

# Submissions Report

Appendix H - Part 1



## North Star to NSW/Queensland Border

Environmental Impact Statement

# APPENDIX

# H

## Updated Noise and Vibration Assessment Figures

NORTH STAR TO NSW/QUEENSLAND BORDER ENVIRONMENTAL IMPACT STATEMENT



Map by: MF Z:\GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

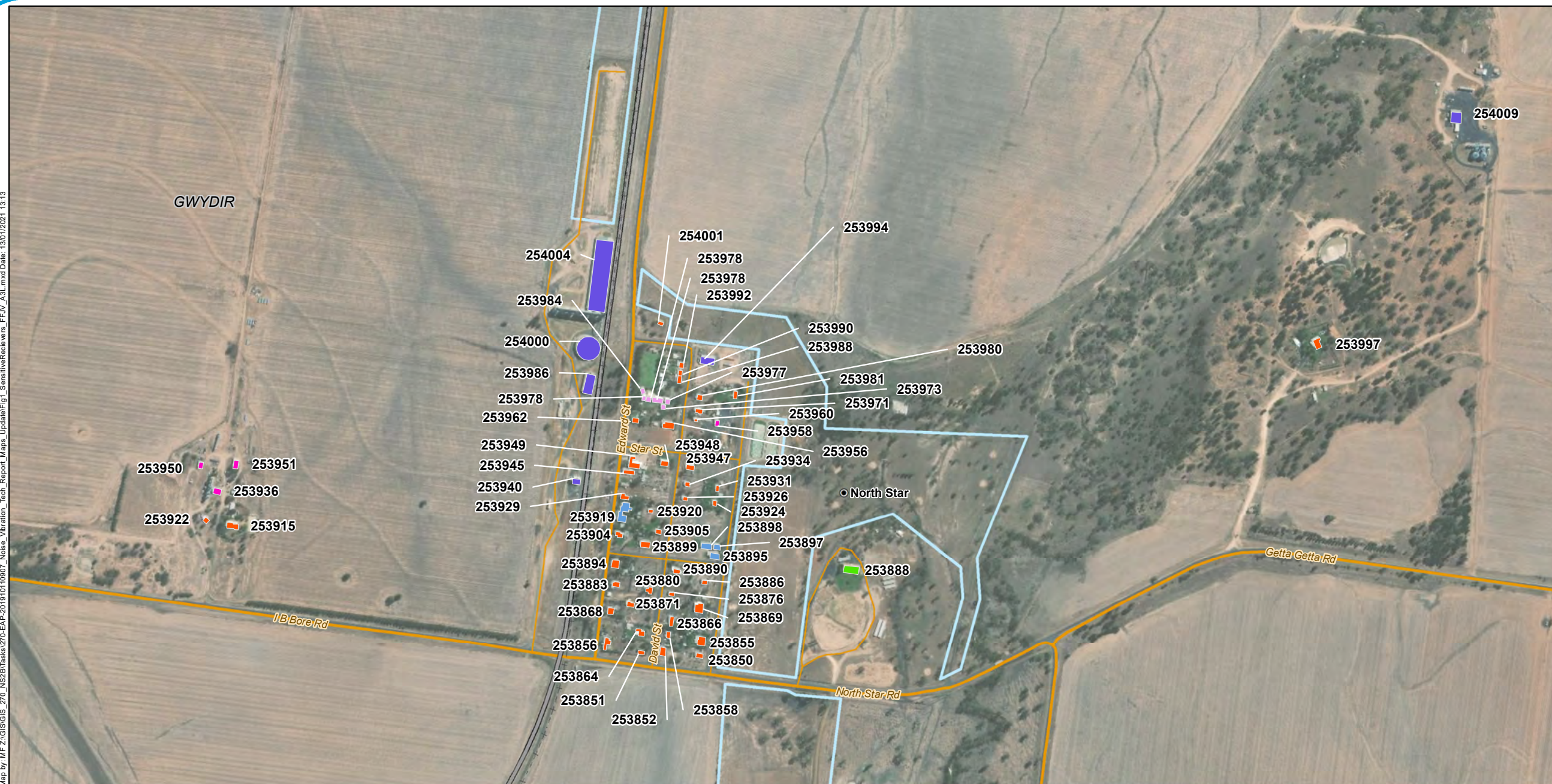
- |                        |                            |
|------------------------|----------------------------|
| Construction footprint | <b>Sensitive receivers</b> |
| Borrow pits            | Residential                |
| Local Government Areas | Shed                       |



**North Star to NSW/QLD border**  
**Figure 1a:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NS2\B1tasks\270-EAP-2019\1010907 Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_F1V\_A3L.mxd Date: 13/01/2021 13:13

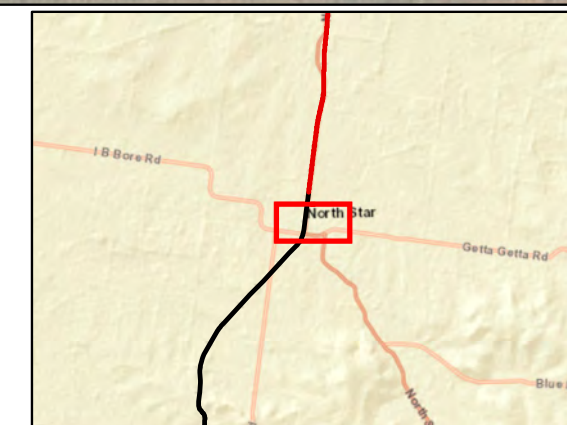


### Legend

- Localities
- - - Existing rail (non-operational)
- Adjoining alignments

- Construction footprint
- Local Government Areas

- Sensitive receivers**
- Active Recreation
  - Commercial
  - Industrial
  - Residential
  - School
  - Shed



A3 scale: 1:10,000  
 0 100 200 300 metres

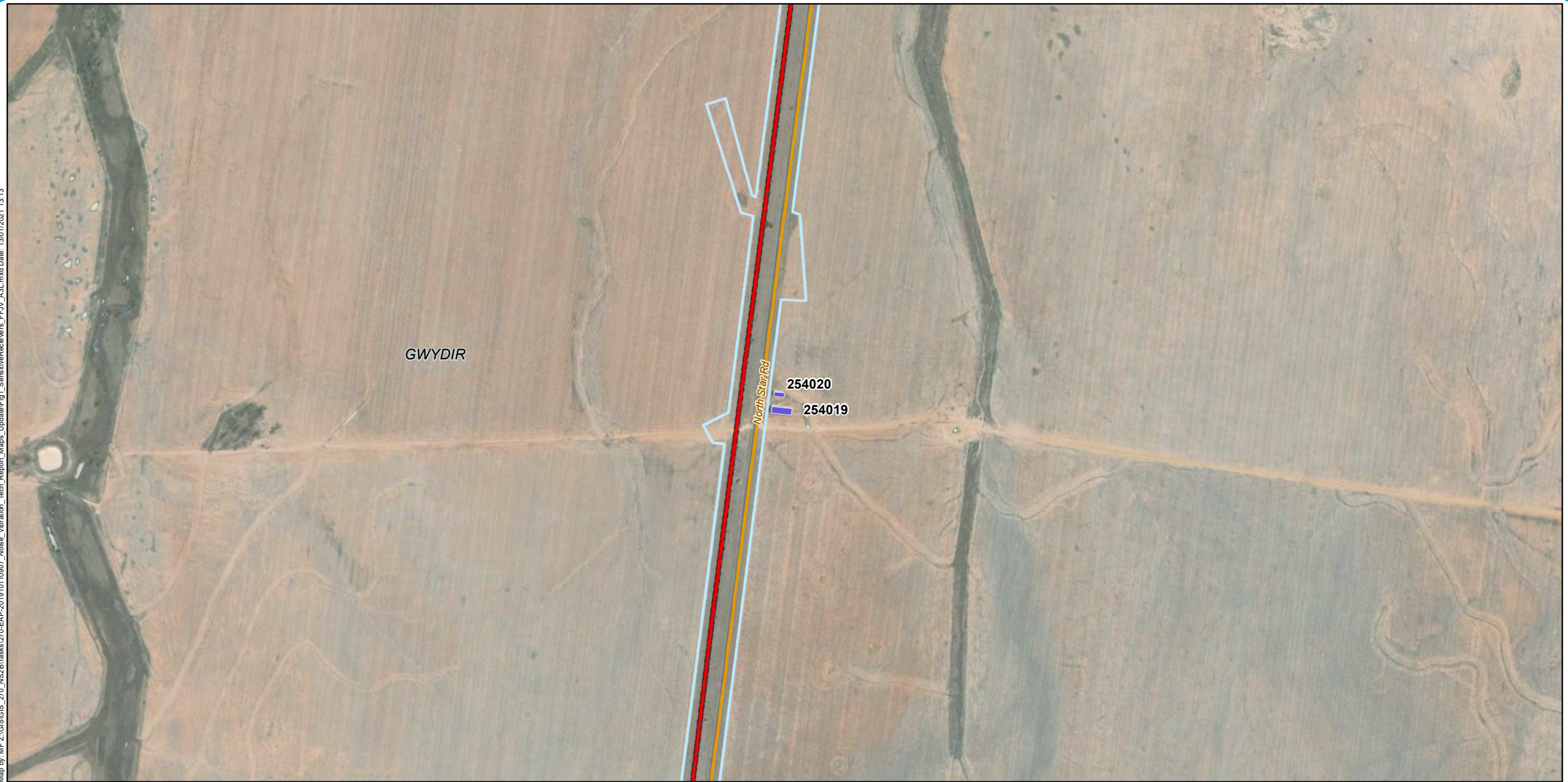


Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1b:**  
**Sensitive receivers**

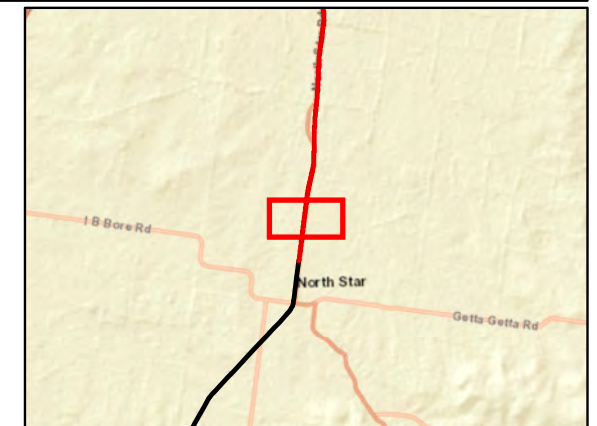


Map by: MF Z:\GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



#### Legend

- |                                        |                        |                            |
|----------------------------------------|------------------------|----------------------------|
| -- Existing rail (non-operational)     | Construction footprint | <b>Sensitive receivers</b> |
| North Star to NSW/QLD border alignment | Local Government Areas | Industrial                 |



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

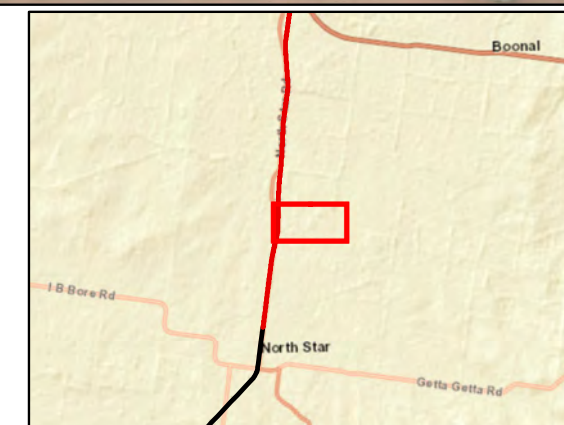
**North Star to NSW/QLD border**  
**Figure 1c:**  
**Sensitive receivers**





#### Legend

- |                                          |                        |                            |
|------------------------------------------|------------------------|----------------------------|
| —+— Existing rail (operational)          | Construction footprint | <b>Sensitive receivers</b> |
| -+- Existing rail (non-operational)      | Borrow pits            | Residential                |
| — North Star to NSW/QLD border alignment | Local Government Areas | Shed                       |



A3 scale: 1:10,000  
 0 100 200 300 metres



Map by: MF Z:\GIS\GIS\_270\_NSW\B\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



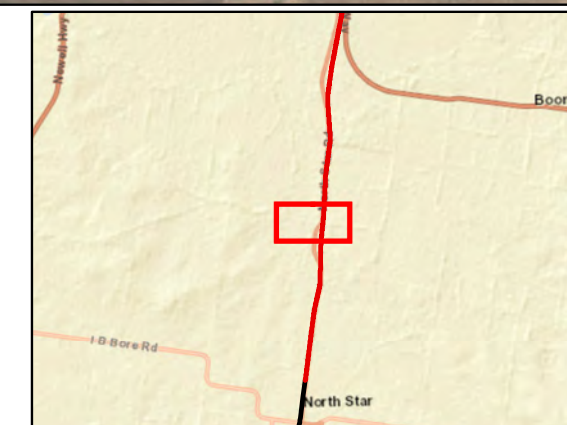
### Legend

- Existing rail (non-operational)
- North Star to NSW/QLD border alignment

- Construction footprint
- Borrow pits
- Local Government Areas

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1e:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NSW\Tasks\270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1f\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                                        |                        |                            |
|----------------------------------------|------------------------|----------------------------|
| -- -- Existing rail (non-operational)  | Construction footprint | <b>Sensitive receivers</b> |
| North Star to NSW/QLD border alignment | Local Government Areas | Residential                |
|                                        |                        | Shed                       |



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1f:**  
**Sensitive receivers**

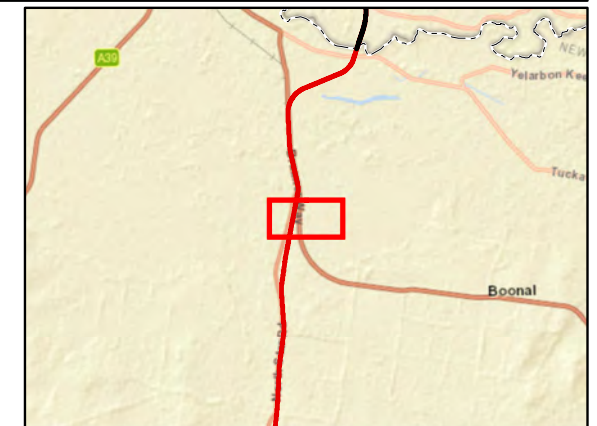


Map by: MF Z:\GIS\GIS\_270\_NS2B\Tasks\270-EAP-201910110907\_Nose\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



#### Legend

- |                                        |                        |                            |
|----------------------------------------|------------------------|----------------------------|
| -- Existing rail (non-operational)     | Construction footprint | <b>Sensitive receivers</b> |
| North Star to NSW/QLD border alignment | Local Government Areas | Residential                |



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1g:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NS2\B\Tasks\270-EAP-201910110907\_Nose\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



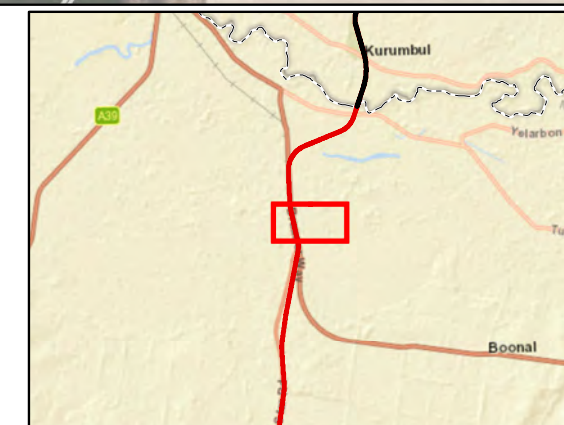
### Legend

- Existing rail (non-operational)
- North Star to NSW/QLD border alignment

- Construction footprint
- Local Government Areas

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1h:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NSB\Tasks\270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13

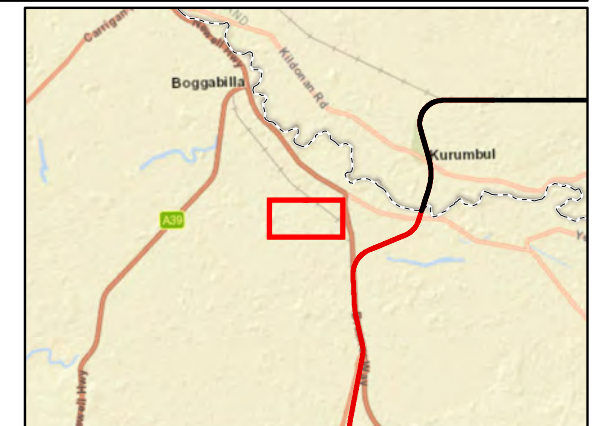


### Legend

-- Existing rail (non-operational)

Construction footprint  
 Local Government Areas

**Sensitive receivers**  
 Residential  
 Shed



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1i:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NSG\B\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1j\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

--- NSW/QLD border

Construction footprint

Local Government Areas

Sensitive receivers

Residential



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

North Star to NSW/QLD border

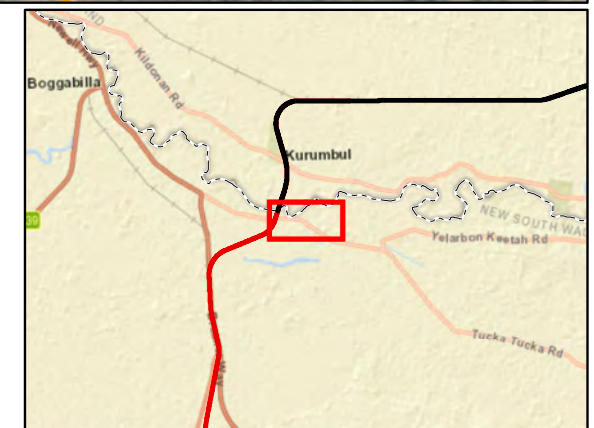
Figure 1j:  
 Sensitive receivers





### Legend

- Localities
- North Star to NSW/QLD border alignment
- - - NSW/QLD border
- Construction footprint
- Local Government Areas
- Sensitive receivers**
  - Community Centre
  - Industrial
  - Residential
  - School



**North Star to NSW/QLD border**  
**Figure 1k:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                                                                                                            |                                                                                                   |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  Construction footprint | <b>Sensitive receivers</b>                                                                        |
|  Borrow pits            |  Residential |
|  Local Government Areas |                                                                                                   |



A3 scale: 1:10,000  
 0 100 200 300 metres

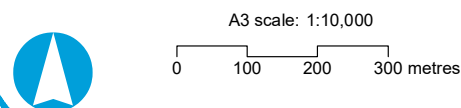
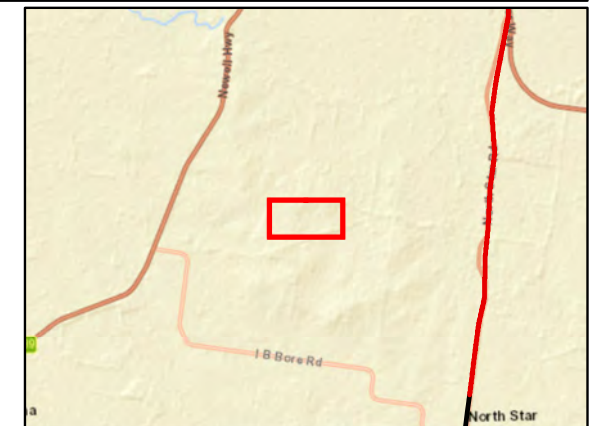


Map by: MF Z:\GIS\GIS\_270\_NS2B\Tasks\270-EAP-201910110907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                        |                            |
|------------------------|----------------------------|
| Construction footprint | <b>Sensitive receivers</b> |
| Borrow pits            | Residential                |
| Local Government Areas | Shed                       |





Map by: MF Z:\GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                                                                                                            |                                                                                                   |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  Construction footprint | <b>Sensitive receivers</b>                                                                        |
|  Borrow pits            |  Residential |
|  Local Government Areas |  Shed        |



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1n:**  
**Sensitive receivers**

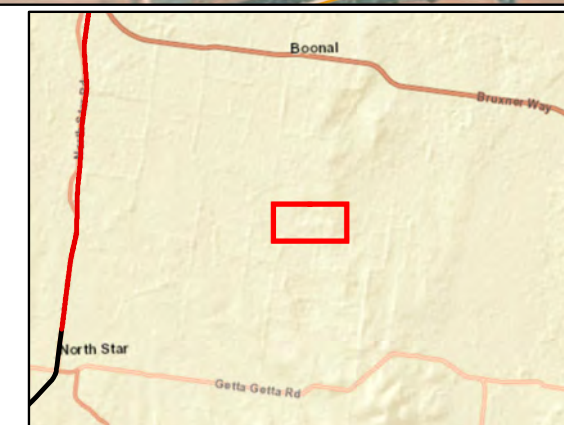


Map by: MF Z:\GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                        |                            |
|------------------------|----------------------------|
| Construction footprint | <b>Sensitive receivers</b> |
| Borrow pits            | Residential                |
| Local Government Areas | Shed                       |



A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1o:**  
**Sensitive receivers**



Map by: MF Z:\GIS\GIS\_270\_NSG\B\Tasks\270-EAP-2019\1010907\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig\_1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



# **Legend**

- |                                                                                                            |                                                                                                   |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  Construction footprint | <b>Sensitive receivers</b>                                                                        |
|  Borrow pits            |  Residential |
|  Local Government Areas |                                                                                                   |



A3 scale: 1:10,000  
 0 100 200 300 metres

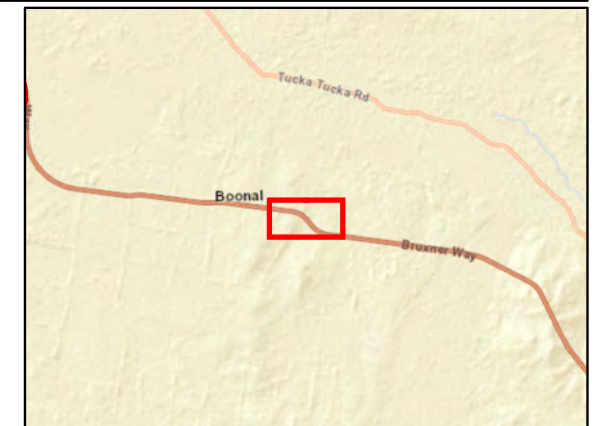


Map by: MF Z:\GIS\GIS\_270\_NSG\B\Tasks\270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\Fig1\_SensitiveReceivers\_FFUV\_A3L.mxd Date: 13/01/2021 13:13



### Legend

- |                                                                                                            |                                                                                                   |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|  Construction footprint | <b>Sensitive receivers</b>                                                                        |
|  Borrow pits            |  Residential |
|  Local Government Areas |                                                                                                   |



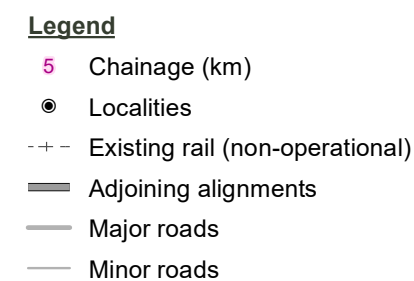
A3 scale: 1:10,000  
 0 100 200 300 metres



Issue date: 12/01/2021 Version: 0  
 Coordinate System: GDA 1994 MGA Zone 56

**North Star to NSW/QLD border**  
**Figure 1q:**  
**Sensitive receivers**



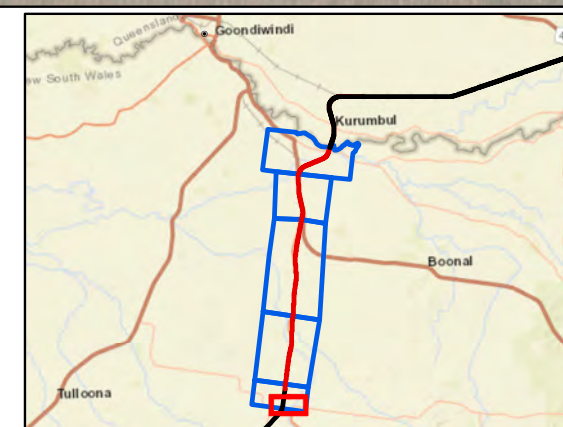


|   |    |
|---|----|
| — | 35 |
| — | 40 |
| — | 45 |
| — | 50 |



 NCAs

- Active Recreation
- Commercial
- Industrial
- Residential
- School
- Shed



Issue date: 30/10/2019    Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## Appendix C: Construction noise contours - Bridge works and road works (Map 1 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\11\10\07 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/15/2021 09:38



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 2 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\VA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

**L<sub>Aeq</sub>, dB(A)**

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

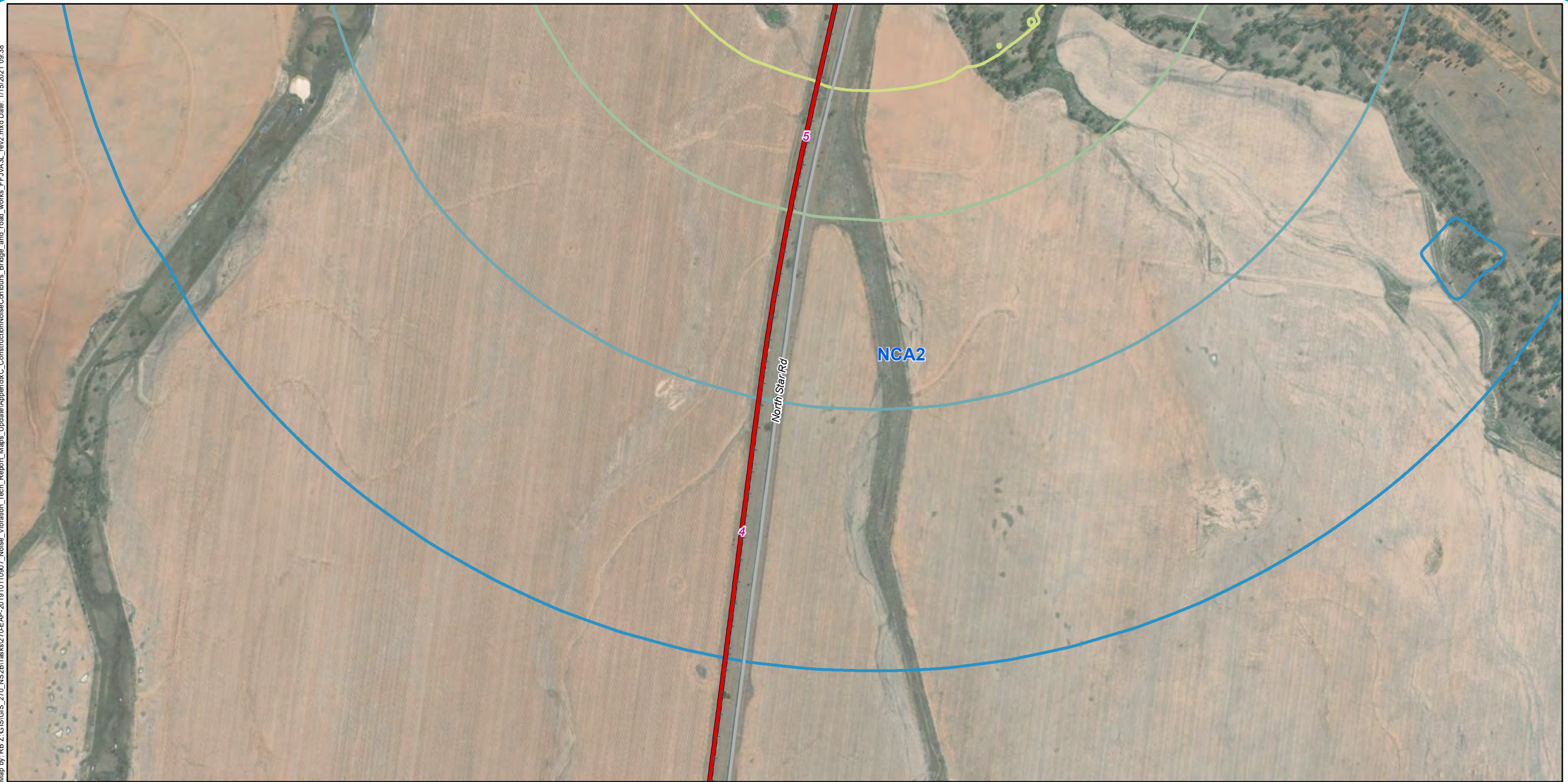


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 3 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 06:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

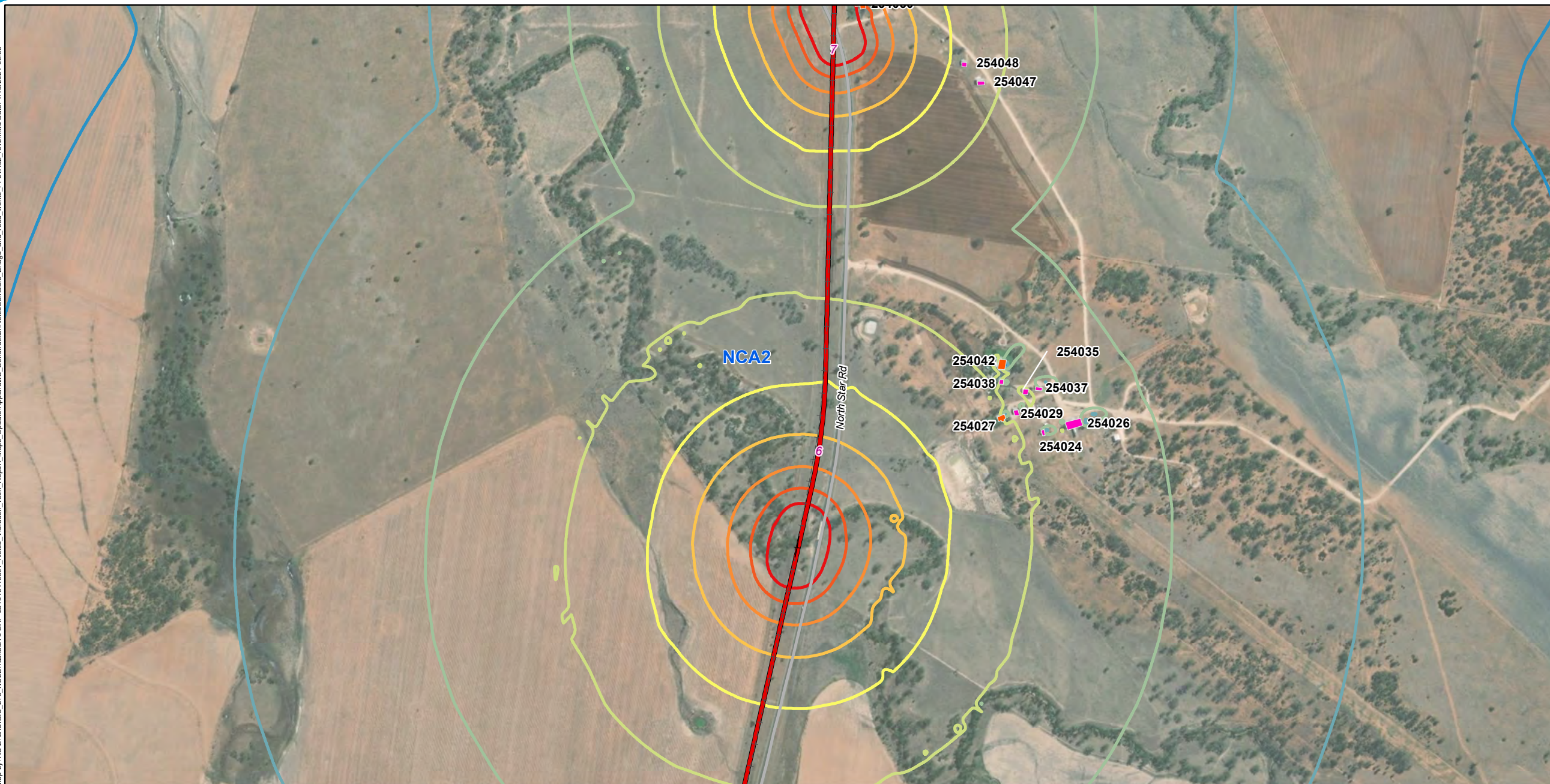


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 4 of 19)



Map by RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\VA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- Existing rail (operational)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

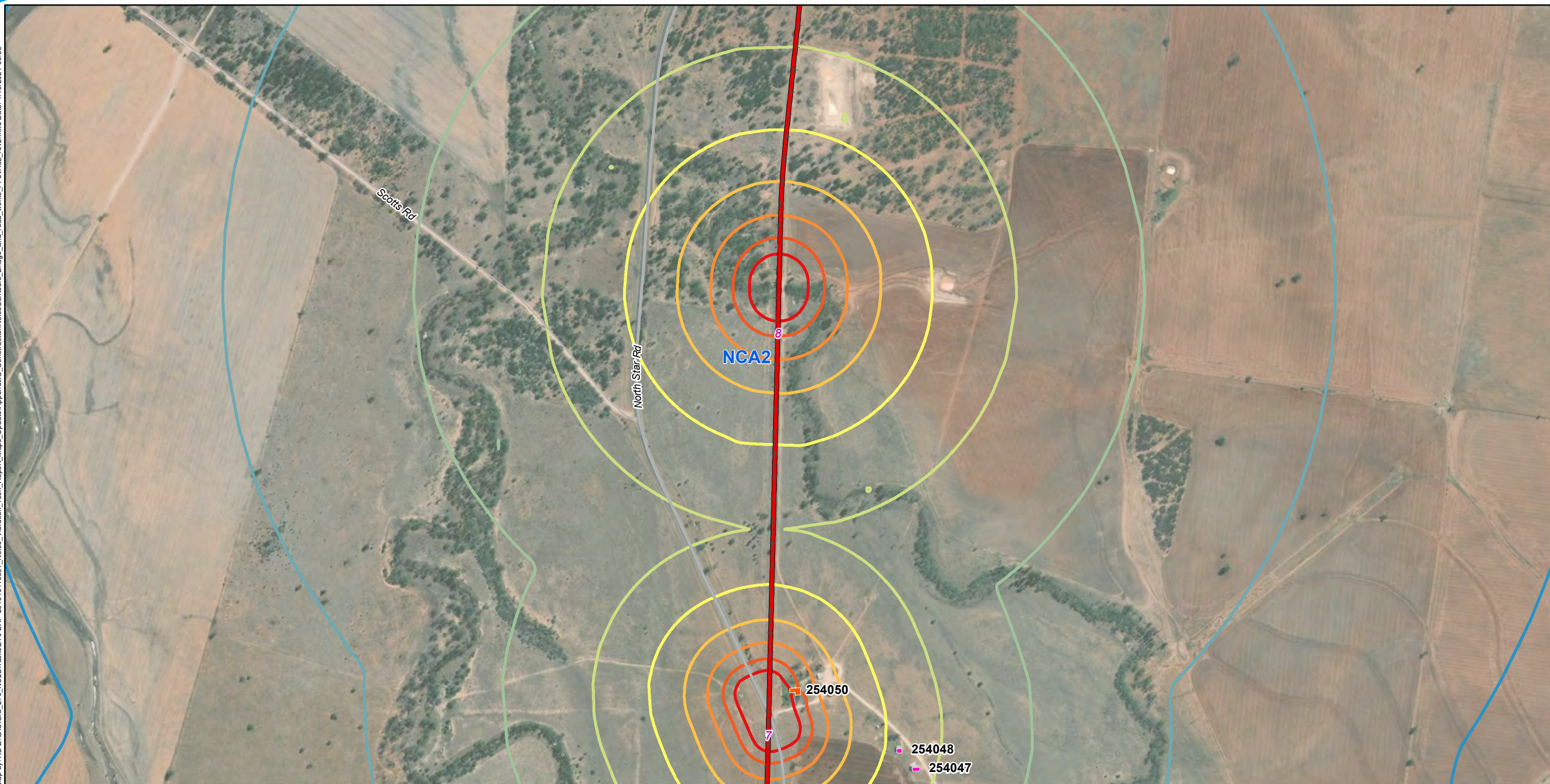


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 5 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\10\07 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/15/2021 09:38



### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

### Sound Pressure Level

$L_{Aeq}$  dB(A)

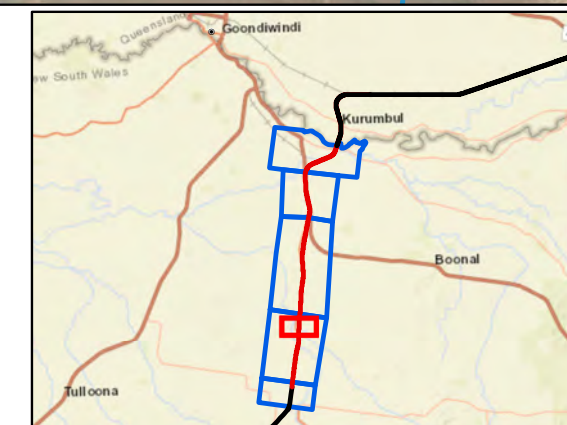
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 6 of 19)



Map by RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\11\0607 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km



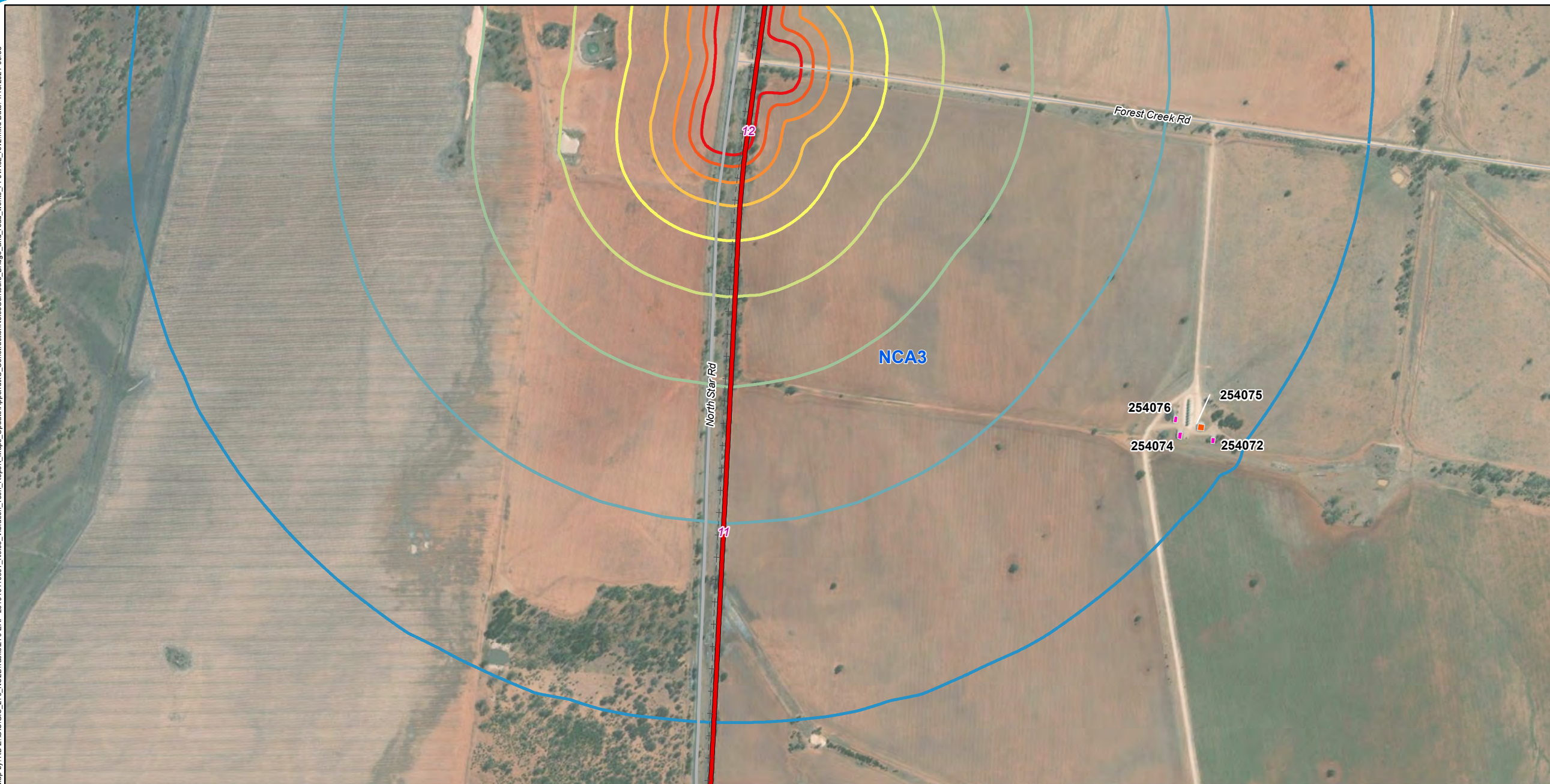
Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

#### North Star to NSW/QLD border

#### Appendix C: Construction noise contours - Bridge works and road works (Map 7 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

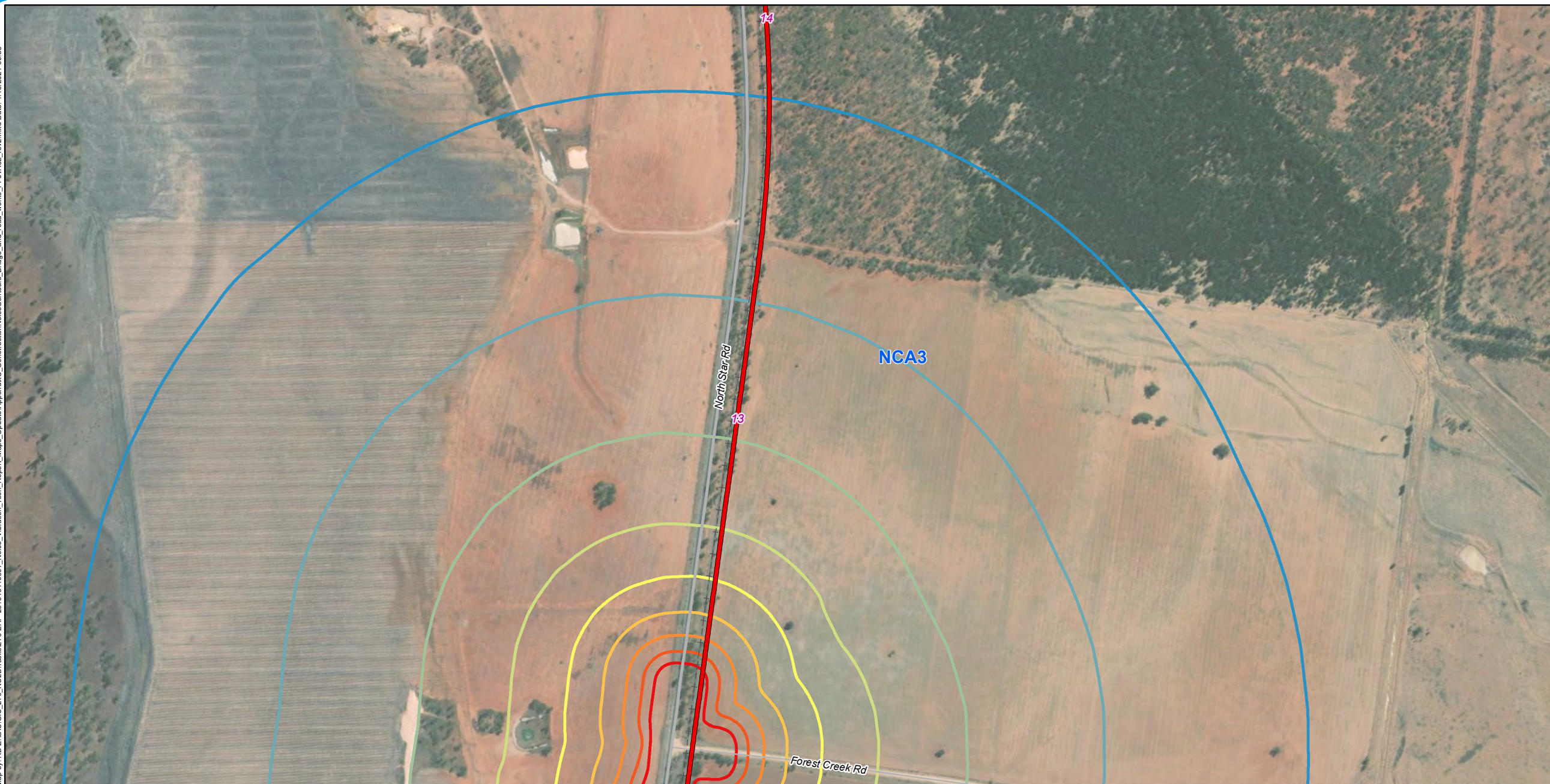


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 8 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



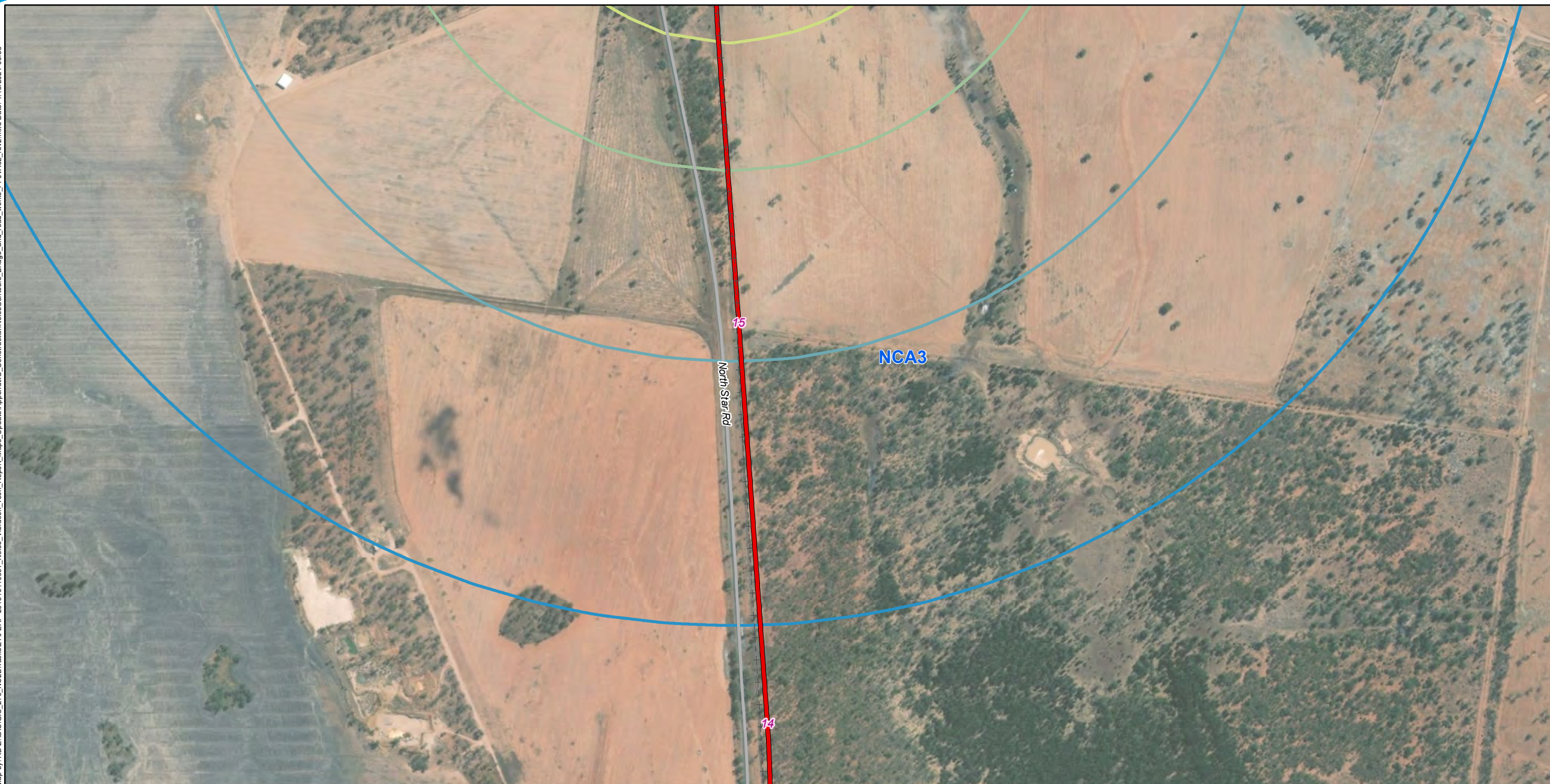
Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

#### North Star to NSW/QLD border

#### Appendix C: Construction noise contours - Bridge works and road works (Map 9 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

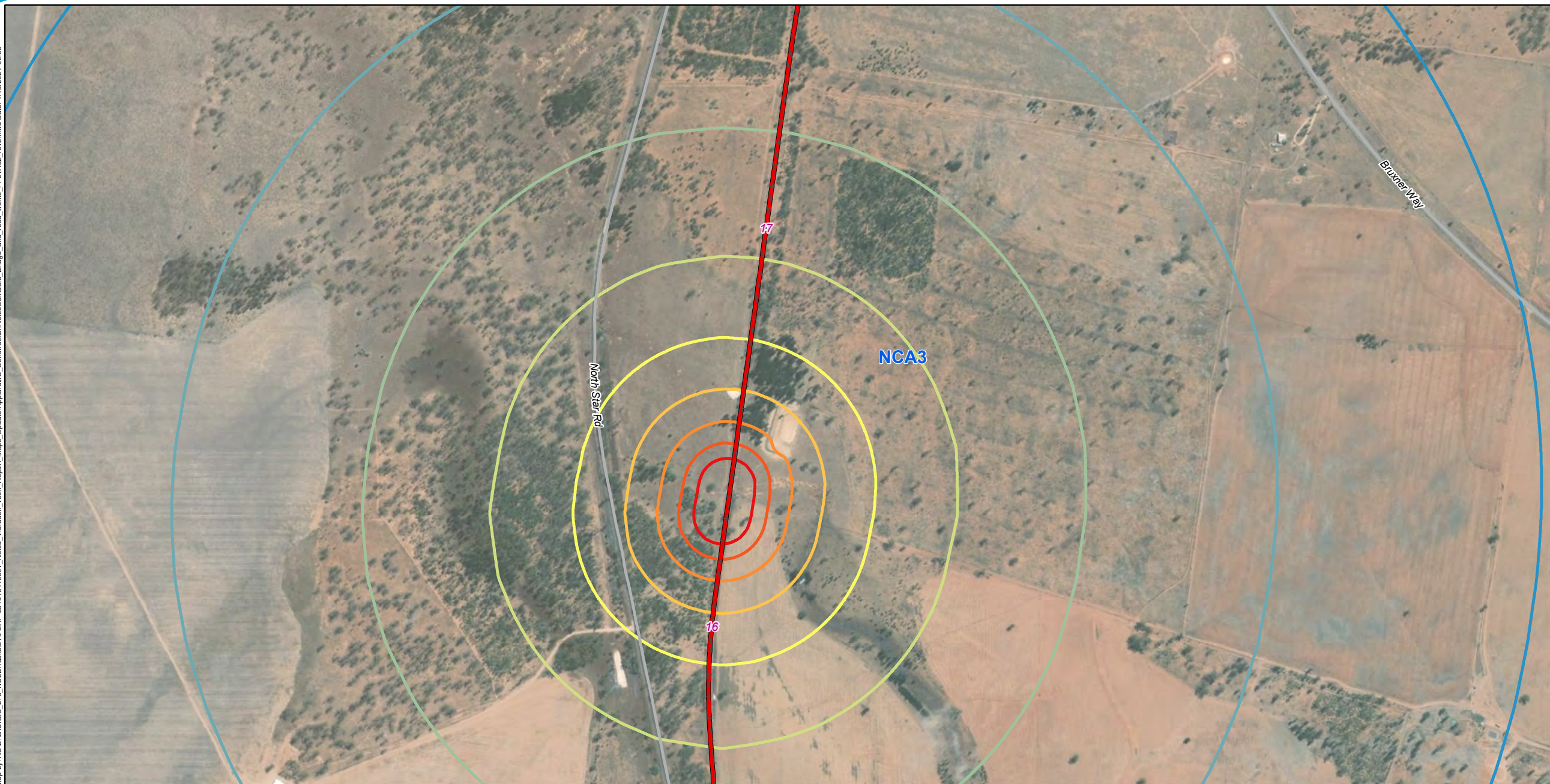


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 10 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\VA3\_rev2.mxd Date: 11/5/2021 06:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

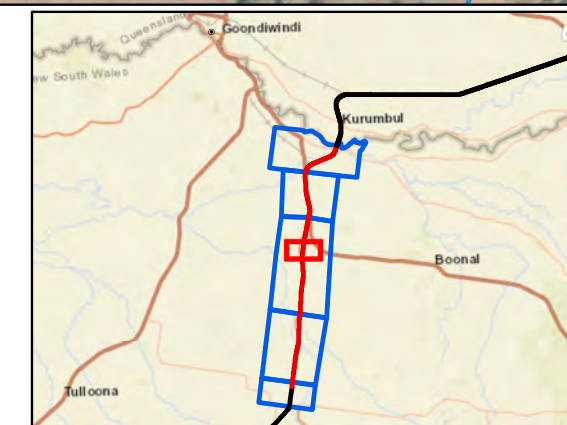
#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



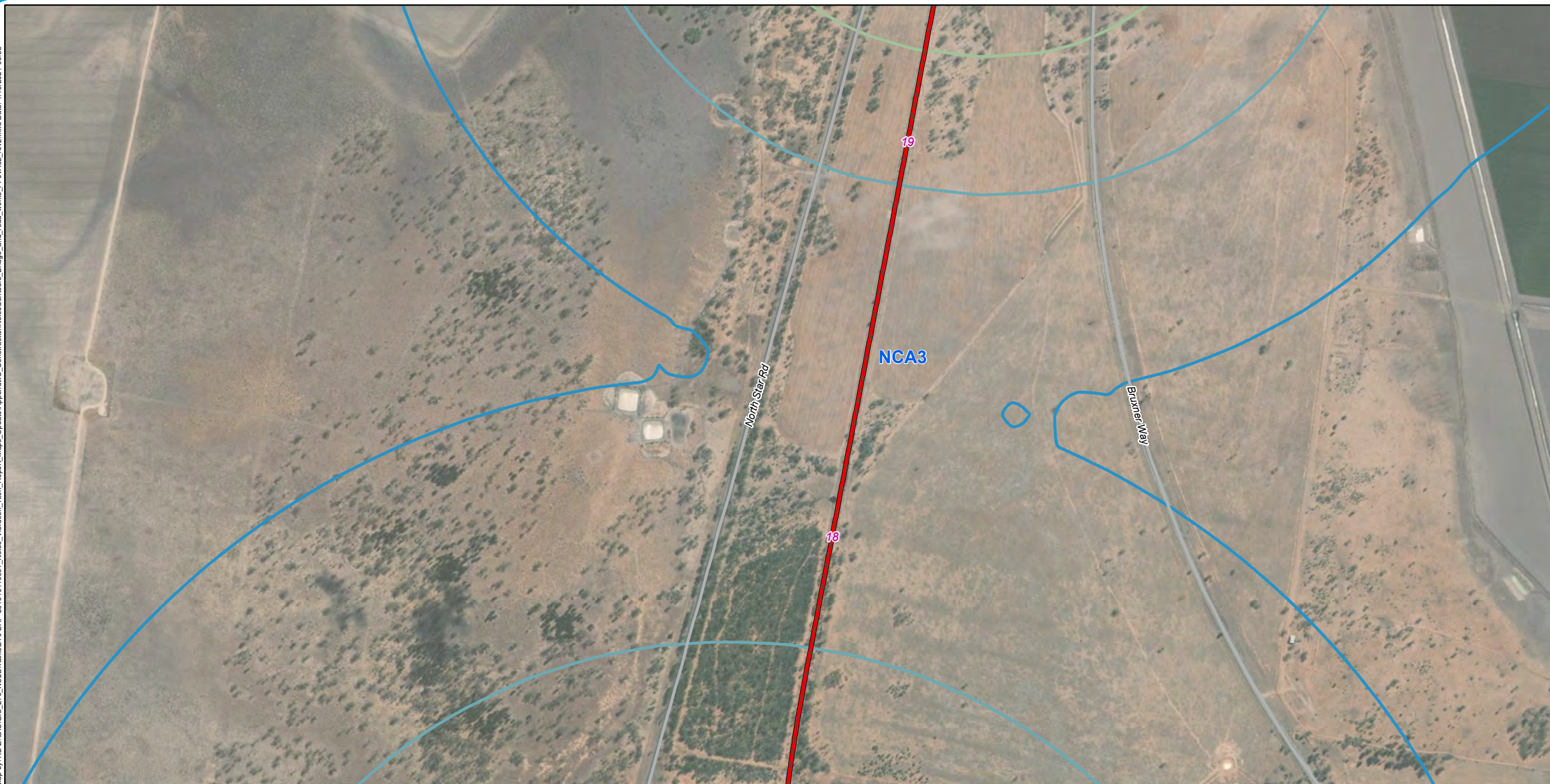
Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

#### North Star to NSW/QLD border

#### Appendix C: Construction noise contours - Bridge works and road works (Map 11 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/15/2021 06:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

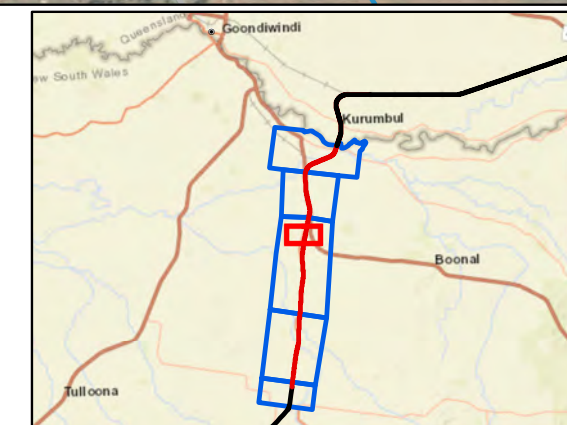
#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

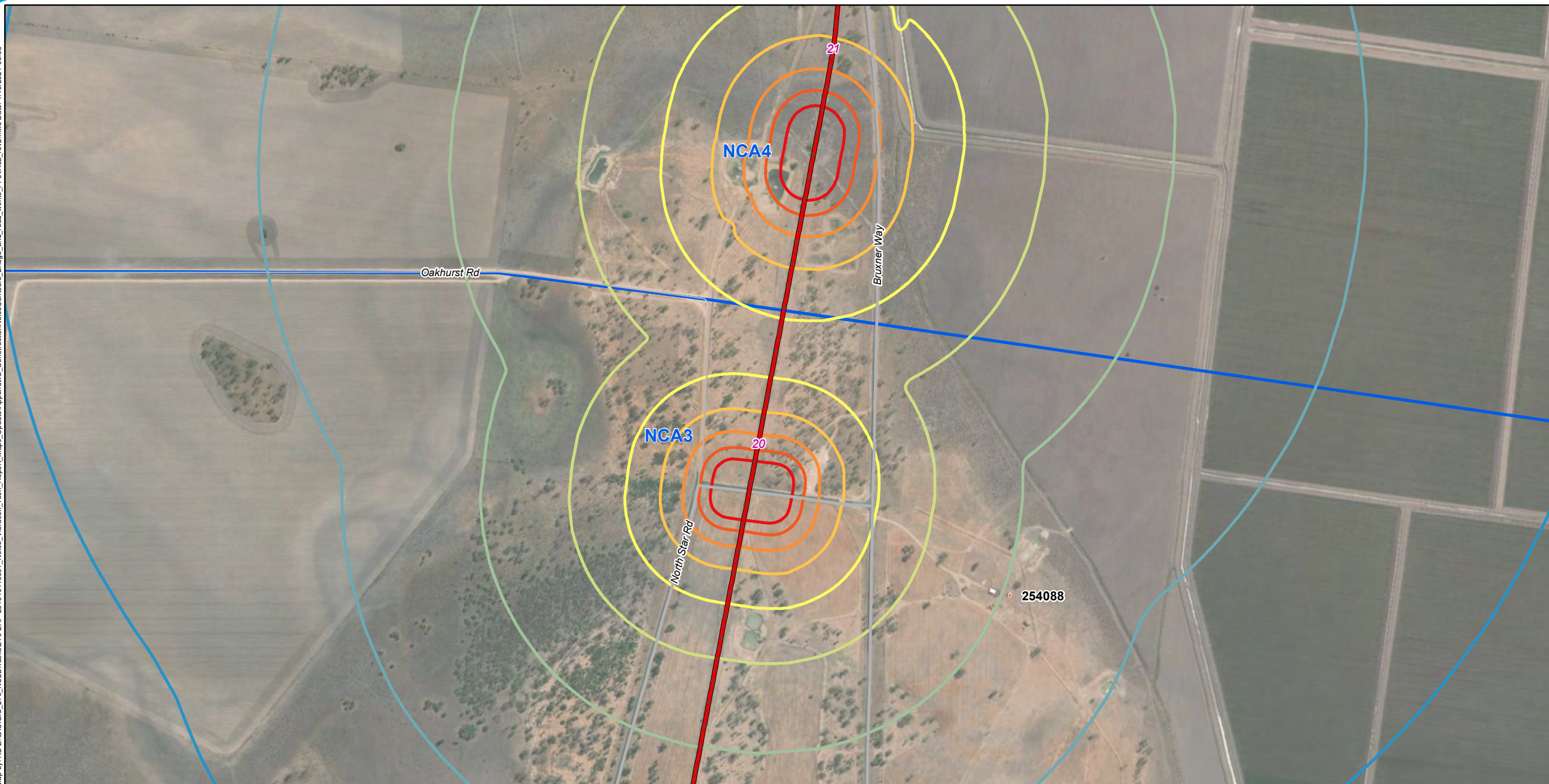


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 12 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 06:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 13 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/15/2021 09:38



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 14 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\VA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

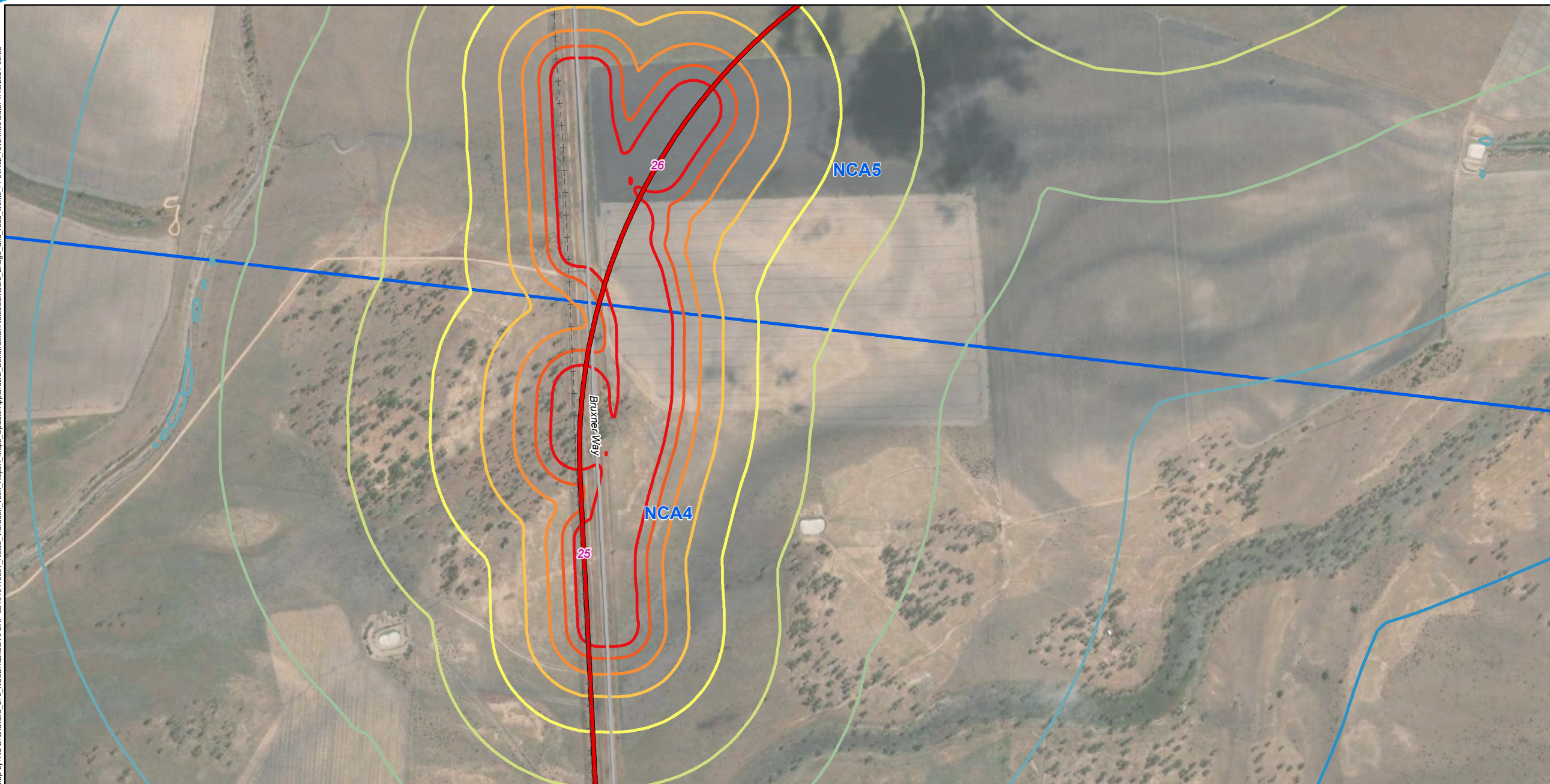


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 15 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\VA3\_rev2.mxd Date: 11/5/2021 06:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

NCA4



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

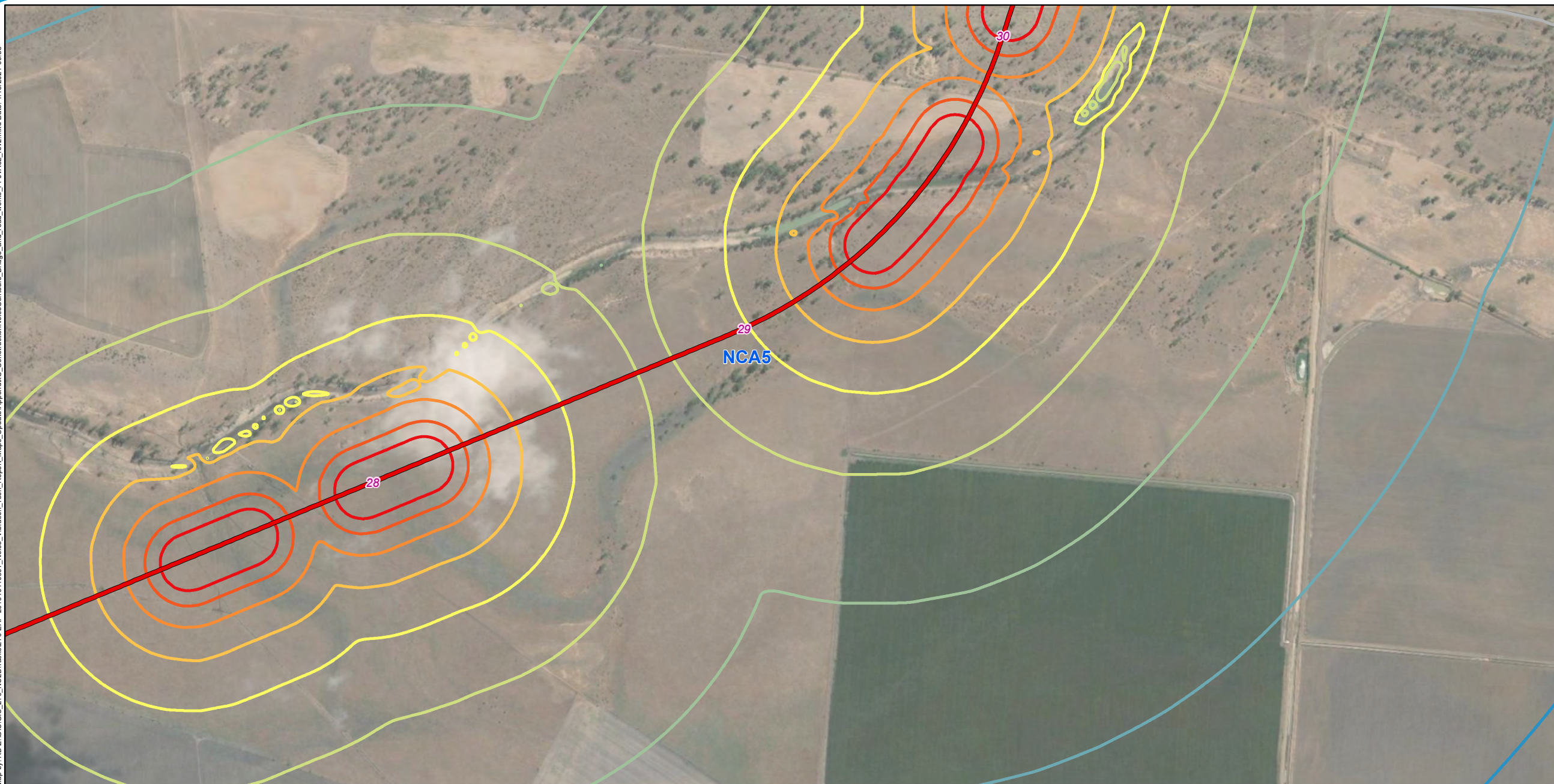


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 16 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Major roads

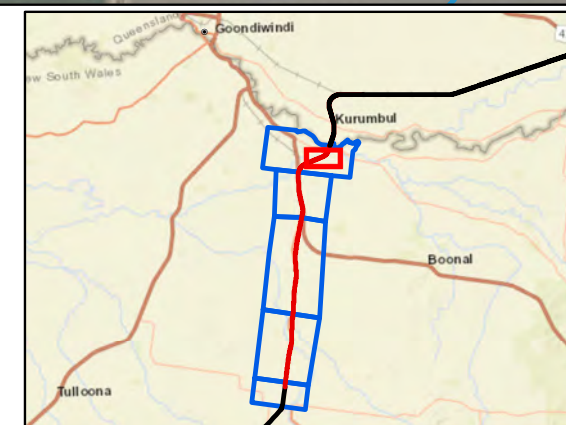
#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 17 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\11\0607 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

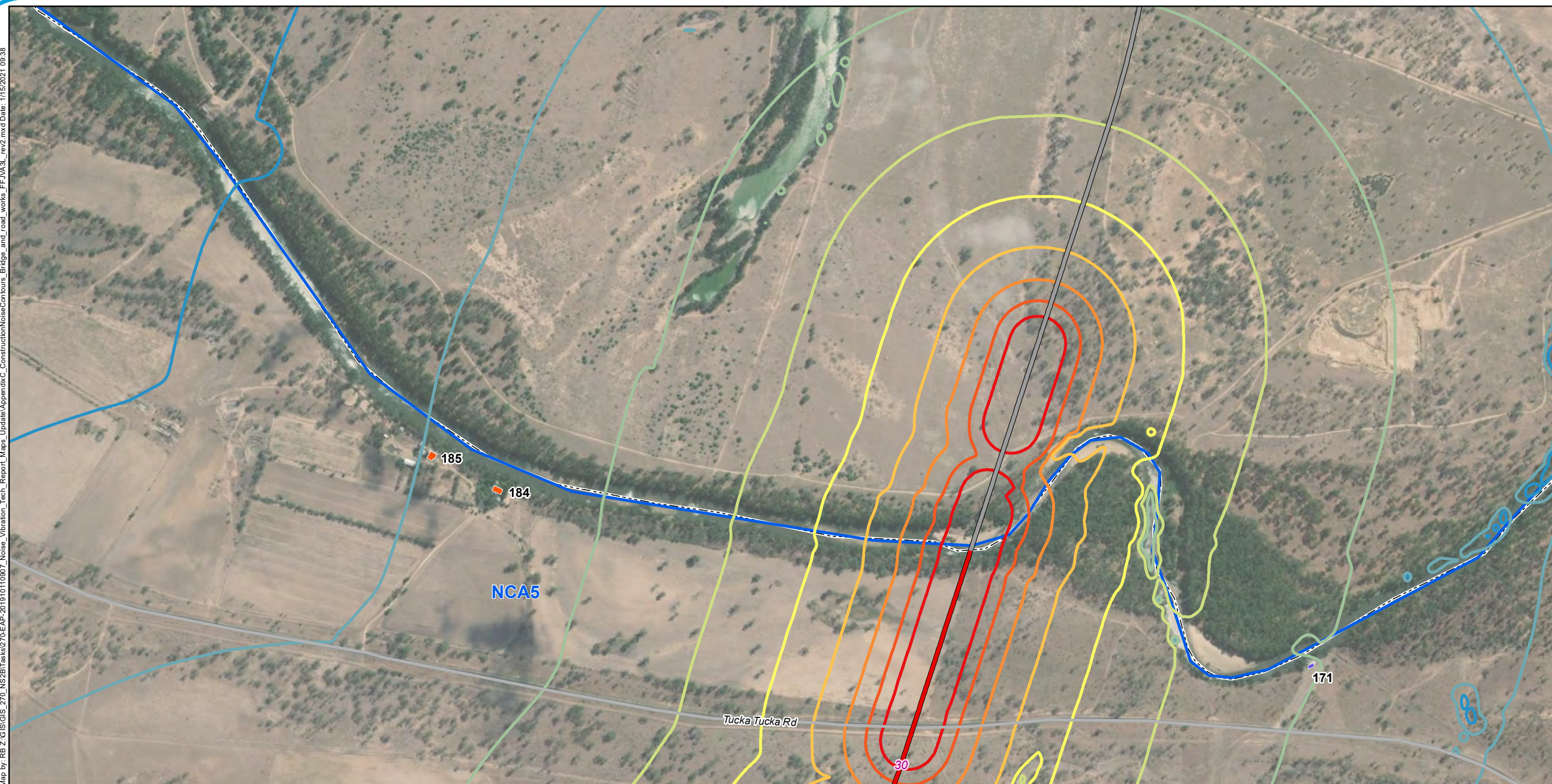


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 18 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Bridge\_and\_road\_works\_FF\JVA3\_rev2.mxd Date: 11/5/2021 09:38



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- NSW/QLD border

#### Sound Pressure Level

##### $L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

#### NCA5

#### Sensitive receivers

- Industrial
- Residential



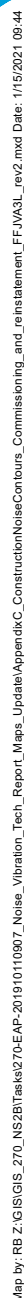
A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Bridge works and road works (Map 19 of 19)





- 5 Chainage (km)
- Localities
- - - Existing rail (non-operational)
- ▬ Adjoining alignments
- ▬ Major roads
- ▬ Minor roads

**L<sub>Aeq</sub>, dB(A)**



 NCAs

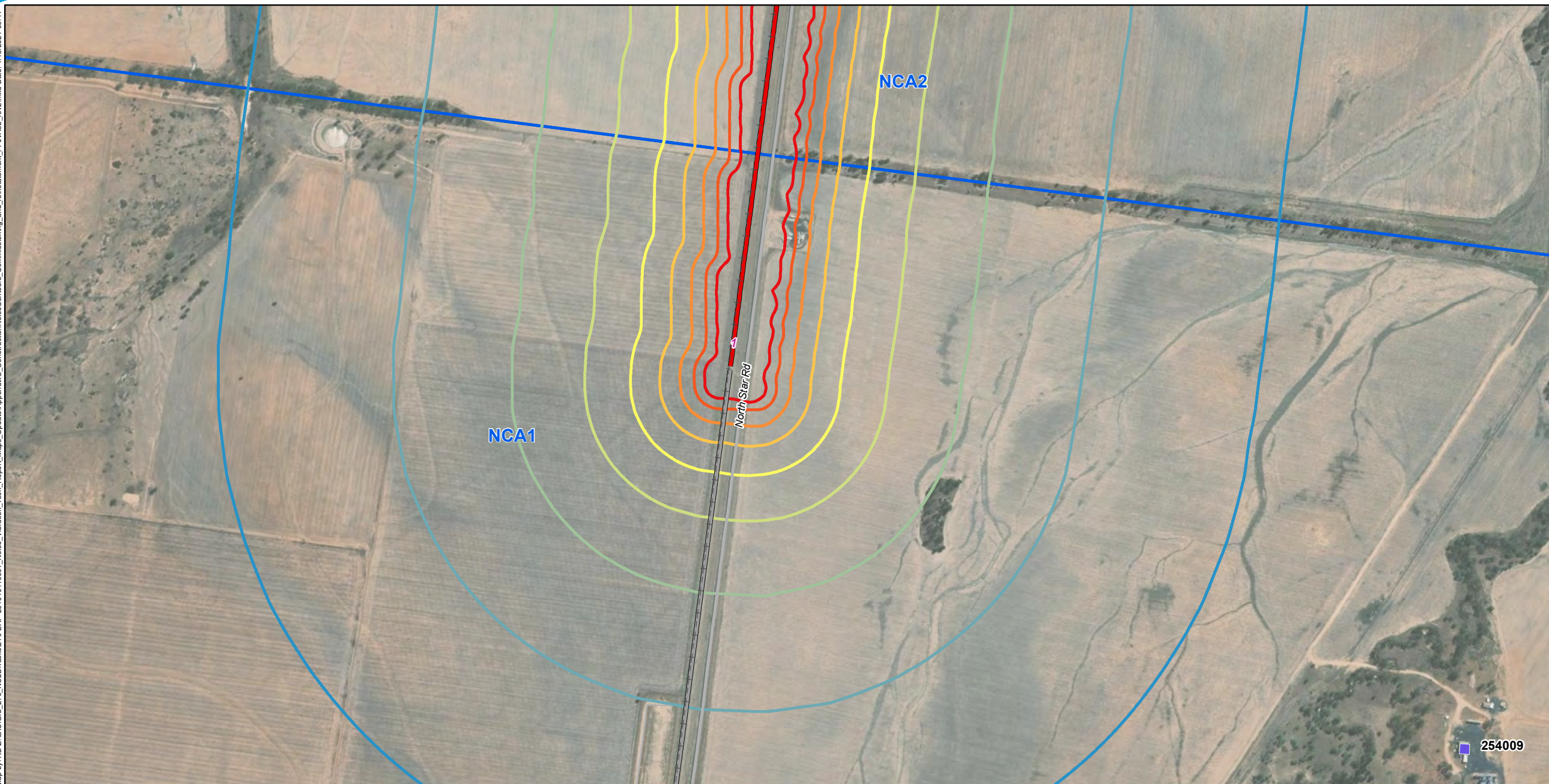
- Active Recreation
- Commercial
- Industrial
- Residential
- School
- Shed



## Appendix C: Construction noise contours - Commissioning and reinstatement (Map 1 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 1/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA1 NCA2

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

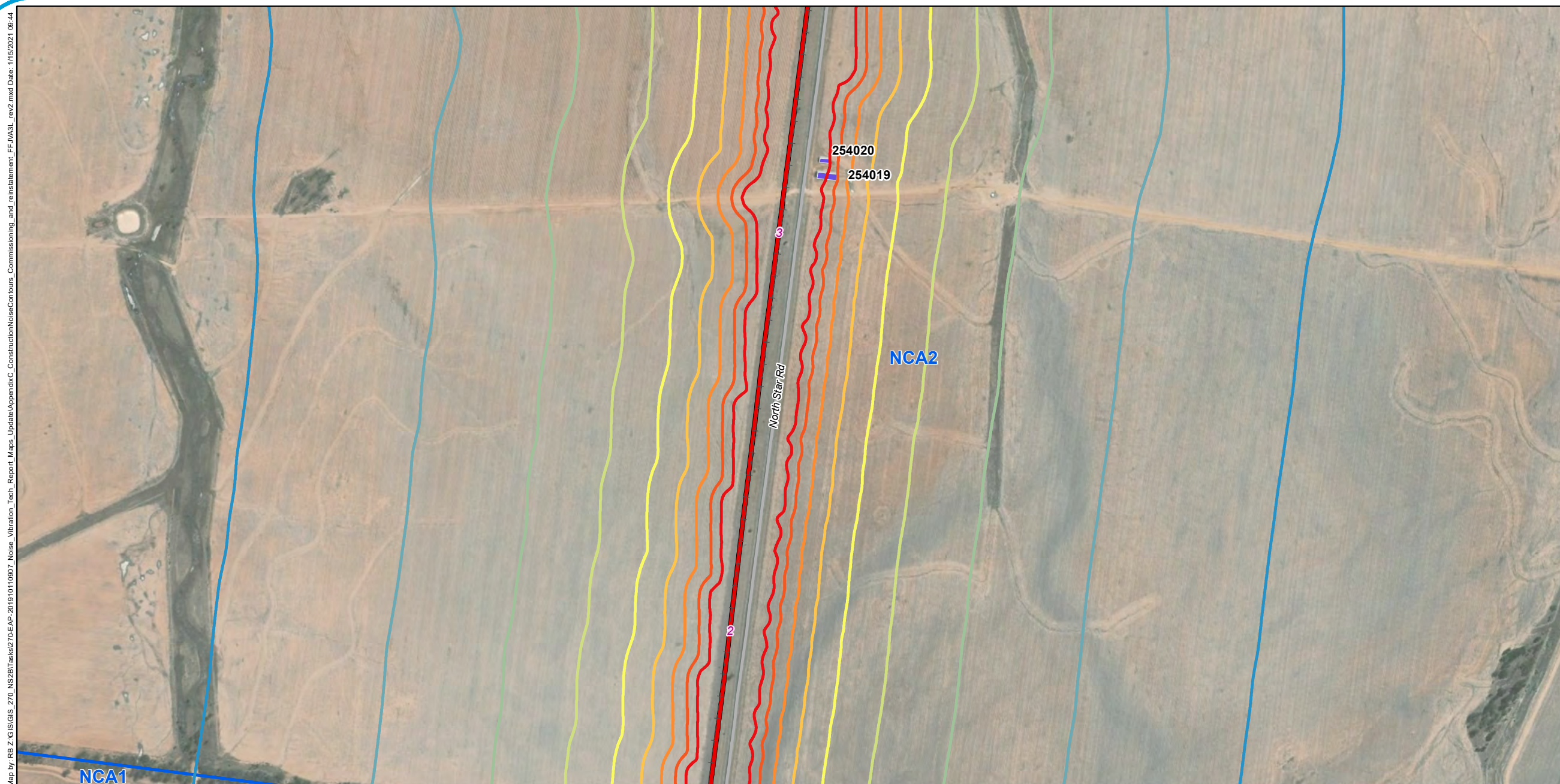


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 2 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF/V331\_rev2.mxd Date: 11/5/2021 09:44



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

L<sub>Aeq</sub>, dB(A)

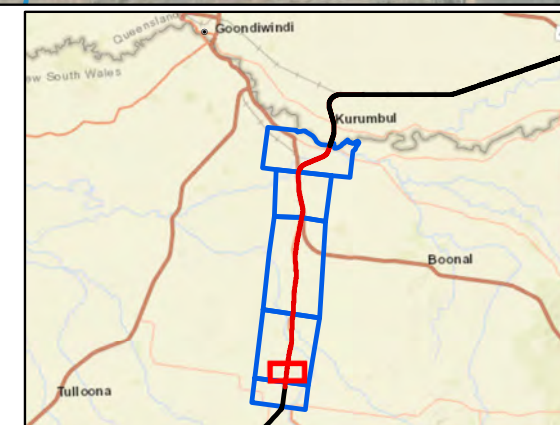
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA's

#### Sensitive receivers

Industrial



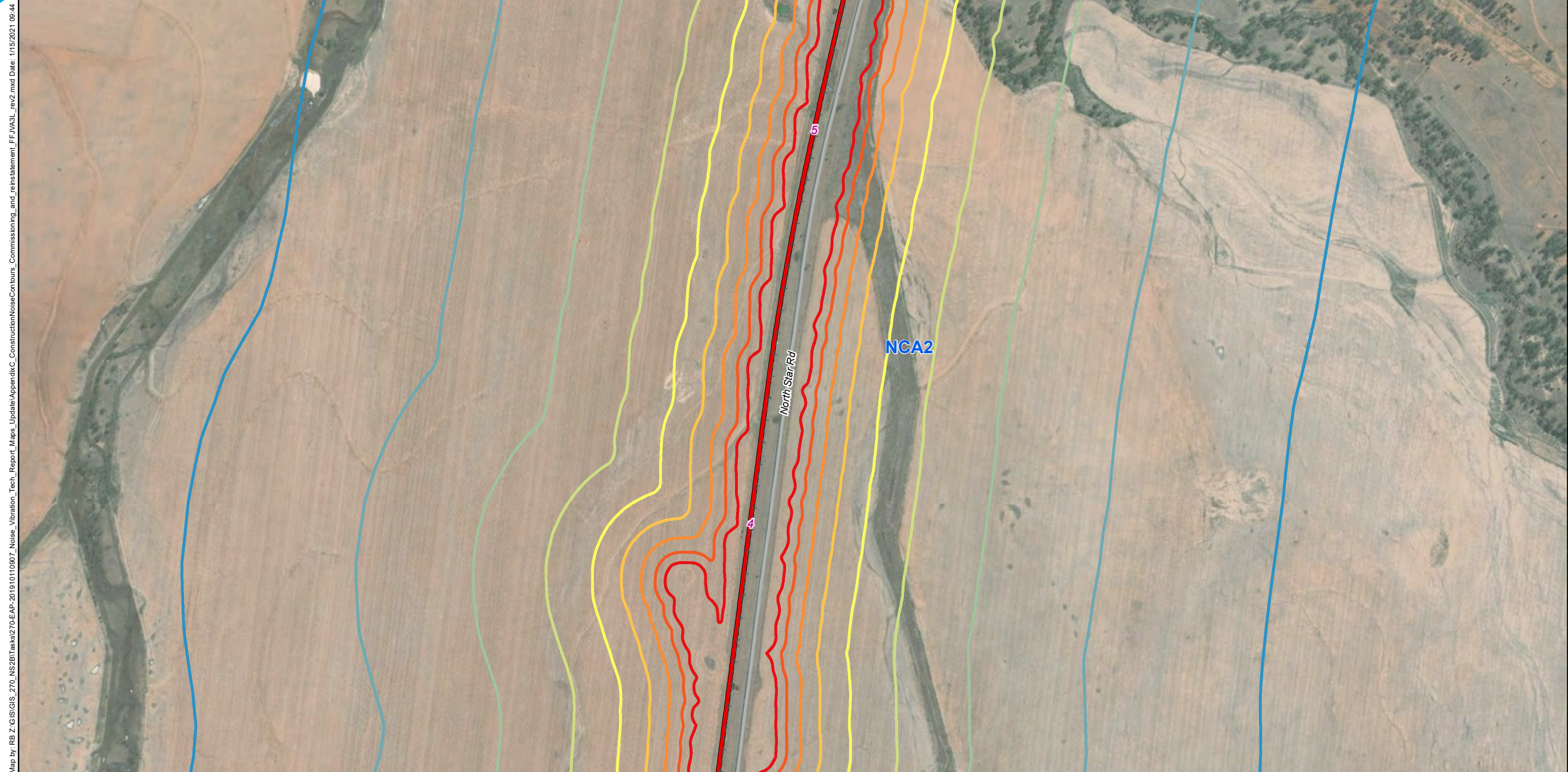
A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 3 of 19)





#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

**LAeq, dB(A)**

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

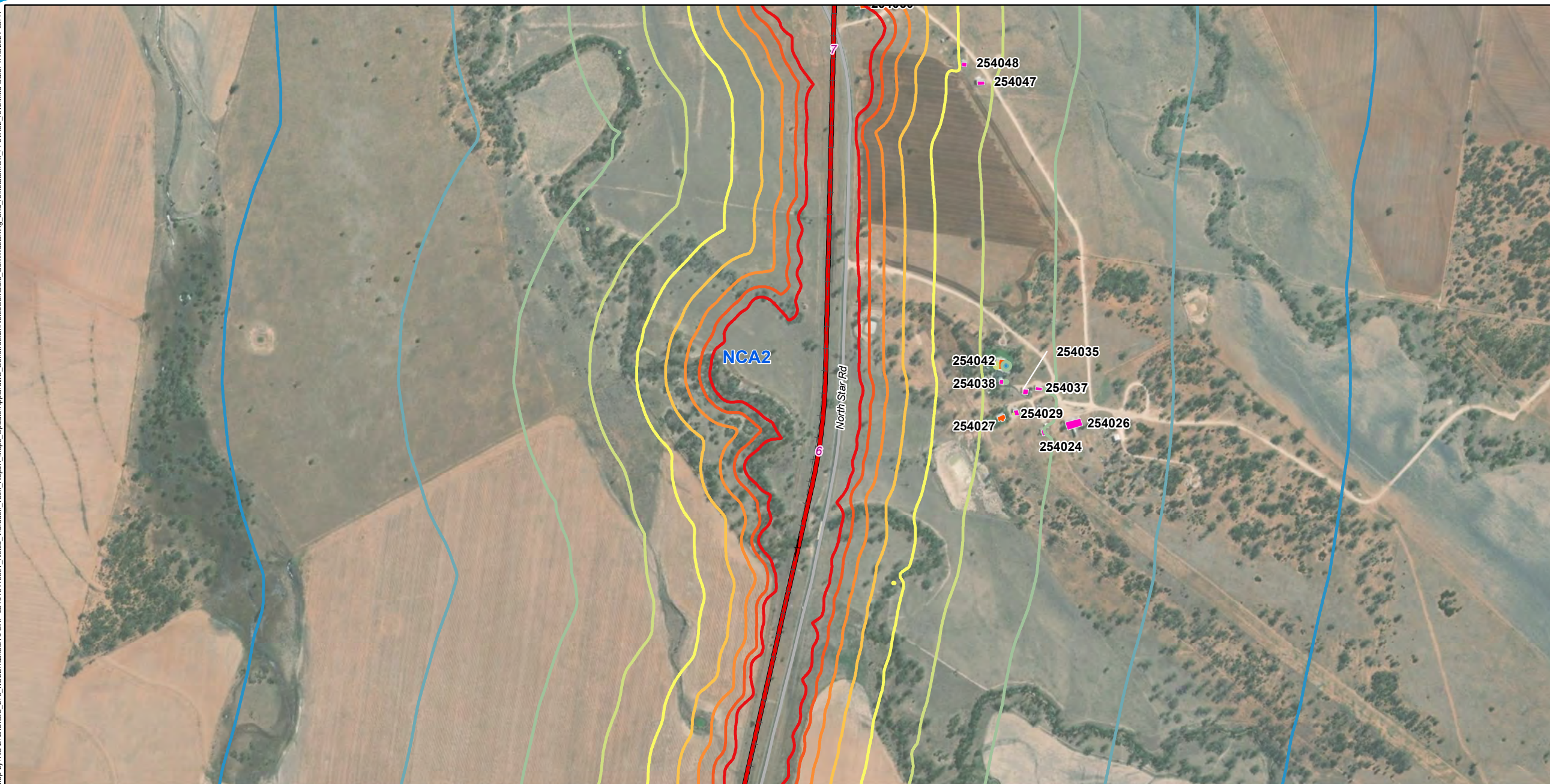


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 4 of 19)



Map by RB 2:GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF\VA31\_rev2.mxd Date: 1/15/2021 09:44



#### Legend

- 5 Chainage (km)
- Existing rail (operational)
- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

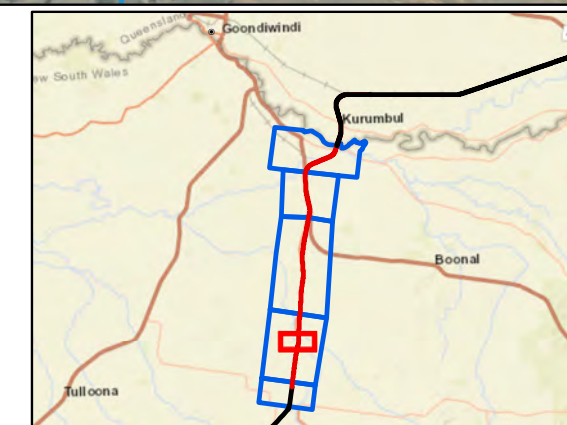
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

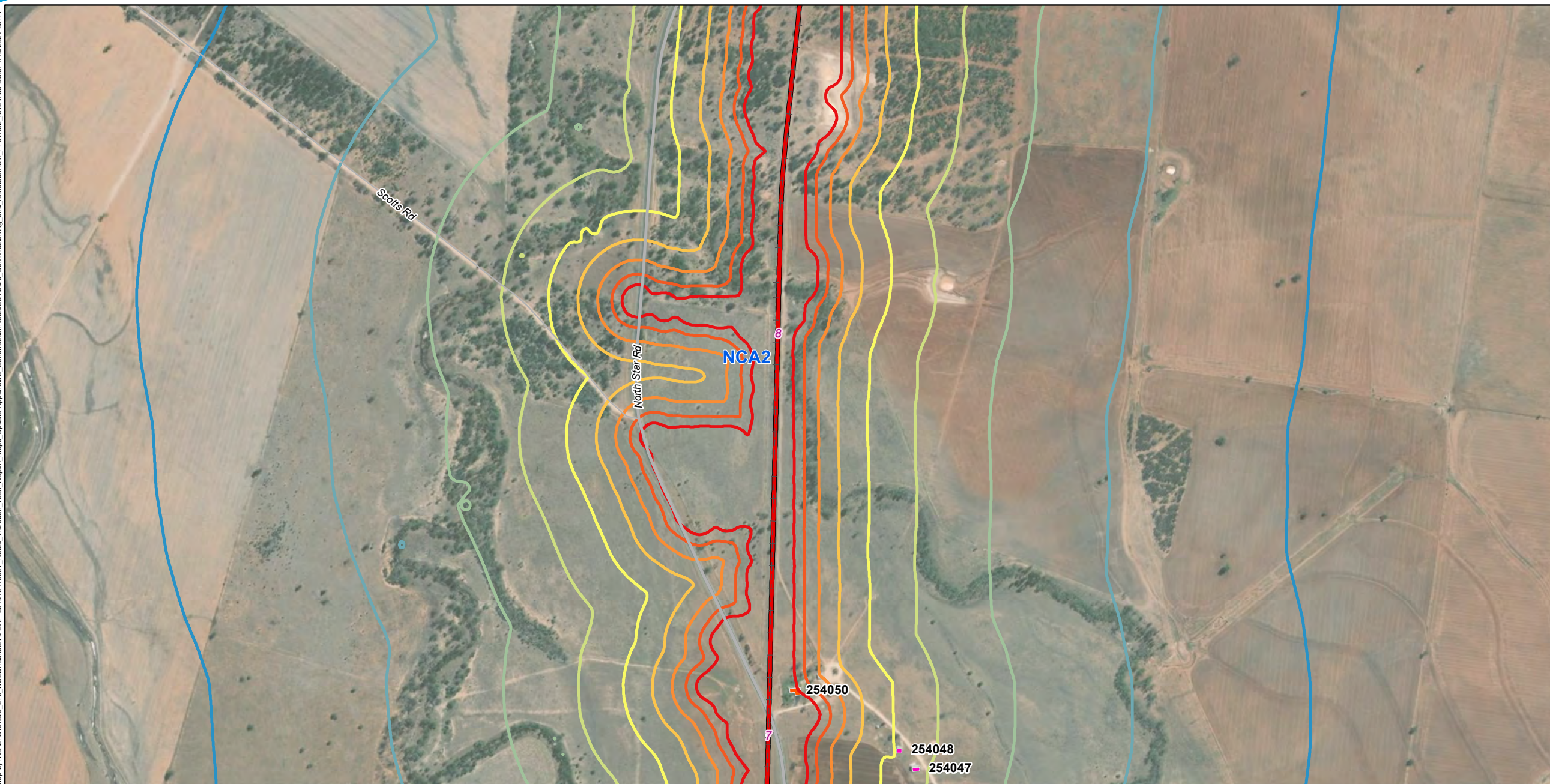


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 5 of 19)



Map by RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 1/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

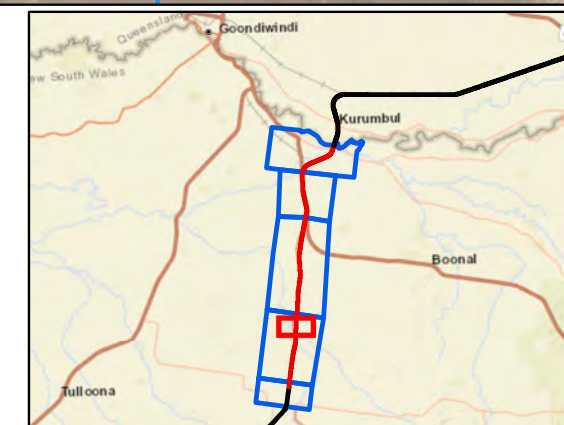
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

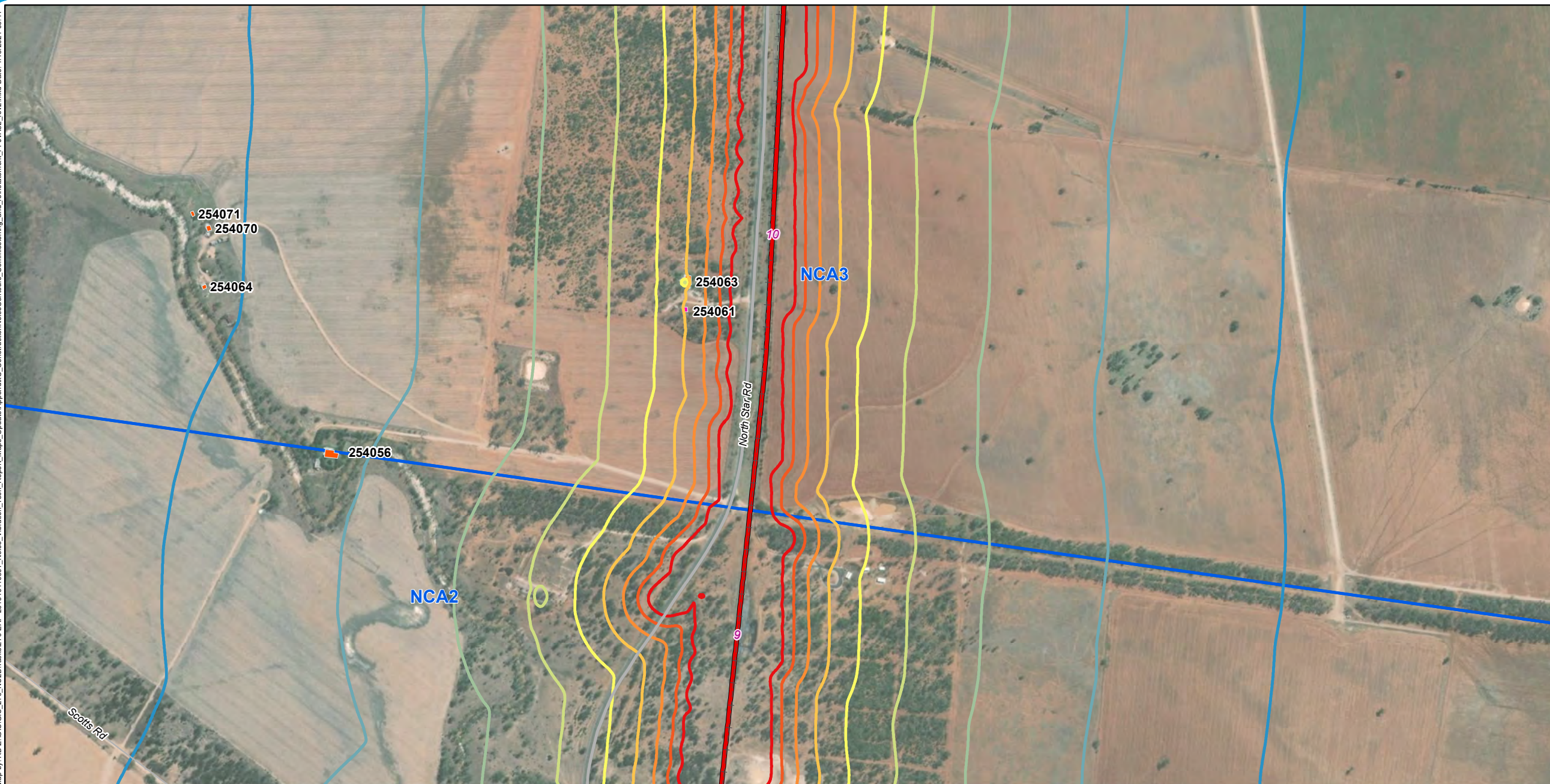


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 6 of 19)



Map by RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-2019/1010607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

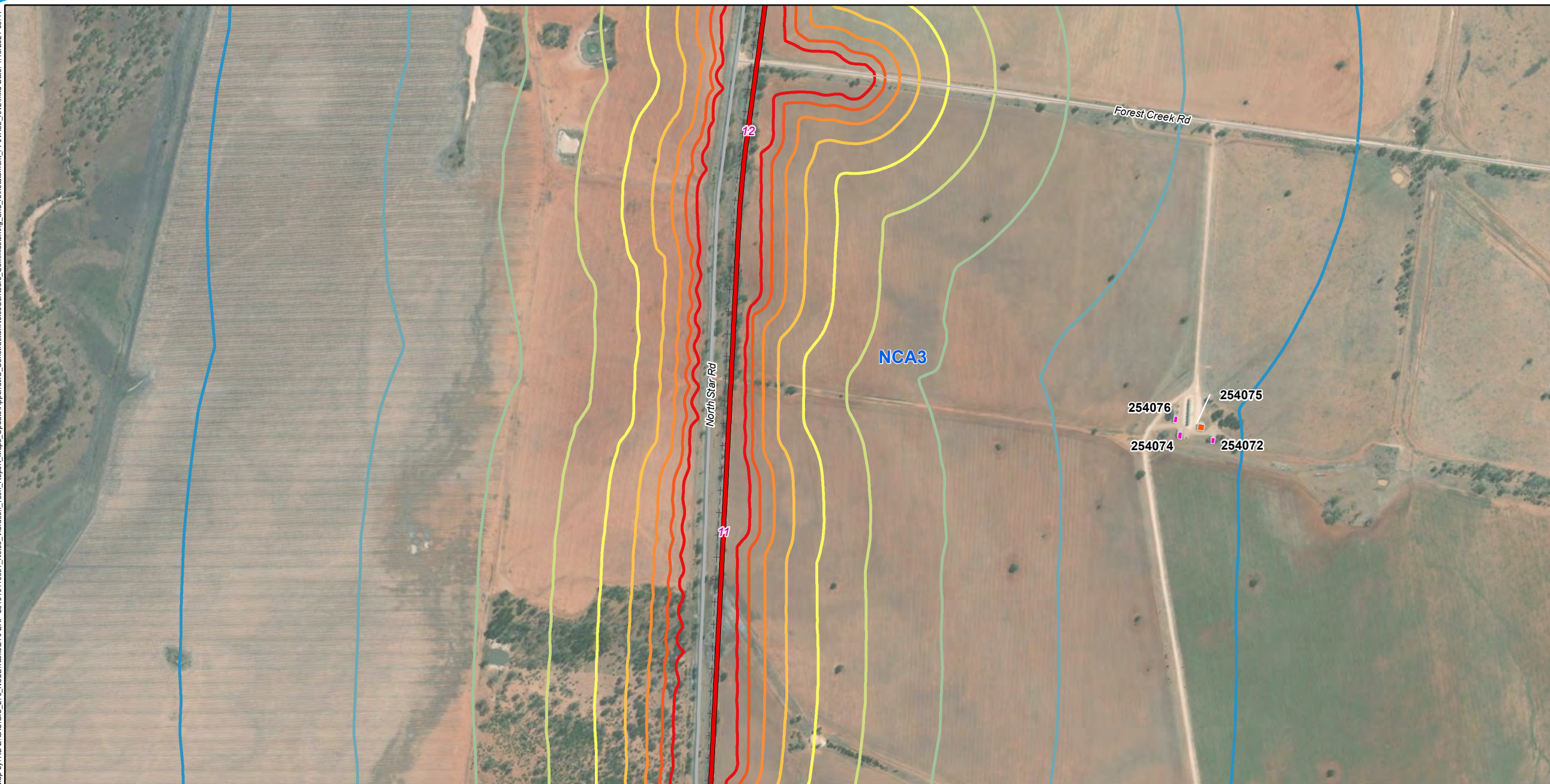


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 7 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

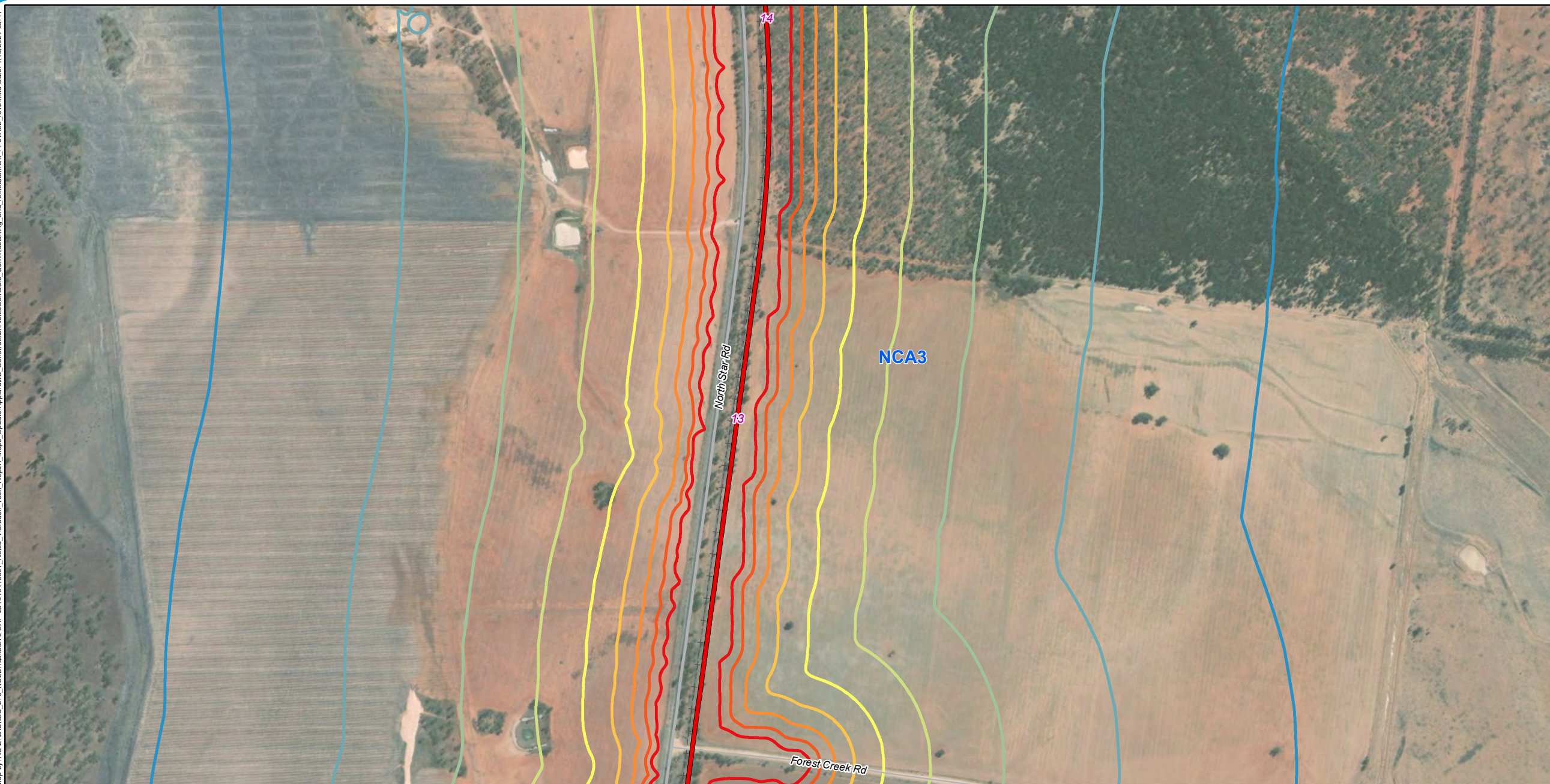


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 8 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 11/5/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

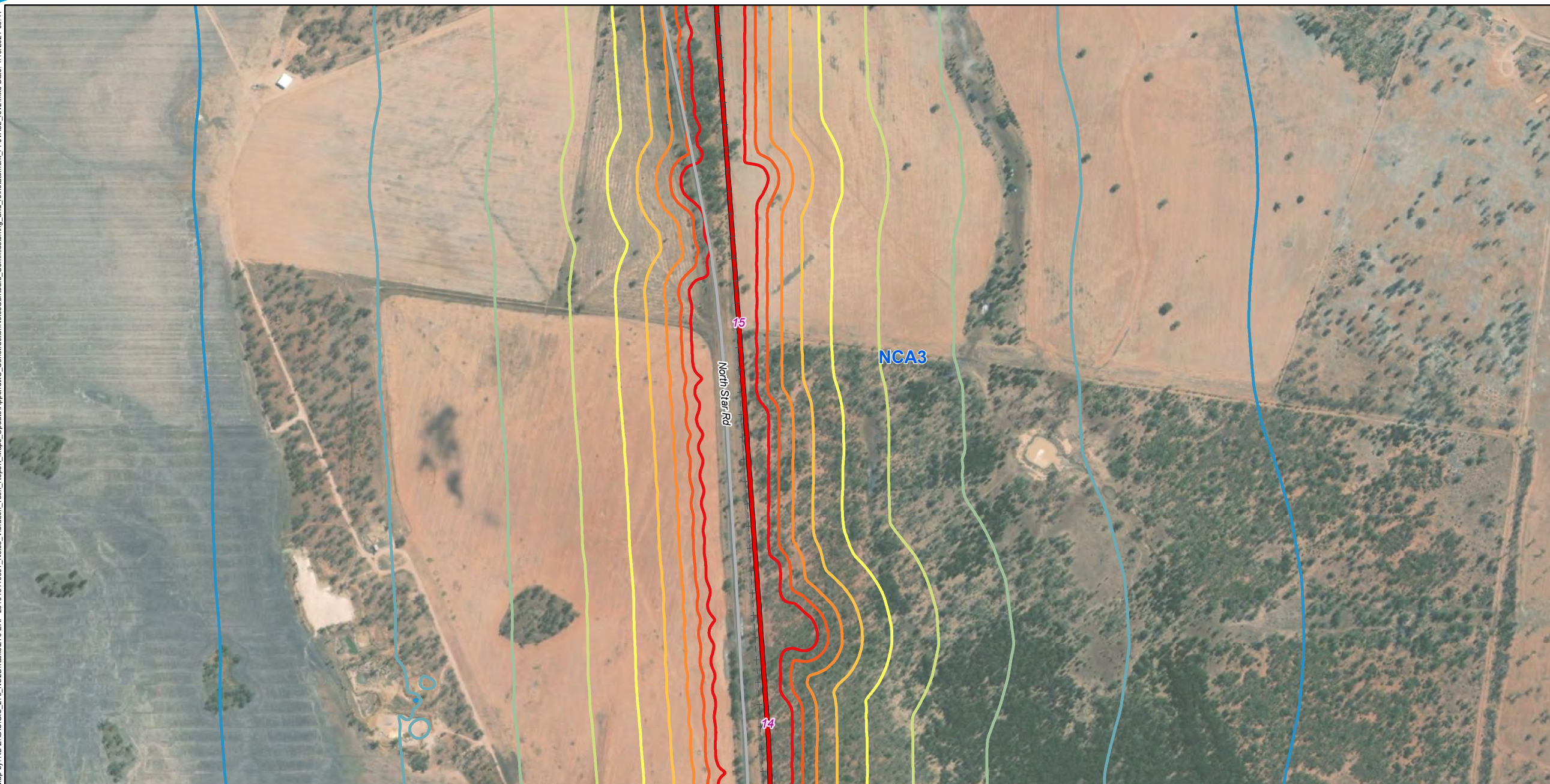


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 9 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 1/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

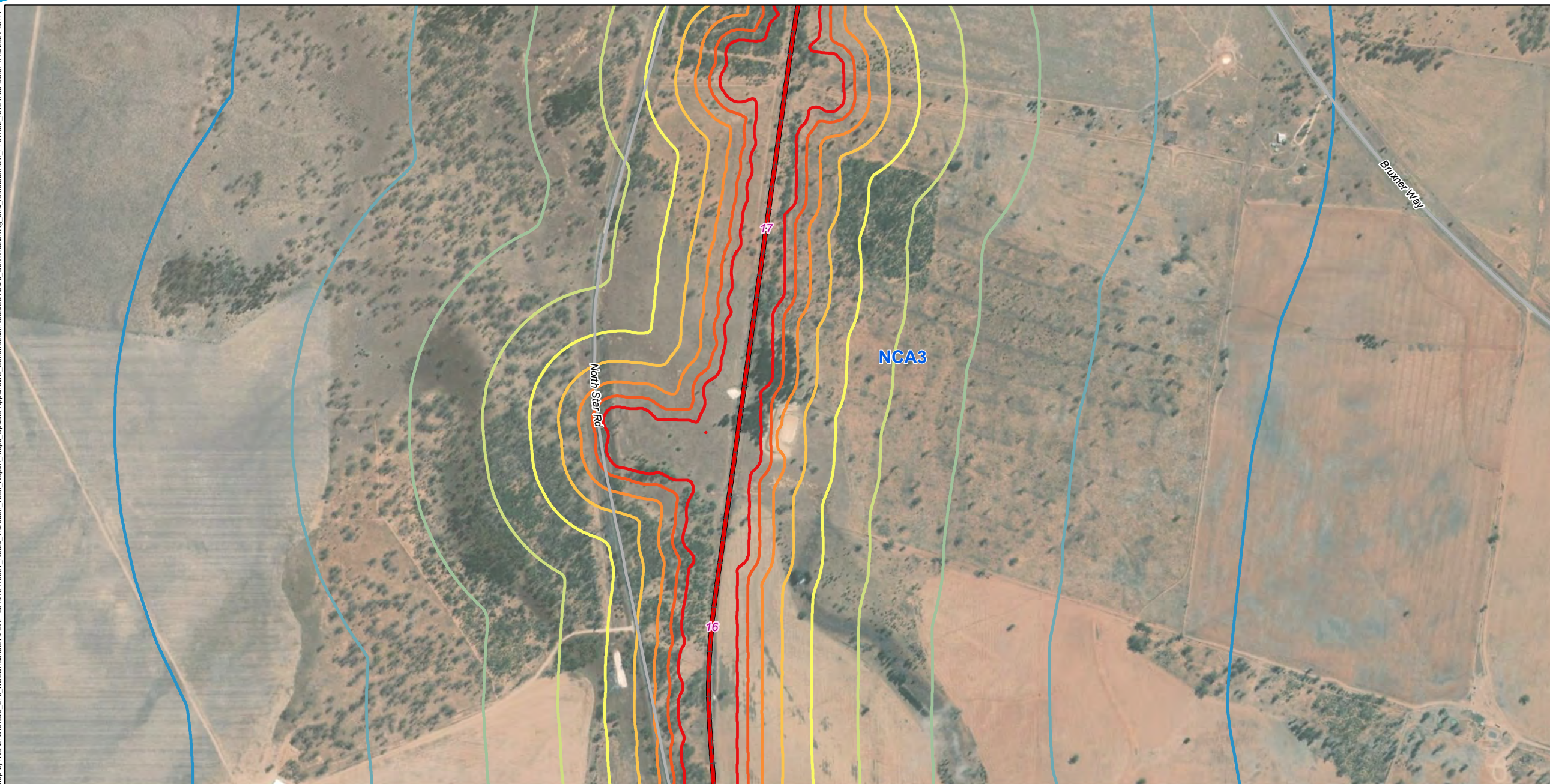


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 10 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF\VA31\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



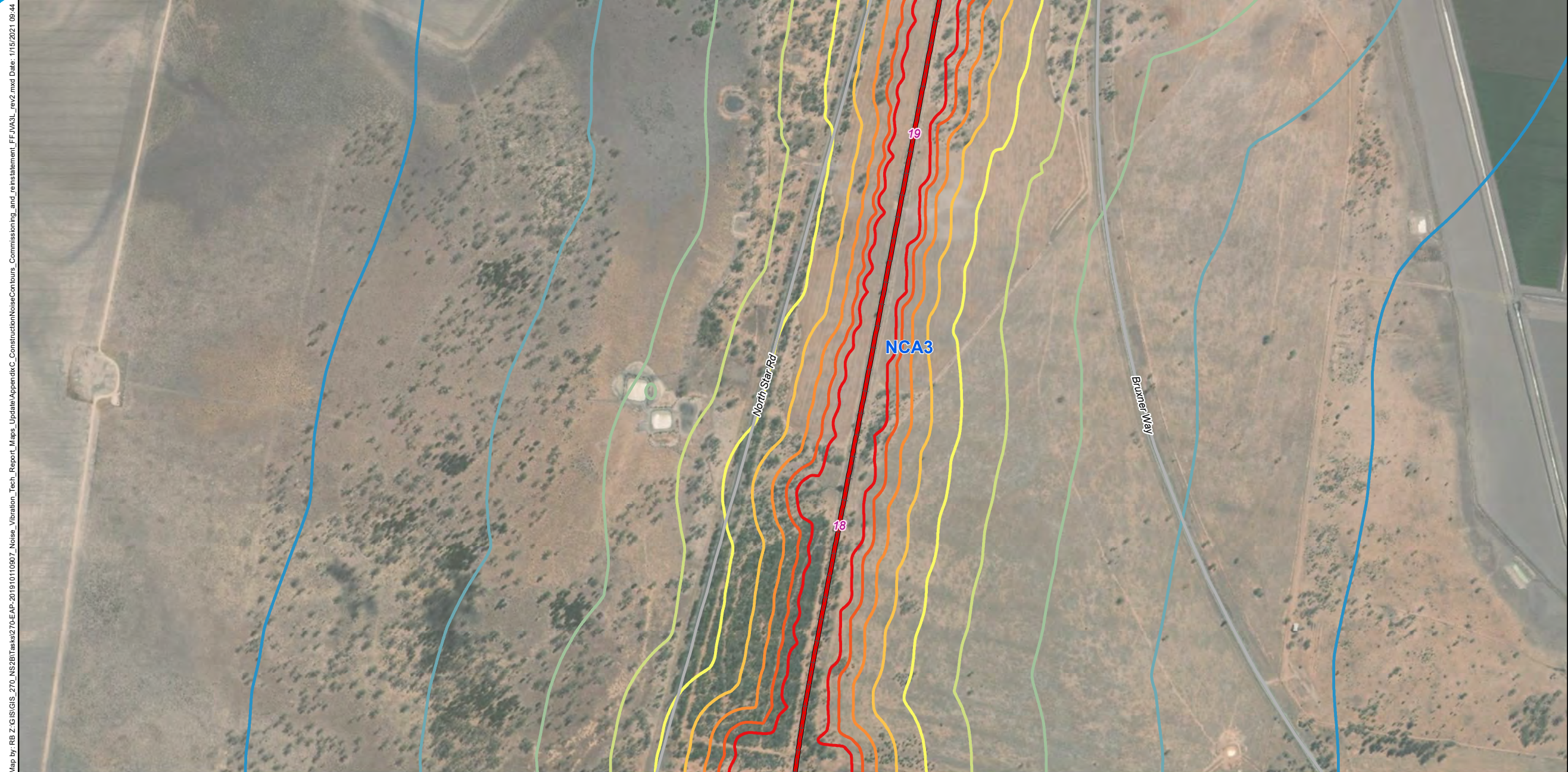
A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 11 of 19)





#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

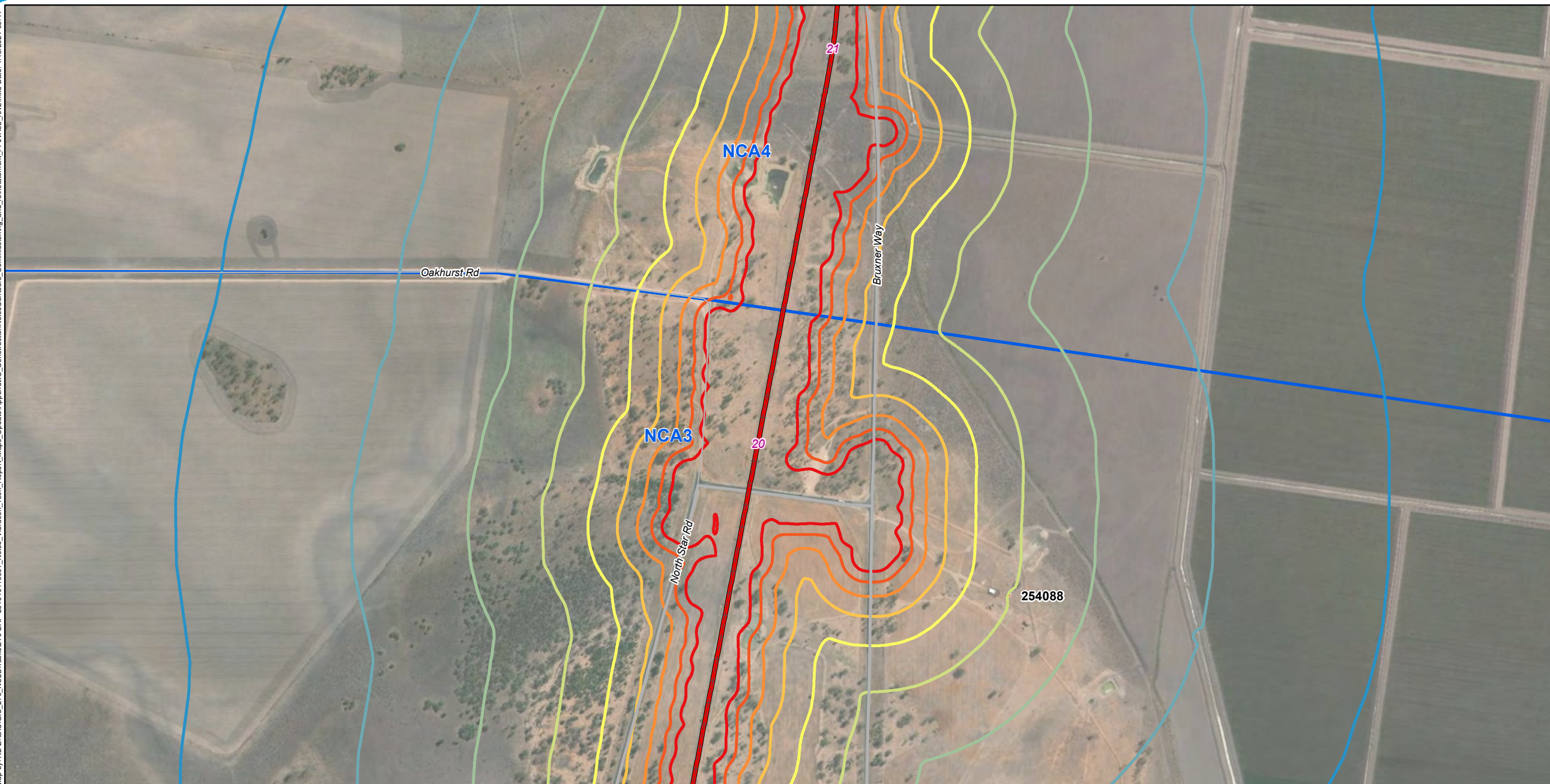


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 12 of 19)



Map by RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF\VA31\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

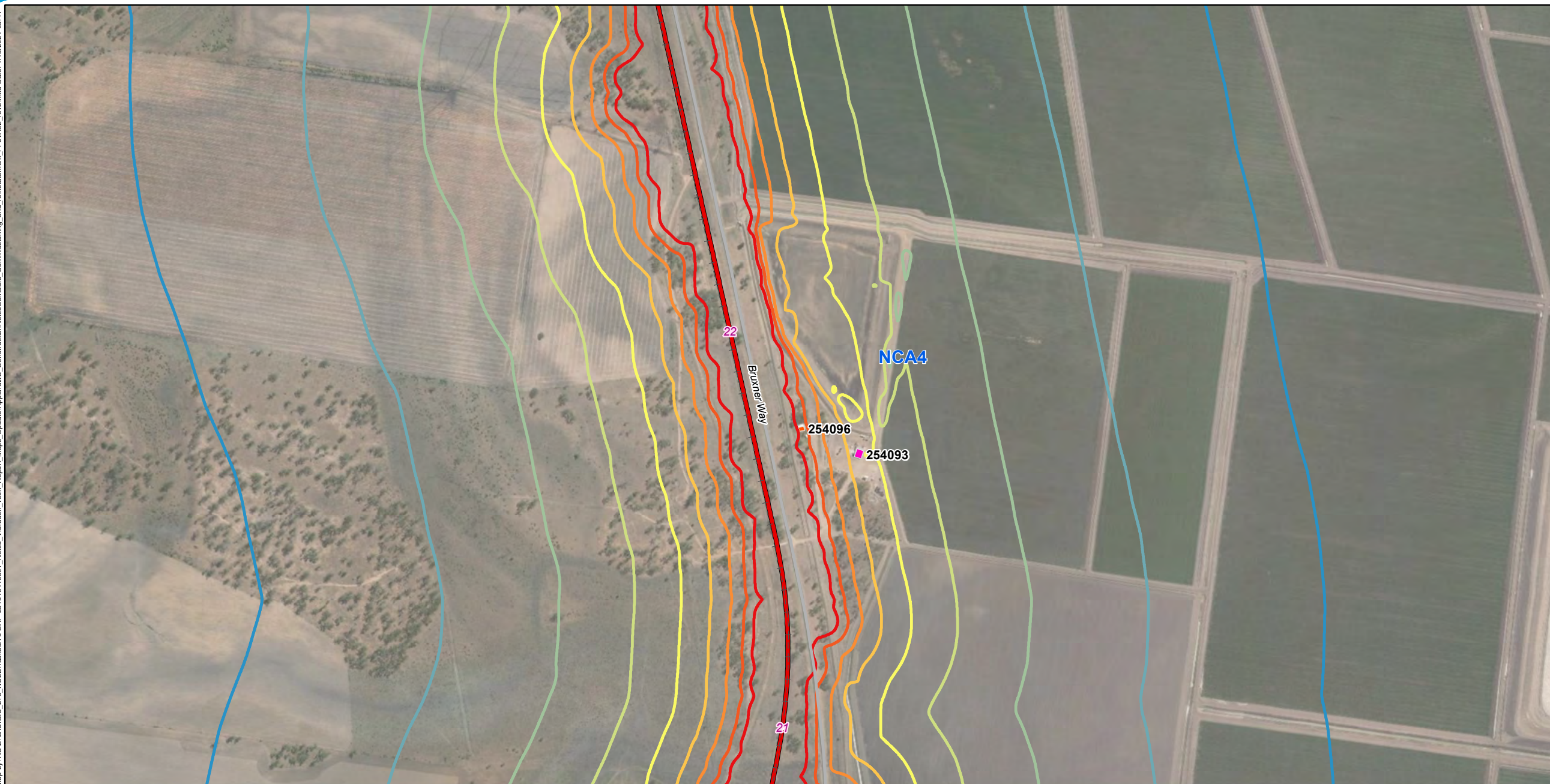


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 13 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF\VA31\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA's

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

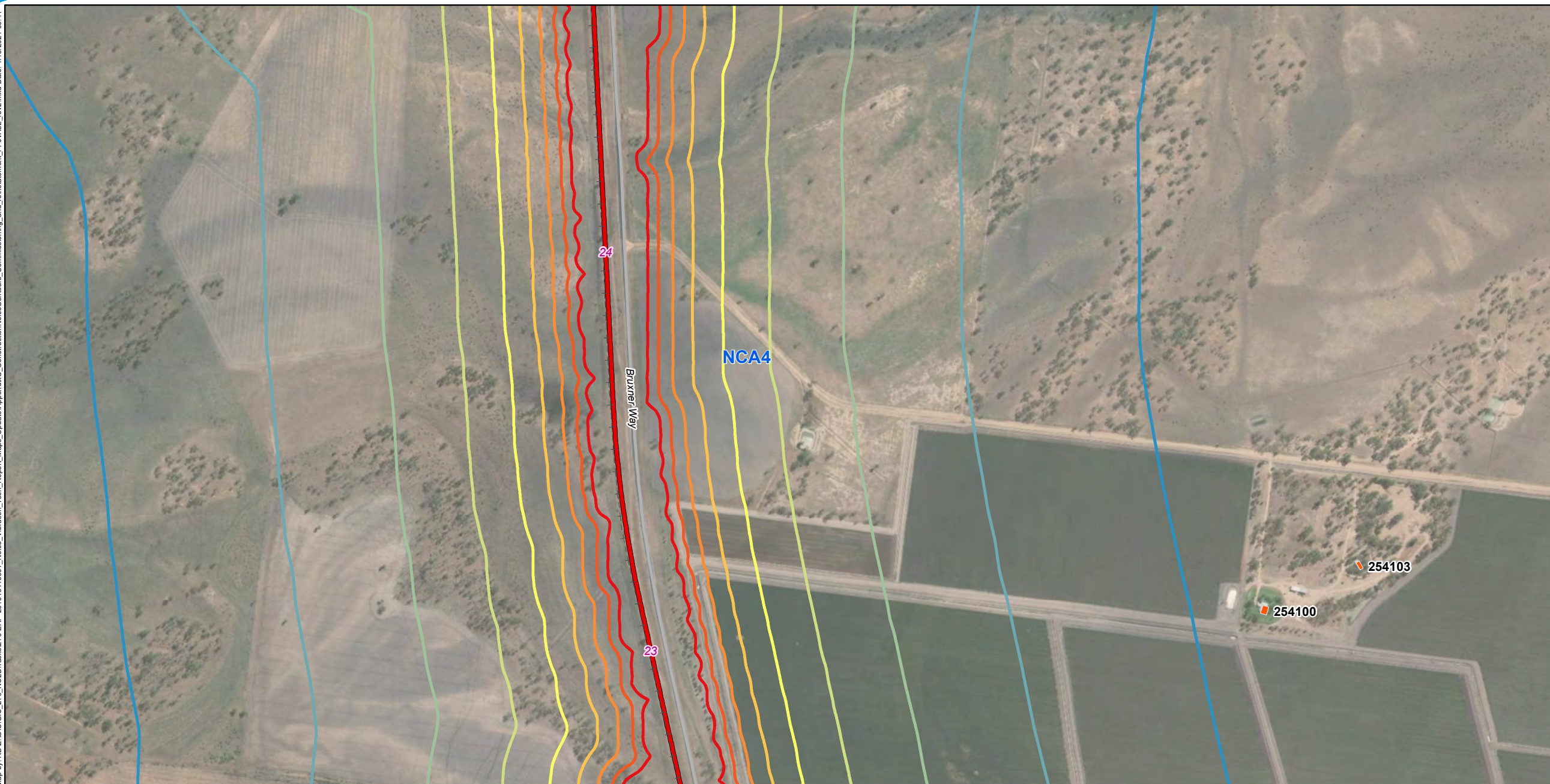


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 14 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-2019/10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA4

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

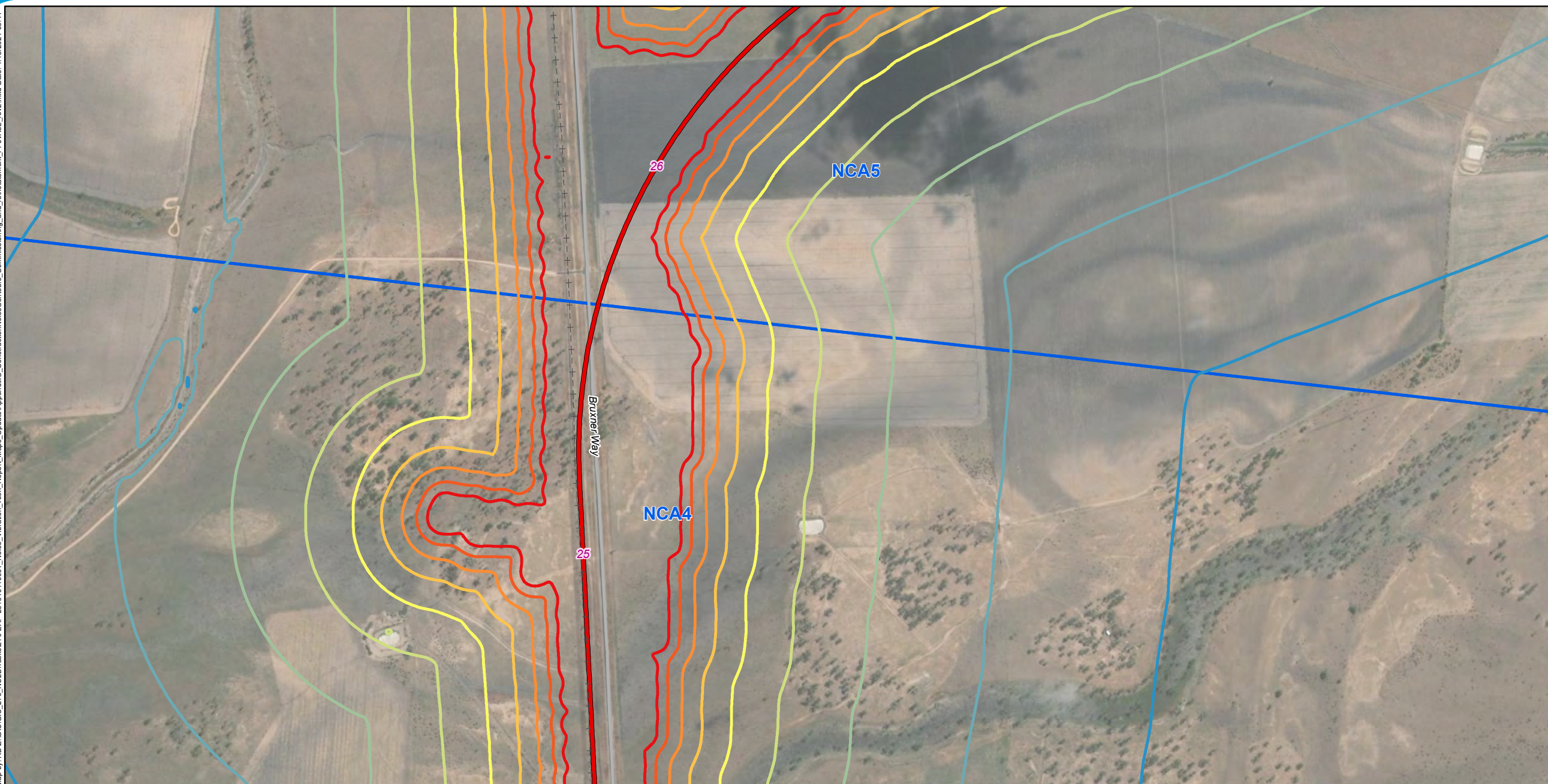


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 15 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-2019/10110607 Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF/V3/31\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

NCA4



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

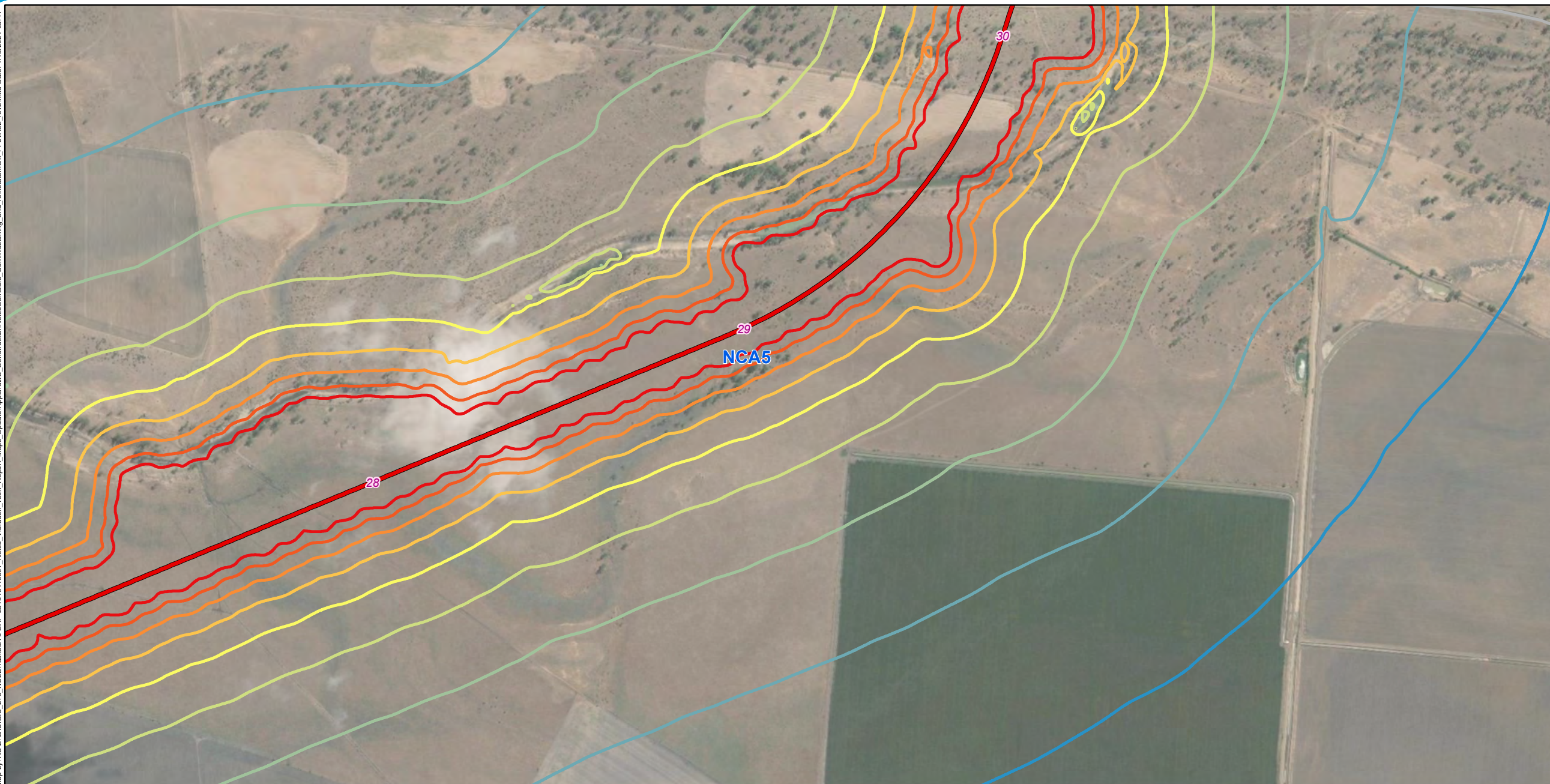


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 16 of 19)



Map by RB Z:\GIS\GIS\_270\_NS2BTasks\270-EAP-2019\101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF\VA31\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

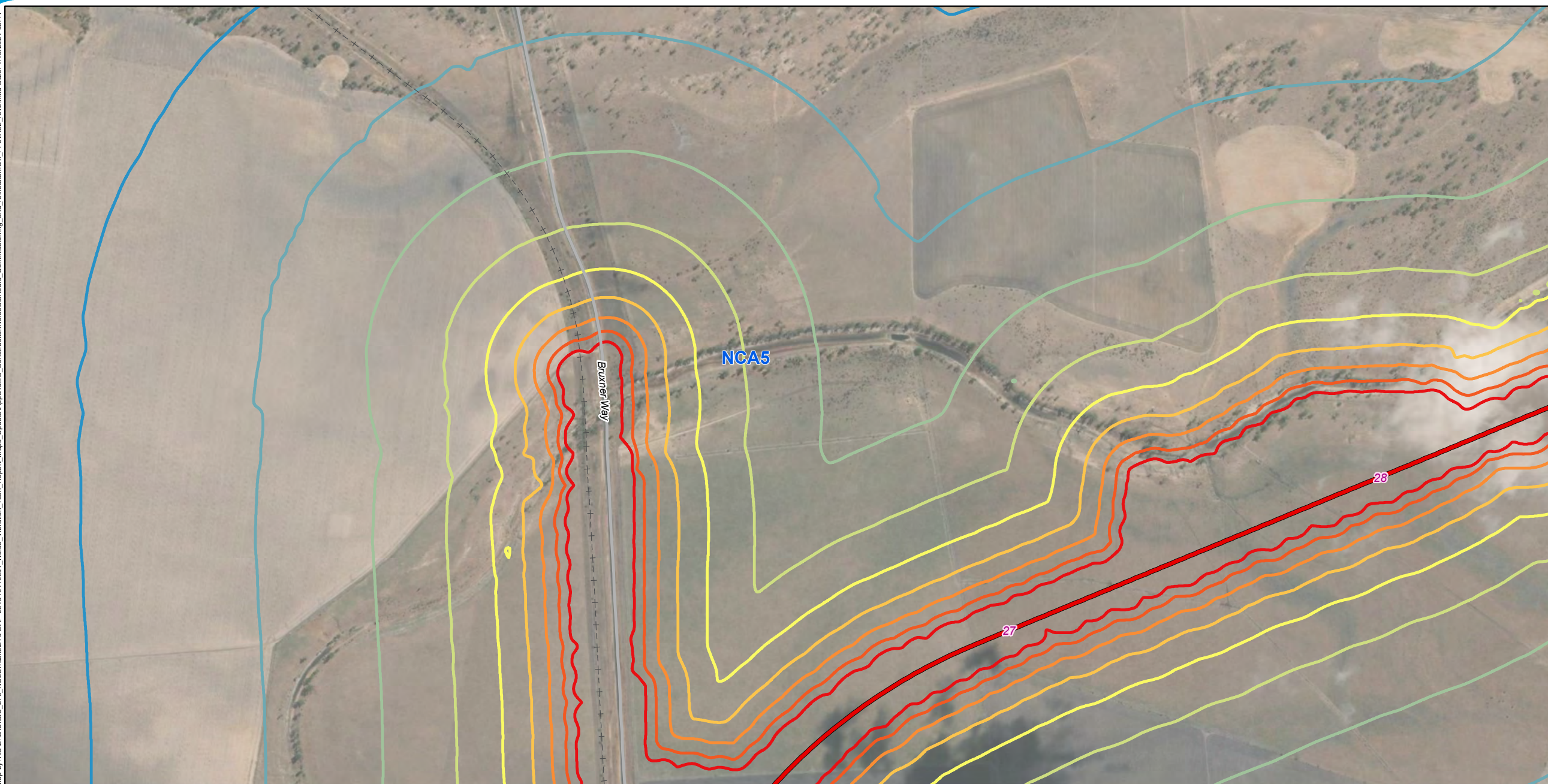


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 17 of 19)



Map by: RB 2:GIS/GIS\_270\_NS2B1Tasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF3V331\_rev2.mxd Date: 11/5/2021 09:44



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

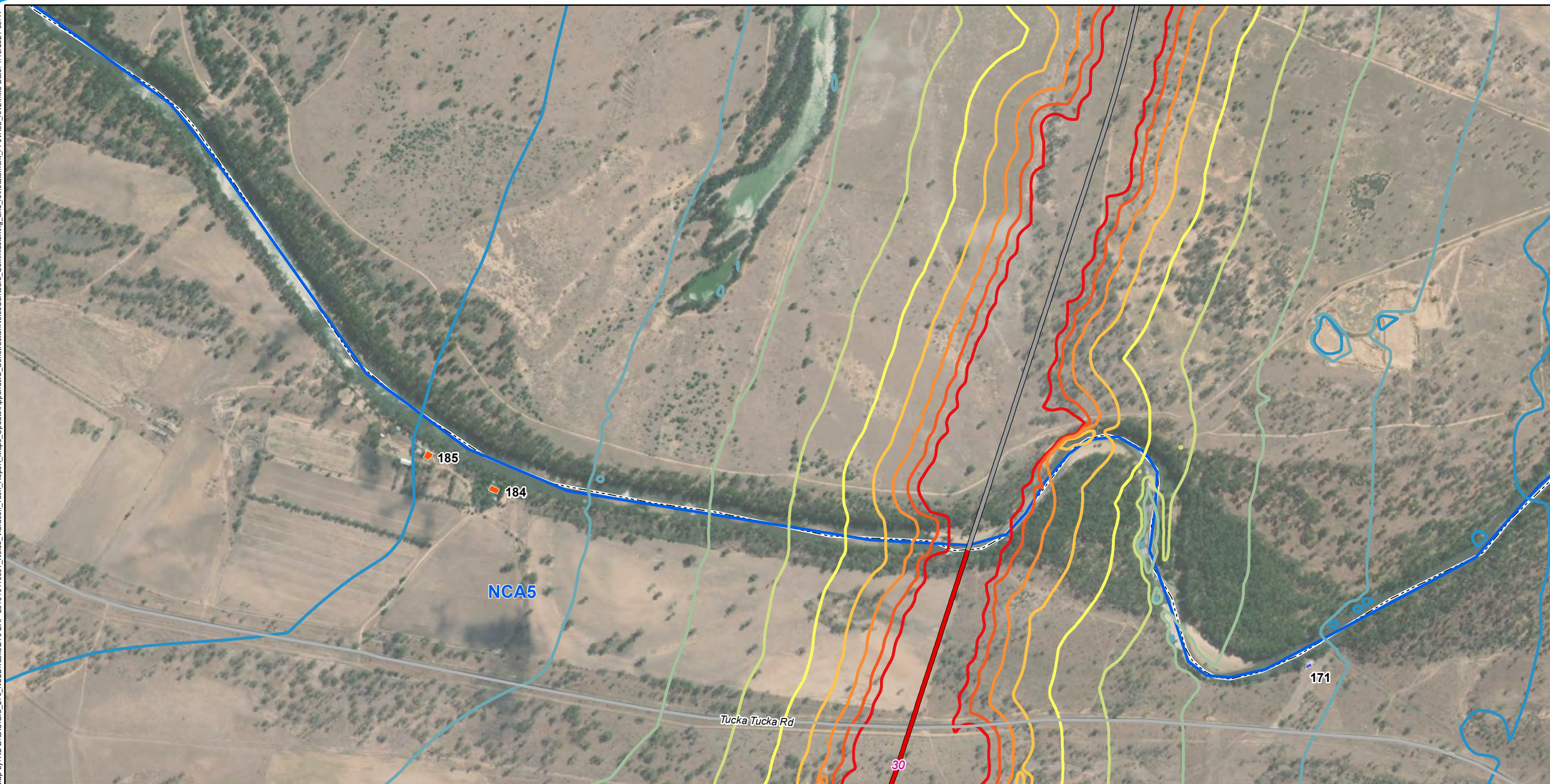


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 18 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Commissioning\_and\_reinstatement\_FF/V331\_rev2.mxd Date: 11/15/2021 09:44



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- NSW/QLD border

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

- Industrial
- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

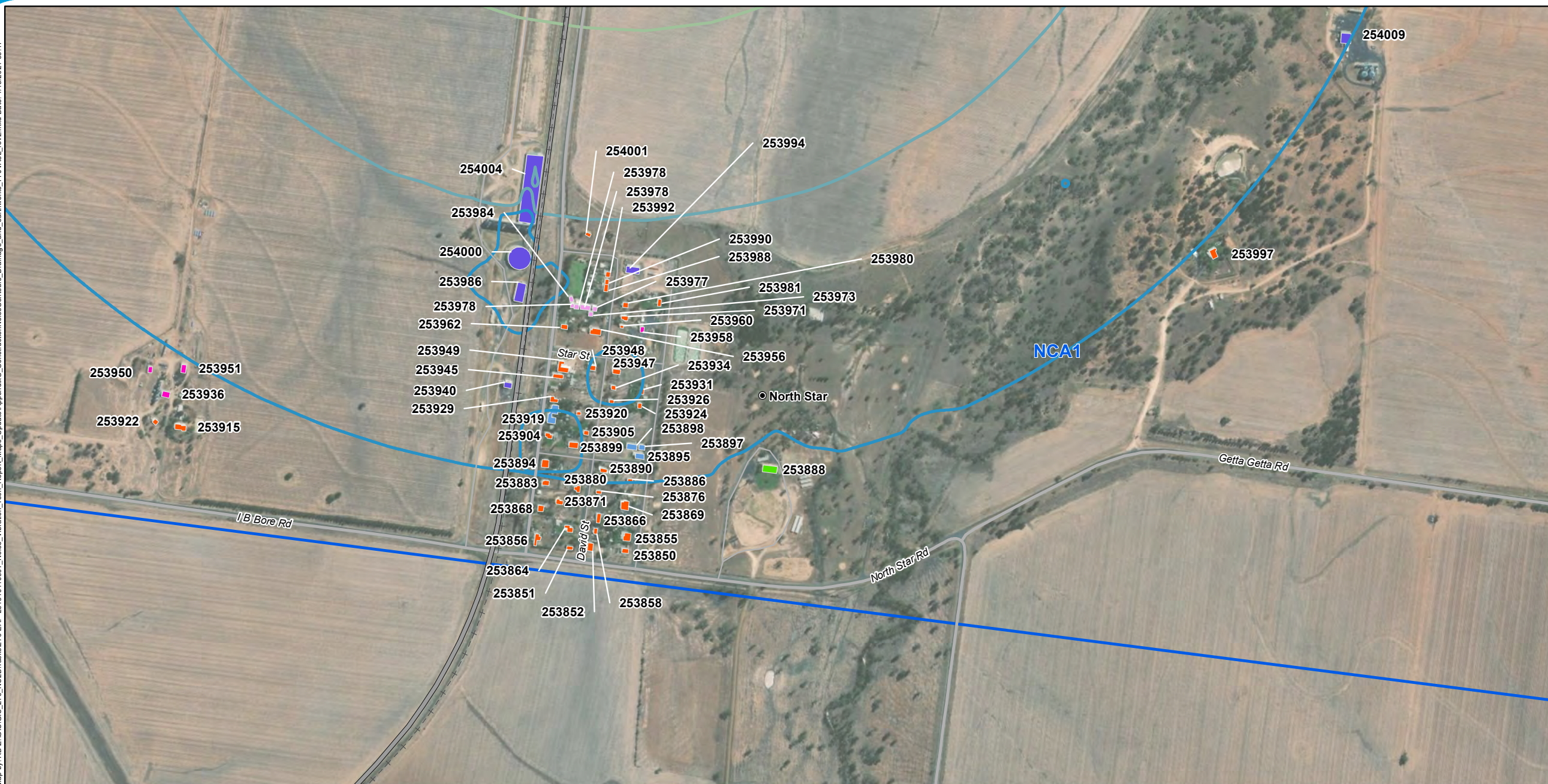


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Commissioning and reinstatement (Map 19 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF1V31L\_rev2.mxd Date: 1/15/2021 09:47



### Legend

- 5 Chainage (km)
- Localities
- - - Existing rail (non-operational)
- Adjoining alignments
- Major roads
- Minor roads

### Sound Pressure Level

#### L<sub>Aeq</sub>, dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

### NCA1

### Sensitive receivers

- Active Recreation
- Commercial
- Industrial
- Residential
- School
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

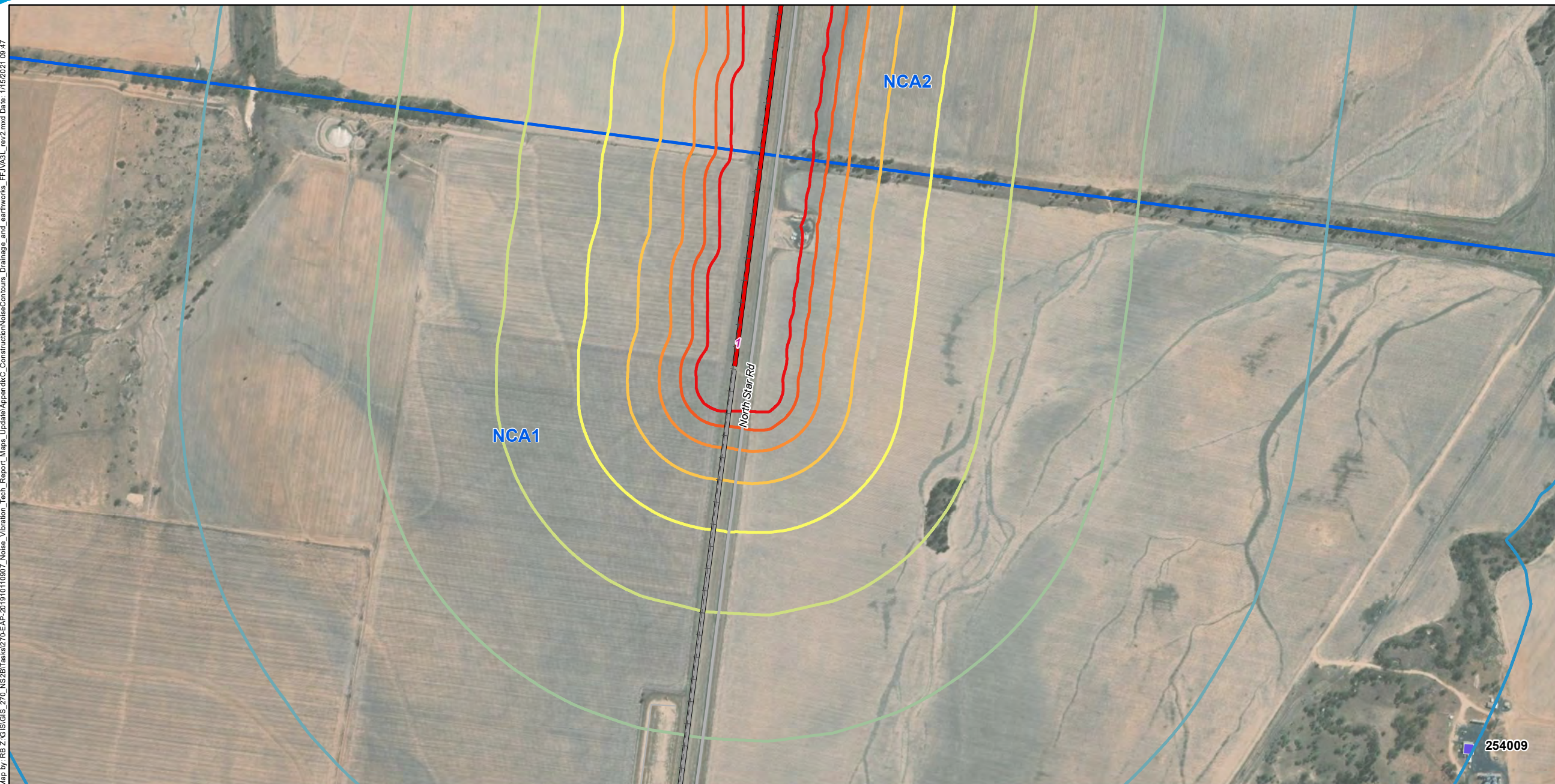


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 1 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Map\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF1V31L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

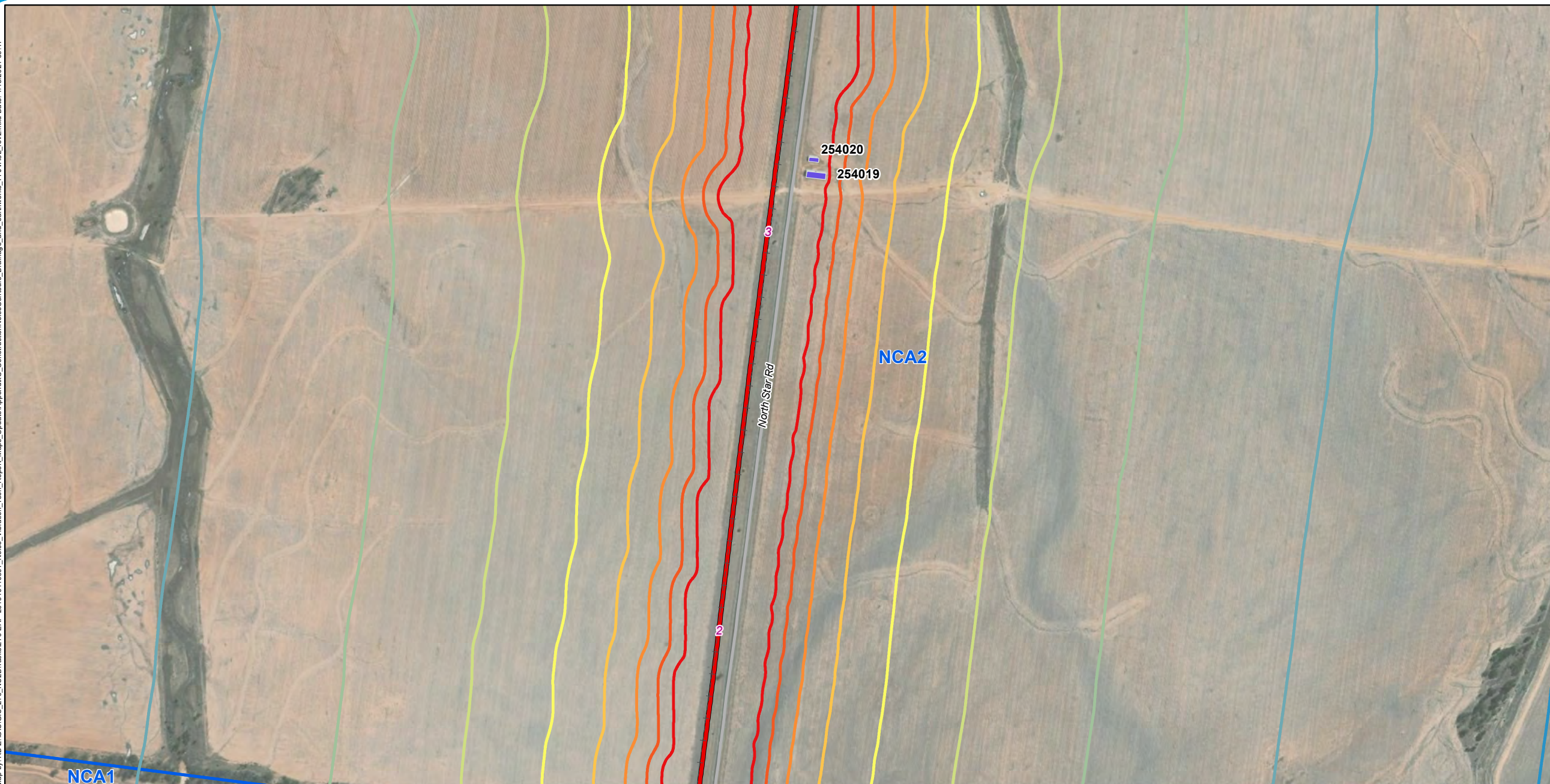


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 2 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\VA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

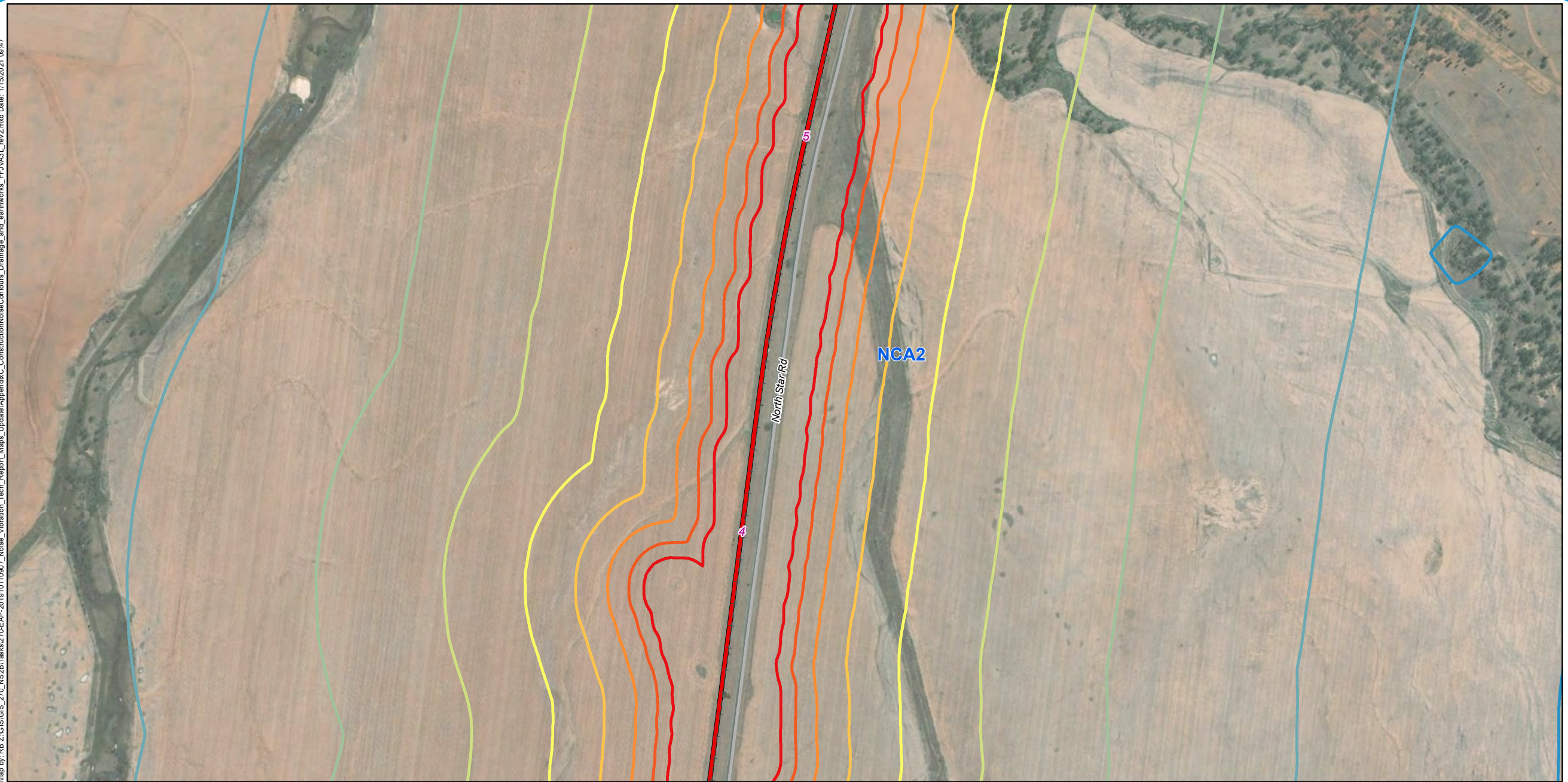


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 3 of 19)



Map by RB 2:GIS\GIS\_270\NS2B\Tasks\270-EAP-2019\101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

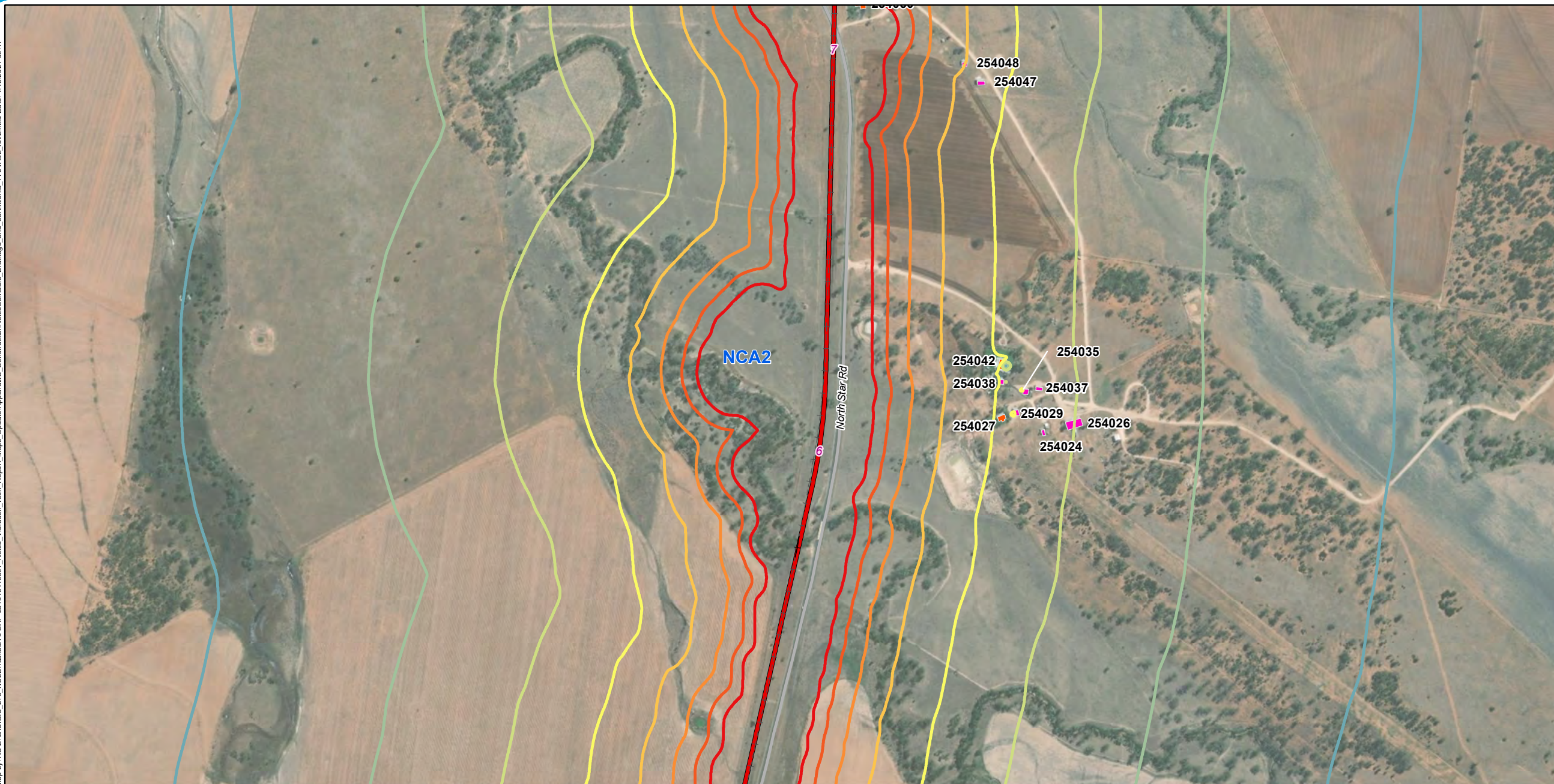


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 4 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- Existing rail (operational)
- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

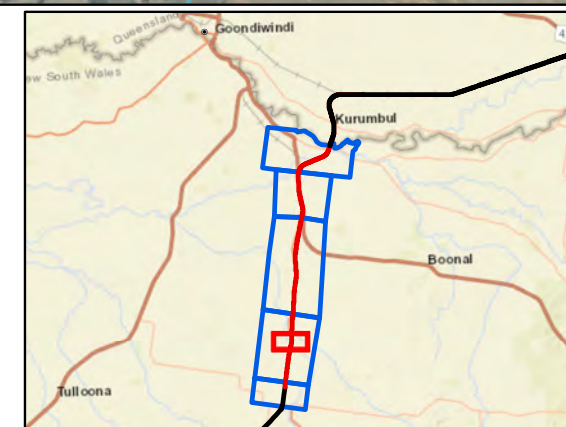
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

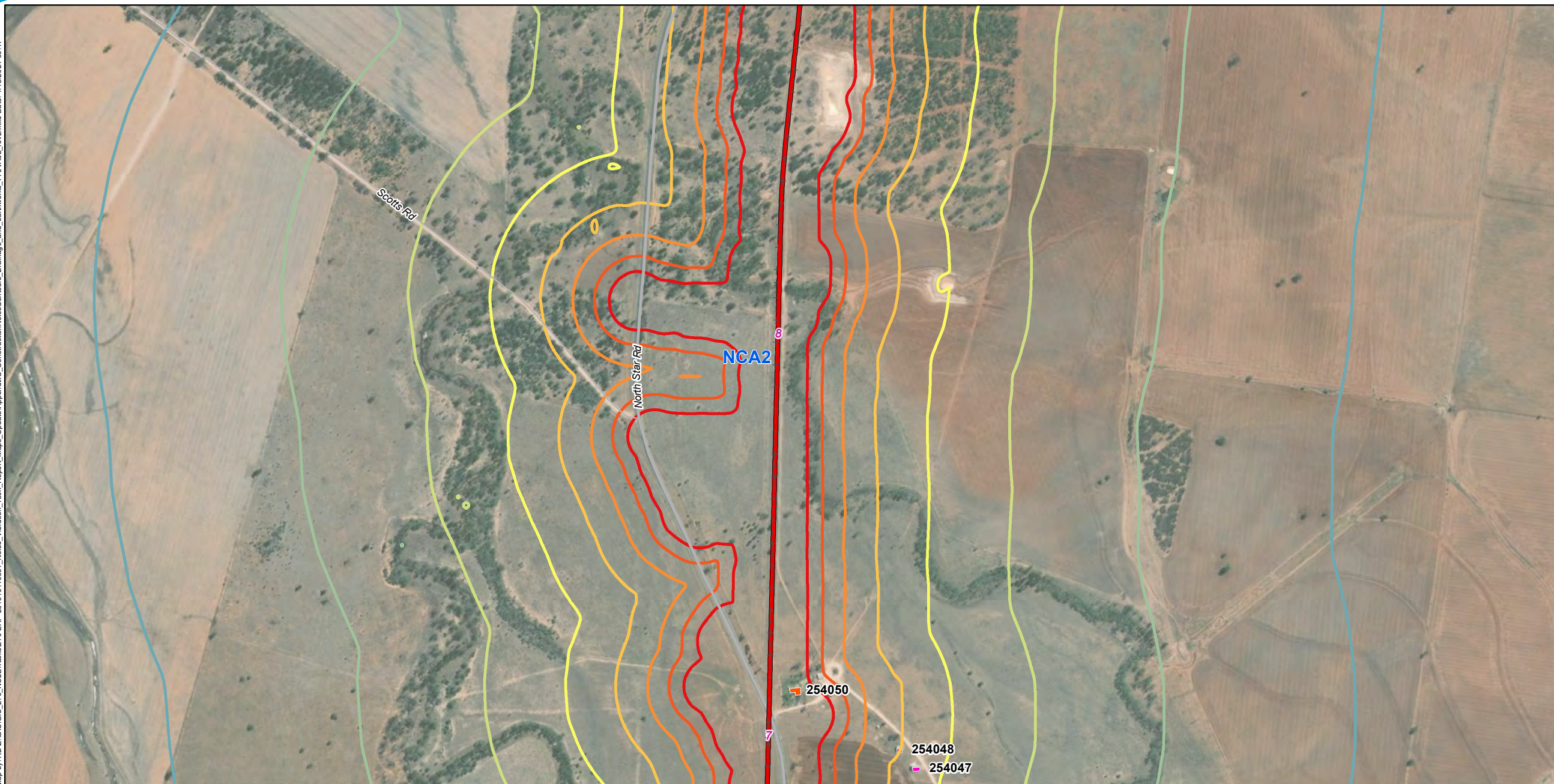


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 5 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FFJVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

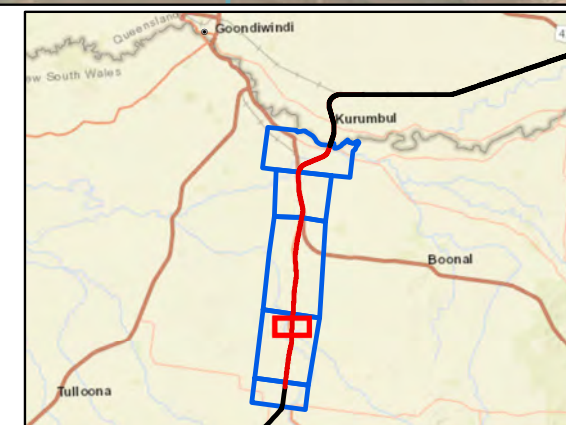
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

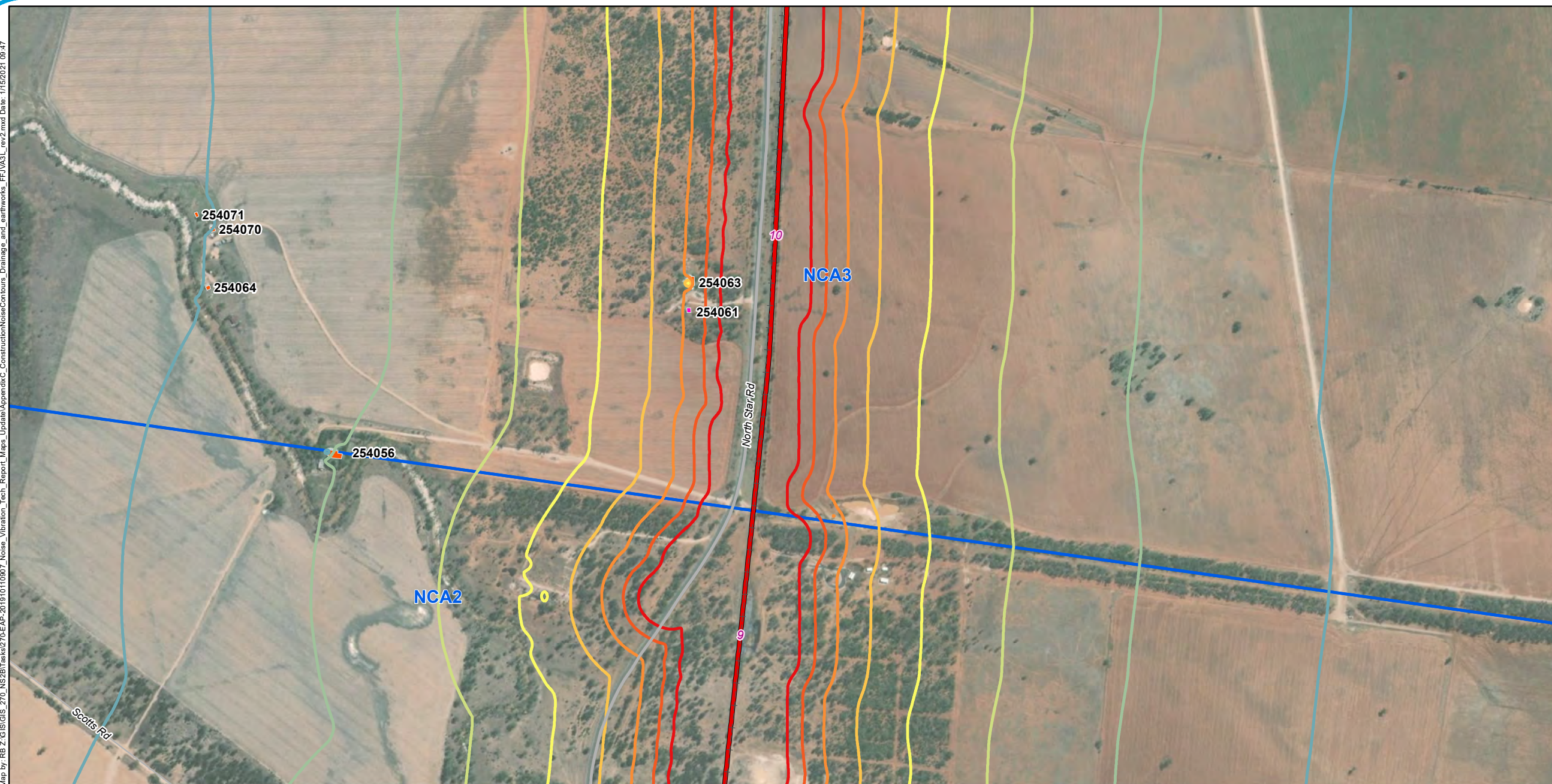


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 6 of 19)



Map by RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

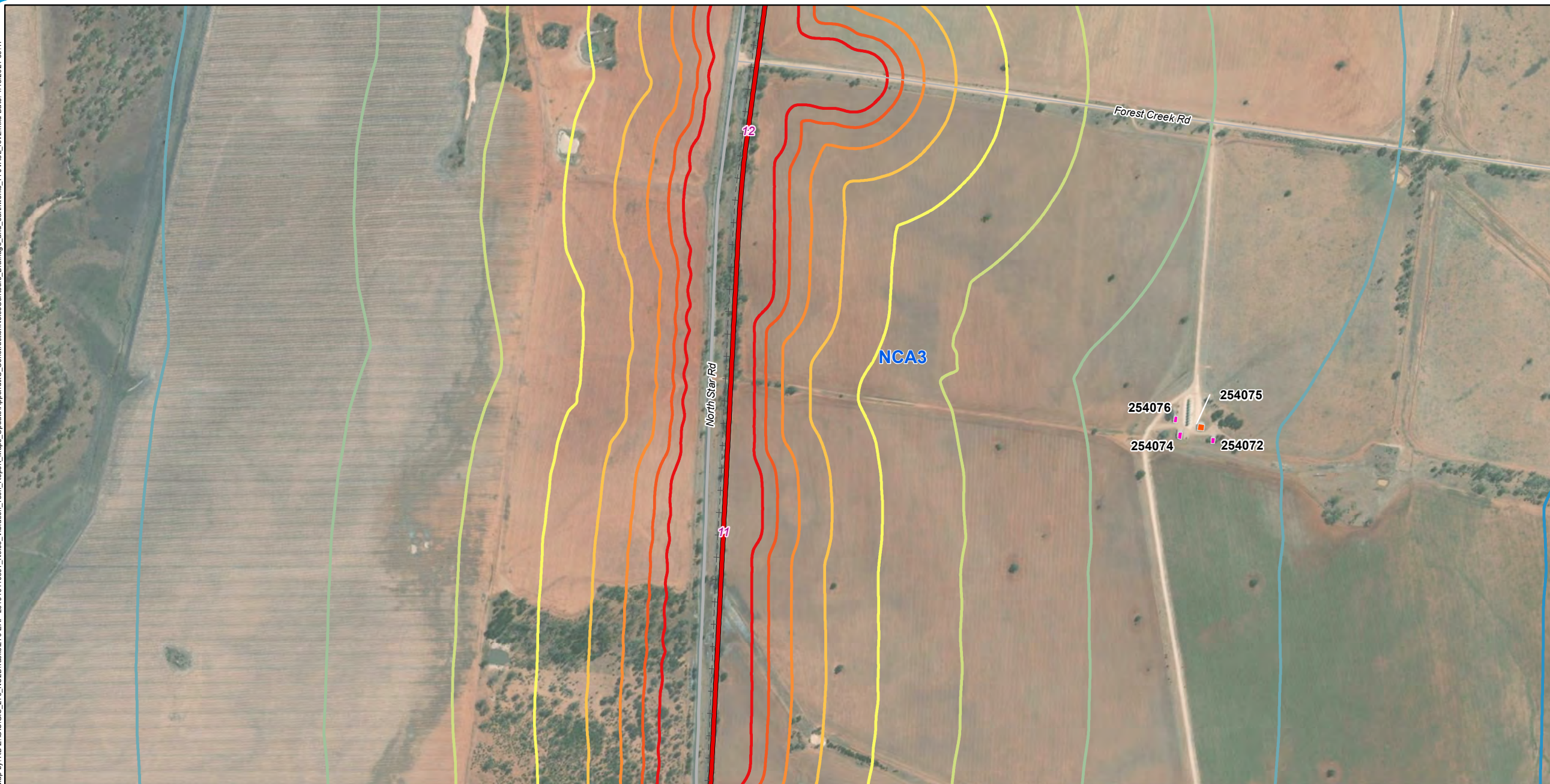


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 7 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FFJVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

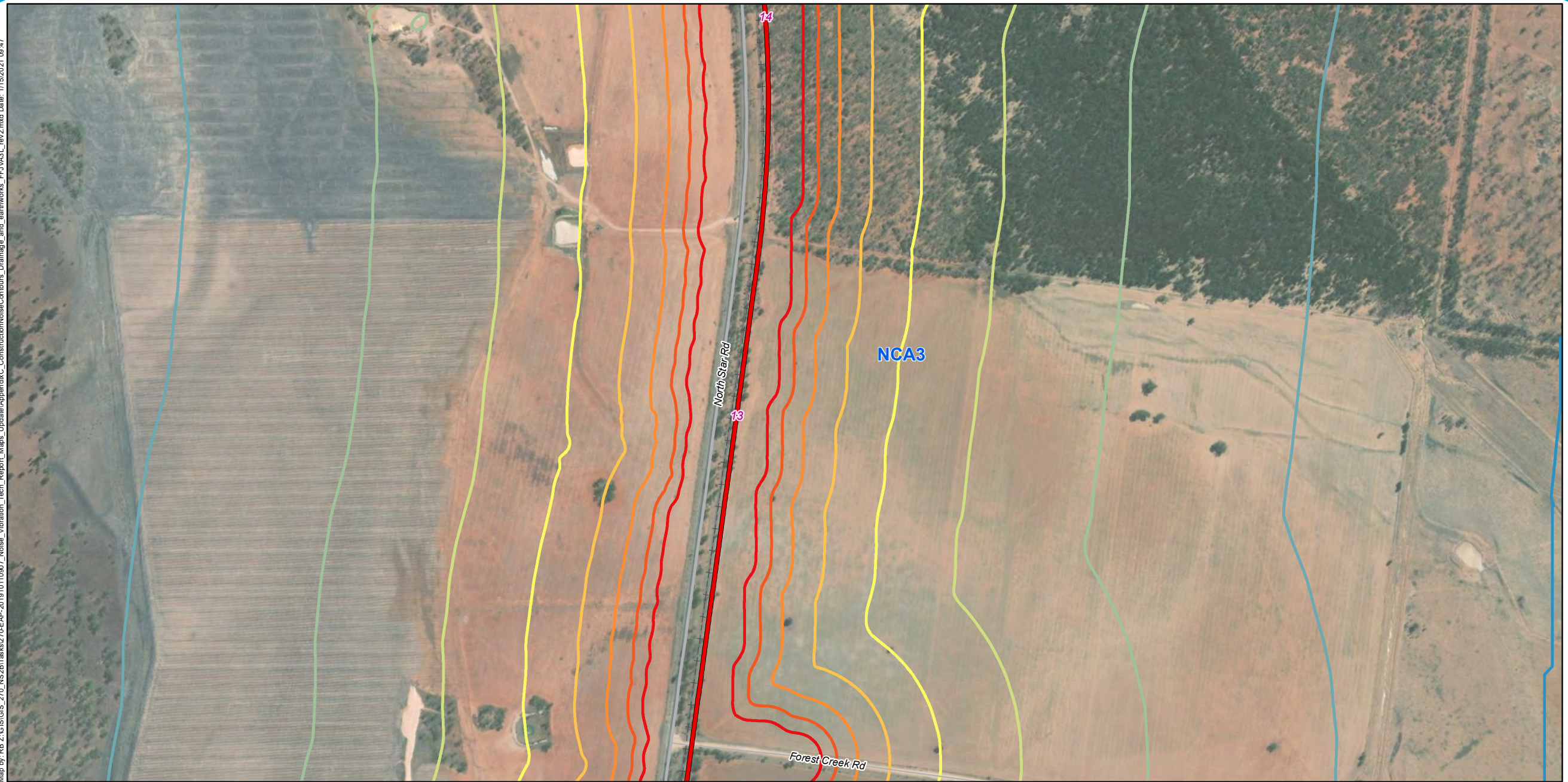


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 8 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

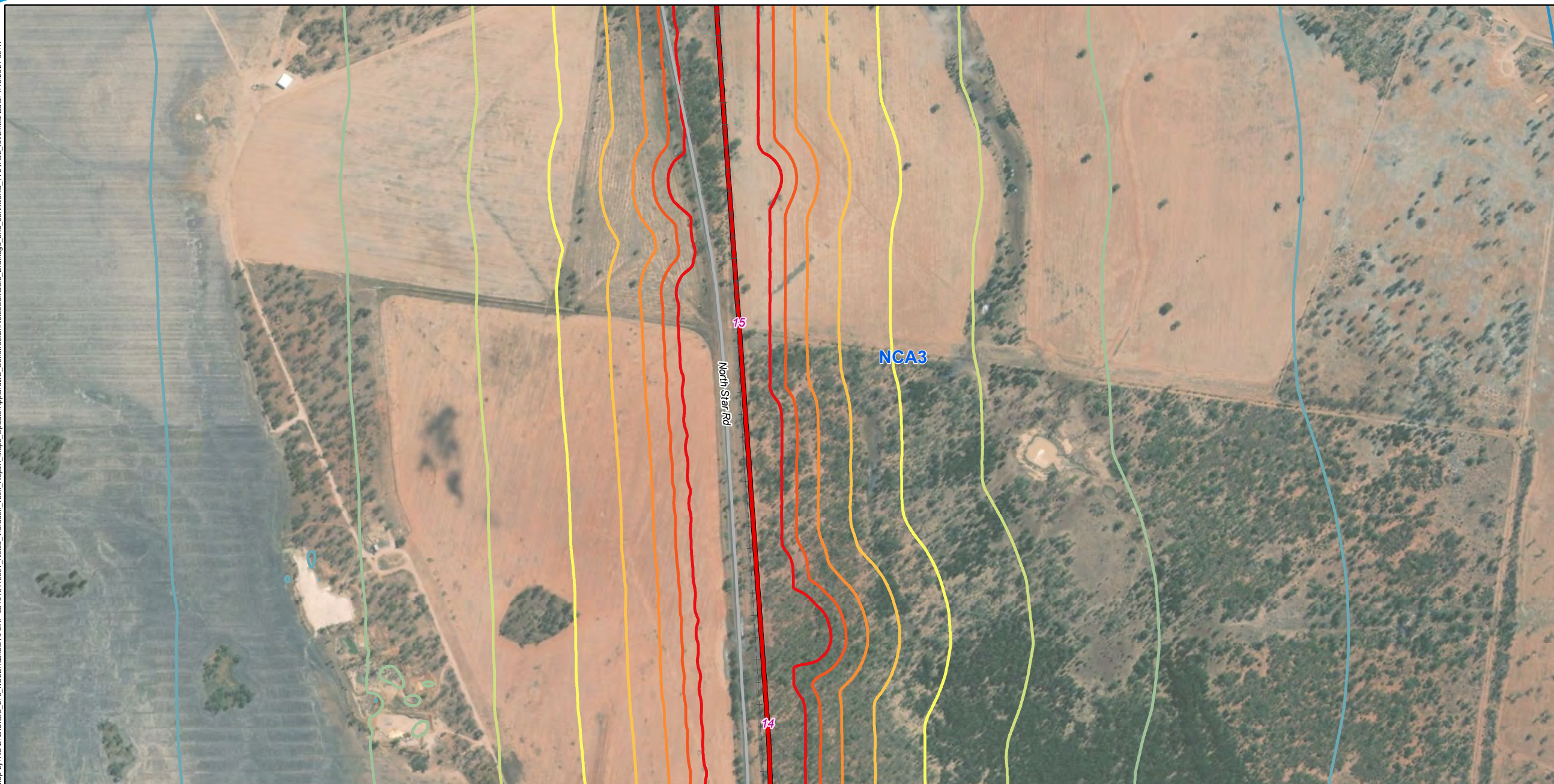


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 9 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

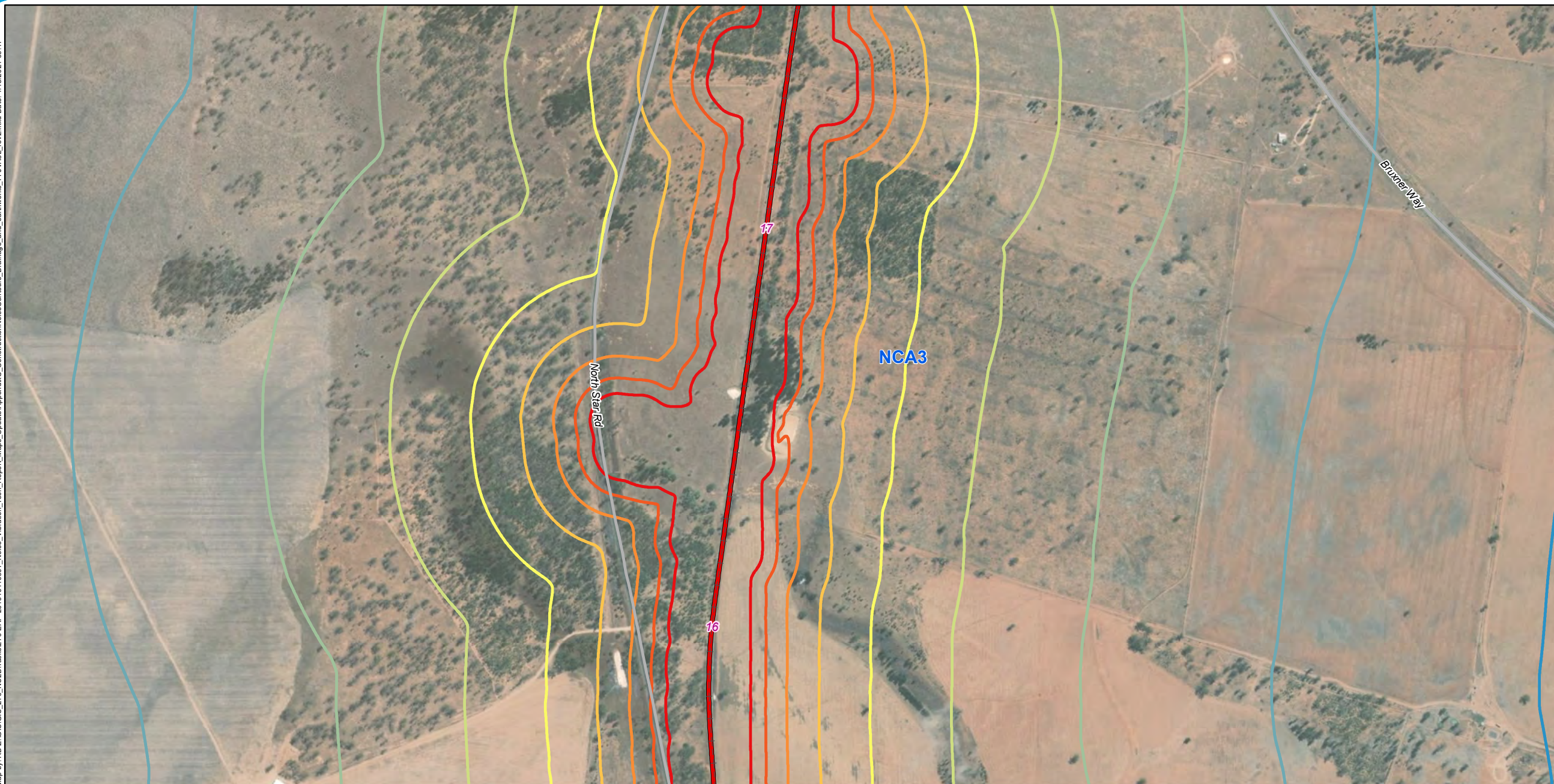


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 10 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\VA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

##### $L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

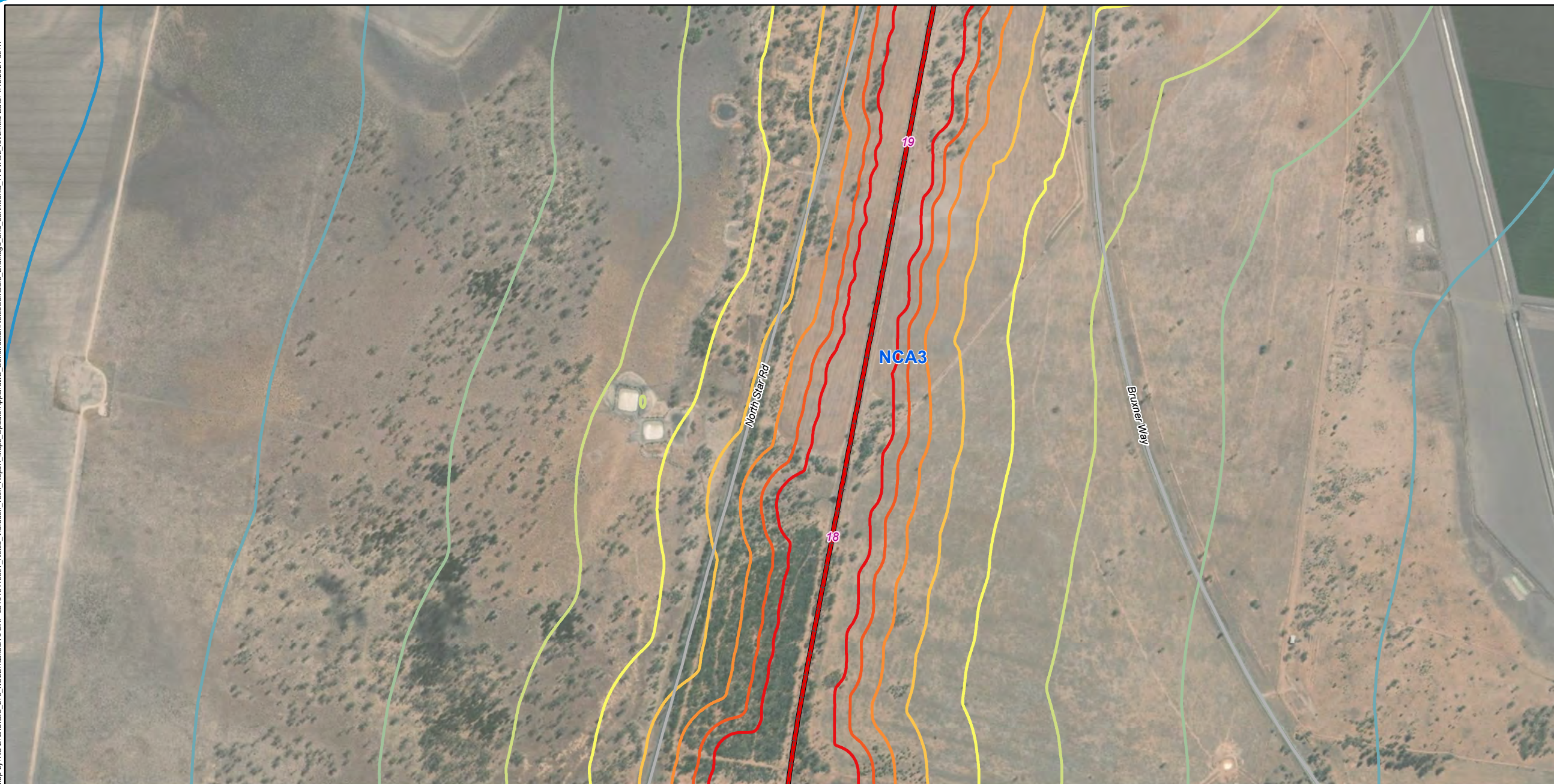


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 11 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

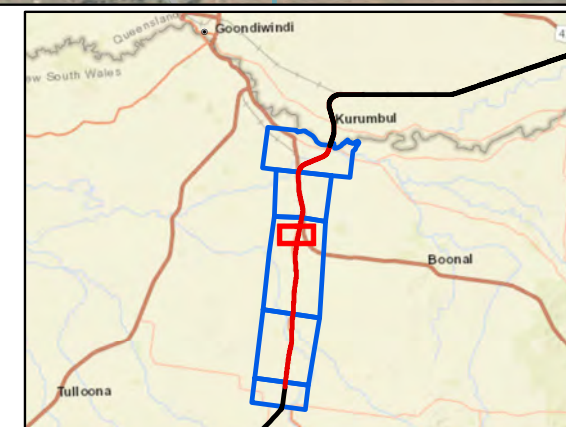
#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

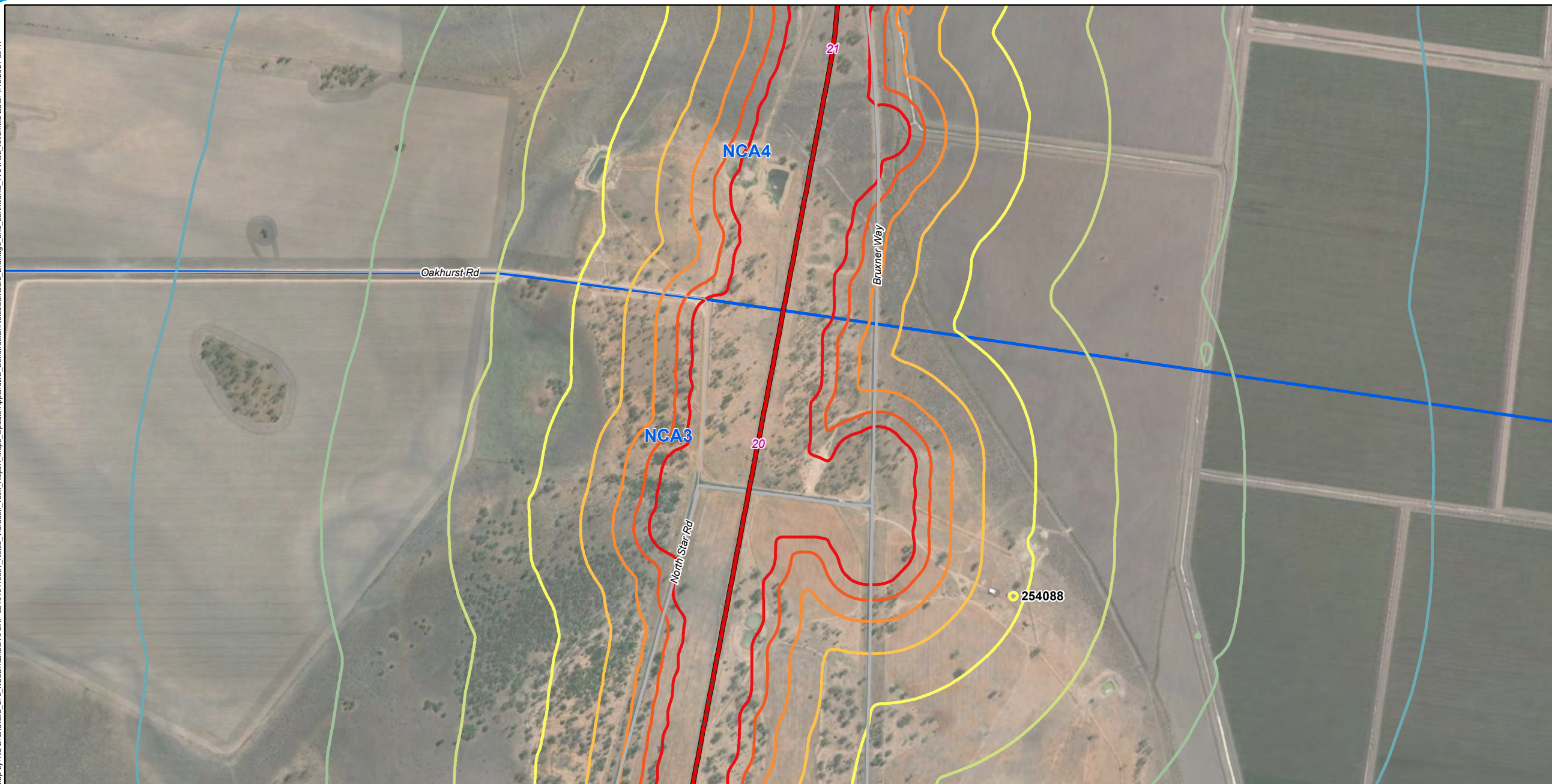


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 12 of 19)



Map by RB 2:GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3\_L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

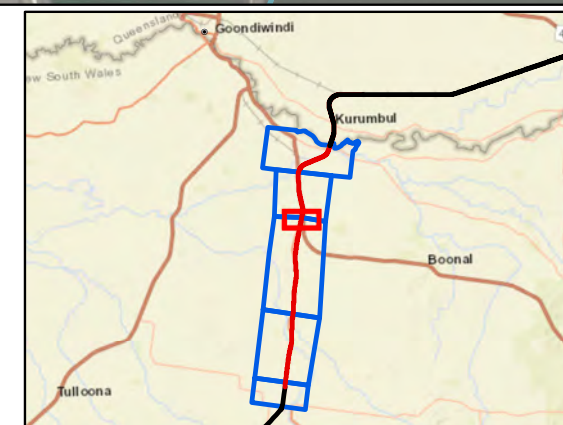
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

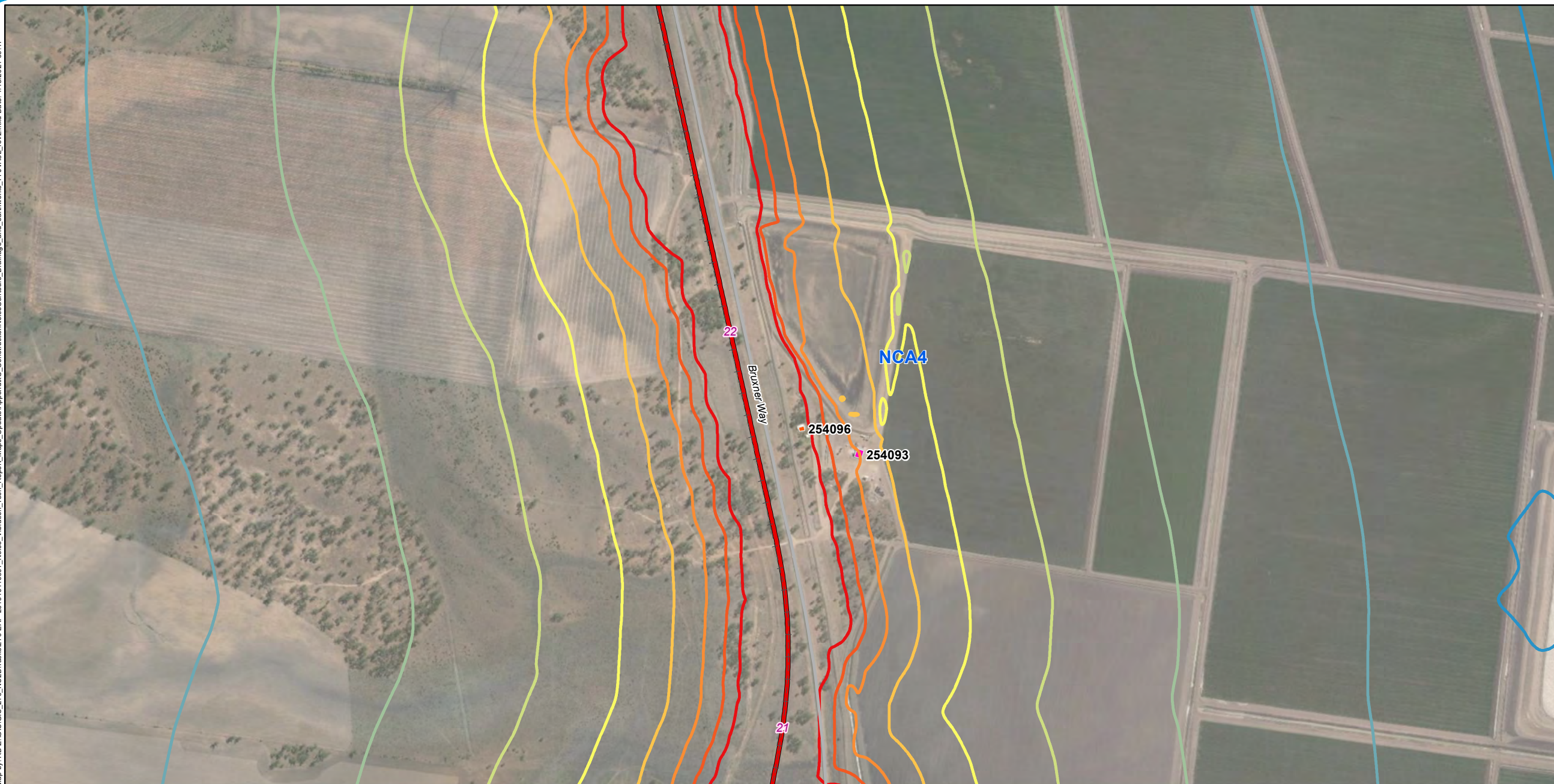


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 13 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\VA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA4

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

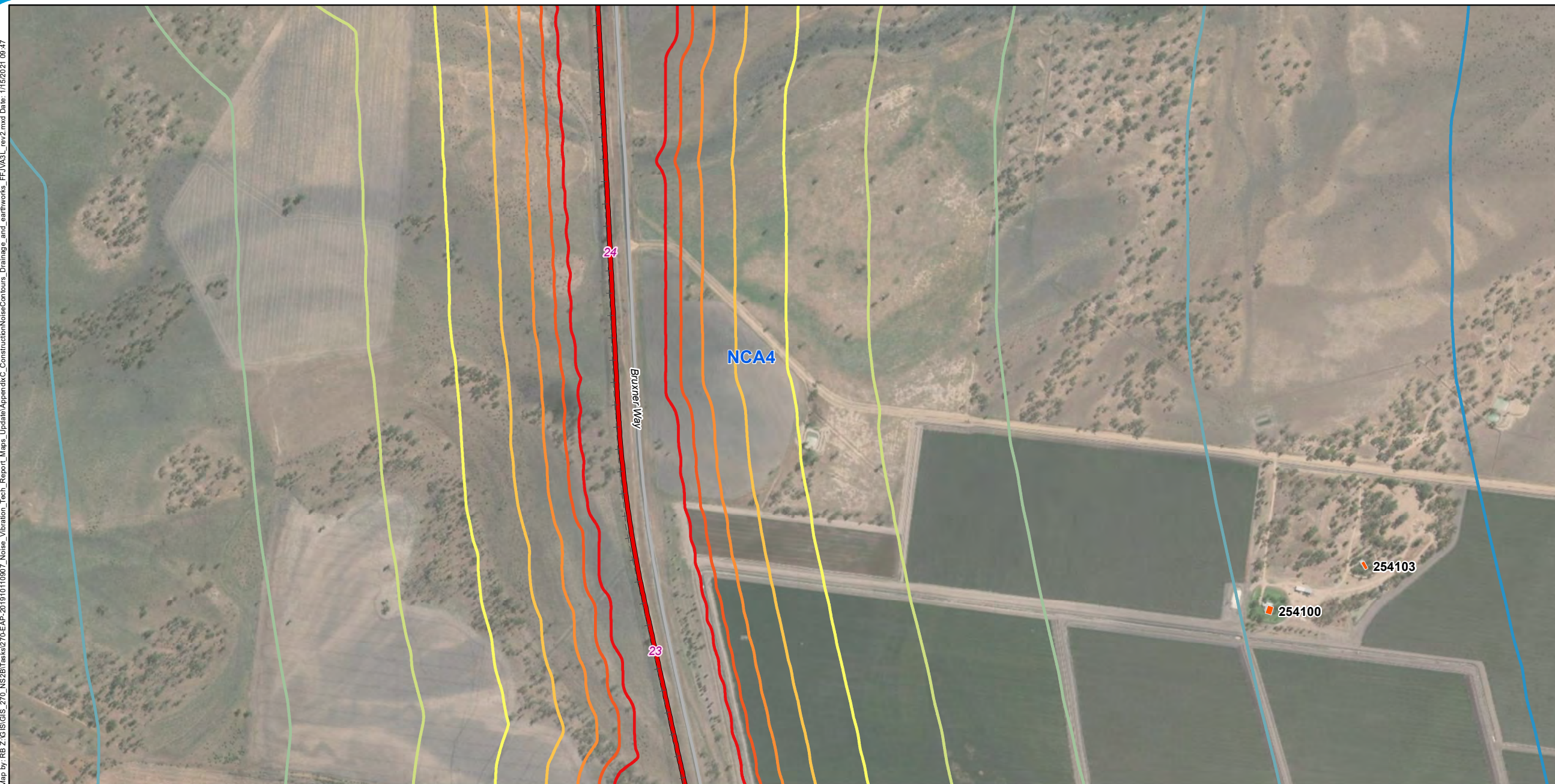


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 14 of 19)



Map by RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 09:47



### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

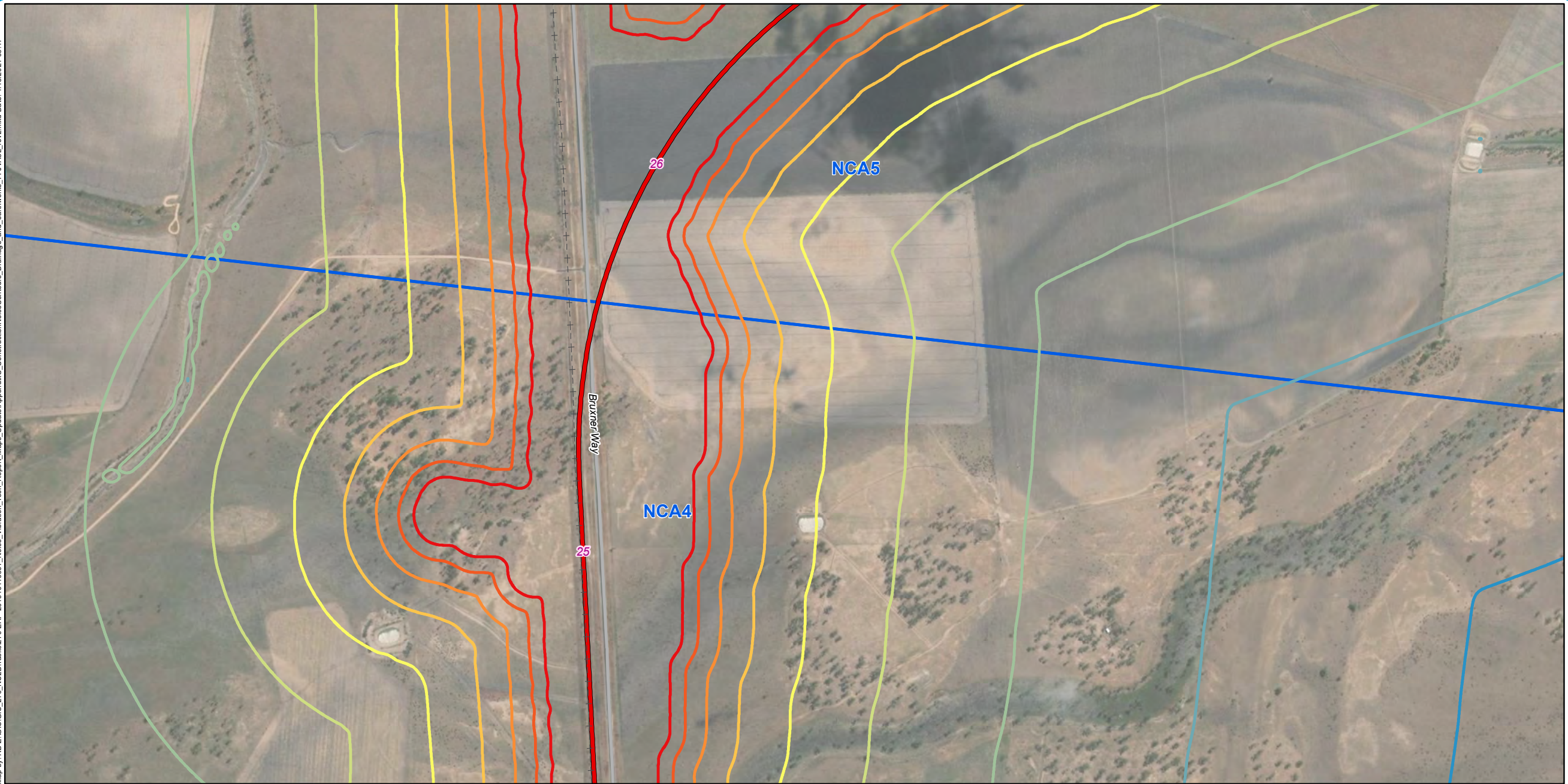


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 15 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\VA31\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

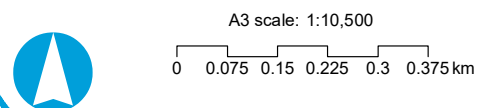
#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

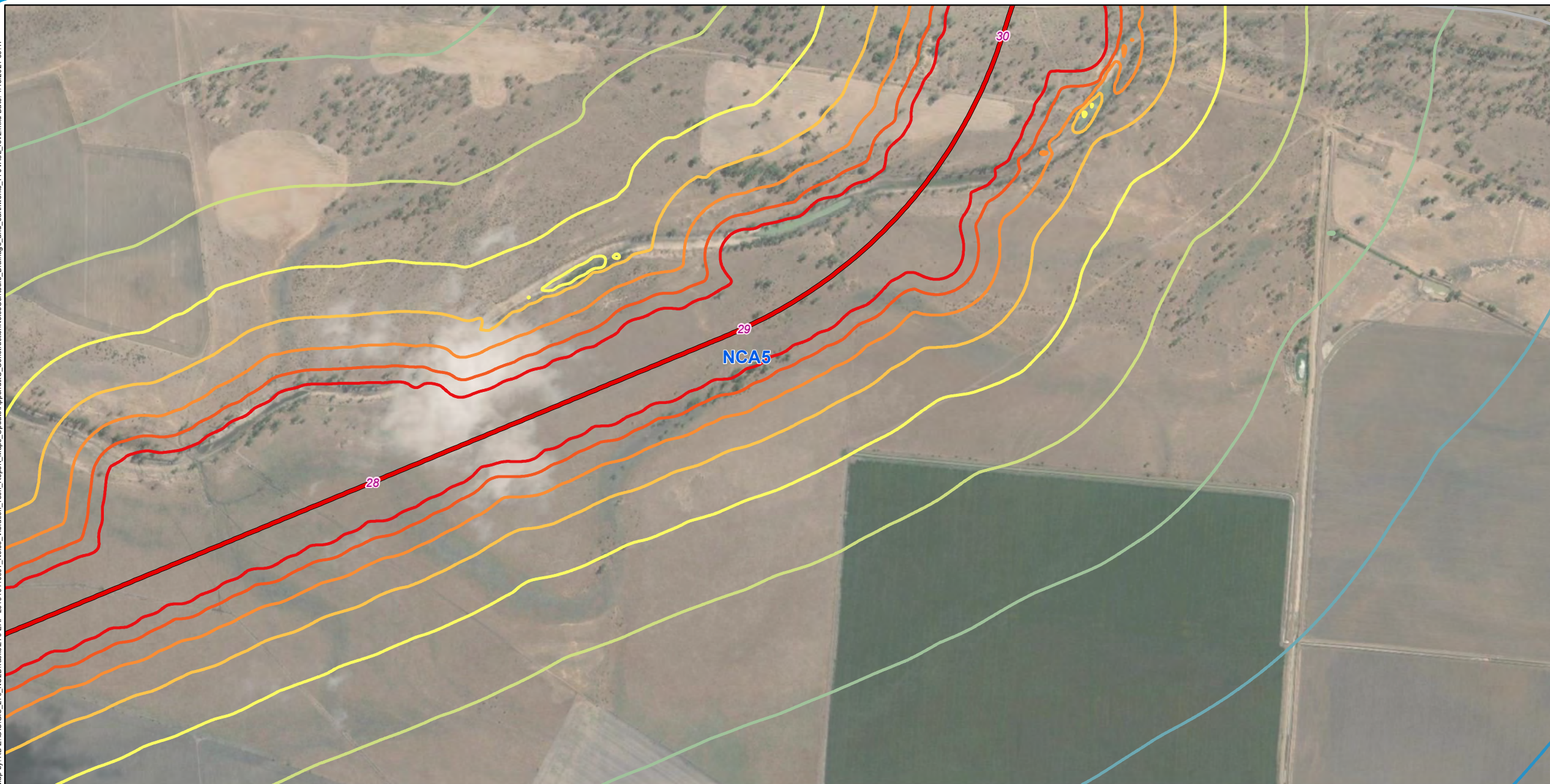


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 16 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/270-EAP-2019/101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF13A3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

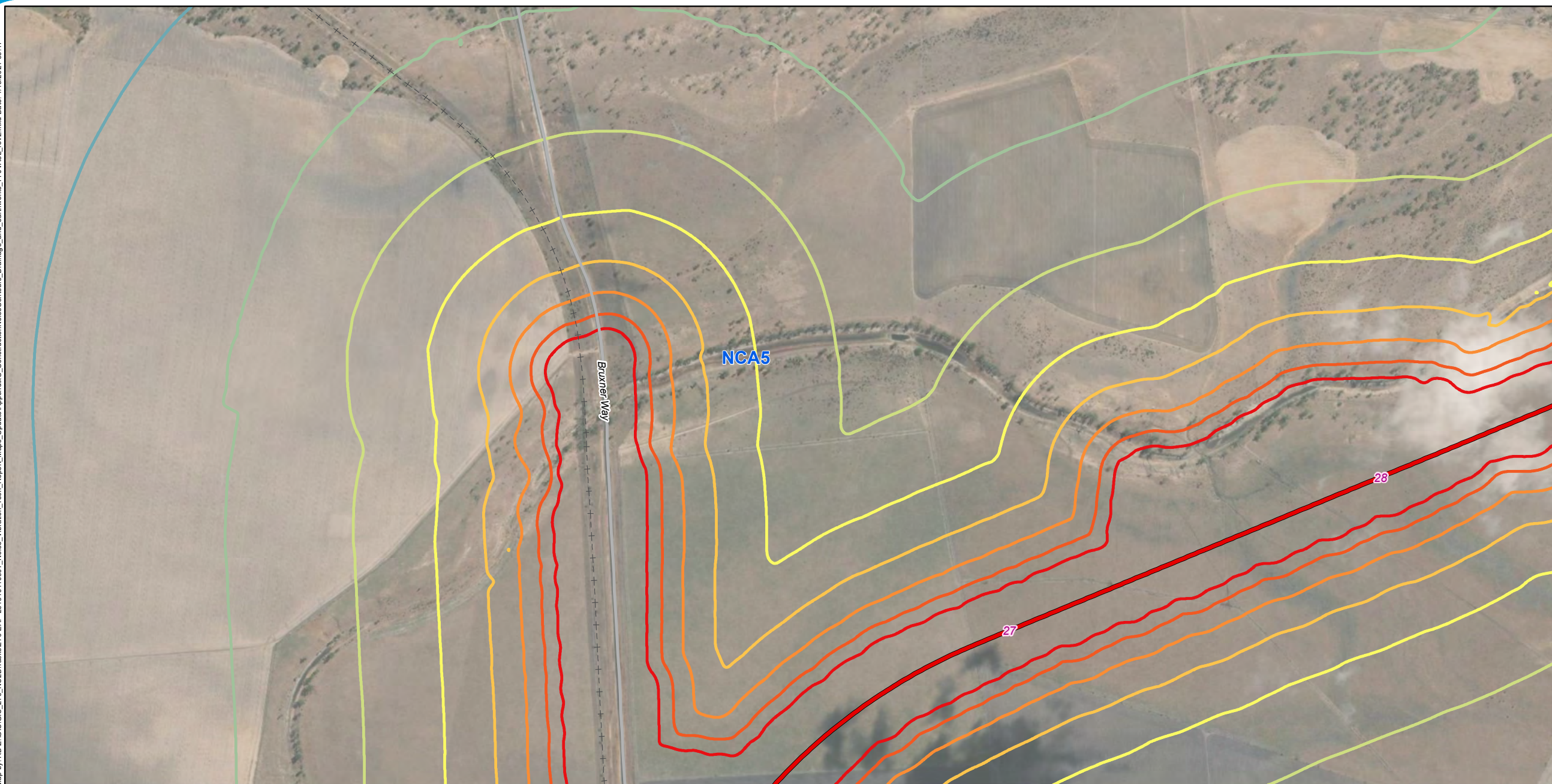


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 17 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

##### $L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

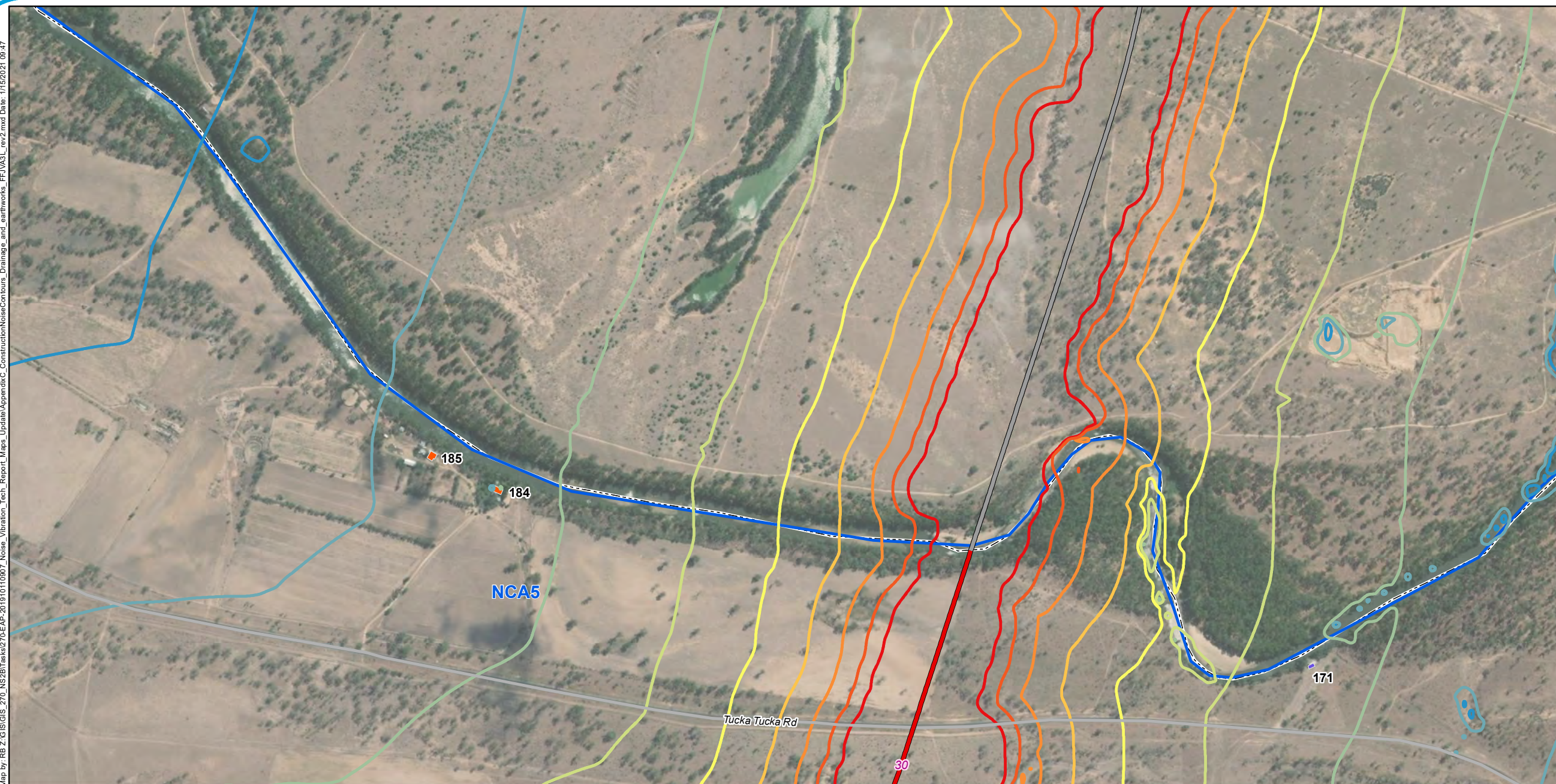


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 18 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Drainage\_and\_earthworks\_FF19A31\_rev2.mxd Date: 1/15/2021 09:47



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- NSW/QLD border

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

- Industrial
- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

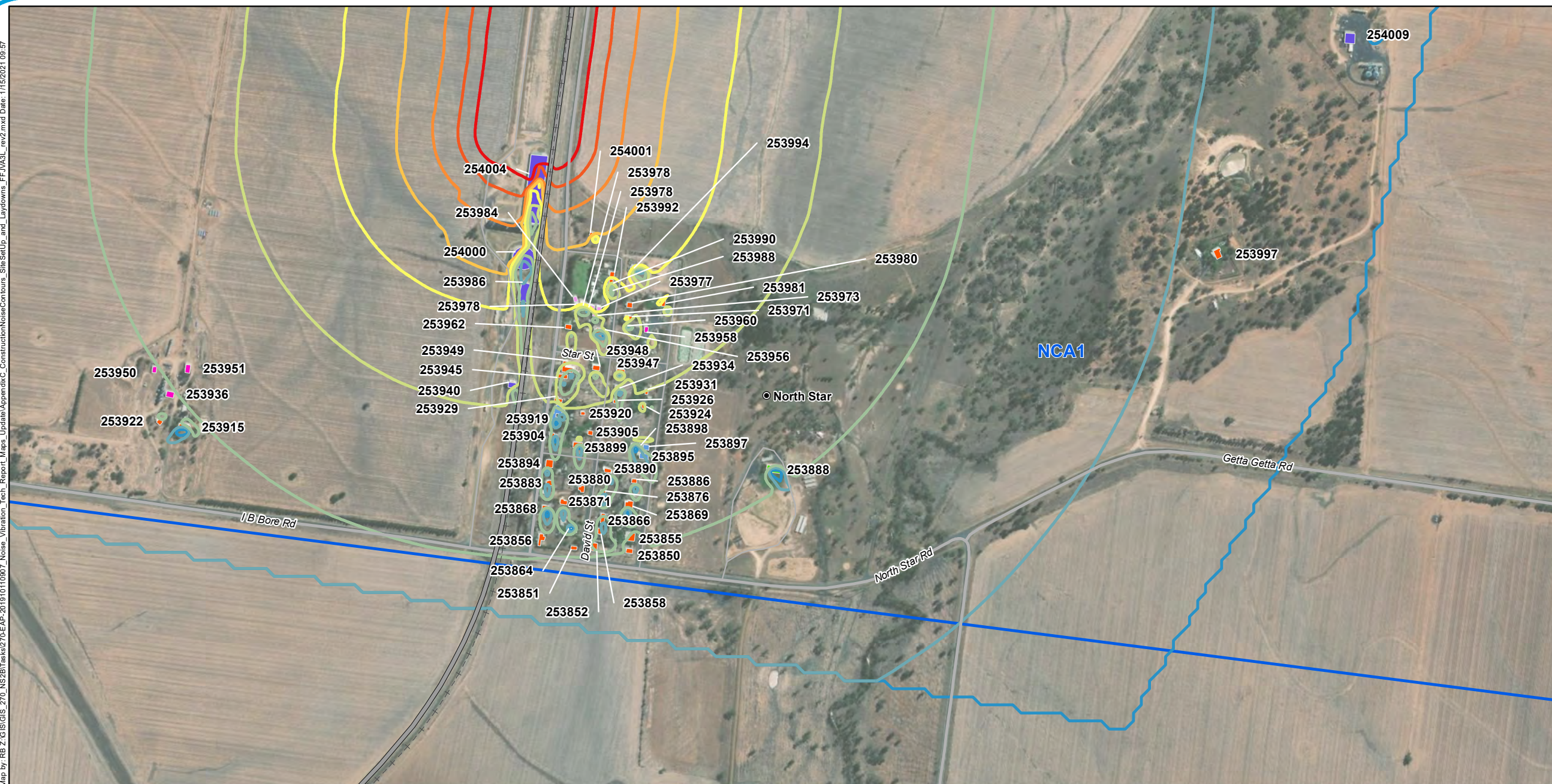


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Drainage works and earthworks (Map 19 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV3\1\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail (non-operational)
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA1

#### Sensitive receivers

- Active Recreation
- Commercial
- Industrial
- Residential
- School
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

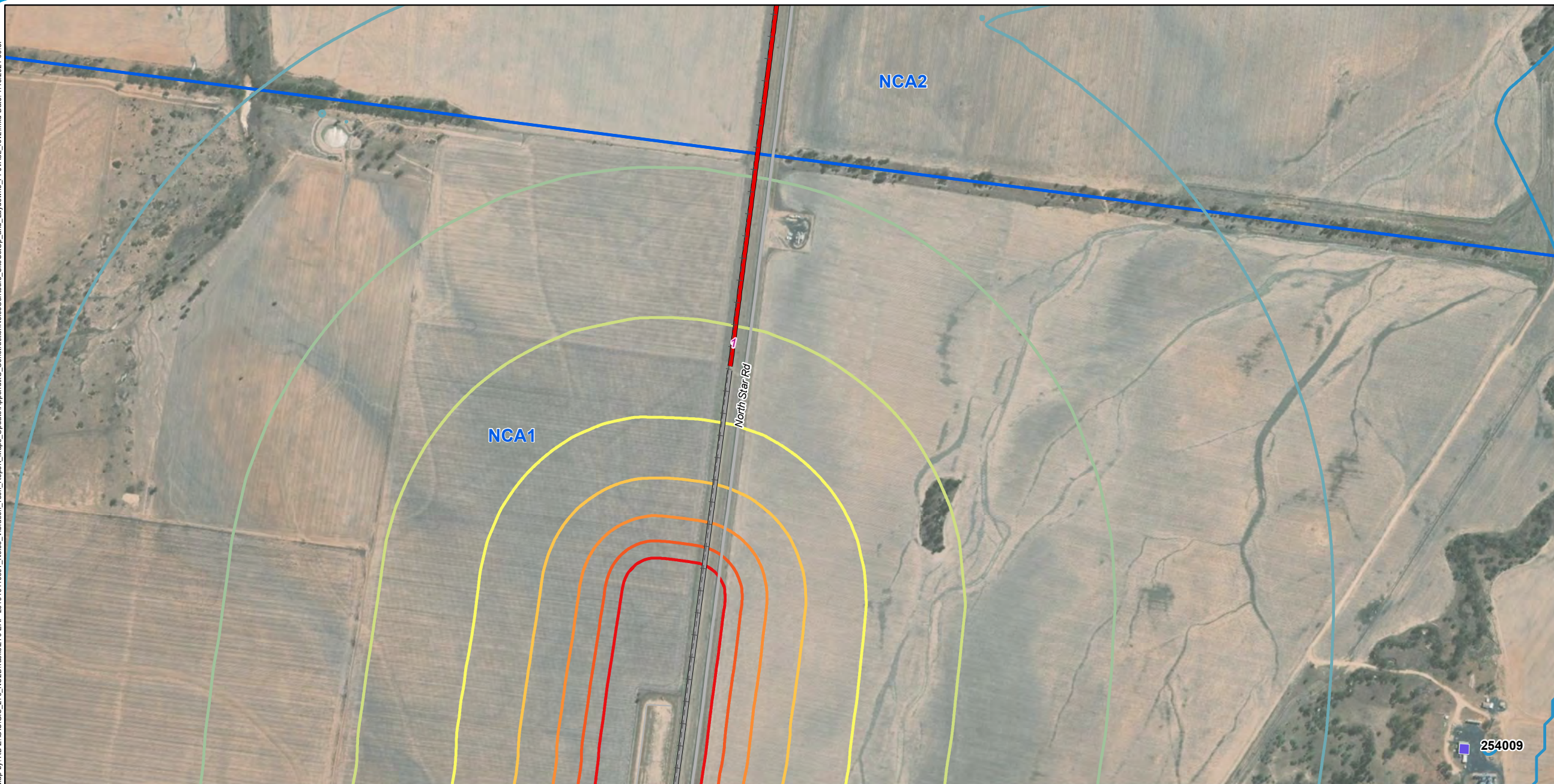


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 1 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

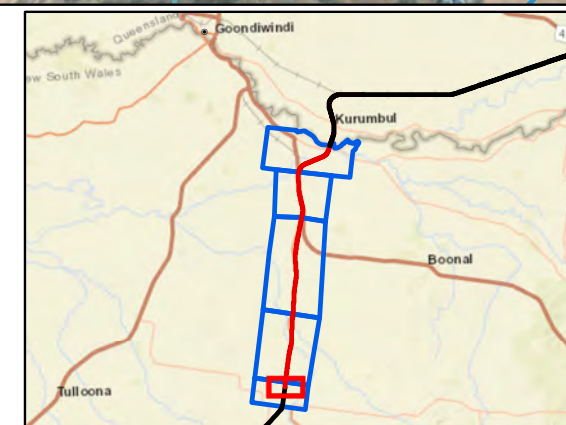
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA1

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

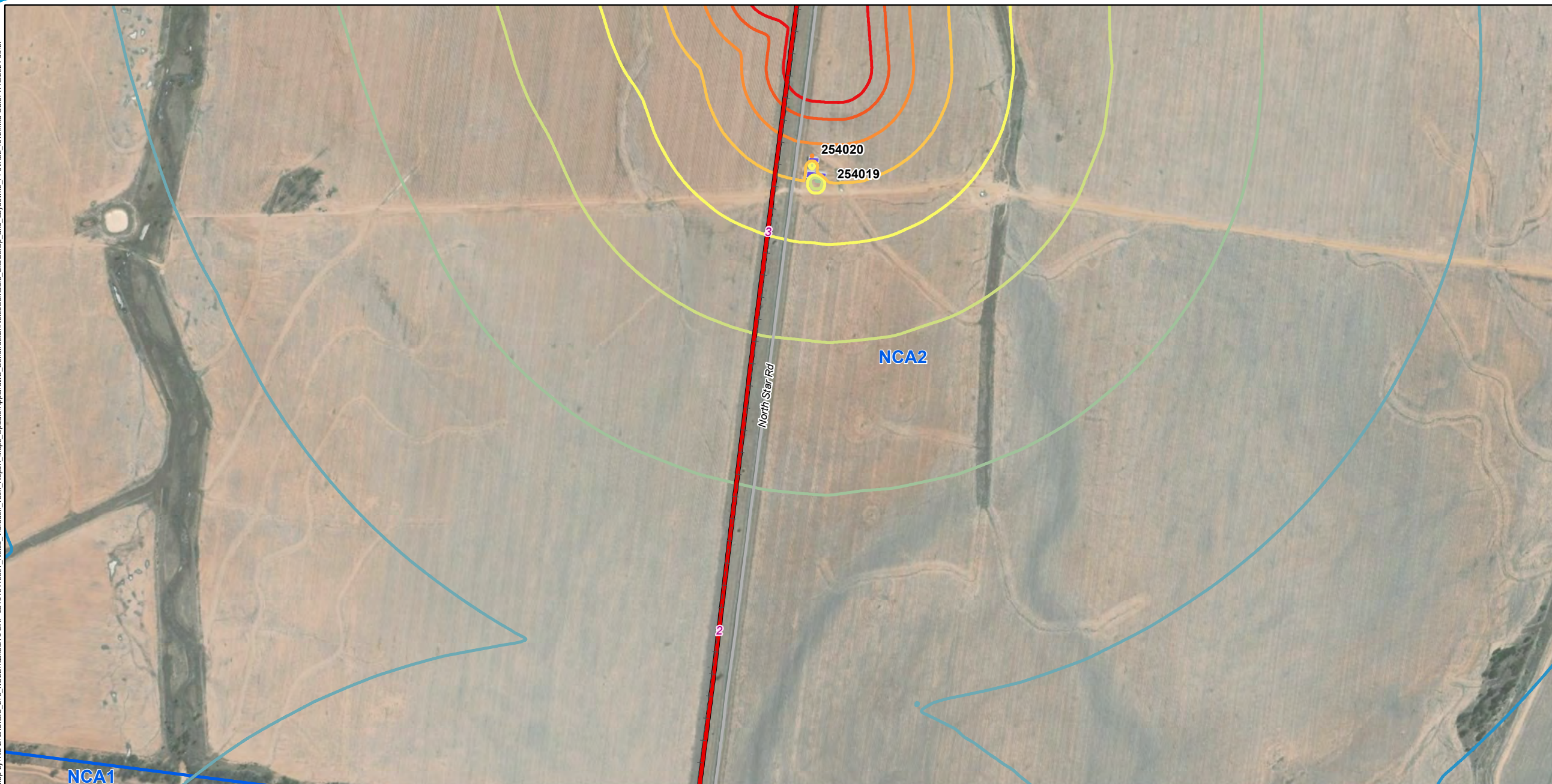


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 2 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

L<sub>Aeq</sub>, dB(A)

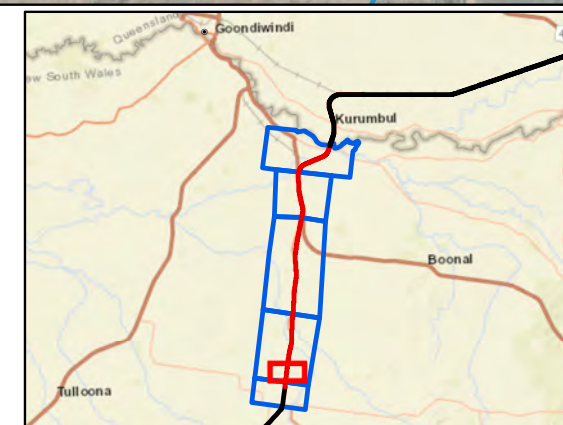
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

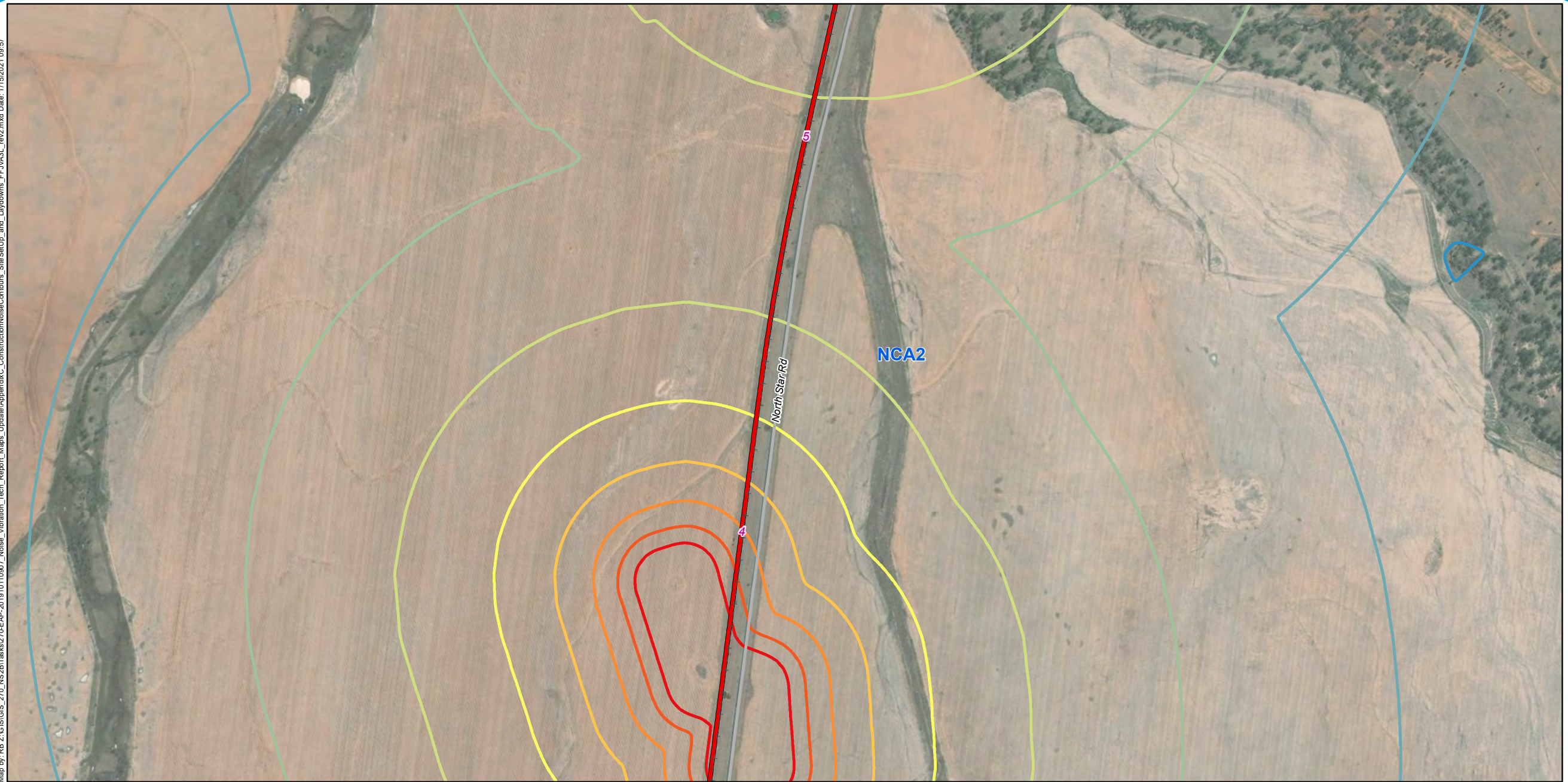


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 3 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

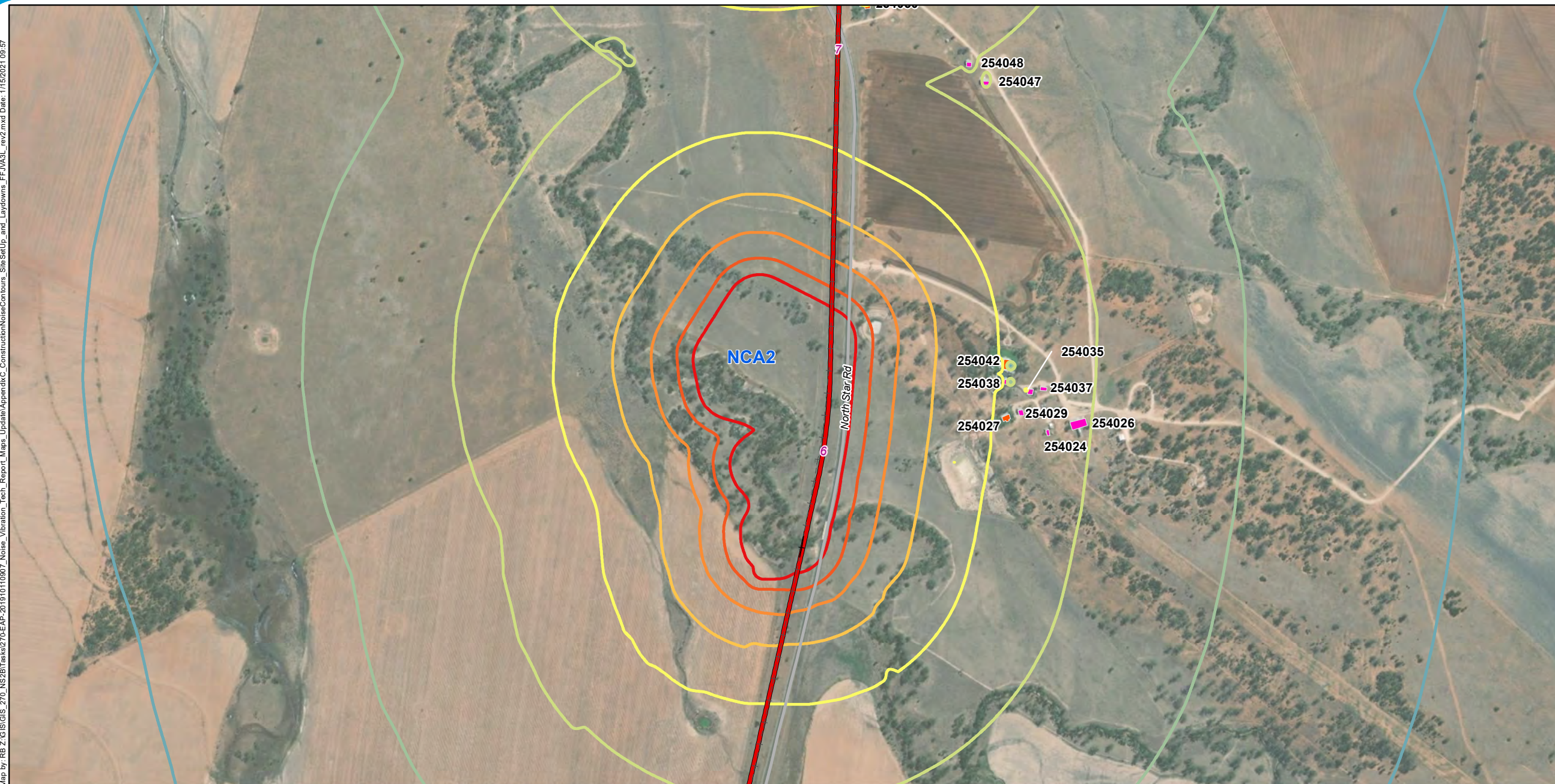


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 4 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- Existing rail (operational)
- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

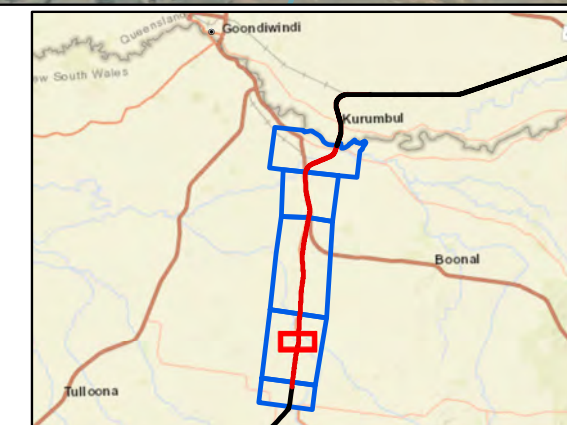
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

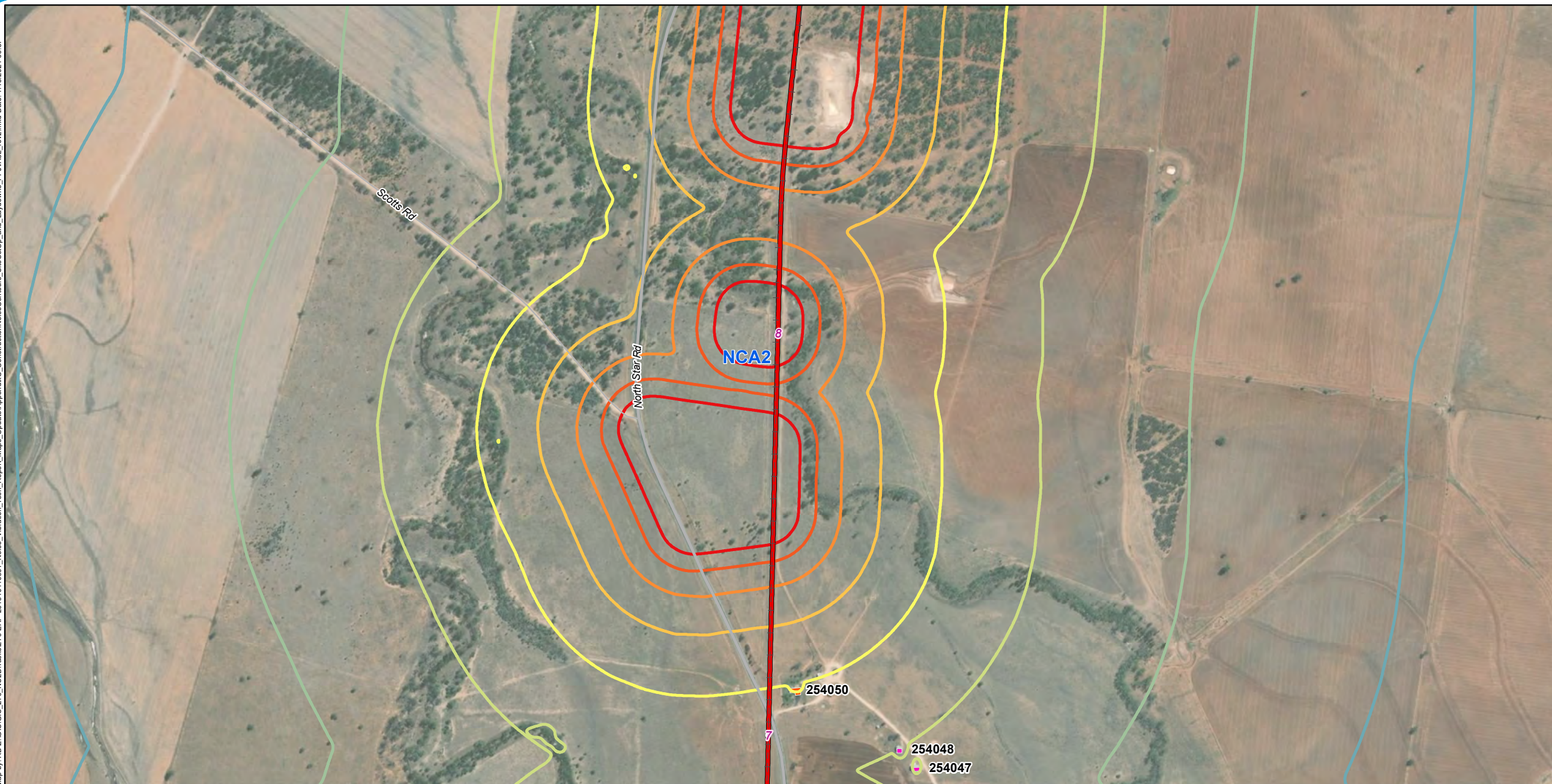


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 5 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\11\0607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV33L\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- +- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 6 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 7 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\GIS\_270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 8 of 19)



Map by: RB 2:GIS\GIS\_270\NS2B\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF\JV31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

##### $L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

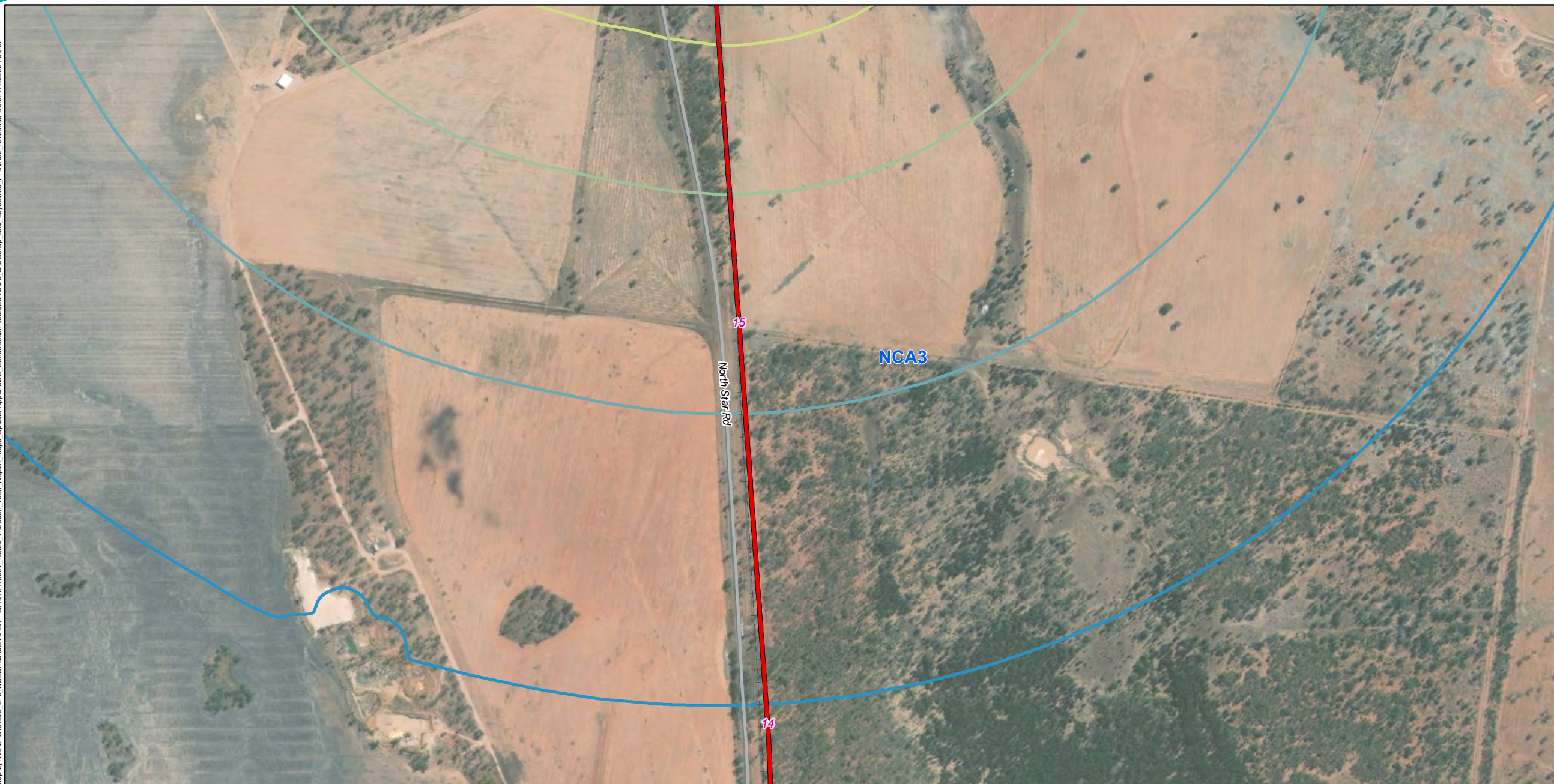


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 9 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV3\1\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

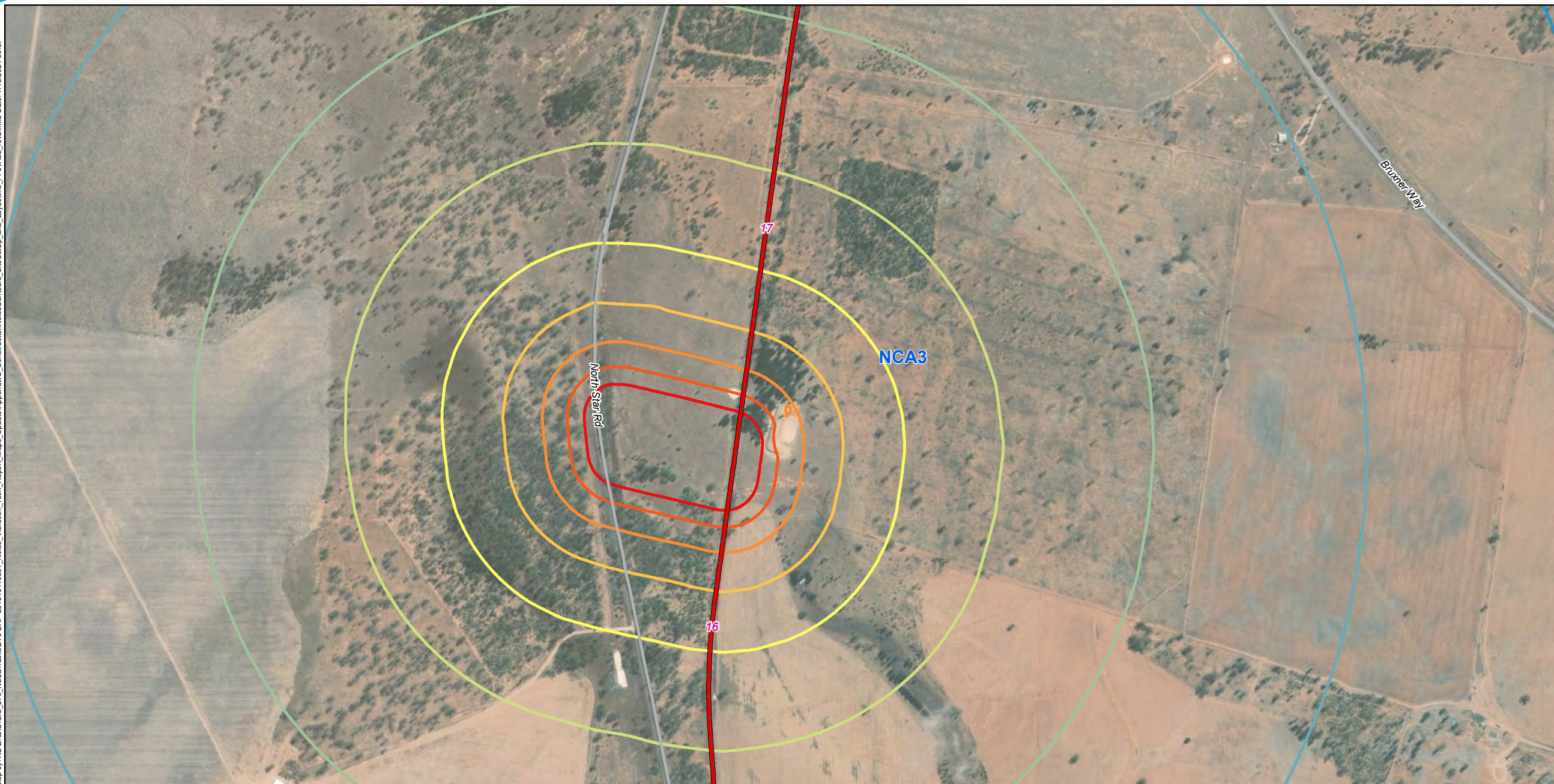


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 10 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

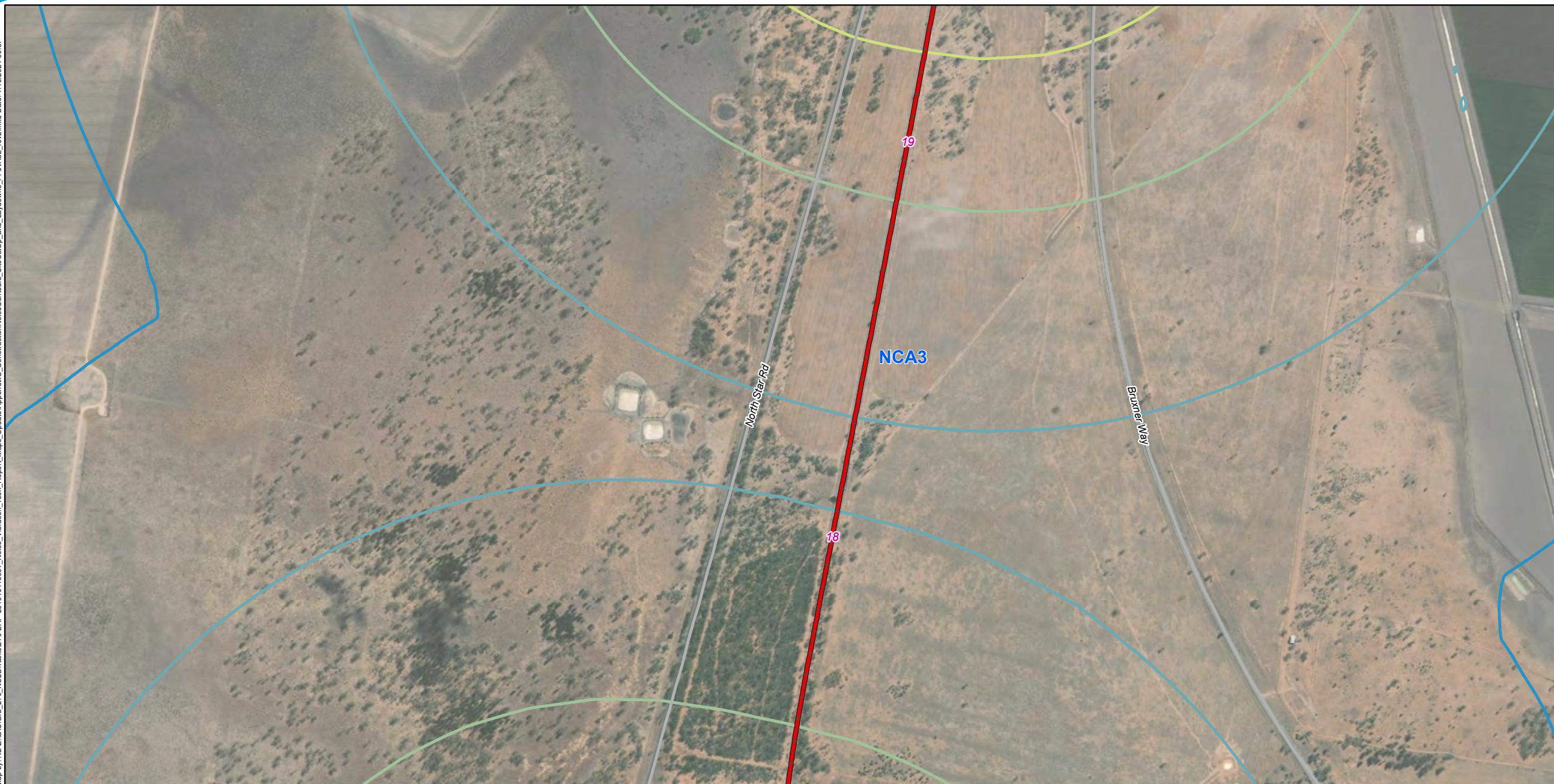


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 11 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

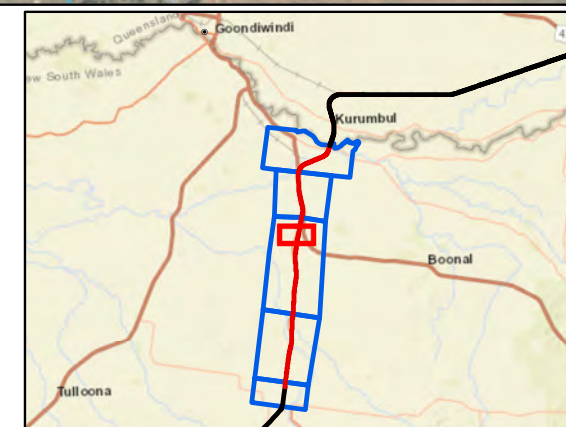
#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

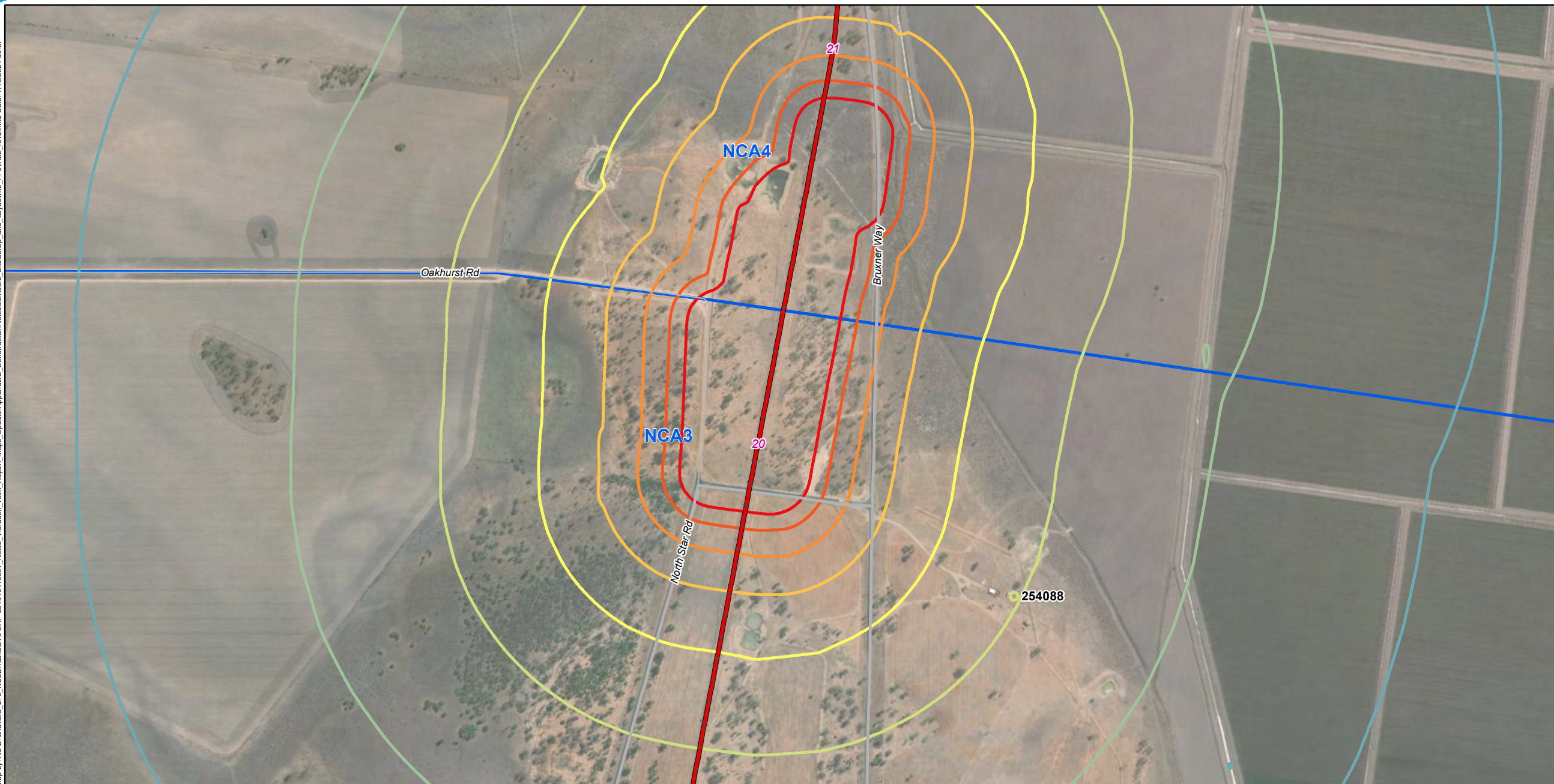


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 12 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

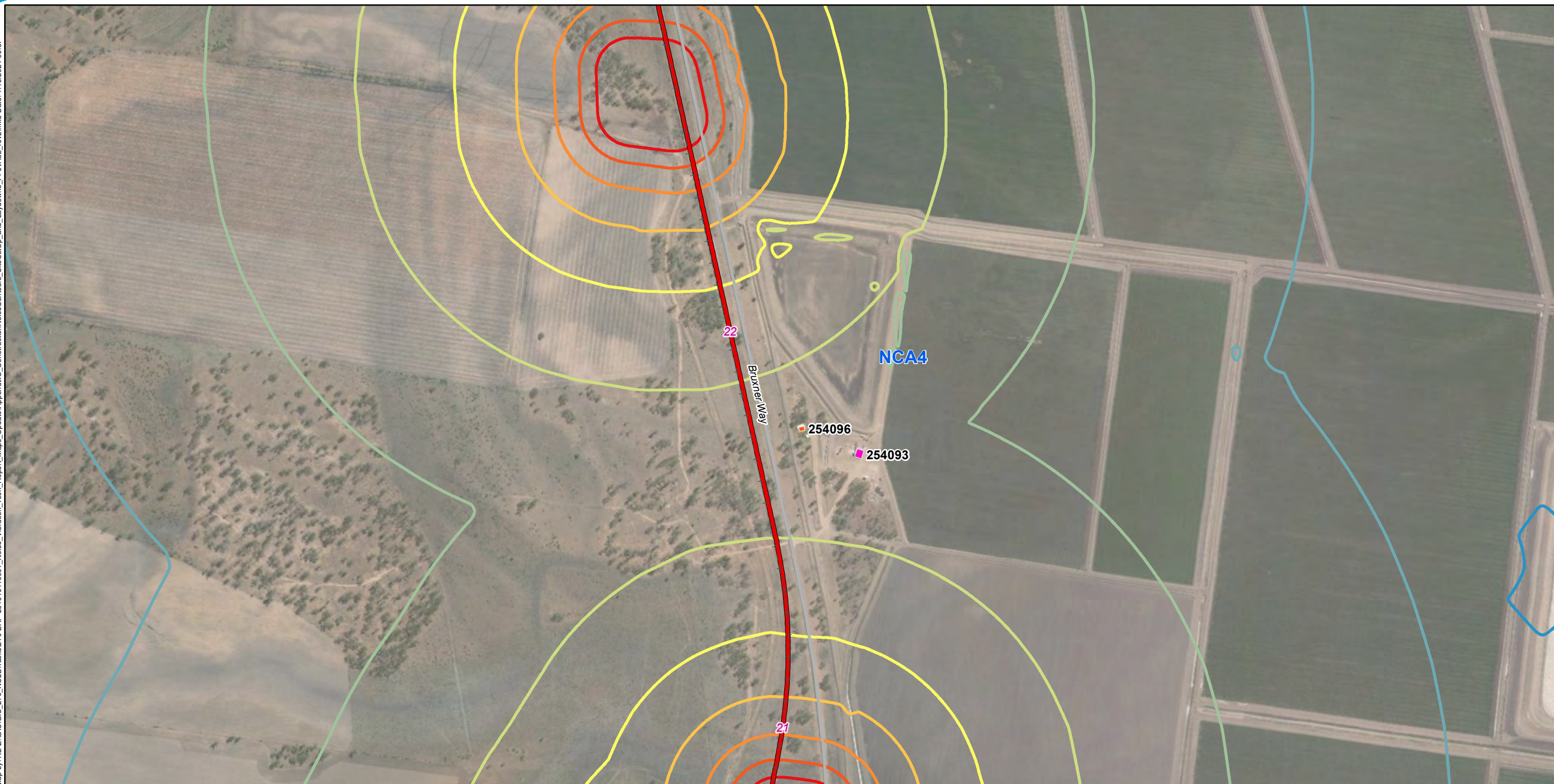


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 13 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF\_V3\3\_Lay2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

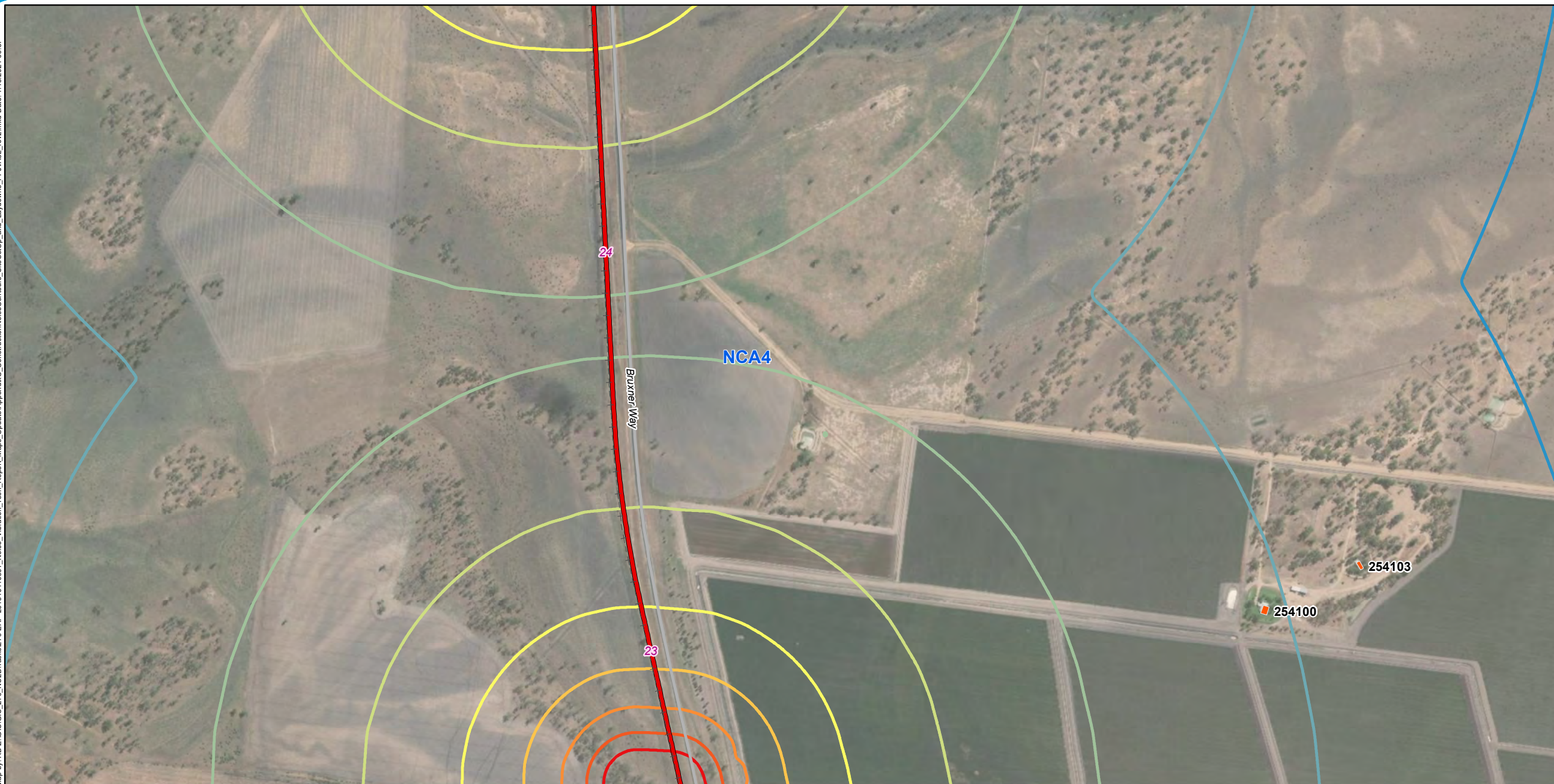


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 14 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

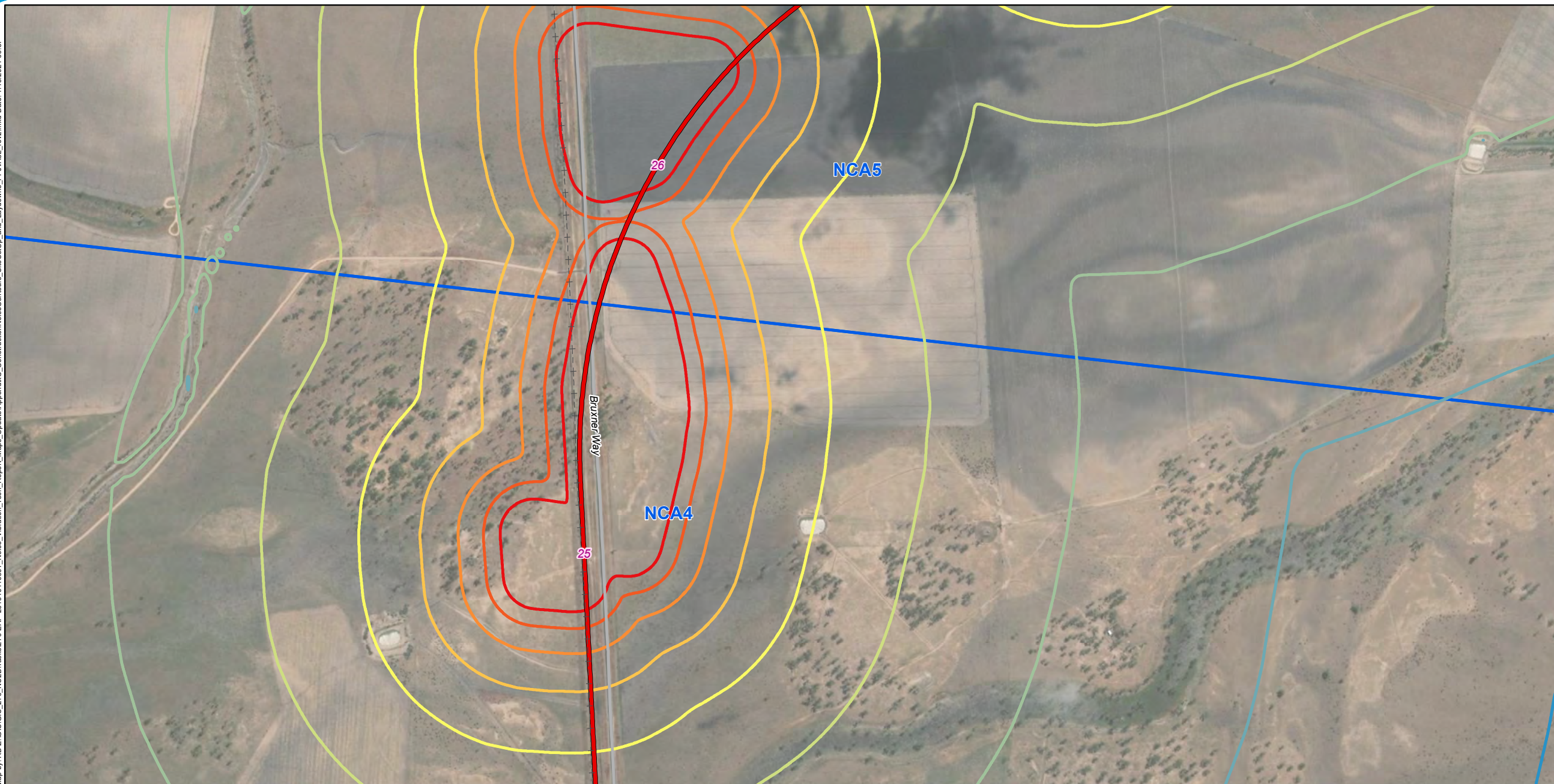


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 15 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

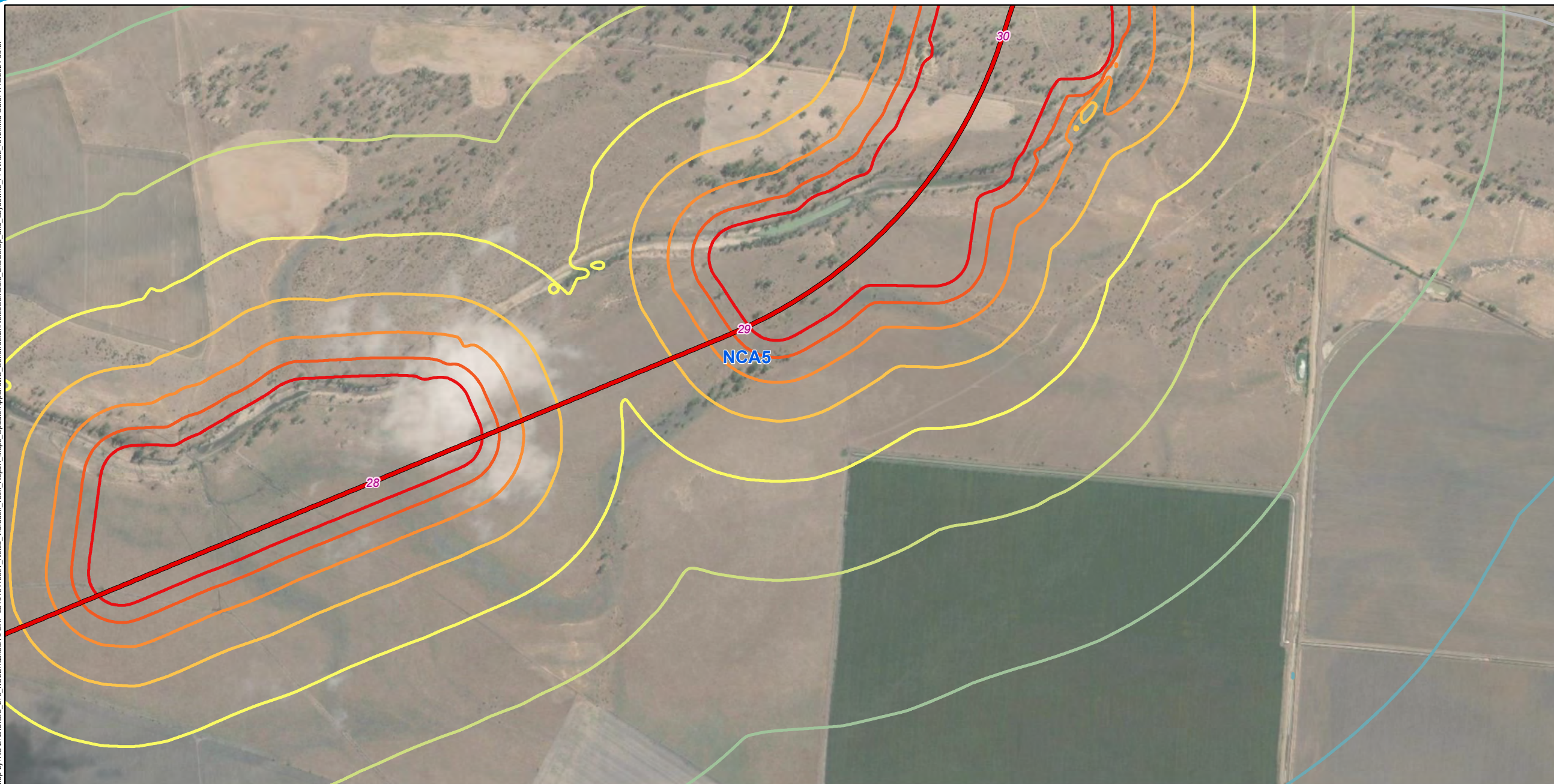


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 16 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV\31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

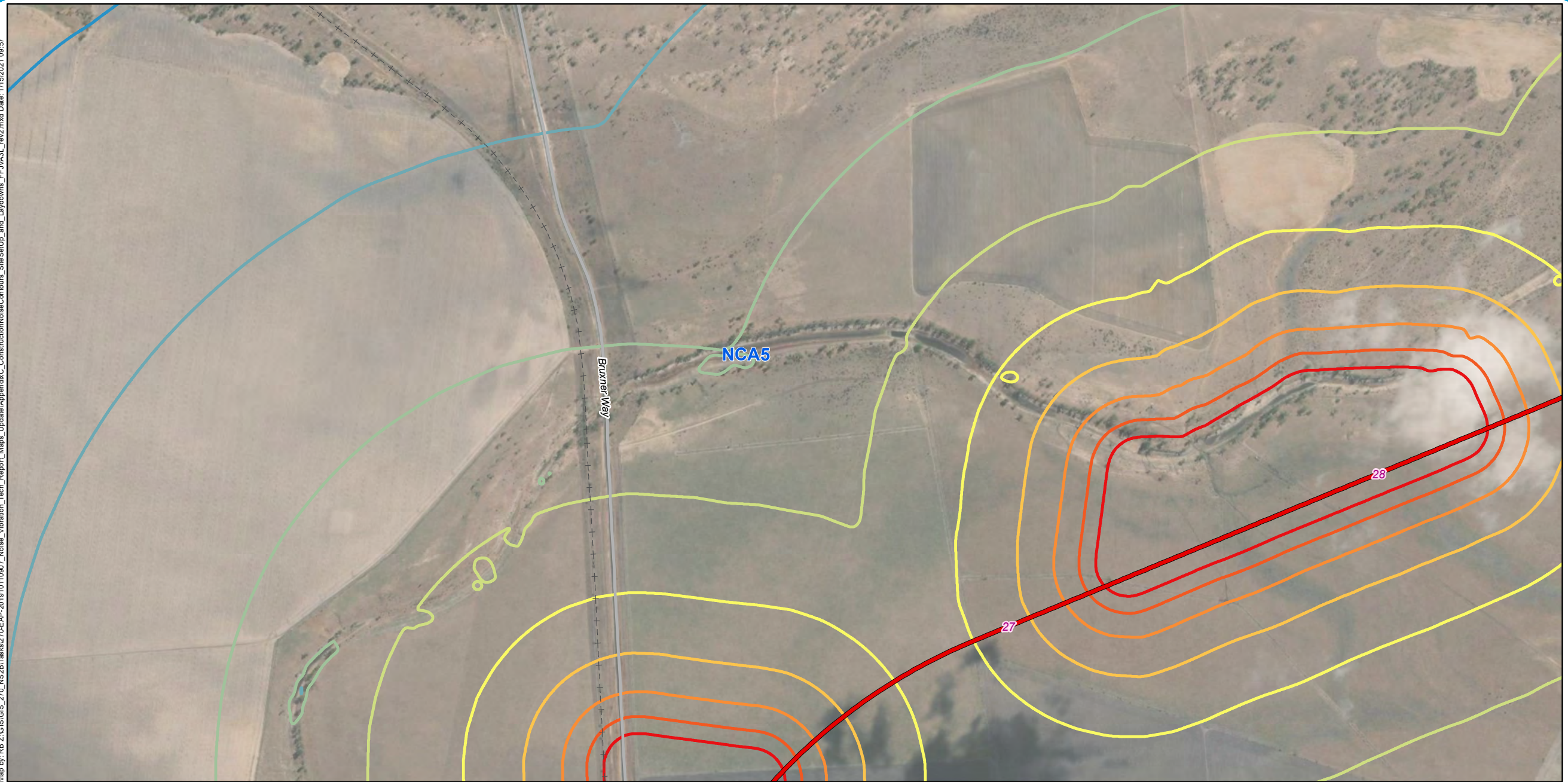


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 17 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV31\_rev2.mxd Date: 1/15/2021 09:57



#### Legend

- 5 Chainage (km)
- +- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

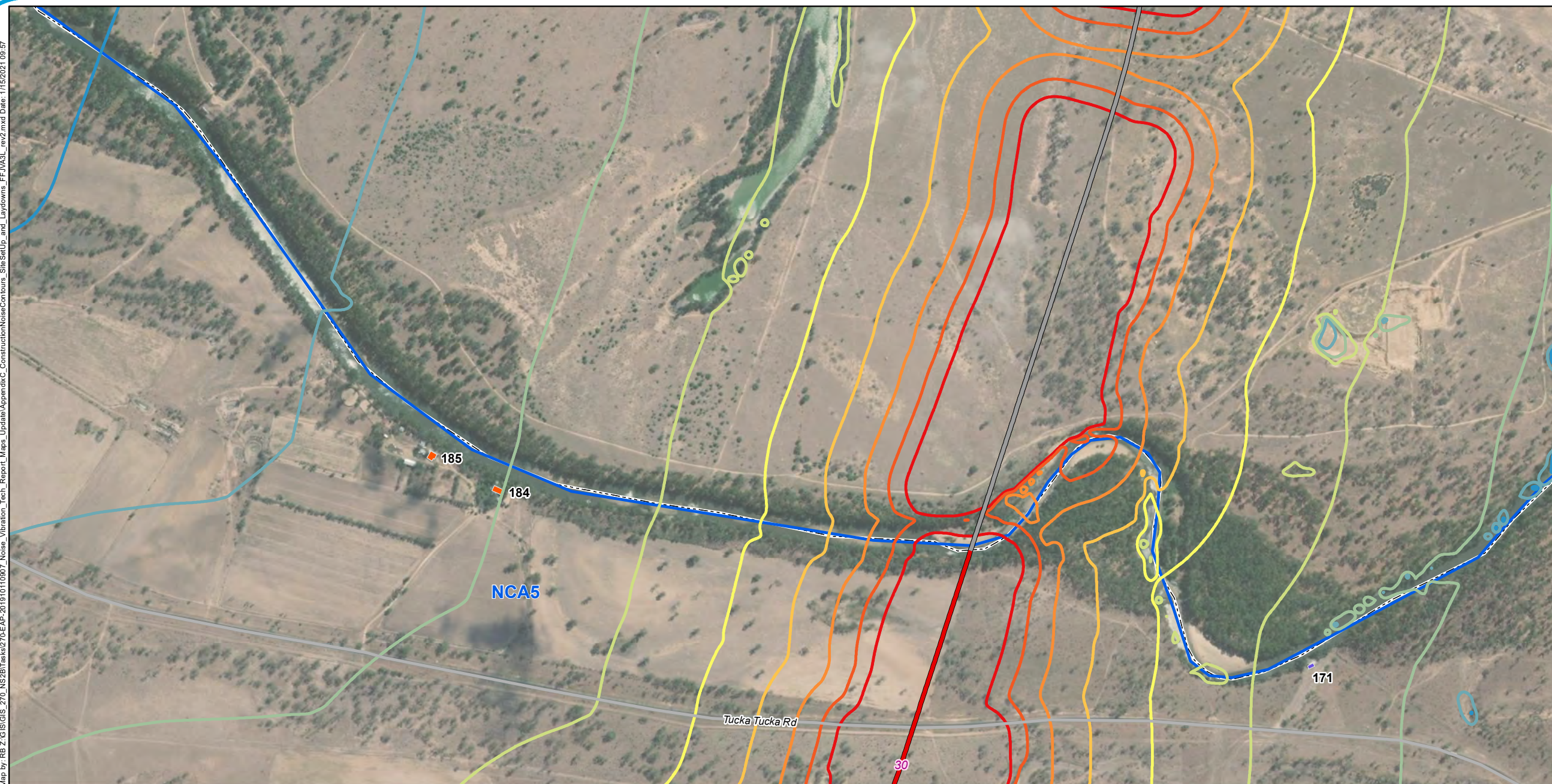


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 18 of 19)



Map by: RB Z:\GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\101007 Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_SiteSetup\_and\_Laydowns\_FF JV3\1\_rev2.mxd Date: 1/15/2021 09:57



### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- NSW/QLD border

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

### Sensitive receivers

- Industrial
- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

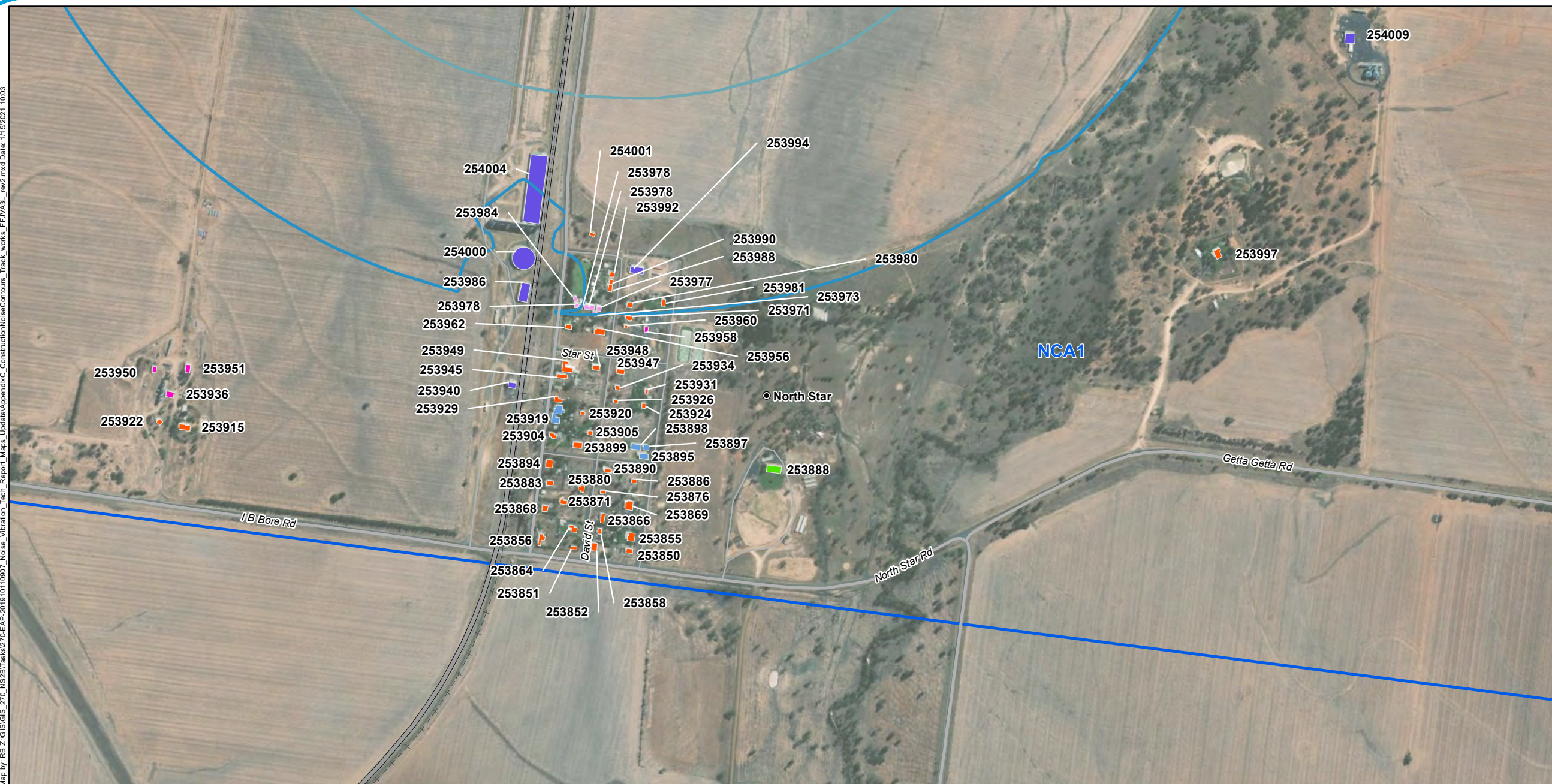


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Site setup and laydowns (Map 19 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VA3L\_rev2.mxd Date: 11/15/2021 10:03



#### Legend

- 5 Chainage (km)
- Localities
- Existing rail (non-operational)
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA1

#### Sensitive receivers

- Active Recreation
- Commercial
- Industrial
- Residential
- School
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

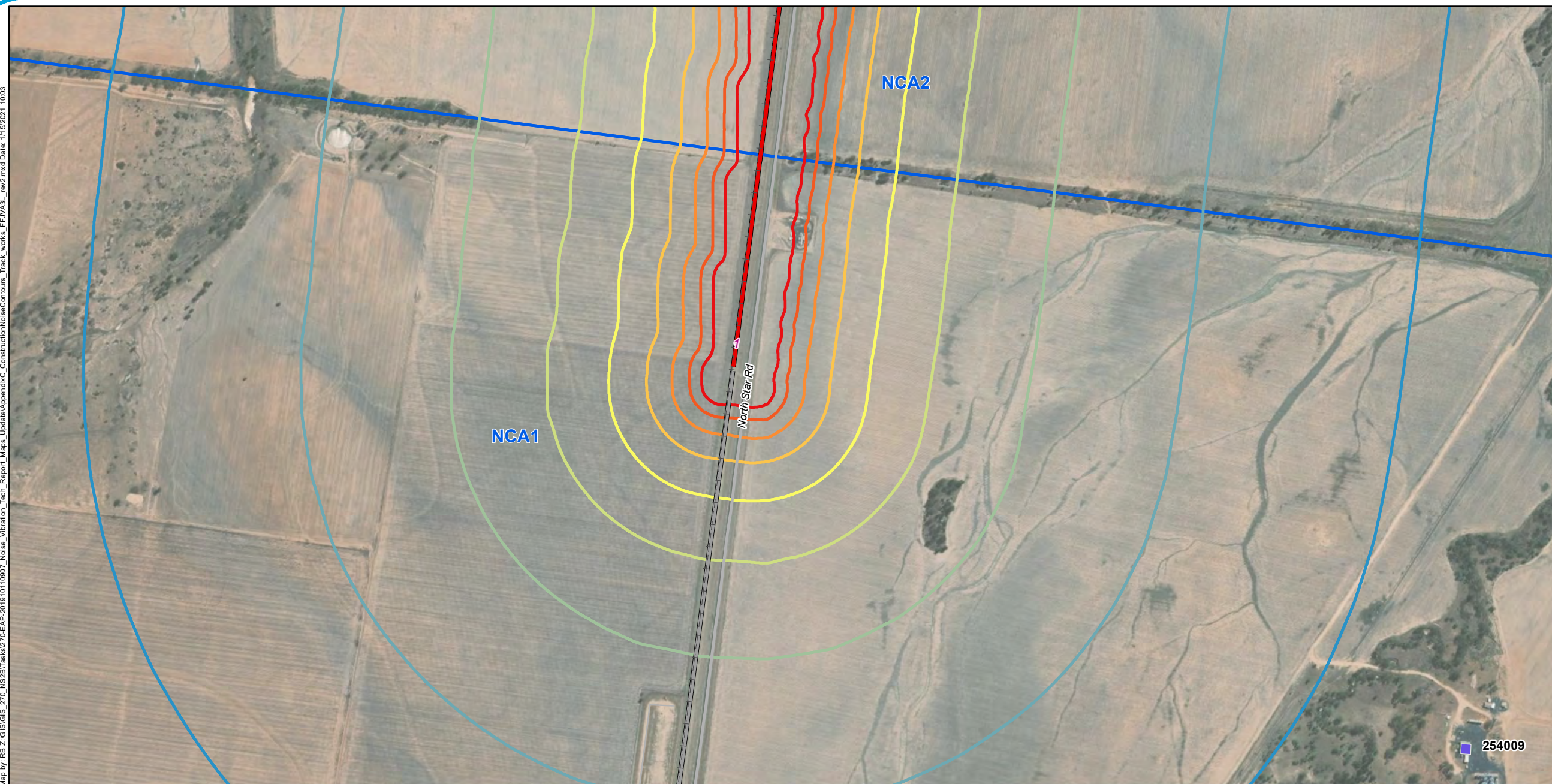


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 1 of 19)



Map by: RB 2:GIS/GIS\_270\_NS2BTasks270-EAP-201910110607 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Track\_works\_FFVA3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA1 NCA2

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

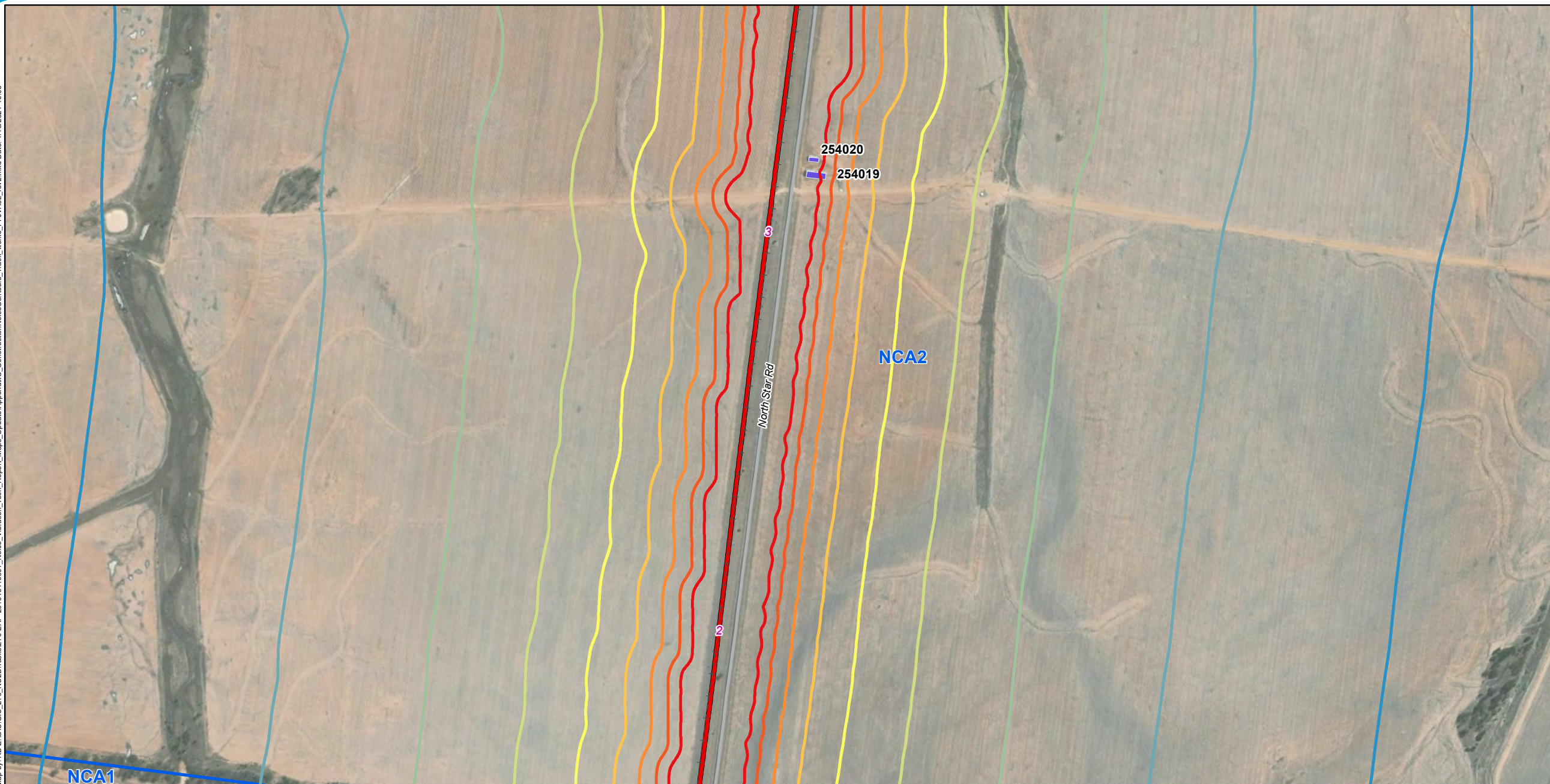


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 2 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

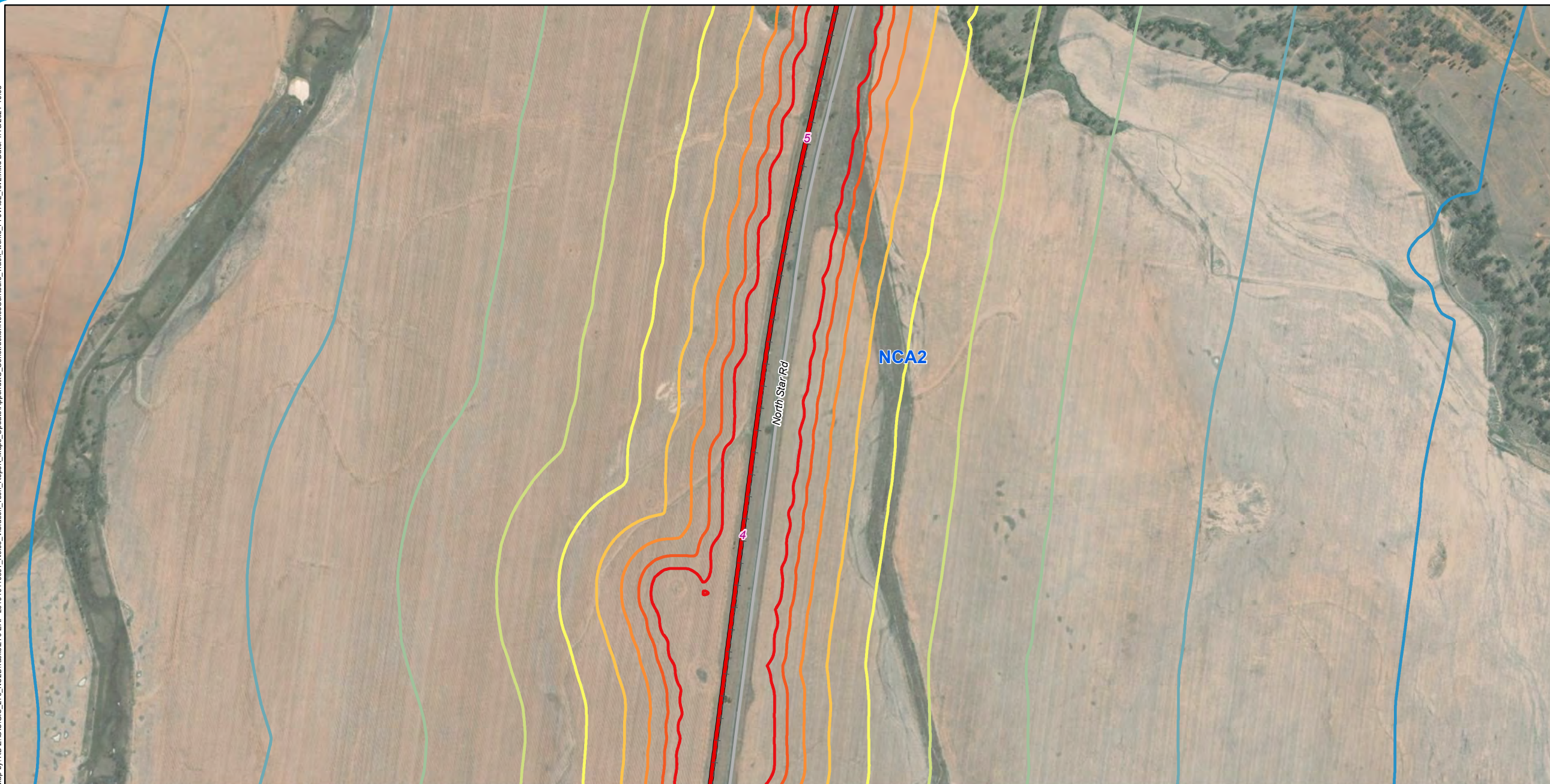


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 3 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/15/2021 10:03



### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

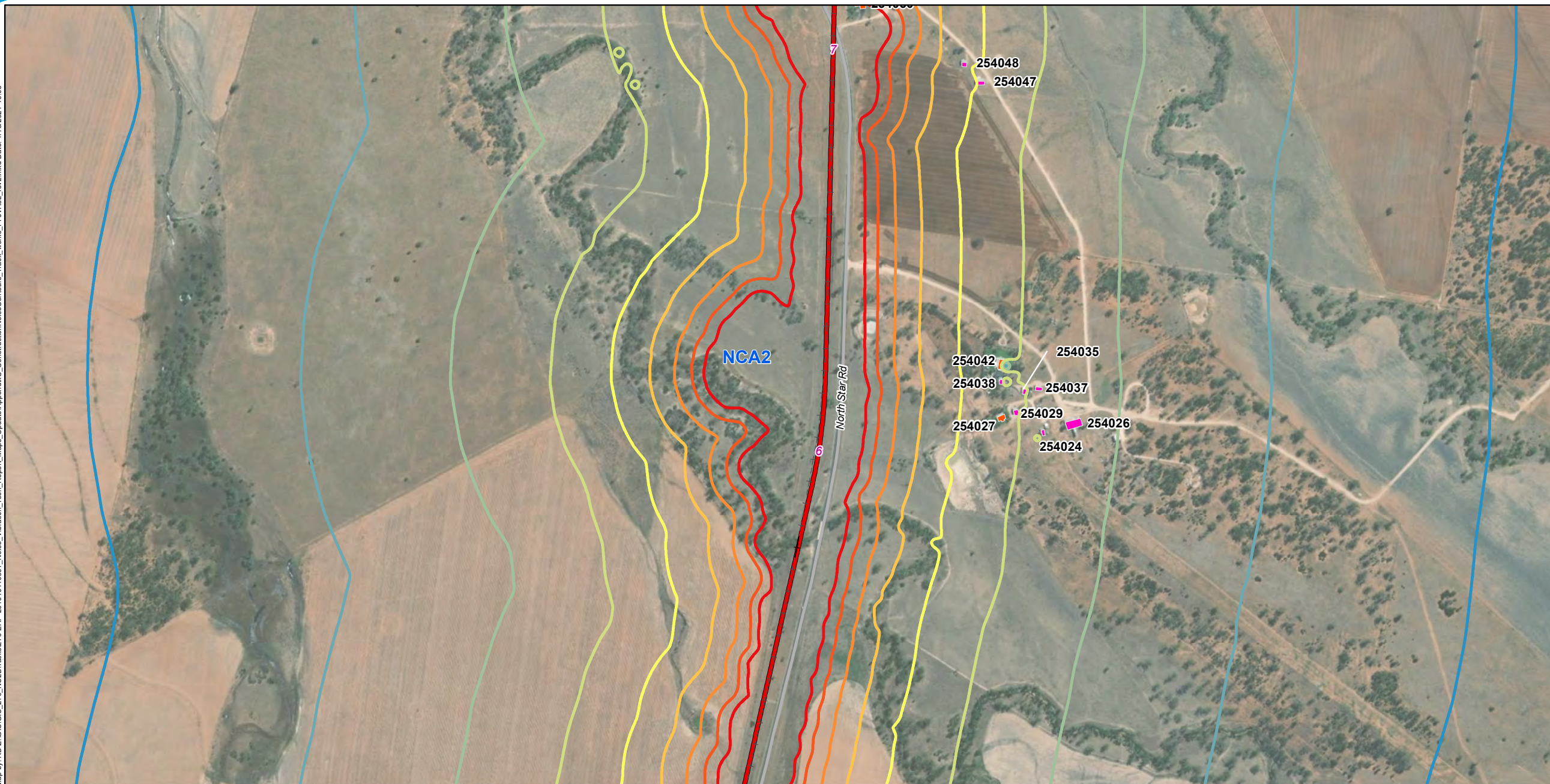


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 4 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2B\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- Existing rail (operational)
- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

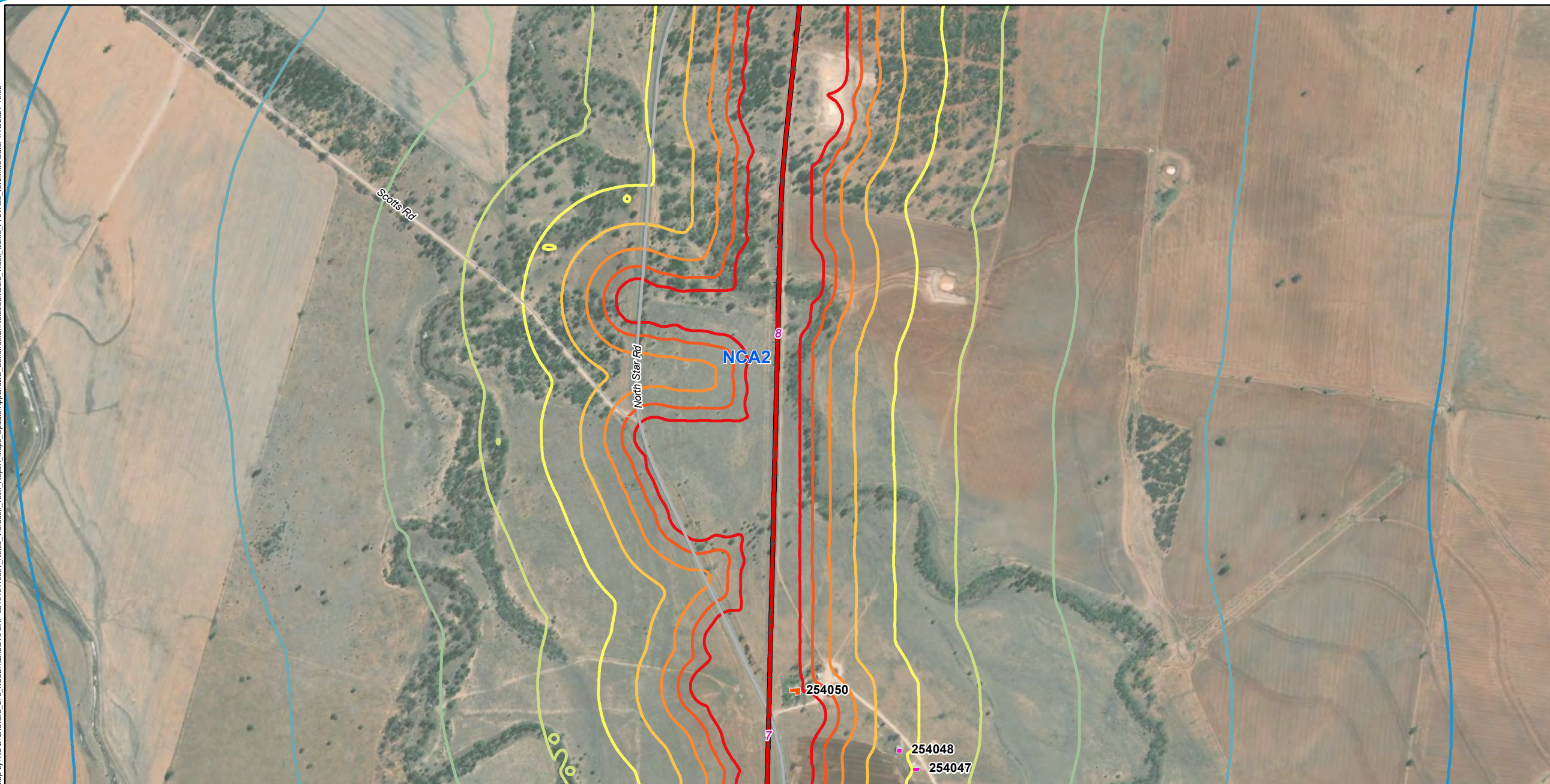


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 5 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VA3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

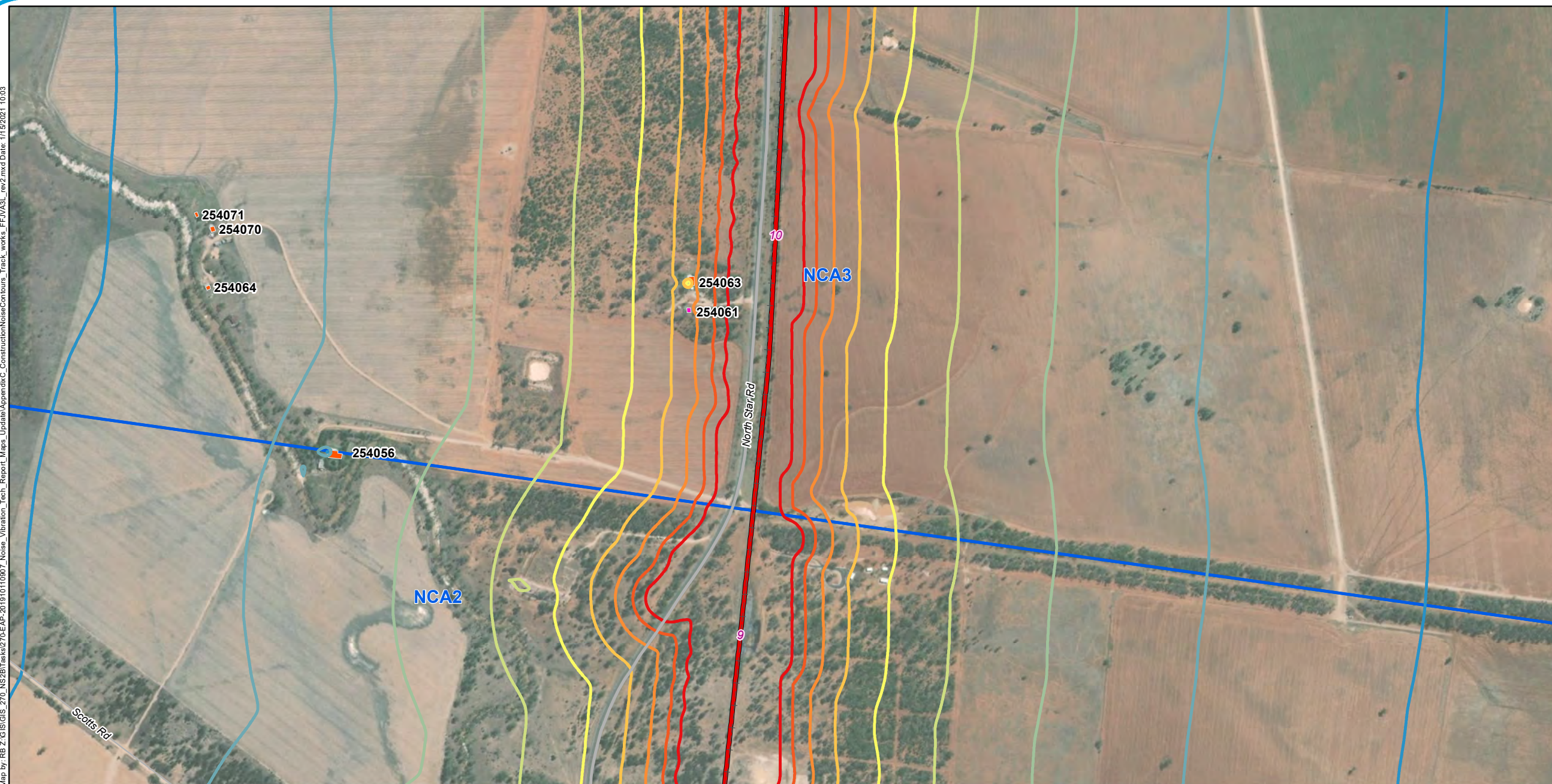


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 6 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FU\A3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
0 0.075 0.15 0.225 0.3 0.375 km

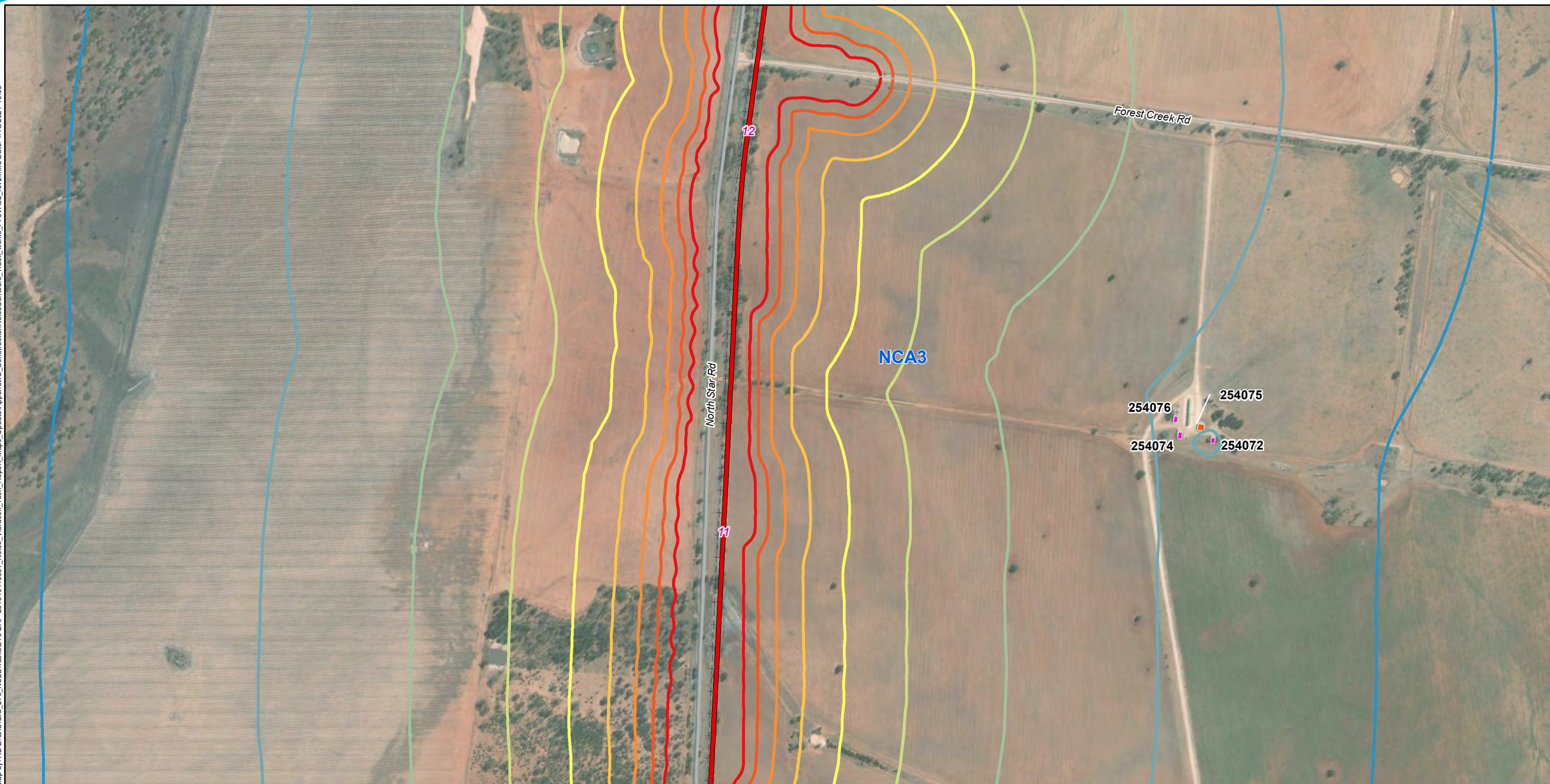


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 7 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\A3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

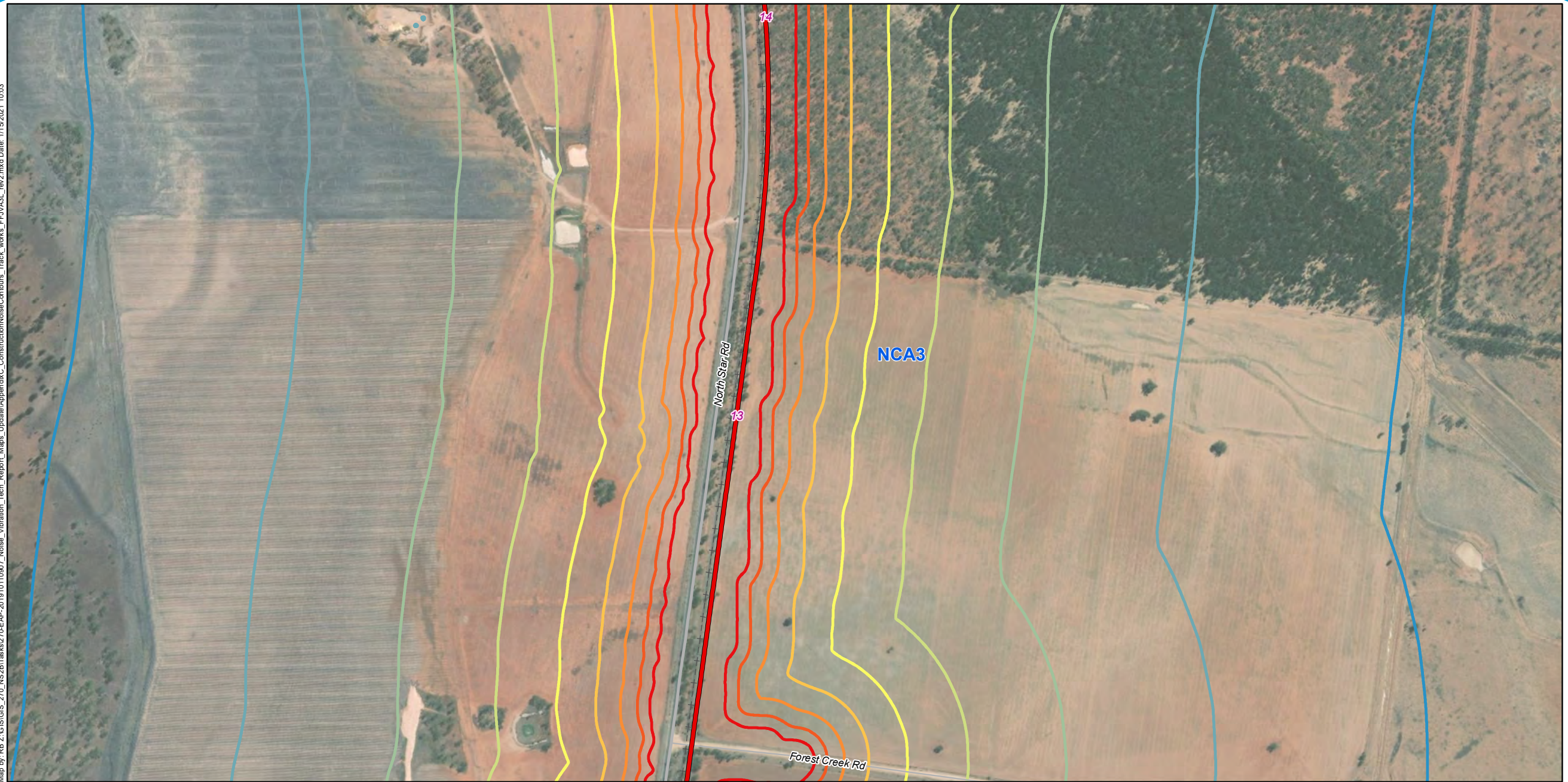


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 8 of 19)



Map by: RB 2:GIS\GIS\_270\NS2B\Tasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VA3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

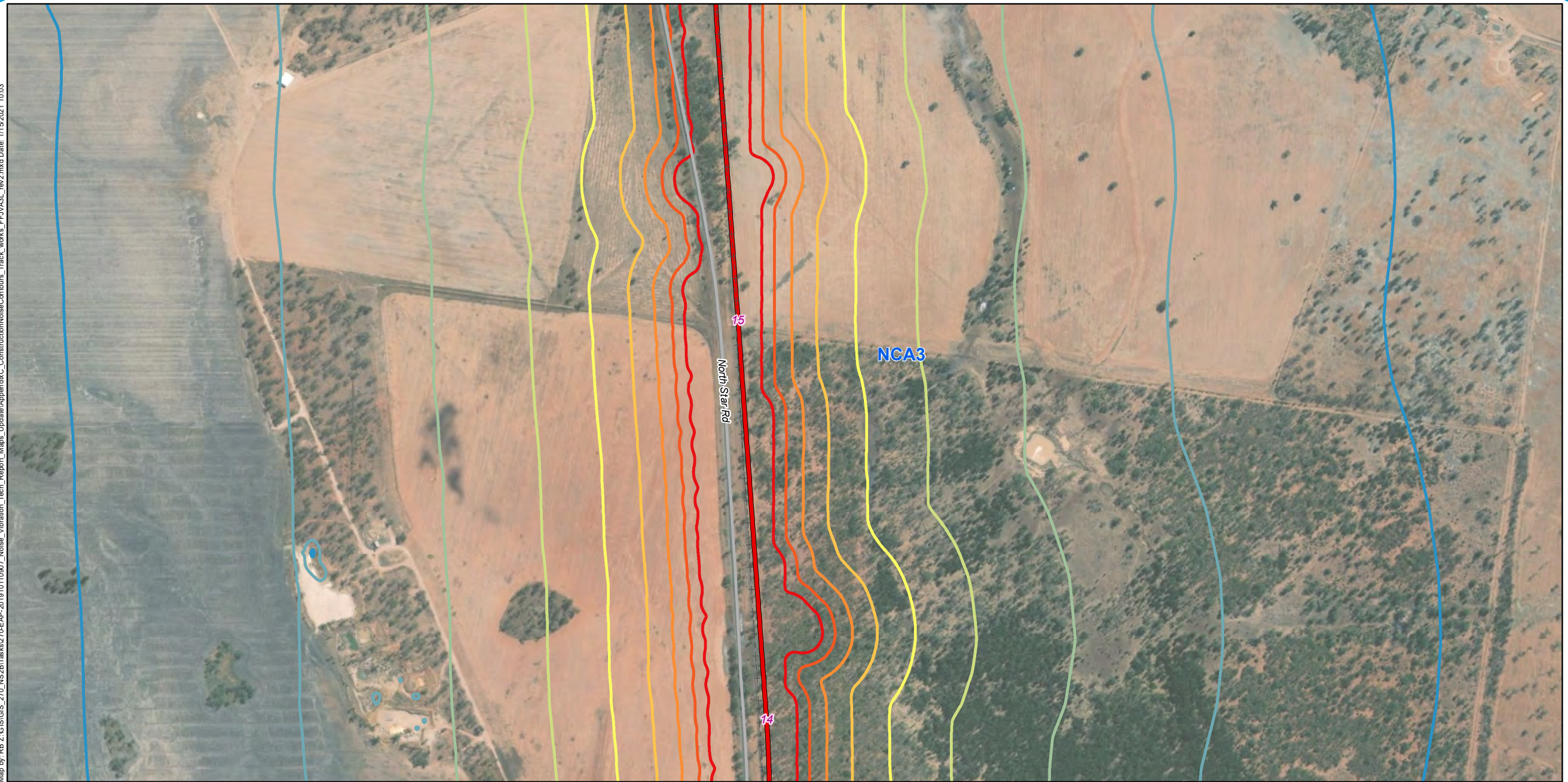


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 9 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\10110007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VA3L\_rev2.mxd Date: 11/15/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

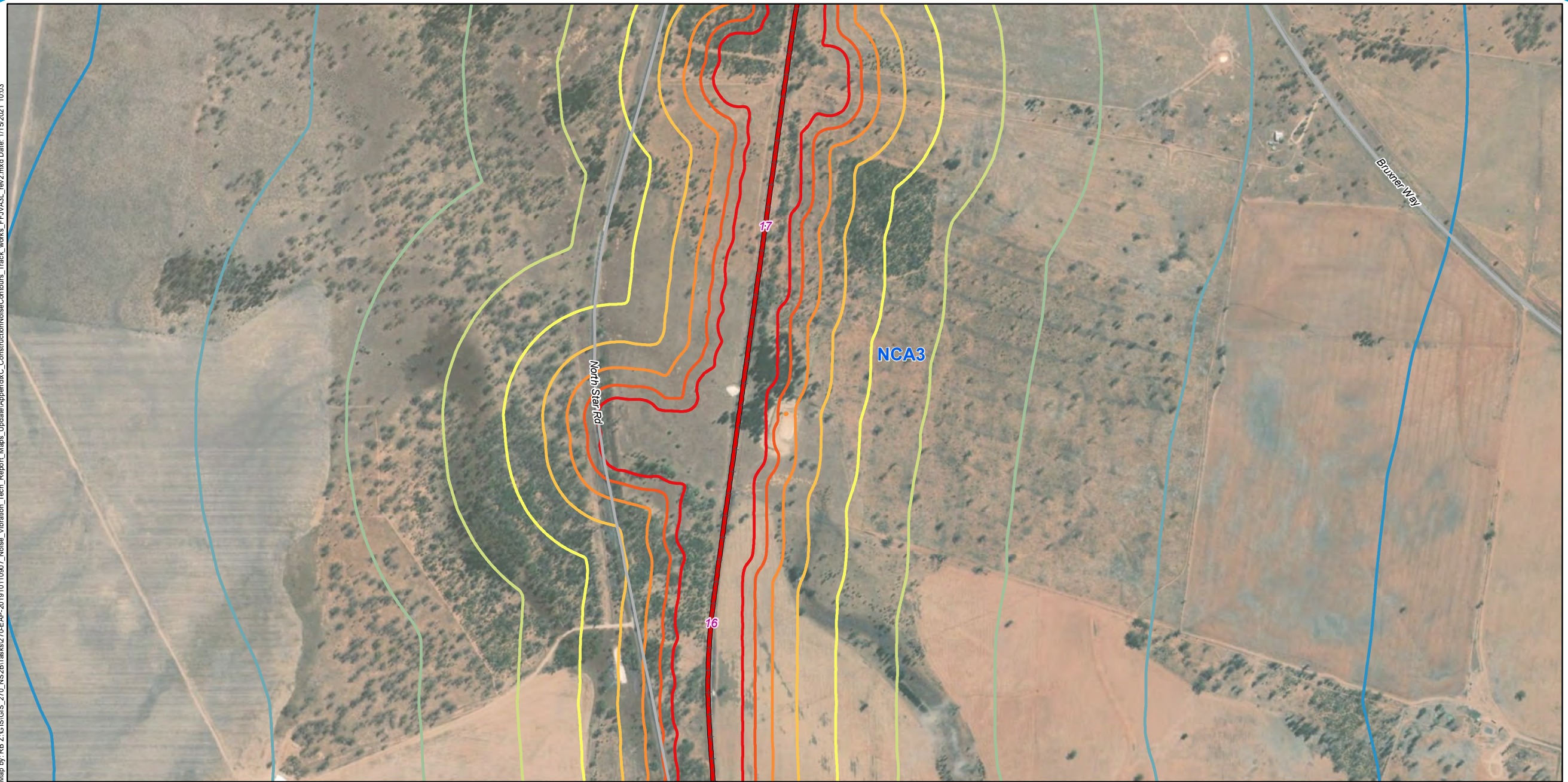


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 10 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FFWA3L\_rev2.mxd Date: 11/15/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

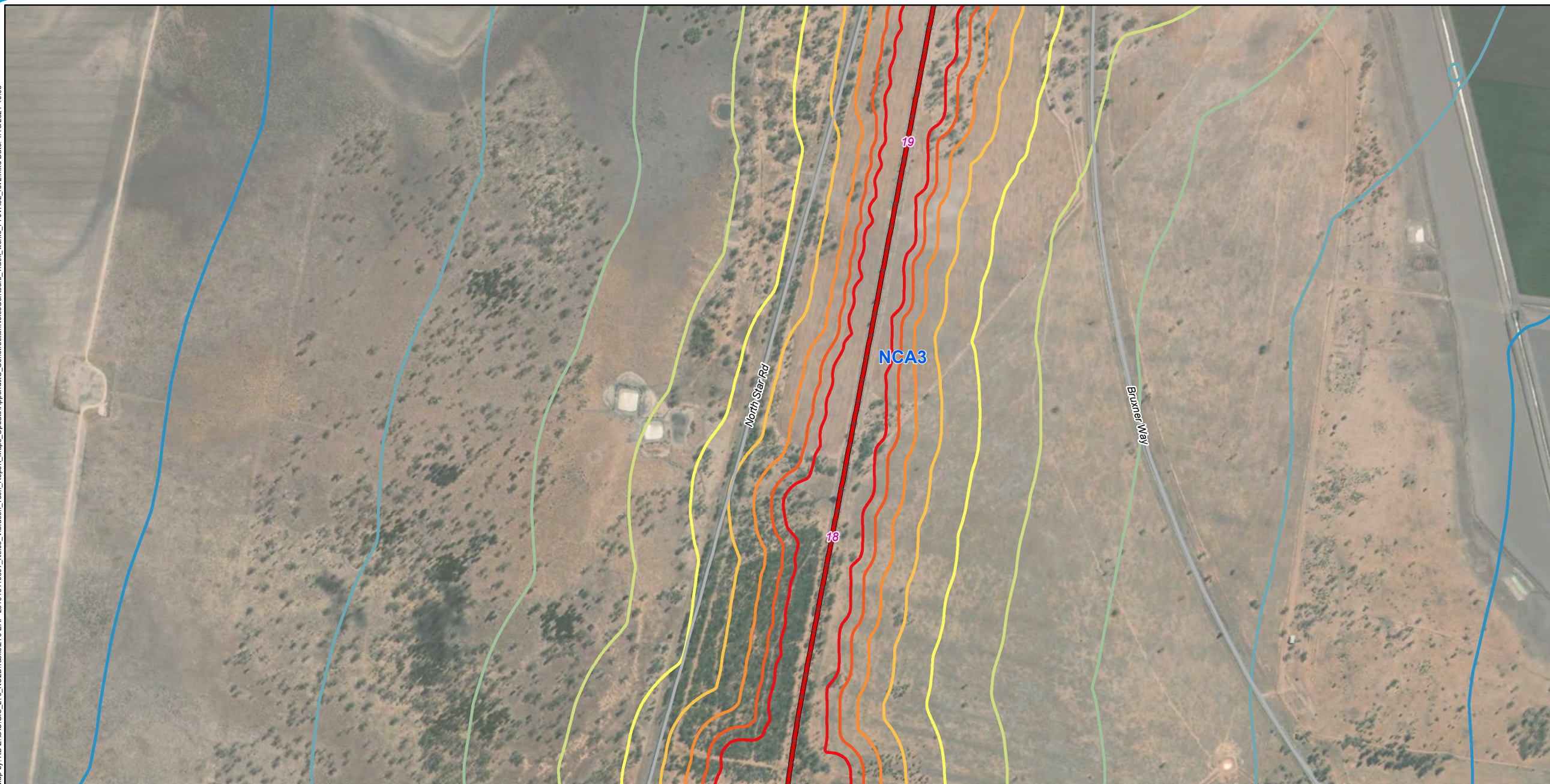


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 11 of 19)



Map by: RB 2:GIS\GIS\_270\_NSB\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FFI\VASL\_rev2.mxd Date: 11/15/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

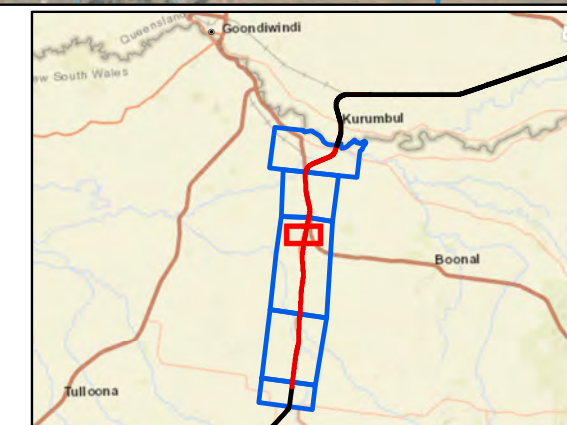
#### Sound Pressure Level

**L<sub>Aeq</sub>, dB(A)**

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

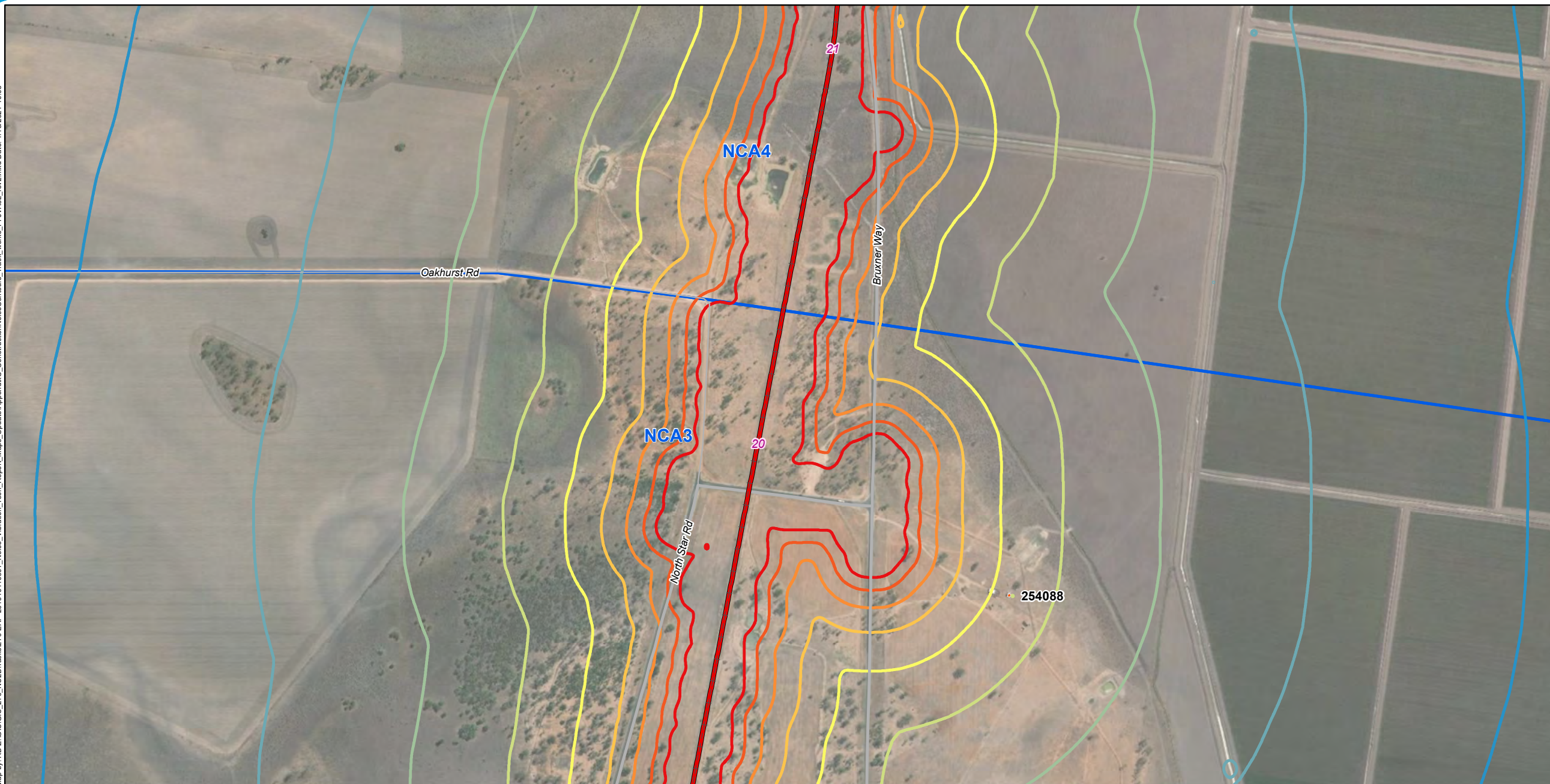


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 12 of 19)



Map by RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA3

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

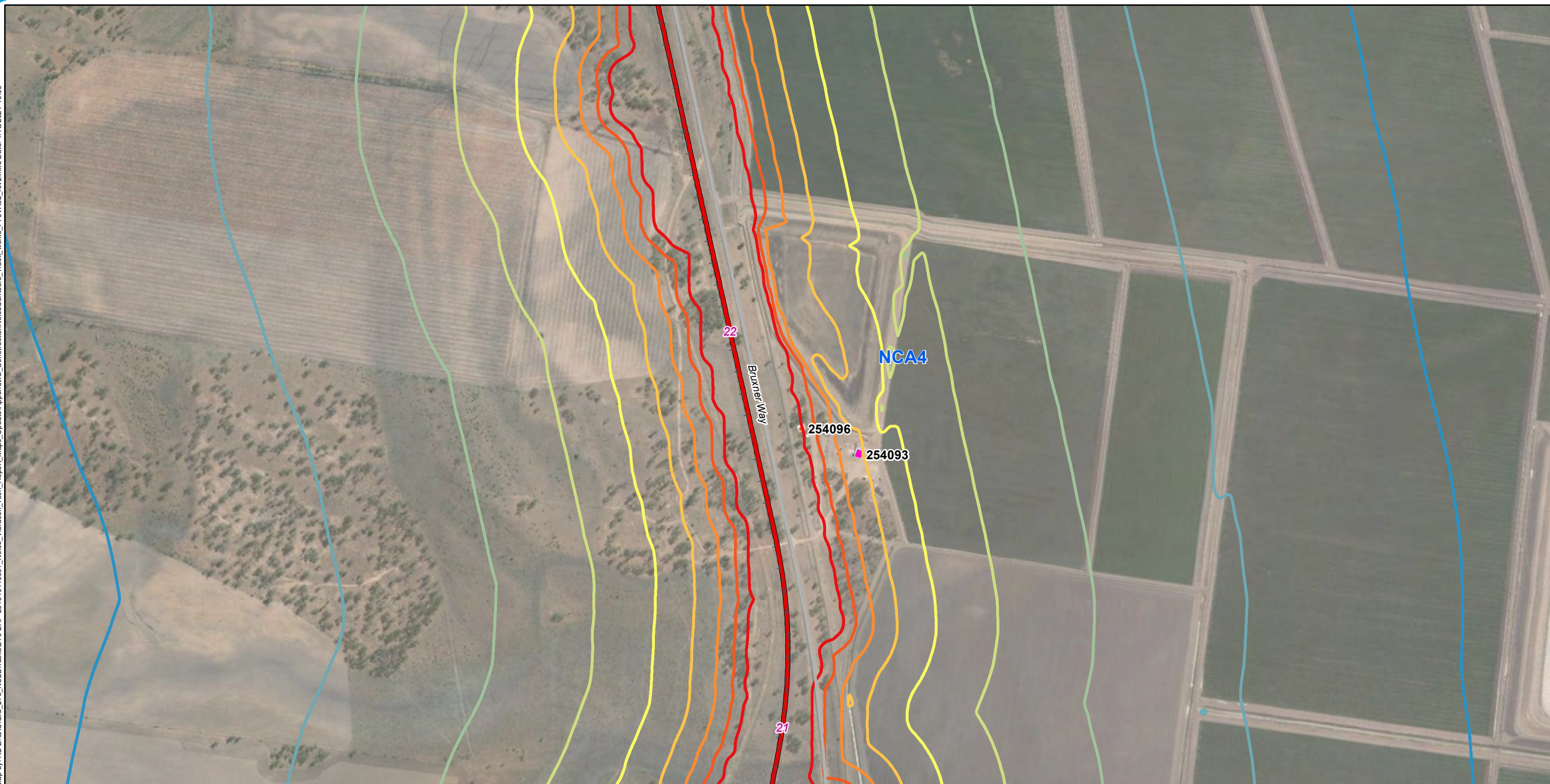


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 13 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\1011007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

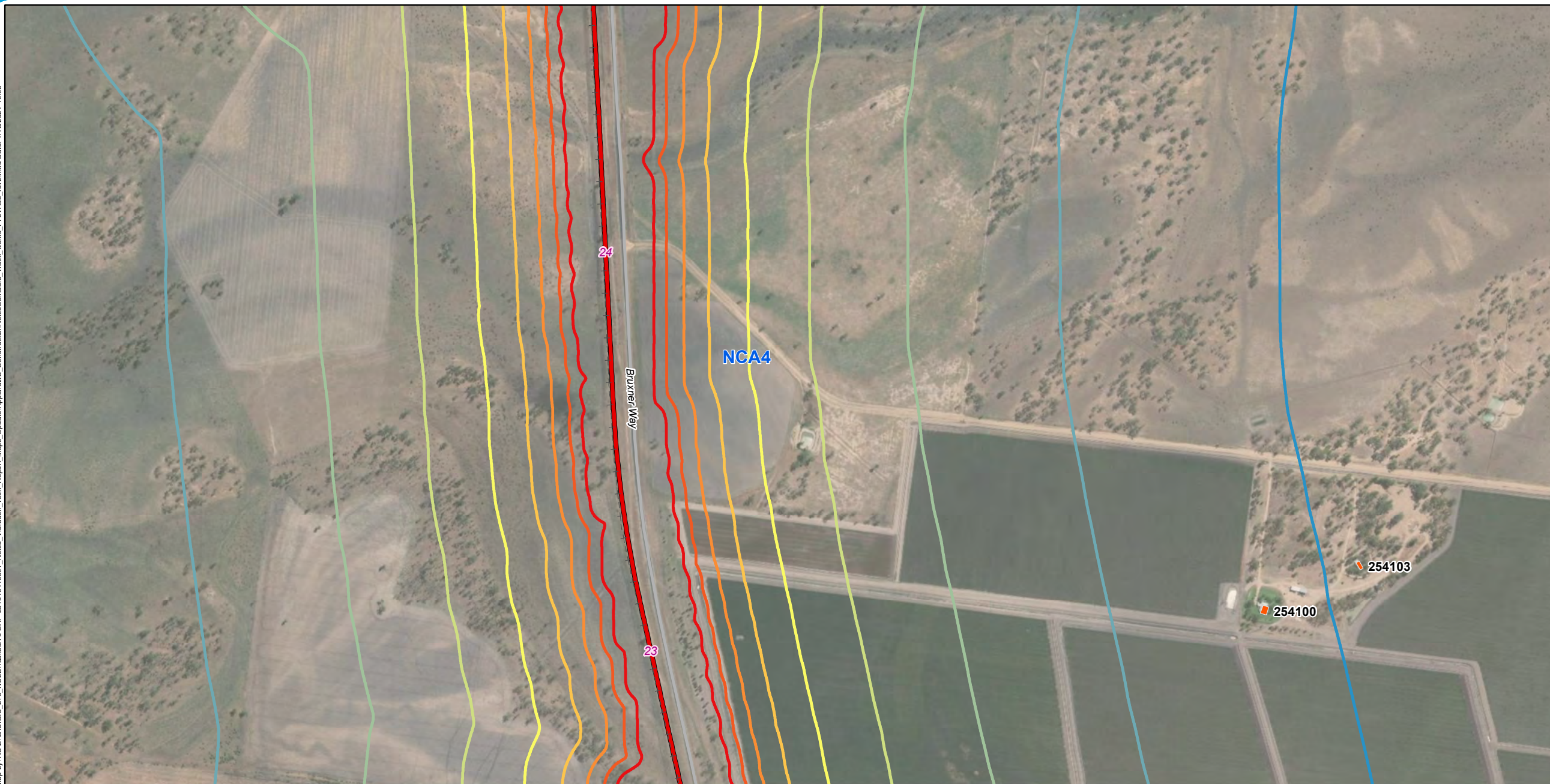


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 14 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FFI\A3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA's

#### Sensitive receivers

- Residential



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

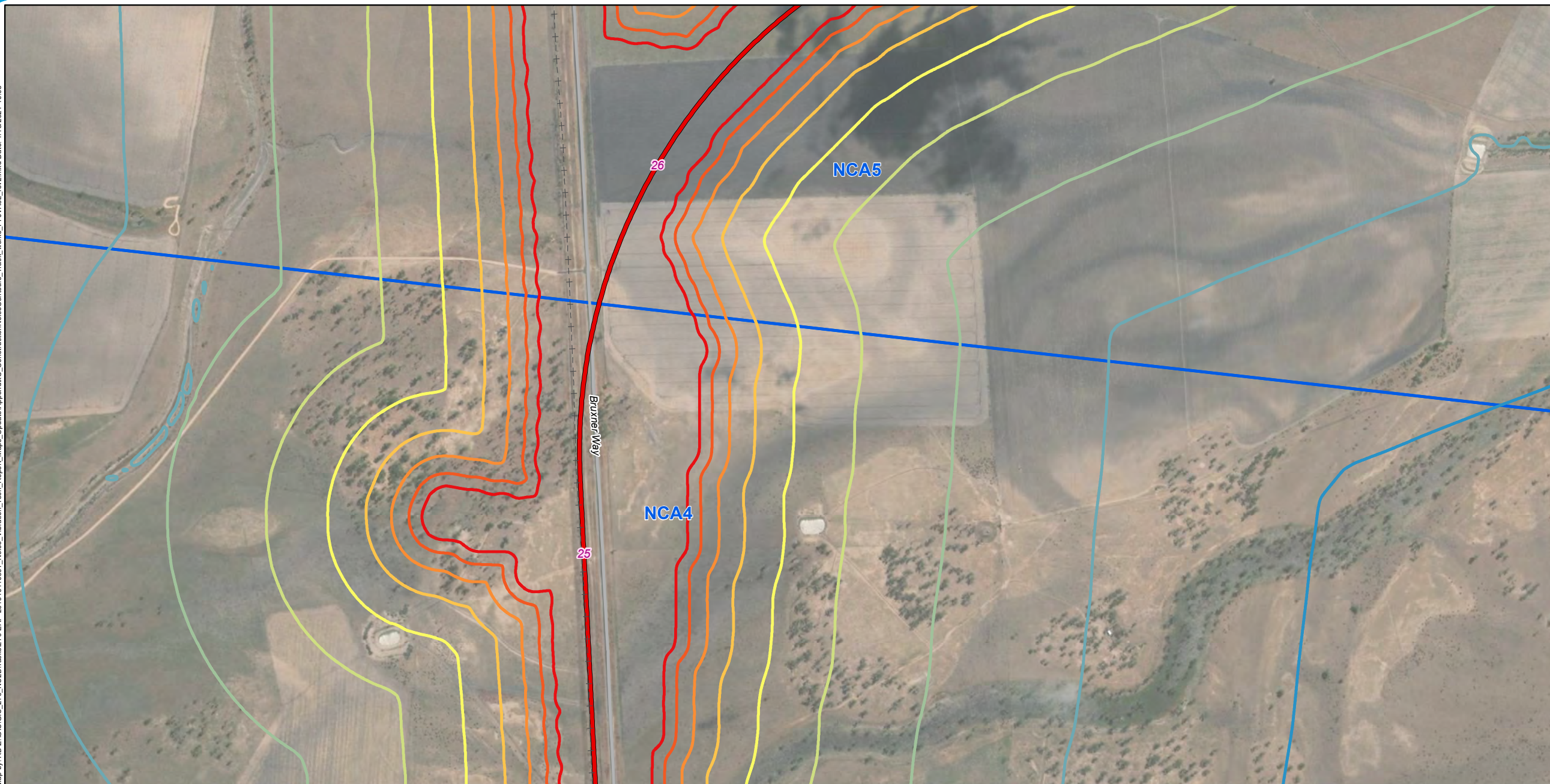


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 15 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FF\VASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

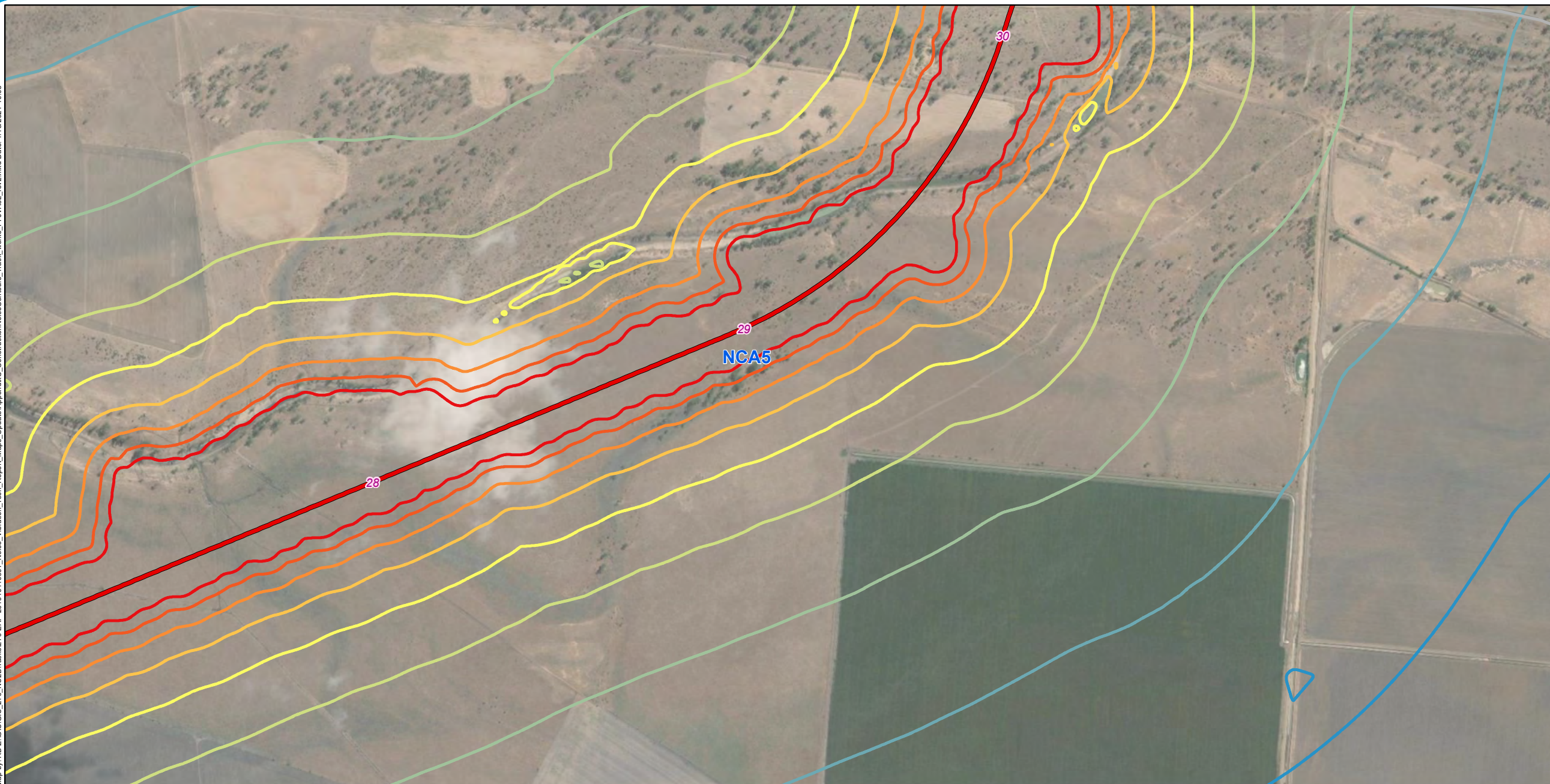


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 16 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBT/Task270-EAP-2019/1011007 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Track\_works\_FFIVASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

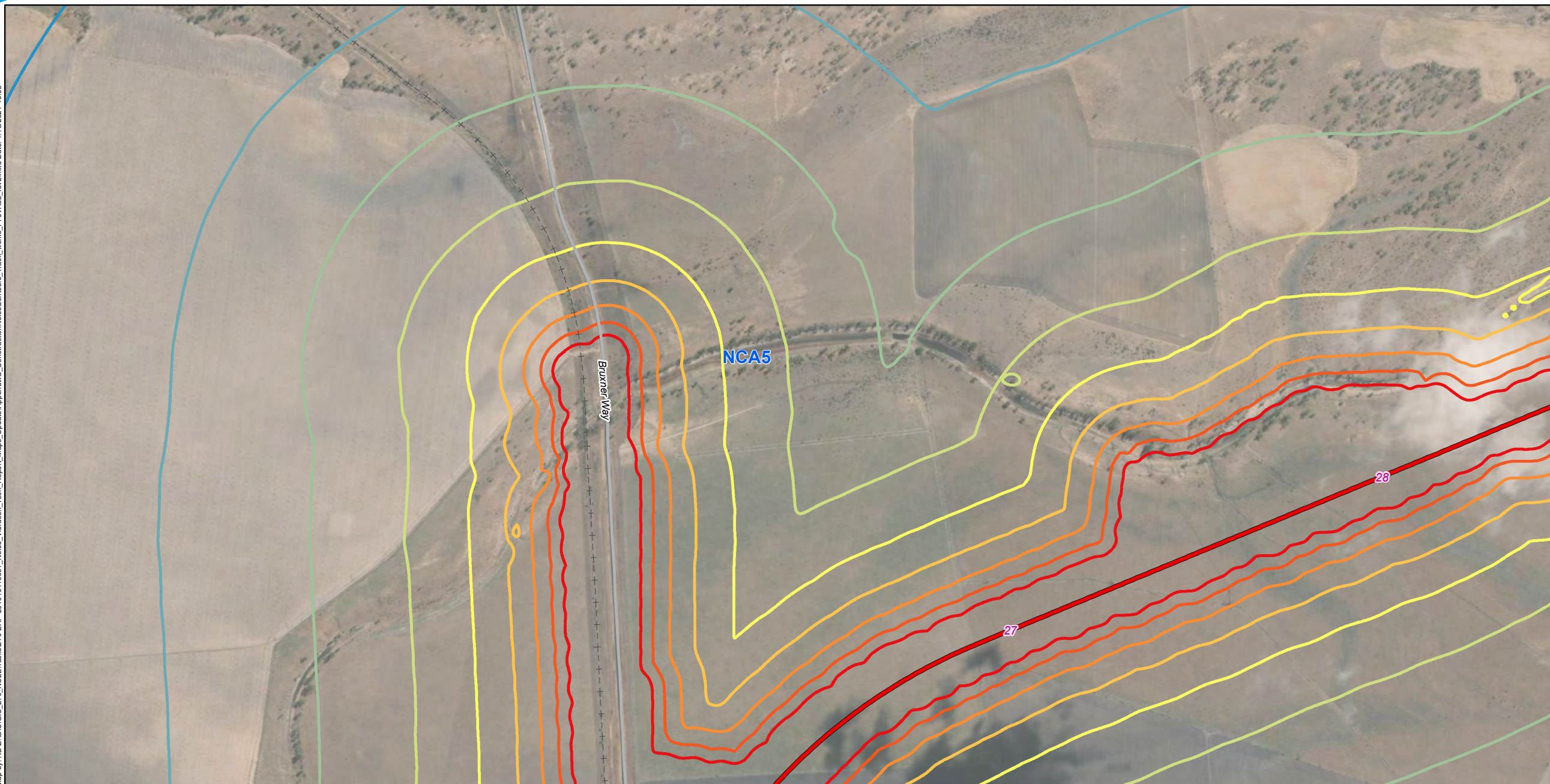


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 17 of 19)



Map by: RB 2:GIS\GIS\_270\_NS2BTasks\270-EAP-2019\101007\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_Track\_works\_FFI\A3L\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs



A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km

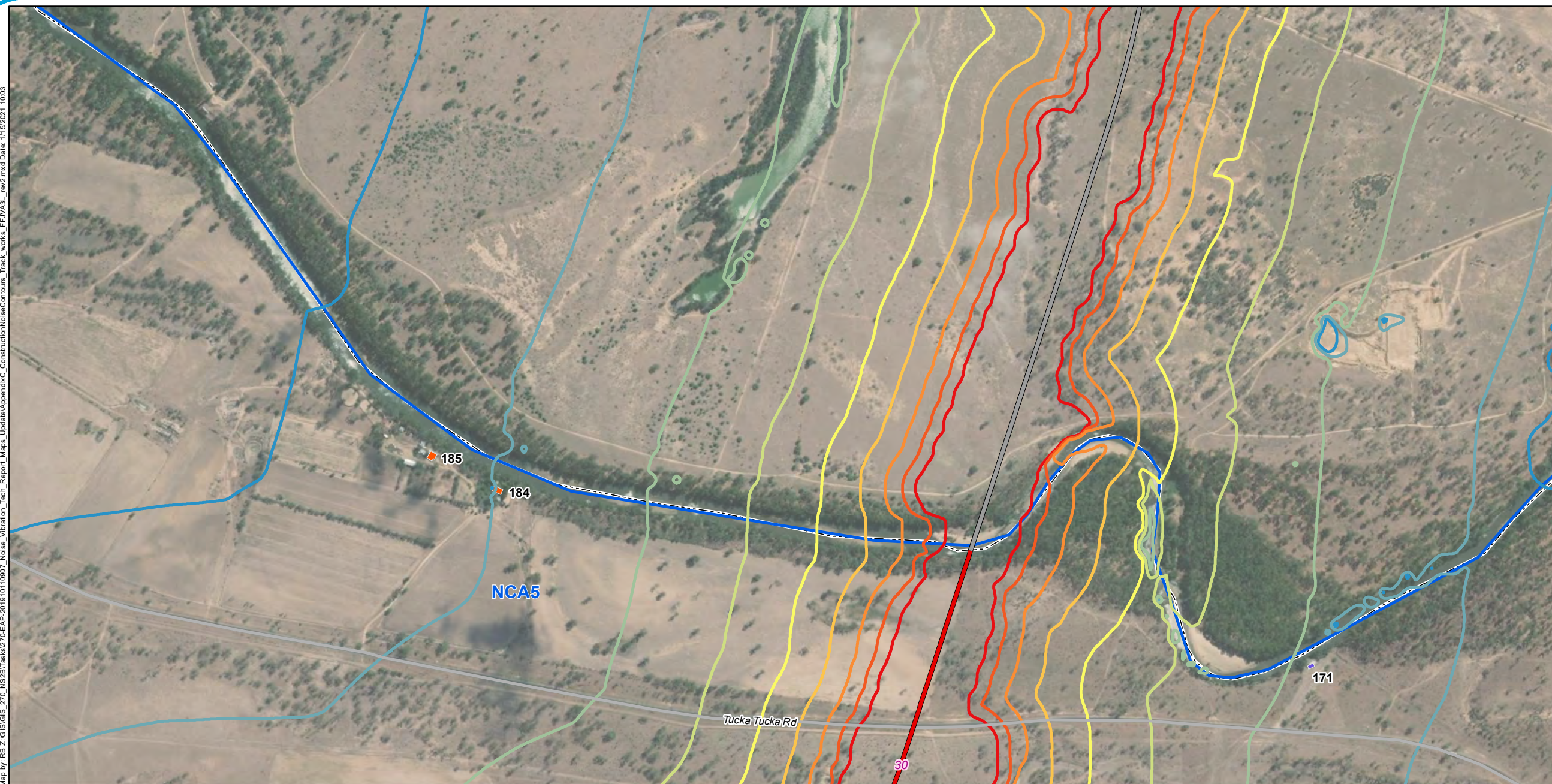


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 18 of 19)



Map by: RB 2:GIS/GIS\_270\_NS2BTasks270-EAP-201910110007 Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_Track\_works\_FFIVASL\_rev2.mxd Date: 11/5/2021 10:03



#### Legend

- 5 Chainage (km)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- NSW/QLD border

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

- Industrial
- Residential



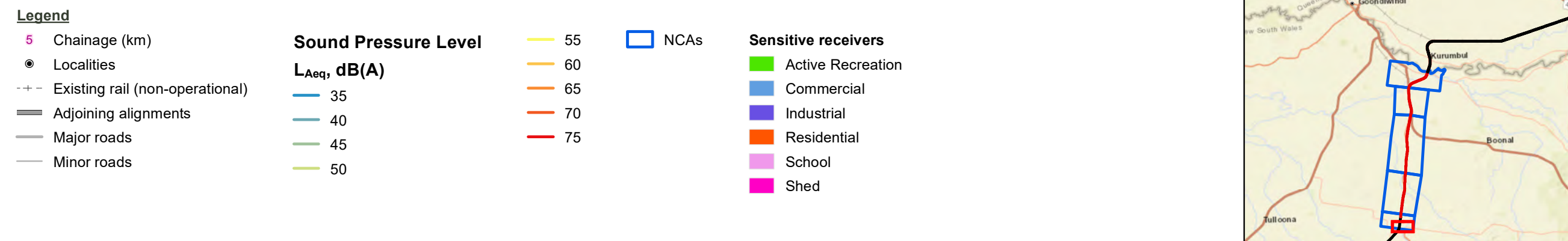
A3 scale: 1:10,500  
 0 0.075 0.15 0.225 0.3 0.375 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Track works (Map 19 of 19)





## NORTH STAR TO NSW/QUEENSLAND BORDER RESPONSE TO SUBMISSIONS



Map by: RB 2:GIS/GIS\_270\_NS2BTasks270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_FFJV33L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Adjoining alignments
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
0 0.08 0.16 0.24 0.32 0.4 km

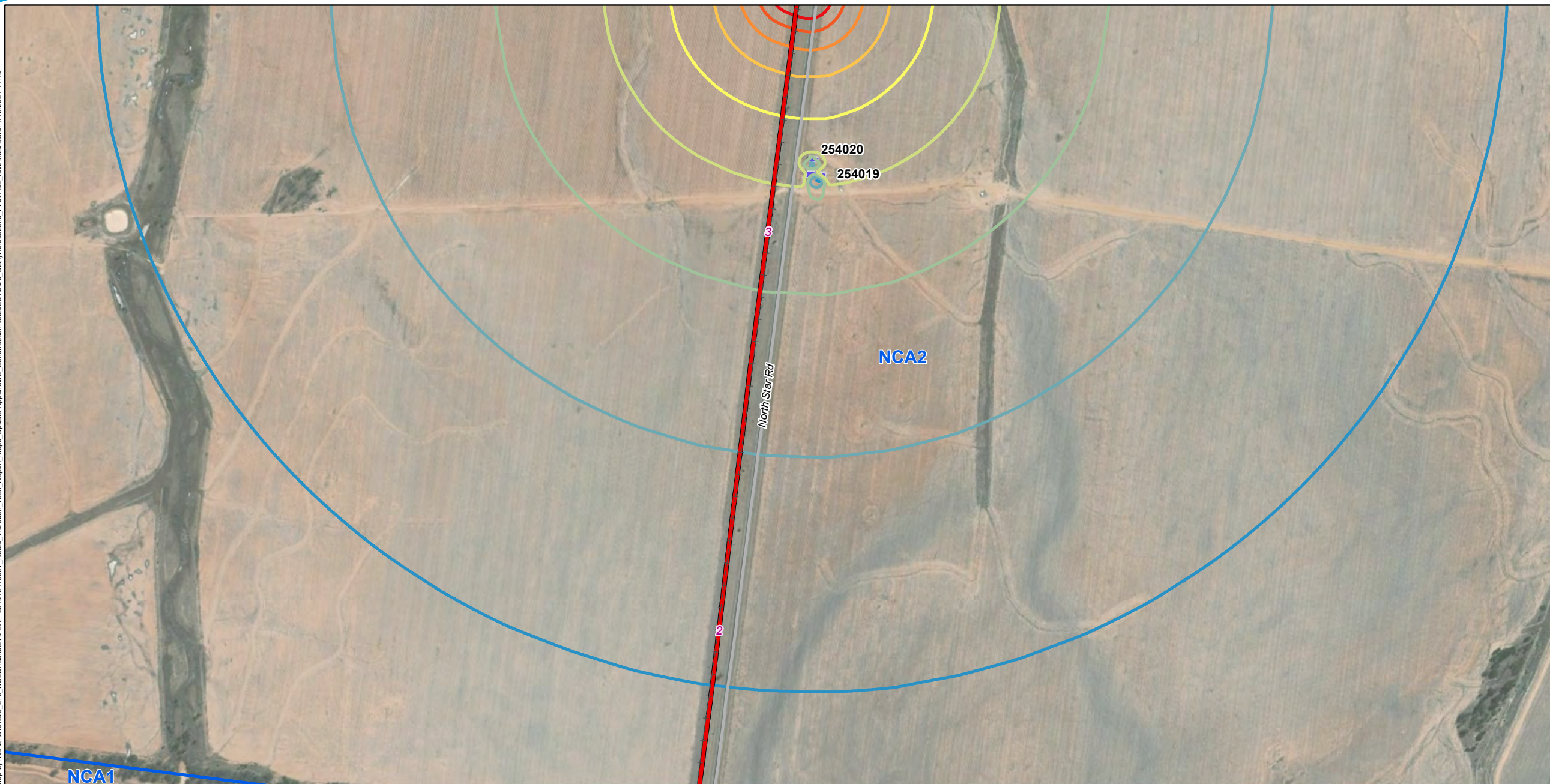


Issue date: 30/10/2019 Version: 1  
Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 2 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_FFJV33L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$ , dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA5

#### Sensitive receivers

Industrial



A3 scale: 1:10,500  
 0 0.08 0.16 0.24 0.32 0.4 km

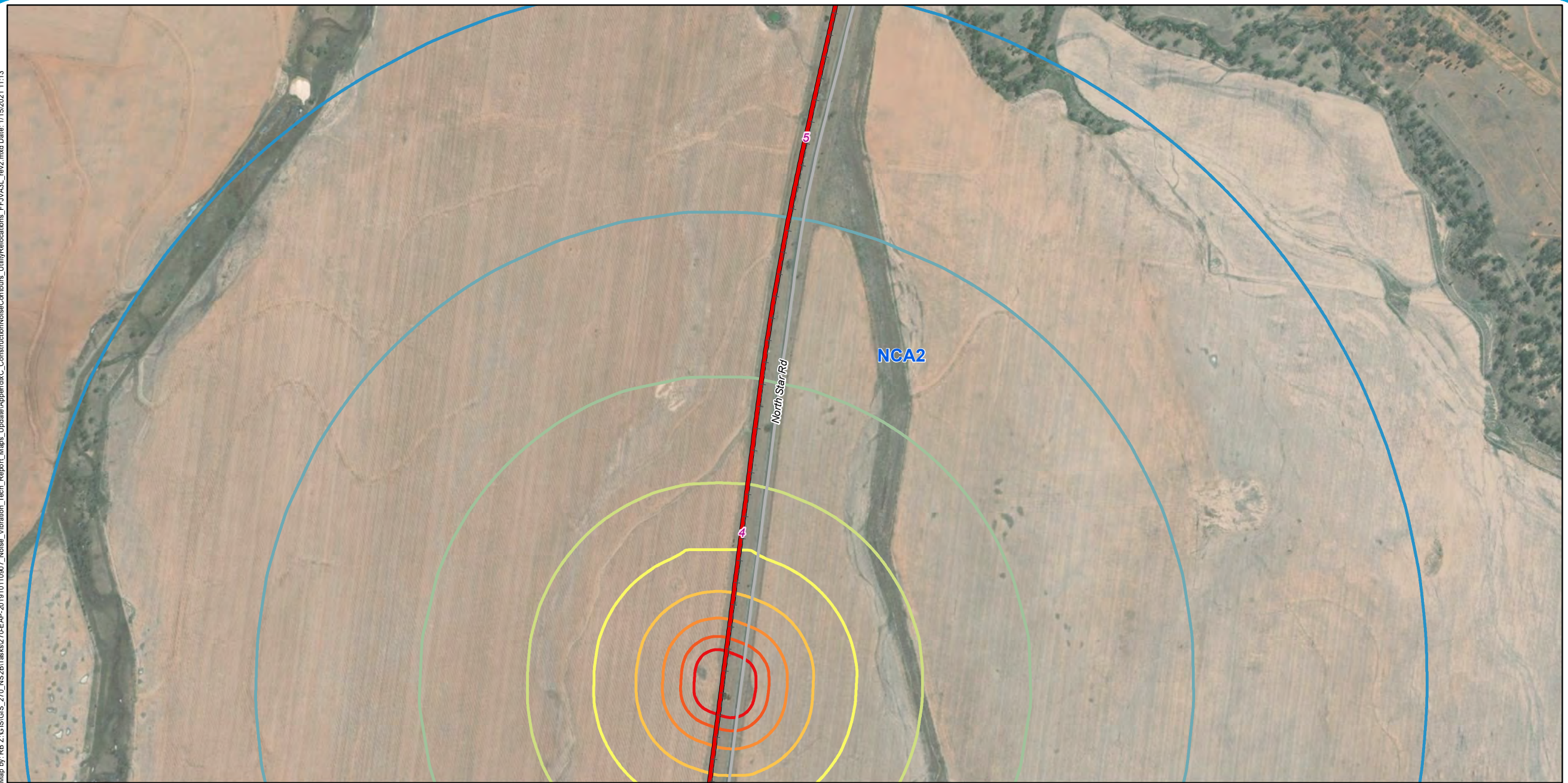


Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 3 of 19)



Map by: RB 2:GIS\GIS\_270\_NSW\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA



A3 scale: 1:10,500  
 0 0.08 0.16 0.24 0.32 0.4 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 4 of 19)



Map by: RB 2:GIS/GIS\_270\_NSBTtasks270-EAP-201910110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update/AppendixC\_ConstructionNoiseContours\_UtilityRelocations\_FFJV33L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- Existing rail (operational)
- Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA2

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.08 0.16 0.24 0.32 0.4 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 5 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\1010607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- - - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

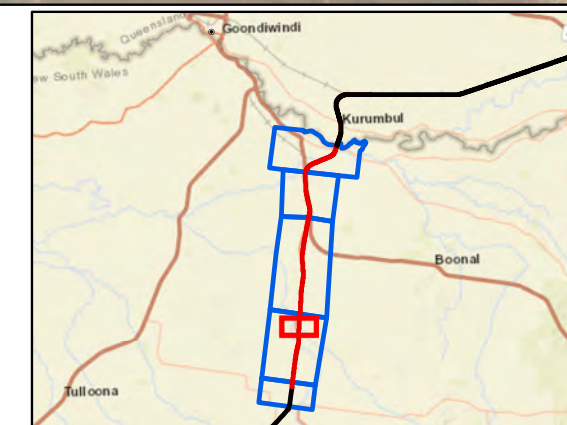
- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

NCA's

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.08 0.16 0.24 0.32 0.4km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

### North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 6 of 19)



Map by: RB 2:GIS\GIS\_270\_NSBT\Tasks\270-EAP-2019\10110607\_Noise\_Vibration\_Tech\_Report\_Maps\_Update\AppendixC\_ConstructionNoiseContours\_FF\JVA3L\_rev2.mxd Date: 1/15/2021 11:13



#### Legend

- 5 Chainage (km)
- + - Existing rail (non-operational)
- North Star to NSW/QLD border alignment
- Major roads
- Minor roads

#### Sound Pressure Level

$L_{Aeq}$  dB(A)

- 35
- 40
- 45
- 50

- 55
- 60
- 65
- 70
- 75

□ NCAs

#### Sensitive receivers

- Residential
- Shed



A3 scale: 1:10,500  
 0 0.08 0.16 0.24 0.32 0.4 km



Issue date: 30/10/2019 Version: 1  
 Coordinate System: GDA 1994 MGA Zone 56

## North Star to NSW/QLD border Appendix C: Construction noise contours - Utility relocations (Map 7 of 19)