### DETAILS

**Location:** Bella Vista Station to Kellyville Station

<table>
<thead>
<tr>
<th>Month:</th>
<th>Year:</th>
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<tbody>
<tr>
<td>December</td>
<td>2018</td>
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### NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
- **Condition L3.2 - Noise limits Condition**
- **Condition L4.2 - Exemptions to standard working hours**
- **Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends**
- **Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights**
- **Condition L4.6 - Additional works agreed outside of standard construction hours**
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other Monitoring Conditions**

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Comments: No noise monitoring required for December 2018.

### WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
- **Condition L2 - Concentration Limits**
- **Condition M2 - Requirement to monitor concentration of pollutants discharged**

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Comments: No water monitoring required for December 2018.

### VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other monitoring conditions**

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
<th>Unit of measurement</th>
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</table>
No vibration monitoring required for December 2018.

**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

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<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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No air monitoring required for December 2018.

**CORRECTION LOG**

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No correction logs for December 2018.

**EXCEEDANCES**

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No exceedances for December 2018.
## DETAILS

**Location:** Bella Vista Station  
**Month:** December  
**Year:** 2018

## NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
- Condition L3.2 - Noise limits Condition
- Condition L4.2 - Exemptions to standard working hours
- Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
- Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
- Condition L4.6 - Additional works agreed outside of standard construction hours
- Condition M6.5 - Complaints
- Condition M7.1 - Other Monitoring Conditions

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<td>Attended</td>
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<td>Attended</td>
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<td>BV05</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>46.7</td>
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Comments:
- Standard Hours: Periodic monitoring took place on five (5) individual occasions at the following locations: BV01, BV02, BV03, BV04, BV05.
- The Leq was found to be within the specified noise limit at all locations during this monitoring period.
- It was noted that extraneous noise (traffic) was the dominate noise source 55 / 79dB.
- NRT construction noise was inaudible at the following monitoring locations: BV01, BV02, BV03, BV04.
- NRT construction noise was audible at BV05. Construction noise consisted of an excavator in operation 45 - 50dB.

## WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
- Condition L2 - Concentration Limits
- Condition M2 - Requirement to monitor concentration of pollutants discharged

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Comments:
- No water monitoring required for December 2018.
**VIBRATION MONITORING DATA**

Specific EPL licence monitoring conditions for vibration monitoring:

Condition M6.5 - Complaints
Condition M7.1 - Other monitoring conditions

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Comments

No vibration monitoring required for December 2018.

**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:

N/A

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Comments

No air monitoring required for December 2018.

**CORRECTION LOG**

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Comments

No correction logs required for December 2018.

**EXCEEDANCES**

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Comments

No exceedances for December 2018.

Submit
EPL No. 20544  EPL Monitoring Data
Project Sydney Metro Northwest OTS Works

DETAILS

Location: Castle Hill Station
Month: December
Year: 2018

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

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</thead>
<tbody>
<tr>
<td>CH01</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>71</td>
<td>71</td>
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<tr>
<td>CH02</td>
<td>1</td>
<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>72.9</td>
<td>72.9</td>
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Comments
Standard Hours: Periodic monitoring took place on two (2) individual occasions at the following locations: CH01, CH02. The Leq was found to be within the specified noise limit at all locations during this monitoring period. It was noted that extraneous noise (traffic) was the dominate noise source. NRT construction noise was audible at CH01. General construction noise could be heard 56/57dB. Extraneous noise (traffic) was the dominate noise source 60 / 85dB.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

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Comments
No water monitoring required for December 2018.

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints
## Condition M7.1 - Other monitoring conditions

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<tr>
<td>CH01</td>
<td>2</td>
<td>Yes</td>
<td>Peak Part</td>
<td>mm/s</td>
<td>0.8</td>
<td>1.09</td>
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**Comments**
Vibration monitoring was undertaken outside 329 Old Northern Rd, Castle Hill on 14/12/18. NRT construction activity consisted removing a headwall using an excavator with a hammer attachment. Distance between activity and receiver was 130meters. Vibration results outside the receiver were compliant with measurement of 0.8mm/s. Further vibration analysis was undertaken 10meters away from the activity. Results from this distance were recorded at 1.09mm/s.

## AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

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**Comments**
No air monitoring required for December 2018.

## CORRECTION LOG

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**Comments**
No correction logs for December 2018.

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**Comments**
No exceedances for December 2018.

Submit
NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
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<td>CN02</td>
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<td>Yes</td>
<td>Yes</td>
<td>Leq</td>
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<td>CN03</td>
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Comments
Standard Hours: Periodic monitoring took place on two (2) individual occasions at the following locations: CN02, CN03. The Leq was found to be within the specified noise limit at all locations during this monitoring period.
NRT construction noise was audible at all monitoring locations. Construction noise consisted of an Ausgrid truck 75dB, reversing quacker 52-56dB, machinery operating 52dB.
Extraneous noise consisted of traffic form the M2 54-56dB, birds calling 58 - 62dB

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

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Comments
No water monitoring required for December 2018.

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints
### Condition M7.1 - Other monitoring conditions

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**Comments**

No vibration monitoring required for December 2018.

### AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:

N/A

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**Comments**

No air monitoring required for December 2018.

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**Comments**

No correction logs for December 2018.

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**Comments**

No exceedances for December 2018.
EPL No. 20544

EPL Monitoring Data

Project: Sydney Metro Northwest OTS Works

EPL Weblink:

DETAILS

Location: Cherrybrook Station

Month: December

Year: 2018

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

Monitoring location | Number of times monitored during the month | Attended or continuous monitoring | Event based monitoring (Y/N) | Parameter eg. Laq (15min) | min value dB (A) for month | max value dB (A) for month | goals / targets dB(A)
--- | --- | --- | --- | --- | --- | --- | ---
CB01 | 1 | Attended | Yes | Leq | 66.4 | 66.4 | 75
CB02 | 1 | Attended | Yes | Leq | 47.7 | 47.7 | 75
CB03 | 1 | Attended | Yes | Leq | 69.0 | 69.0 | 75
CB04 | 1 | Attended | Yes | Leq | 70 | 70 | 75

Comments
Standard Hours: Periodic monitoring took place on four (4) individual occasions at the following locations: CB01,CB02,CB03,CB04. The Leq was found to be within the specified noise limit at all locations during this monitoring period.
NRT construction noise was inaudible at the following monitoring locations: CB03
NRT construction noise was audible and the dominate noise source at the following locations: CB02, CB01. Construction noise consisted of excavators operating 61dB, water cart 58dB, Street sweeper 80dB and general construction noise 49 / 53dB.
NRT construction work was audible at CB04. 60-61dB. Extraneous noise (traffic) was the dominate noise source 65-85dB at this monitoring location.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

Monitoring location | Number of times monitored during the month | Event based monitoring (Y/N) | Parameter measured | Units of measurement (mg/L, NTU, pH) | Minimum value for month | Maximum value for month | Allowable minimum limit | Allowable maximum limit
--- | --- | --- | --- | --- | --- | --- | --- | ---
CBA | 2 | Yes | pH | pH | 6.8 | 8.4 | 6.5 | 8.5
CBA | 2 | Yes | TSS | NTU | 30 | 30 | 0 | 50

Comments
Sediment basin CBA was discharged on the 4th and 19th December
EPL requirements were met prior to discharge.
## Vibration Monitoring Data

Specific EPL licence monitoring conditions for vibration monitoring:
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other monitoring conditions**

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
<th>Unit of measurement</th>
<th>Min Value</th>
<th>Max Value</th>
<th>Allowable Max</th>
<th>Percentile Limit (e.g. 90th) Percentile reporting period</th>
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</tbody>
</table>

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**Comments**

No vibration monitoring required for December 2018.

## Air Monitoring Data

Specific EPL licence monitoring conditions for air monitoring:

N/A

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
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</tbody>
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**Comments**

No air monitoring required for December 2018.

## Correction Log

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured (e.g. TSS, LAeq)</th>
<th>Unit (e.g. Mg/L)</th>
<th>Original result</th>
<th>Corrected Result</th>
<th>Date Corrected</th>
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</thead>
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Select... ✔

**Comments**

No correction logs for December 2018.

## Exceedances

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured (e.g. TSS, LAeq)</th>
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<th>Result</th>
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</tr>
</tbody>
</table>

Select... ✔  

**Comments**

No exceedances for December 2018.
EPL Monitoring Data

Location: Cudgegong Road Station to Rapid Transit Rail Facility

Month: December Year: 2018

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.3 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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<th>Event based monitoring (Y/N)</th>
<th>Parameter eg. Leq (15min)</th>
<th>min value dB(A) for month</th>
<th>max value dB(A) for month</th>
<th>goals / targets</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT05</td>
<td>1</td>
<td>Yes</td>
<td></td>
<td>38.8</td>
<td>38.2</td>
<td>75</td>
<td></td>
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</tr>
</tbody>
</table>

Comments
Standard Hours: Periodic monitoring took place on one (1) individual occasion at the following locations: RT05. The Leq was found to be within the specified noise limit at this location during this monitoring period. It was noted that extraneous noise (birds and insects) were the dominate noise source. NRT construction noise was inaudible during the monitoring period.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
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<tr>
<th>Monitoring location</th>
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<th>Event based monitoring (Y/N)</th>
<th>Parameter measured</th>
<th>Units of measurement (mg/L, NTU, pH)</th>
<th>Minimum value for month</th>
<th>Maximum value for month</th>
<th>Allowable minimum limit</th>
<th>Allowable maximum limit</th>
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</table>

Comments
No water monitoring required for December 2018.

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints
Condition M7.1 - Other monitoring conditions
AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
N/A

CORRECTION LOG

No correction logs required for December 2018.

EXCEEDANCES

No exceedances for December 2018.
NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

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<tr>
<td>CR05</td>
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<td>Attended</td>
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<td>50.3</td>
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<td>CR06</td>
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<tr>
<td>CUD05</td>
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<tr>
<td>CUD06</td>
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<td>Yes</td>
<td>Leq</td>
<td>47.6</td>
<td>47.6</td>
<td>75</td>
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</tbody>
</table>

Comments
Standard Hours: Periodic monitoring took place on eight (8) individual occasions at the following locations: CR03, CR04, CR05, CR06, CUD05, CUD06.
The Leq was found to be within the specified noise limit at all locations during this monitoring period.
It was noted that extraneous noise (traffic) was the dominate noise source at all monitoring locations.
NRT construction noise was inaudible at the following monitoring locations: CR05, CR06, CUD05, CUD06.
NRT construction noise was audible at the following locations: CR03, CR04. Construction noise consisted of an excavator operating 40db.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

Comments
### VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other monitoring conditions**

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</table>

No vibration monitoring required for December 2018.

### AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:
- **Condition M7.1 - Other monitoring conditions**

**N/A**

No air monitoring required for December 2018.

### CORRECTION LOG

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No correction logs required for December 2018.

### EXCEEDANCES

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No exceedances for December 2018.
EPL No. 20544  
Project: Sydney Metro Northwest OTS Works

EPL WebLink:  

Details:

Location: Epping Service Facility
Month: December  
Year: 2018

Noise Monitoring Data:
Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

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Comments:
No noise monitoring required for December 2018.

Water Monitoring Data:
Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

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Comments:
No water monitoring required for December 2018.

Vibration Monitoring Data:
Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints
Condition M7.1 - Other monitoring conditions

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</table>
**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

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**CORRECTION LOG**

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**EXCEEDANCES**

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**Comments**

No vibration monitoring required for December 2018.

No air monitoring required for December 2018.

No correction logs for December 2018.

No exceedances for December 2018.
**EPL No.**
20544

**EPL Monitoring Data**

**Project**
Sydney Metro Northwest OTS Works

**EPL Weblink:**

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**DETAILS**

<table>
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<tr>
<th>Location:</th>
<th>Month:</th>
<th>Year:</th>
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<tr>
<td>Epping to Chatswood Rail Link</td>
<td>December</td>
<td>2018</td>
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**NOISE MONITORING DATA**

Specific EPL licence monitoring conditions for noise monitoring:

- Condition L3.2 - Noise limits Condition
- Condition L4.2 - Exemptions to standard working hours
- Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
- Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
- Condition L4.6 - Additional works agreed outside of standard construction hours
- Condition M6.5 - Complaints
- Condition M7.1 - Other Monitoring Conditions

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<th>goals / targets dB(A)</th>
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<td>Attended</td>
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<td>EP03</td>
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<td>Attended</td>
<td>Yes</td>
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<td>47.3</td>
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<td>EP04</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>45.2</td>
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<td>EP05</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>57.1</td>
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<td>ECRL1</td>
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<td>55.7</td>
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<td>ECRL4</td>
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<td>Attended</td>
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<td>Leq</td>
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<td>53.6</td>
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<td>ECRL5</td>
<td>5</td>
<td>Attended</td>
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<td>ECRL6</td>
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<td>53.5</td>
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<td>ECRL10</td>
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<td>68.6</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>70.0</td>
<td>73.7</td>
<td>71</td>
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</tbody>
</table>

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Comments

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Out of Hours Work: Verification monitoring took place on 47 individual occasions at the following locations:
NRT construction noise was found to be within the specified noise limit at all locations during this monitoring period.
It was noted that extraneous noise (traffic) was the dominate noise source where the Leq exceeded the target dB level.
Mitigation measures were implemented and alternate accommodation was offered to affected residents where the target dB was 65dB or greater during NRT construction work.

NRT construction noise at EP02 was inaudible on all five (5) individual occasions.
Extraneous noise was present during the monitoring period predominately consisting of traffic 65/70dB and passing passenger/ freight trains 73 - 82dB.

NRT construction noise at EP03 was inaudible on all five (5) individual occasions.
Extraneous noise was the dominate noise source during the monitoring period, predominately consisting of traffic passing by on nearby roads 65/75dB.

NRT construction noise at EP04 was inaudible on all five (5) individual occasions.
Extraneous noise was audible during the monitoring period, predominately consisting of traffic passing by on nearby roads 40/68dB as well as trains 52 - 60dB.

NRT construction noise at EP05 was inaudible on all three (3) individual occasions.
Extraneous noise (traffic) was the dominate noise source 60 - 77dB.

NRT construction noise at ECRL1 was audible on two (2) occasion and inaudible on four (4) occasions.
Construction noise consisted of: reversing quackers 45dB, hum of machines 42 / 45dB, drilling intermittently 50/57dB, jackhammer intermittently 59/61dB. Extraneous noise was the dominate noise source during the monitoring period, consisting of: birds chirping 55 / 60dB, traffic from pacific highway 57/60dB.

NRT construction noise at ECRL4 was audible on three (3) occasion and inaudible on two (2) occasions.
Construction noise consisted of: reversing quackers 47/53dB, banging intermittently 47dB, hand tools 65dB.

NRT construction noise at ECRL5 was audible on all five (5) occasions.
Construction noise consisted of: reversing quackers and machinery operating 48 / 55dB, hand tools 52 / 55dB, mobile crane lifting load 54dB.

NRT construction noise at ECRL6 was audible - traffic passing on nearby road 50/60dB, birds calling 48/55dB.

NRT construction noise at ECRL7 was audible on one (1) occasion and inaudible on three (3) occasions.
Construction noise consisted of excavator operating 55 / 60dB.

NRT construction noise at ECRL10 was audible on three (3) occasions and inaudible on one (1) occasion.
Construction noise consisted of: plant idle 54/58dB, reversing quacker 55dB

NRT construction noise at ECRL11 was inaudible on all five (5) individual occasions.
Extraneous noise was the dominate noise source (traffic) 55/95dB.

NRT construction noise was inaudible on all five (5) individual occasions.
Extraneous noise was the dominate noise source (traffic) 55/95dB.

No water monitoring required for December 2018.
**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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**CORRECTION LOG**

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<th>Type of monitoring (noise, water etc)</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured (eg TSS, LAeq)</th>
<th>Unit (eg Mg/L)</th>
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**EXCEEDANCES**

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<th>Type of monitoring (noise, water etc)</th>
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<th>Unit (eg Mg/L)</th>
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<th>Commentary</th>
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</tbody>
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No vibration monitoring required for December 2018.

No air monitoring required for December 2018.

No correction logs for December 2018.

No exceedances for December 2018.

Submit
**EPL No.** 20544  
**Project** Sydney Metro Northwest OTS Works  
**EPL Weblink:**  

### DETAILS

<table>
<thead>
<tr>
<th>Location:</th>
<th>Month:</th>
<th>Year:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kellyville Station to Rouse Hill Station</td>
<td>December</td>
<td>2018</td>
</tr>
</tbody>
</table>

### NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
- Condition L3.2 - Noise limits Condition
- Condition L4.2 - Exemptions to standard working hours
- Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
- Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
- Condition L4.6 - Additional works agreed outside of standard construction hours
- Condition M6.5 - Complaints
- Condition M7.1 - Other Monitoring Conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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<th>Event based monitoring (Y/N)</th>
<th>Parameter eg. Laq (15min)</th>
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<th>max value dB (A) for month</th>
<th>goals / targets dB(A)</th>
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<td>Y</td>
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<td>44.4</td>
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**Comments**

Standard Hours: Periodic monitoring took place on one (1) individual occasions at RSH03. The Leq was found to be within the specified noise limit at this location during the monitoring period.

NRT construction noise was inaudible. It was noted that extraneous noise (traffic) was the dominate noise source.

### WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
- Condition L2 - Concentration Limits
- Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter measured</th>
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<th>Minimum value for month</th>
<th>Maximum value for month</th>
<th>Allowable minimum limit</th>
<th>Allowable maximum limit</th>
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</table>

**Comments**

No water monitoring required for December 2018.

### VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
- Condition M6.5 - Complaints
- Condition M7.1 - Other monitoring conditions

---

No vibration monitoring required for December 2018.

**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

<table>
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<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
<th>Unit of measurement</th>
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<th>Max Value</th>
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<th>Allowable Max Percentile</th>
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<th>Percentile reporting period</th>
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No air monitoring required for December 2018.

**CORRECTION LOG**

No correction logs for December 2018.

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured (eg TSS, LAEq)</th>
<th>Unit (eg Mg/L)</th>
<th>Original result</th>
<th>Corrected Result</th>
<th>Date Corrected</th>
<th>Reasoning</th>
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No exceedances for December 2018.
EPL No. 20544  
**EPL Monitoring Data**

**Project**  
Sydney Metro Northwest OTS Works

**EPL Weblink:**  

## DETAILS

<table>
<thead>
<tr>
<th>Location:</th>
<th>Month:</th>
<th>Year:</th>
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</thead>
<tbody>
<tr>
<td>Kellyville Station</td>
<td>December</td>
<td>2018</td>
</tr>
</tbody>
</table>

## NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
- Condition L3.2 - Noise limits Condition
- Condition L4.2 - Exemptions to standard working hours
- Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
- Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
- Condition L4.6 - Additional works agreed outside of standard construction hours
- Condition M6.5 - Complaints
- Condition M7.1 - Other Monitoring Conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Attended or continuous monitoring</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter eg.</th>
<th>min value dB (A) for month</th>
<th>max value dB (A) for month</th>
<th>goals / targets dB(A)</th>
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<tbody>
<tr>
<td>KVE01</td>
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<td>Attended</td>
<td>Yes</td>
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<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
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<td>46.1</td>
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<tr>
<td>KVE03</td>
<td>1</td>
<td>Attended</td>
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<td>Leq</td>
<td>43.5</td>
<td>43.5</td>
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<tr>
<td>KVE04</td>
<td>1</td>
<td>Attended</td>
<td>Yes</td>
<td>Leq</td>
<td>46.2</td>
<td>46.2</td>
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<tr>
<td>KVE05</td>
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<td>KVE07</td>
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<td>Yes</td>
<td>Leq</td>
<td>40.1</td>
<td>40.1</td>
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</table>

Comments:
Standard Hours: Periodic monitoring took place on six (6) individual occasions at the following locations: KVE01, KVE02, KVE03, KVE04, KVE05, KVE07.
The Leq was found to be within the specified noise limit at all locations during this monitoring period.
NRT construction noise was inaudible at all monitoring locations during this period. It was noted that extraneous noise (traffic) was the dominate noise source.

## WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
- Condition L2 - Concentration Limits
- Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter measured</th>
<th>Units of measurement (mg/L, NTU, pH)</th>
<th>Minimum value for month</th>
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<td>KVL-D</td>
<td>1</td>
<td>Yes</td>
<td>pH</td>
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Comments:

Sediment basin KVL-D was discharged on the 10th December 2018. EPL requirements met prior to discharge.

**VIBRATION MONITORING DATA**

Specific EPL licence monitoring conditions for vibration monitoring:
- Condition M6.5 - Complaints
- Condition M7.1 - Other monitoring conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
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<th>Allowable Max</th>
<th>Percentile Limit (eg 90th)</th>
<th>Percentile reporting period</th>
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**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
<th>Unit of measurement</th>
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**CORRECTION LOG**

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
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Insert item
Comments
No correction logs for December 2018.

**EXCEEDANCES**

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
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Insert item
Comments
No exceedances for December 2018.
EPL No. 20544  
Project Sydney Metro Northwest OTS Works  

**DETAILS**

<table>
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<th>Month:</th>
<th>Year:</th>
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<td>Norwest Station</td>
<td>December</td>
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**NOISE MONITORING DATA**

Specific EPL licence monitoring conditions for noise monitoring:
- Condition L3.2 - Noise limits Condition
- Condition L4.2 - Exemptions to standard working hours
- Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
- Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
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- Condition M6.5 - Complaints
- Condition M7.1 - Other Monitoring Conditions

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<th>goals / targets dB(A)</th>
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<td>NW04</td>
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<td>Leq</td>
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Comments
Standard Hours: Periodic monitoring took place on three (3) individual occasions at the following locations: NW OSR, NW03, NW04. The Leq was found to be within the specified noise limit at all locations during this monitoring period. NRT construction noise was inaudible at all monitoring locations. It was noted that extraneous noise (traffic) was the dominate noise source.

**WATER MONITORING DATA**

Specific EPL licence monitoring conditions for water monitoring:
- Condition L2 - Concentration Limits
- Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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<th>Parameter measured</th>
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<td>NW03</td>
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<td>NW04</td>
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Comments
No water monitoring required for December 2018.

**VIBRATION MONITORING DATA**

Specific EPL licence monitoring conditions for vibration monitoring:

- NW OSR 66.0 75
- NW03 70.1 75
- NW04 68.6 75
### Condition M6.5 - Complaints

### Condition M7.1 - Other monitoring conditions

<table>
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<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
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**Select...**  
**Select...**  
**Select...**

**Comments**

No vibration monitoring required for December 2018.

### AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring: N/A

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<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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**Select...**  
**Select...**  
**Select...**

**Comments**

No air monitoring required for December 2018.

### CORRECTION LOG

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
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<th>Parameter Measured (eg TSS, LAEq))</th>
<th>Unit (eg Mg/L)</th>
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**Comments**

No correction logs for December 2018.

### EXCEEDANCES

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
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<th>Type of monitoring (noise, water etc)</th>
<th>Event based monitoring (Y/N)</th>
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**Comments**

No exceedances for December 2018.

Submit
EPL Monitoring Data

Project: Sydney Metro Northwest OTS Works

EPL No.: 20544


DETAILS

Location: Rapid Transit Rail Facility

Month: December Year: 2018

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights
Condition L4.6 - Additional works agreed outside of standard construction hours
Condition M6.5 - Complaints
Condition M7.1 - Other Monitoring Conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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<th>goals / targets dB(A)</th>
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<tr>
<td>RT01</td>
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<td>RT02</td>
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<td>Leq</td>
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<tr>
<td>RT03</td>
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<td>Yes</td>
<td>Leq</td>
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<tr>
<td>RT04</td>
<td>1</td>
<td>Yes</td>
<td>Leq</td>
<td>54.6</td>
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<tr>
<td>RT05</td>
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<td>Yes</td>
<td>Leq</td>
<td>42.5</td>
<td>42.5</td>
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</tr>
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</table>

Comments
Standard Hours: Periodic monitoring took place on five (5) individual occasions at the following locations: RT01, RT02, RT03, RT04, RT05. The Leq was found to be within the specified noise limit at all locations during this monitoring period. It was noted that extraneous noise (traffic) was the dominate noise source. NRT construction noise was inaudible at all locations during the monitoring period.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter measured</th>
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<th>Minimum value for month</th>
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<th>Allowable minimum limit</th>
<th>Allowable maximum limit</th>
</tr>
</thead>
</table>

Comments
No water monitoring required for December 2018.
**VIBRATION MONITORING DATA**

Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints
Condition M7.1 - Other monitoring conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
<th>Unit of measurement</th>
<th>Min Value</th>
<th>Max Value</th>
<th>Allowable Max</th>
<th>Percentile Limit (eg 90th)</th>
<th>Percentile reporting period</th>
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Comments
No vibration monitoring required for December 2018.

**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

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<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter Measured</th>
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Comments
No air monitoring required for December 2018.

**CORRECTION LOG**

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
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<th>Date Corrected</th>
<th>Reasoning</th>
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<tr>
<td>No</td>
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Comments
No correction logs for December 2018.

**EXCEEDANCES**

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
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<th>Type of monitoring (noise, water etc)</th>
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</tbody>
</table>

Comments
No exceedances for December 2018.

Submit
EPL No. 20544  
Project: Sydney Metro Northwest OTS Works  
EPL Weblink:  

DETAILS

Location:  
Rouse Hill Station to Cudgegong Road Station  
Month: December  
Year: 2018

NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition  
Condition L4.2 - Exemptions to standard working hours  
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends  
Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights  
Condition L4.6 - Additional works agreed outside of standard construction hours  
Condition M6.5 - Complaints  
Condition M7.1 - Other Monitoring Conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
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Comments  
No noise monitoring required for December 2018.

WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits  
Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Number of times monitored during the month</th>
<th>Event based monitoring (Y/N)</th>
<th>Parameter measured</th>
<th>Units of measurement (mg/L, NTU, pH)</th>
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Comments  
No water monitoring required for December 2018.

VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
Condition M6.5 - Complaints  
Condition M7.1 - Other monitoring conditions

<table>
<thead>
<tr>
<th>Monitoring location</th>
<th>Event based monitoring (Y/N)</th>
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</table>
No vibration monitoring required for December 2018.

### AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:

<table>
<thead>
<tr>
<th>Monitoring location</th>
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</table>

Comments: No air monitoring required for December 2018.

### CORRECTION LOG

No correction logs for December 2018.

### EXCEEDANCES

No exceedances for December 2018.
**EPL Monitoring Data**

**Project:** Sydney Metro Northwest OTS Works

**EPL Weblink:**

### DETAILS

<table>
<thead>
<tr>
<th>Location:</th>
<th>Month:</th>
<th>Year:</th>
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</thead>
<tbody>
<tr>
<td>Rouse Hill Station</td>
<td>December</td>
<td>2018</td>
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</table>

### NOISE MONITORING DATA

Specific EPL licence monitoring conditions for noise monitoring:
- **Condition L3.2 - Noise limits Condition**
- **Condition L4.2 - Exemptions to standard working hours**
- **Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends**
- **Condition L4.5 - Works Approved Outside of Standard Construction Hours - Weekday evenings and nights**
- **Condition L4.6 - Additional works agreed outside of standard construction hours**
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other Monitoring Conditions**

<table>
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<tr>
<th>Monitoring location</th>
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Comments
No noise monitoring required for December 2018.

### WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:
- **Condition L2 - Concentration Limits**
- **Condition M2 - Requirement to monitor concentration of pollutants discharged**

<table>
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Comments
No water monitoring required for December 2018.

### VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:
- **Condition M6.5 - Complaints**
- **Condition M7.1 - Other monitoring conditions**

<table>
<thead>
<tr>
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**AIR MONITORING DATA**

Specific EPL licence monitoring conditions for air monitoring:
N/A

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No air monitoring required for December 2018.

**CORRECTION LOG**

No correction logs required for December 2018.

**EXCEEDANCES**

No exceedances for December 2018.
EPL No. 20544  
**EPL Monitoring Data**  
Project: Sydney Metro Northwest OTS Works  

**DETAILS**

<table>
<thead>
<tr>
<th>Location</th>
<th>Month</th>
<th>Year</th>
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<tbody>
<tr>
<td>Showground Station</td>
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</tbody>
</table>

**NOISE MONITORING DATA**

Specific EPL licence monitoring conditions for noise monitoring:
Condition L3.2 - Noise limits Condition
Condition L4.2 - Exemptions to standard working hours
Condition L4.4 - Works Approved Outside of Standard Construction Hours – Weekends
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Condition M7.1 - Other Monitoring Conditions

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<tr>
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<td>SG02 OOH</td>
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<td>v</td>
<td>Leq</td>
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**WATER MONITORING DATA**

Specific EPL licence monitoring conditions for water monitoring:
Condition L2 - Concentration Limits
Condition M2 - Requirement to monitor concentration of pollutants discharged

<table>
<thead>
<tr>
<th>Monitoring location</th>
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</tr>
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<tbody>
<tr>
<td>SGB</td>
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<td>v</td>
<td>pH</td>
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### WATER MONITORING DATA

Specific EPL licence monitoring conditions for water monitoring:

**Condition L2 - Concentration Limits**

**Condition M2 - Requirement to monitor concentration of pollutants discharged**

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<td>SGB</td>
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**Comments**

Sediment basin SGB was discharged on the 11th and 20th December 2018. EPL requirements met prior to discharge.

### VIBRATION MONITORING DATA

Specific EPL licence monitoring conditions for vibration monitoring:

**Condition M6.5 - Complaints**

**Condition M7.1 - Other monitoring conditions**

**Comments**

No vibration monitoring required for December 2018.

### AIR MONITORING DATA

Specific EPL licence monitoring conditions for air monitoring:

N/A

**Comments**

No air monitoring required for December 2018.

### CORRECTION LOG

<table>
<thead>
<tr>
<th>Sample Date and Time</th>
<th>Monitoring location</th>
<th>Type of monitoring (noise, water etc)</th>
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**Comments**

No correction logs for December 2018.

### EXCEEDANCES

SGB 2 40 50 0 50

Sediment basin SGB was discharged on the 11th and 20th December 2018. EPL requirements met prior to discharge.
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Comments
No exceedances for December 2018.

Submit