

**M7-M12 Integration project**  
**Environment Protection Licence –**  
**Environmental Monitoring Data Report**

March 2024



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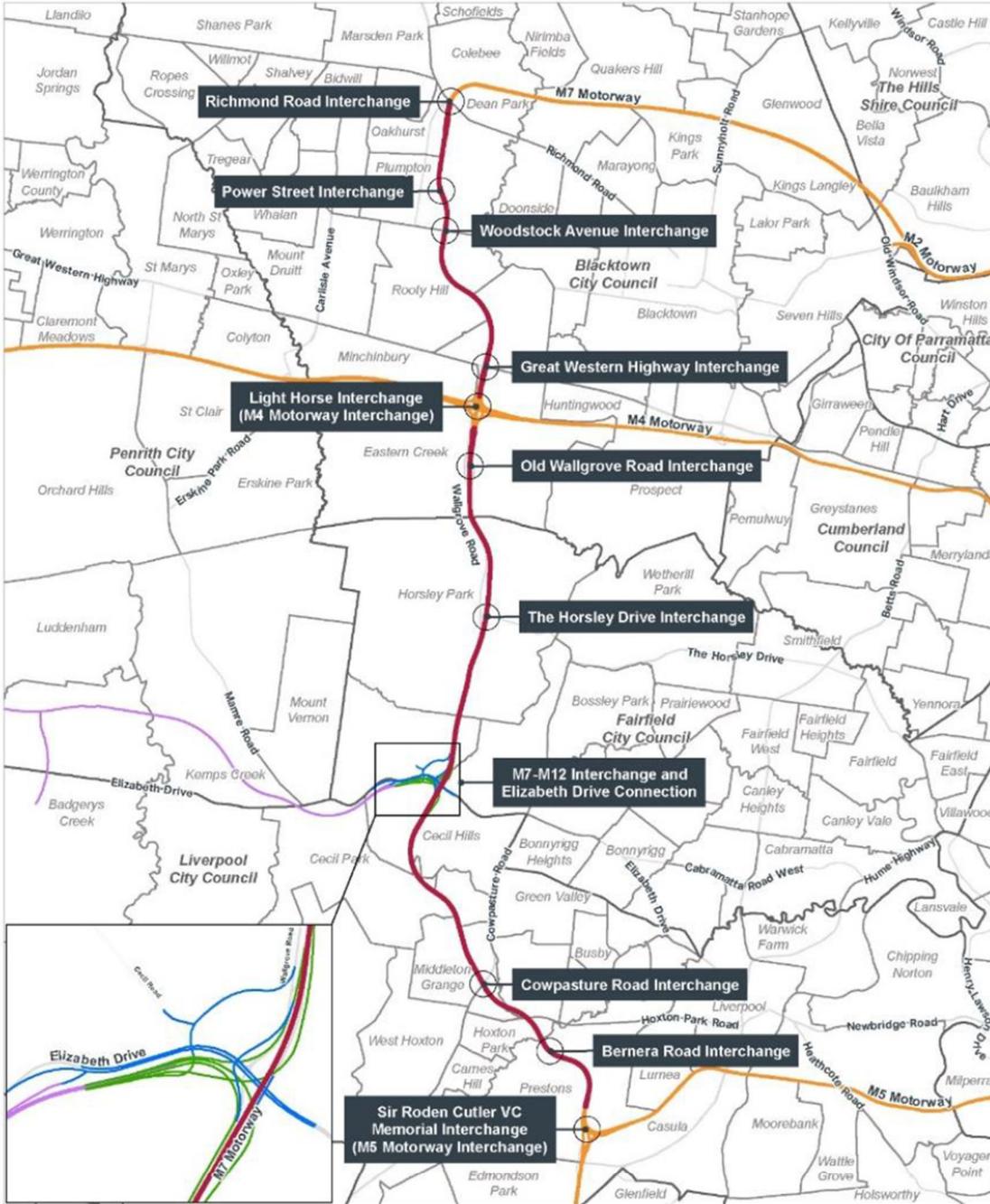
# 1 Project summary

The M7 Motorway (Modification 6 Widening; SSI-663-Mod-6) (M7 Widening) and the M12 East package of the M12 Motorway project (SSI 9364) will be delivered together under what is referred to as the M7-M12 Integration project (the project) (refer to Figure 1-1) by John Holland.

The M12 Motorway extends between the M7 Motorway at Cecil Hills and The Northern Road at Luddenham, over a distance of about 16 km. It will be delivered in multiple packages including the M12 West package, M12 Central package and M12 East package (this package is part of the M7-M12 Integration project). The M12 East package involves two components of work:

- Connecting Elizabeth Drive to the M12 Motorway and the upgrade of approximately two kilometres of Elizabeth Drive from east of Duff Road to 300 metres east of the M7 Motorway
- Providing a grade separated motorway to motorway connection between the M7 Motorway and M12 Motorway.

The M7 Widening project will enable the construction and operation of an additional lane in both directions within the existing median of the Westlink M7 for approximately 26 kilometres (km). Works will occur from about 140 metres (m) south of the Kurrajong Road overhead bridge at Prestons (southern end) to the Richmond Road interchange at Oakhurst/Glendenning (northern end), excluding widening through the Westlink M7/M4 Motorway (Light Horse) Interchange.



**M7-M12 INTEGRATION PROJECT**  
LOCATION OVERVIEW



- Legend**
- M7 Widening
  - M7-M12 Interchange
  - Elizabeth Drive Connection
  - M12 Motorway
  - Existing motorway
  - Interchange
  - LGA boundary
  - Suburb boundary

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Source: Imagery © Google Maps 2020

Figure 1-1 M7-M12 Integration Project

## 2 Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21829) from the NSW Environment Protection Authority for the project. The licence is for road construction as defined under Schedule 1 of the *Protection of the Environment Operations Act 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the Works. The following report details environmental monitoring undertaken during the March 2024 monitoring period conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website: [epa.nsw.gov.au](https://epa.nsw.gov.au)

## **3 Noise and vibration monitoring**

### **3.1 Noise monitoring**

Noise monitoring was undertaken during the reporting period in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria, monitoring was predominantly dominated by background noise sources such as local traffic and are detailed in Table 3-1.

Table 3-1 Noise monitoring data

Location Description	Monitoring date	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
80-82 Station Street, Rooty Hills	01/03/2024	M7_NCA26	Attended	LAeq (15min)	41.7	48	Compliant	The dominant noise source was the traffic on the M7 Motorway with trucks and cars driving during the whole monitoring period and cars passing by on Station Street. The works were not audible and did not contribute to the noise level reading. The results recorded were above the predicted noise levels due to traffic. JHG works compliant.
2-10 Kosovich Cl, Cecil Park	01/03/2024	M7_NCA17	Attended	LAeq (15min)	55.5	57	Compliant	The dominant noise source was the traffic on the M7 Motorway with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
477-487 Wallgrove Road	01/03/2024	M7_NCA20	Attended	LAeq (15min)	71.6	64	Compliant	The dominant noise source was the traffic on the M7 Motorway with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
36 Sperring Avenue, Oakhurst	01/03/2024	M7_NCA31	Attended	LAeq (15min)	51.8	61	Compliant	The dominant noise source was the traffic on the M7 Motorway with trucks and cars driving during the whole monitoring period. The works were not audible and did not contribute to the noise level reading. JHG works compliant.
1 Duff Road, Cecil Park	05/03/2024	M12_NCA04	Attended	LAeq (15min)	55.5	50	Compliant	The dominant noise source was the traffic with trucks and cars driving during the whole monitoring period. The works were not audible and did not contribute to the noise level reading. The results recorded were above the predicted noise levels due to traffic. JHG works compliant.
158-164 Duff Road, Cecil Park	05/03/2024	M12_NCA04	Attended	LAeq (15min)	49.5	48	Compliant	The dominant noise source was the wildlife with dog barking during the whole monitoring period. The works were not audible and did not contribute to the noise level reading. The results recorded were above the predicted noise levels due to traffic. JHG works compliant.
37-39 Rosewood Avenue, Prestons	05/03/2024	M7_NCA07	Attended	LAeq (15min)	50.7	48	Compliant	The dominant noise source was the traffic on the M7 Motorway with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant
355-363 Wallgrove Road, Horsley Park	06/03/2024	M7_NCA20	Attended	LAeq (15min)	61.7	57	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant
178 Rooty Hill Rd, Horsley Park	07/03/2024	M7_NCA23	Attended	LAeq (15min)	52.3	47	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Rooty Hill Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant
233,243 Wallgrove Road, Cecil Park	08/03/2024	M7_NCA17	Attended	LAeq (15min)	62.4	61	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant

Environment Protection Licence Environment Monitoring Data



Location Description	Monitoring date	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
33 Isabel Place, Cecil Hills	08/03/2024	M7_NCA23	Attended	LAeq (15min)	51.2	56	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Rooty Hill Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	09/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	58.4	52	Compliant	The dominant noise source was the traffic and the works on the M7 Motorway with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
37-73 Wallgrove Road	09/03/2024	TfNSW_NCA17	Attended	LAeq (15min)	58.3	53	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant
17 Toulouse Street, Cecil Hills	12/03/2024	M7_NCA16	Attended	LAeq (15min)	56.7	44	Compliant	The dominant noise source was the traffic and the works on the M7 Motorway with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
23 Isabel Street, Cecil Hills	12/03/2024	TfNSW_NCA16b	Attended	LAeq (15min)	50.1	64	Compliant	The dominant noise source was the construction works. Works compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	12/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	62.2	51	Compliant	The dominant noise source was the traffic and the works on the M7 Motorway with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the measured noise level. JHG works compliant.
355-363 Wallgrove Road, Horsley Park	13/03/2024	M7_NCA20	Attended	LAeq (15min)	57.8	60	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant
763 Wallgrove Road, Horsley Park	13/03/2024	M7_NCA21	Attended	LAeq (15min)	71	40	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant
145 Eskdale St, Minchinbury	13/03/2024	M7_NCA21	Attended	LAeq (15min)	53.3	46	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. The results recorded were above the predicted noise levels due to the traffic. JHG works compliant.
18 Cecil Road, Cecil Park	13/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	58.1	50	Compliant	The dominant noise source was the works and the traffic on Elizabeth Drive with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	14/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	58.1	63	Compliant	The dominant noise source was the works and the traffic on Elizabeth Drive with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
23 Isabel Street, Cecil Hills	14/03/2024	TfNSW_NCA16b	Attended	LAeq (15min)	49.6	64	Compliant	The dominant noise source was the construction works. Works compliant with the PNL. JHG works compliant.
300-310 Chandos Road, Horsley Park	15/03/2024	M7_NCA21	Attended	LAeq (15min)	61.6	38	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the

Location Description	Monitoring date	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHV Compliance	Comments/Field Observations
								whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
185 Middleton Drive, Middleton Grange	15/03/2024	M7_NCA10	Attended	LAeq (15min)	50.7	69	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
35-73 Wallgrove Road, Cecil Park	15/03/2024	M7_NCA17	Attended	LAeq (15min)	68.6	58	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
185 Middleton Drive, Middleton Grange	15/03/2024	M7_NCA10	Attended	LAeq (15min)	57.6	68	Compliant	The dominant noise source was the traffic on the M7 Motorway and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
11 Mavis Street, Rooty Hills	16/03/2024	M7_NCA25	Attended	LAeq (15min)	47.6	63	Compliant	The dominant noise source was the traffic on the M7 Motorway and plane flying by the monitoring location as well as trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
22 Kosovich Place, Cecil Hills	18/03/2024	M7_NCA17	Attended	LAeq (15min)	48.1	75	Compliant	The dominant noise source was the traffic on the M7 Motorway, Elizabeth Drive and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant
33 Isabel Street, Cecil Park	18/03/2024	M12_NCA16b	Attended	LAeq (15min)	51.5	58	Compliant	The dominant noise source was the traffic on the M7 Motorway, Elizabeth Drive and local road (Wallgrove Road) with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant
145 Eskdale Street, Minchinbury	19/03/2024	M7_NCA23	Attended	LAeq (15min)	54.9	49	Compliant	The dominant noise source was the traffic on the M7 Motorway, with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	19/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	65.9	70	Compliant	The dominant noise source was the traffic on the M7 Motorway, with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
33 Isabel Street, Cecil Park	20/03/2024	M12_NCA16b	Attended	LAeq (15min)	45.9	67	Compliant	The dominant noise source was the traffic on the M7 Motorway, Elizabeth Drive with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
79 Dobroyd Drive, Elizabeth Hills	20/03/2024	M7_NCA13	Attended	LAeq (15min)	52.9	67	Compliant	The dominant noise source was the traffic on the M7 Motorway, Elizabeth Drive with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
18 Cecil Road, Cecil Park	21/03/2024	TfNSW_NCA35	Attended	LAeq (15min)	61.8	56	Compliant	The dominant noise source was the traffic on the Cecil Road and Elizabeth Drive, with trucks and cars driving during the whole

Location Description	Monitoring date	NCA	Attended or Continuous	Parameter	Measured value dB(A)	Goals and targets dB(A)	Project OOHW Compliance	Comments/Field Observations
								monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	21/03/2024	TfNSW_NCA3 5	Attended	LAeq (15min)	65.7	71	Compliant	The dominant noise source was the traffic on the M7 Motorway, with trucks and cars driving during the whole monitoring period. Works compliant with the PNL. JHG works compliant.
37-73 Wallgrove Road, Cecil Park	21/03/2024	M7_NCA17	Attended	LAeq (15min)	63.7	54	Compliant	The dominant noise source was the traffic on the M7 Motorway, with trucks and cars driving during the whole monitoring period. The works were inaudible and did not contribute to the noise level. JHG works compliant.
31 Pegasus Avenue, Hinchinbrook	22/03/2024	M7_NCA09	Attended	LAeq (15min)	16.1	52	Compliant	The dominant noise source was the traffic on Elizabeth Drive Works compliant with the PNL. JHG works compliant.
23 Isabel Street, Cecil Hills	26/03/2024	TfNSW_NCA1 6b	Attended	LAeq (15min)	51.7	68	Compliant	The dominant noise source was the construction works. Works compliant with the PNL. JHG works compliant.
1111-1114 Elizabeth Place, Cecil Park	27/03/2024	TfNSW_NCA3 5	Attended	LAeq (15min)	69.6	68	Compliant	The dominant noise source was the traffic on Elizabeth Drive. Works compliant with the PNL. JHG works compliant.

Note:

1. LAeq (15min) - The A-weighted equivalent continuous (energy average) A-weighted sound pressure level over a 15-minute period.
2. dBA - Decibels using the A-weighted scale measured according to the frequency of the human ear.

### **3.2 Vibration monitoring**

Vibration monitoring was undertaken during the reporting period in accordance with the requirements of the M7M12 Construction Noise and Vibration Monitoring Program (M712UDC-JHGRP-M7A-EN-PLN-000074).

All works were deemed compliant as they complied with applicable criteria and are detailed in Table 3-2.

Table 3-2 Vibration monitoring data

Monitoring Location	Monitoring Date/Period	Attended or Continuous Monitoring	Measured VDV (m/s <sup>1.75</sup> )	VDV Target (m/s <sup>1.75</sup> )	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant	Comments/ Field Observations
Shaft 3 EDC Area	1/03/2024-3/03/2024	Continuous	N/A	N/A	N/A	1.66	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	5/03/2024-7/03/2024	Continuous	N/A	N/A	N/A	7.42	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	15/03/2024-18/03/2024	Continuous	N/A	N/A	N/A	0.19	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	22/03/2024-29/03/2024	Continuous	N/A	N/A	N/A	2.06	10	Compliant	Works were monitored and found to be compliant with associated criteria.
Shaft 3 EDC Area	31/03/2024	Continuous	N/A	N/A	N/A	0.16	10	Compliant	Works were monitored and found to be compliant with associated criteria.
33 Isabel Street (NCA16b)	18/03/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
22 Kosovich Place (NCA17)	18/03/2024	Attended	N/A	N/A	N/A	0.22	20	Compliant	Works were monitored and found to be compliant with associated criteria.
6 Wilson Road, Hinchinbrook (NCA07)	22/03/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
6 Wilson Road, Hinchinbrook (NCA07)	26/03/2024	Attended	N/A	N/A	N/A	0.12	20	Compliant	Works were monitored and found to be compliant with associated criteria.
3 Burgandy Place, Cecil Hills (NCA16b)	27/03/2024	Attended	0.07	0.4	Compliant	N/A	N/A	N/A	Works were monitored and found to be compliant with associated criteria.

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3 Burgandy Place (NCA16b)	27/03/2024	Attended	0.07	0.4	Compliant	N/A	N/A	N/A	Works were monitored and found to be compliant with associated criteria.
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Note:

1. VDV – Vibration Dose Value
2. PPV – Peak Particle Velocity

## 4 Discharge Water Quality Monitoring

Offsite discharge occurred during March 2024 from Sediment Basin 01 (AF9) and Sediment Basin 02 (Tank Road).

All discharges were compliant with the requirements of the project EPL (#21829) and are outlined in Table 4-1.

Table 4-1 Sediment basin discharge monitoring data for March 2024

Location	Date	Analyte	Units	Limit	Result	Comments
Sediment Basin SB-02 (Tank Road)	12/03/2024	pH	pH	6.5-8.5	<b>8.29</b>	Compliant with discharge criteria.
		Turbidity	NTU	50	<b>28.8</b>	
		Oil and grease	Visible	Not visible	<b>Not visible</b>	
Sediment Basin SB-02 (Tank Road)	21/03/2024	pH	pH	6.5-8.5	<b>8.24</b>	Compliant with discharge criteria.
		Turbidity	NTU	50	<b>48.6</b>	
		Oil and grease	Visible	Not visible	<b>Not visible</b>	
Sediment Basin SB-01 (AF9)	26/03/2024	pH	pH	6.5-8.5	<b>7.62</b>	Compliant with discharge criteria.
		Turbidity	NTU	50	<b>25.3</b>	
		Oil and grease	Visible	Not visible	<b>Not visible</b>	