptors

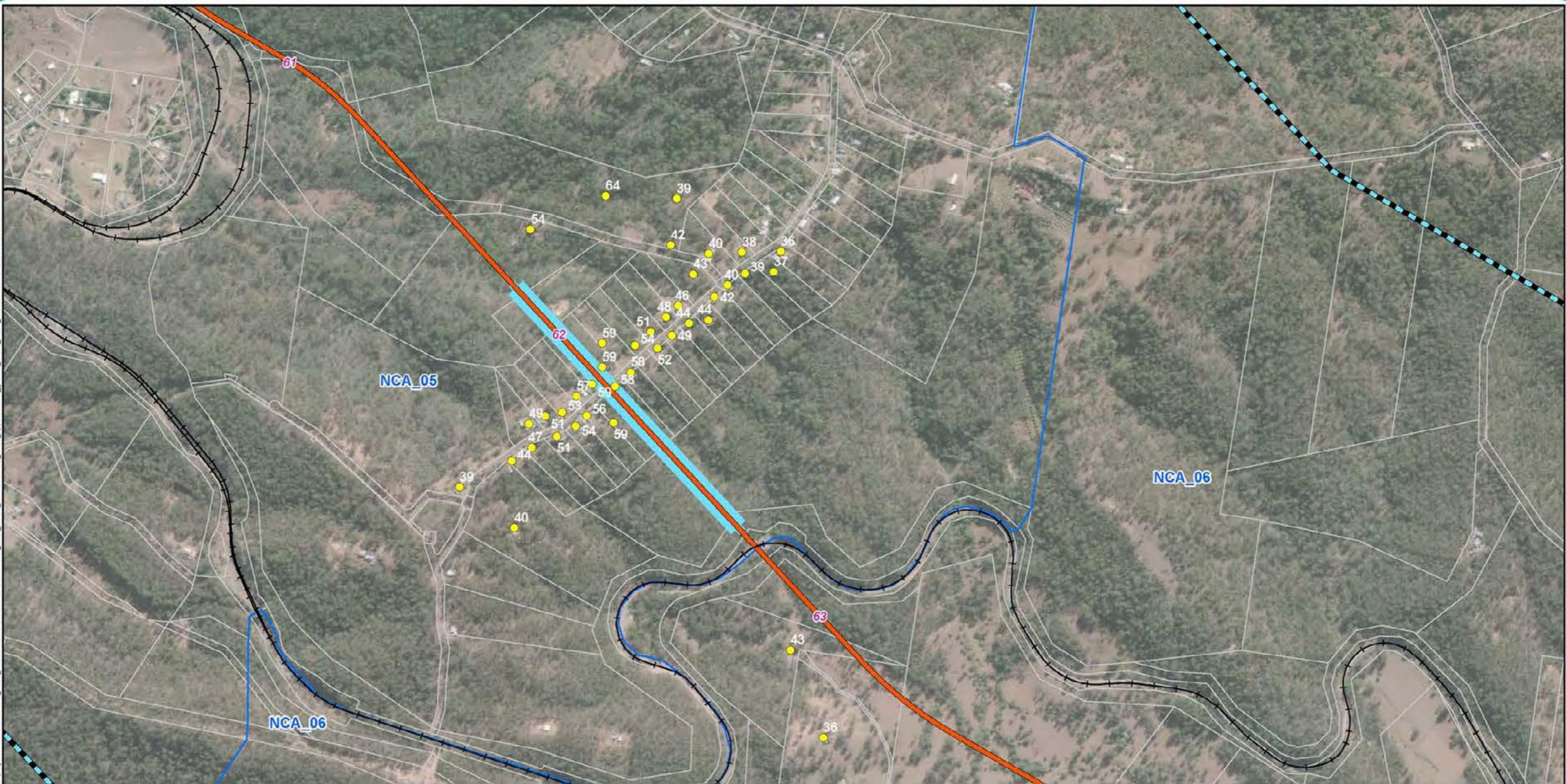
- Heritage
- Industrial
- Residential



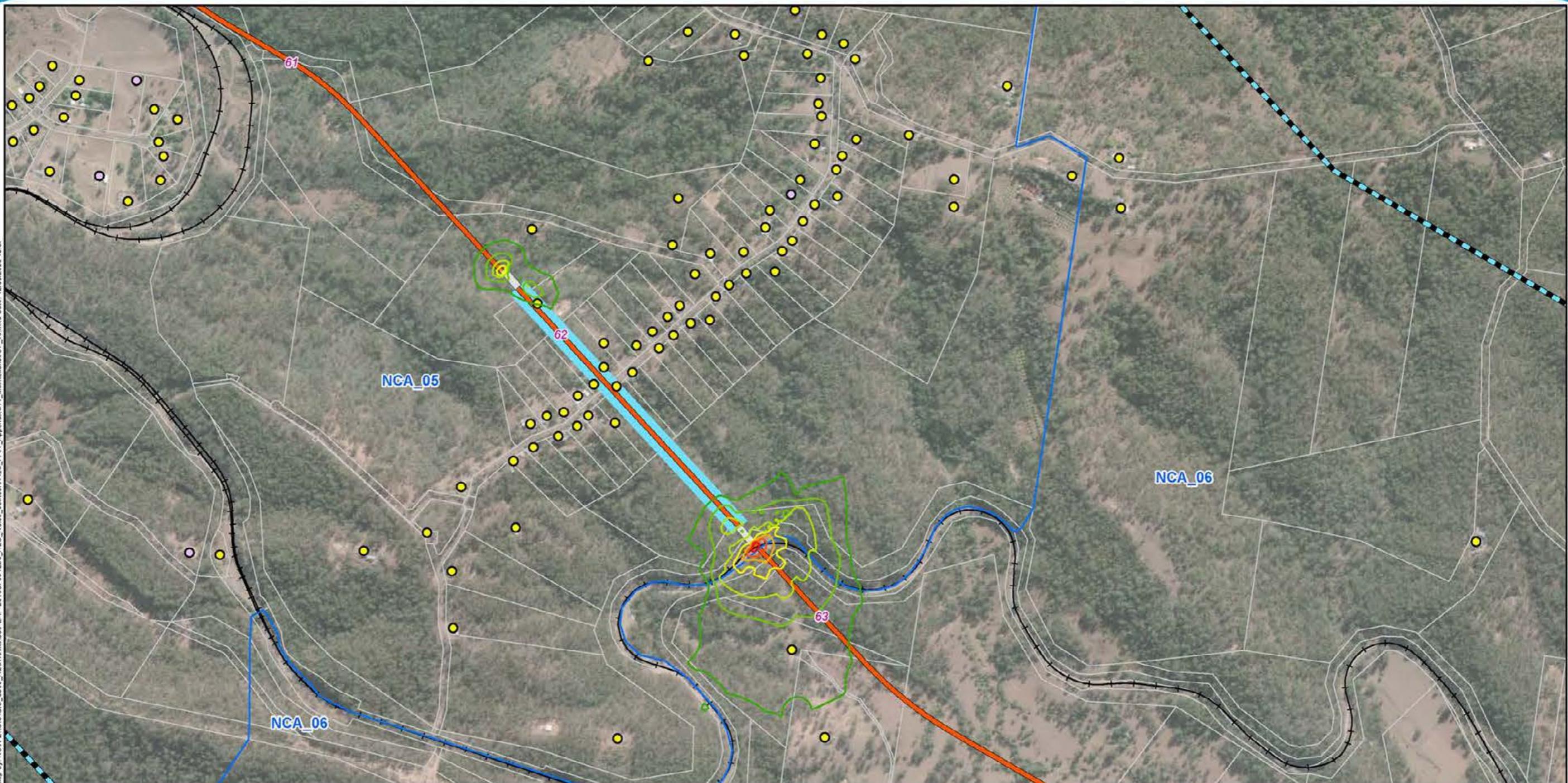
A3 scale: 1:23,000

0 0.2 0.4 0.6 0.8 1km





A3 scale: 1:11,000  
 0 0.1 0.2 0.3 0.4 0.5km



#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Tunnel
- Cadastre
- Industrial building
- NCA
- Noise and vibration study area

$L_{Aeq}$ , (1hr), dB(A)	
30	
35	
40	
45	
50	
55	
60	

#### Sensitive Receptors

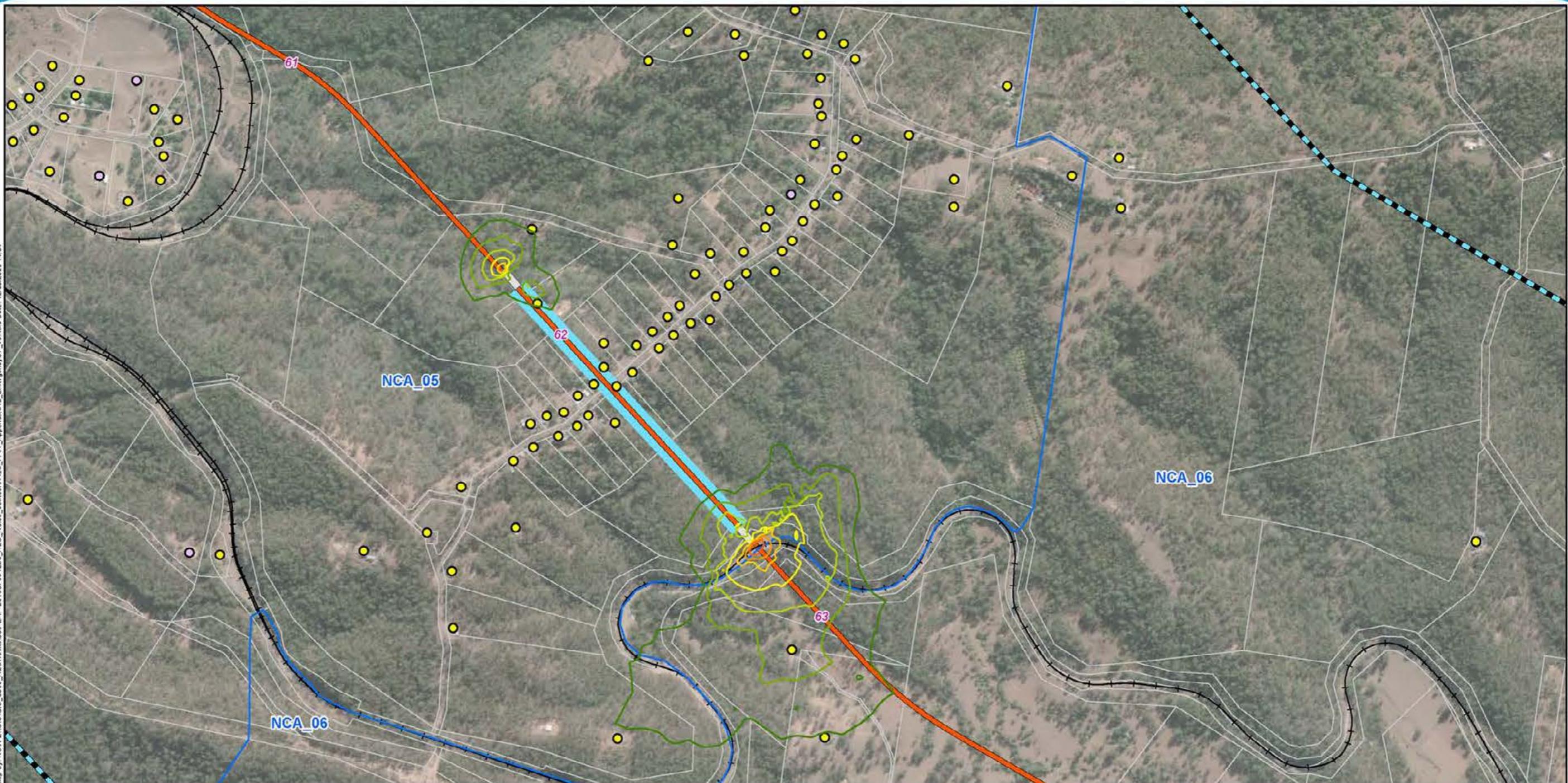
- Industrial
- Residential



A3 scale: 1:11,000

0 0.1 0.2 0.3 0.4 0.5km





#### Legend

- 5 Chainage (km)
- Existing rail
- H2C project alignment
- Tunnel
- Cadastre
- NCA
- Industrial building
- Noise and vibration study area

$L_{Aeq}$ , (1hr), dB(A)
30
35
40
45
50
55
60

#### Sensitive Receptors

- Industrial
- Residential



A3 scale: 1:11,000

0 0.1 0.2 0.3 0.4 0.5km

