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NOISE MONITORING MONTHLY MONITORING REPORT – SUMMARY

CARNWATH ROAD RIVERSIDE (CARRR)

OCTOBER 2017

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List of contents

1	Executive summary	2
2	Noise Monitoring Locations	3
2.1	Introduction	3
2.2	Noise Monitoring location, North of Site Noise Monitor CARRR/NMS/01	4
2.3	Noise Monitoring location, West of Site, Noise Monitor CARRR/NMS/02.....	6
2.4	Noise Monitoring location, East of Site Noise Monitor CARRR/NMS/03.....	8

1 Executive summary

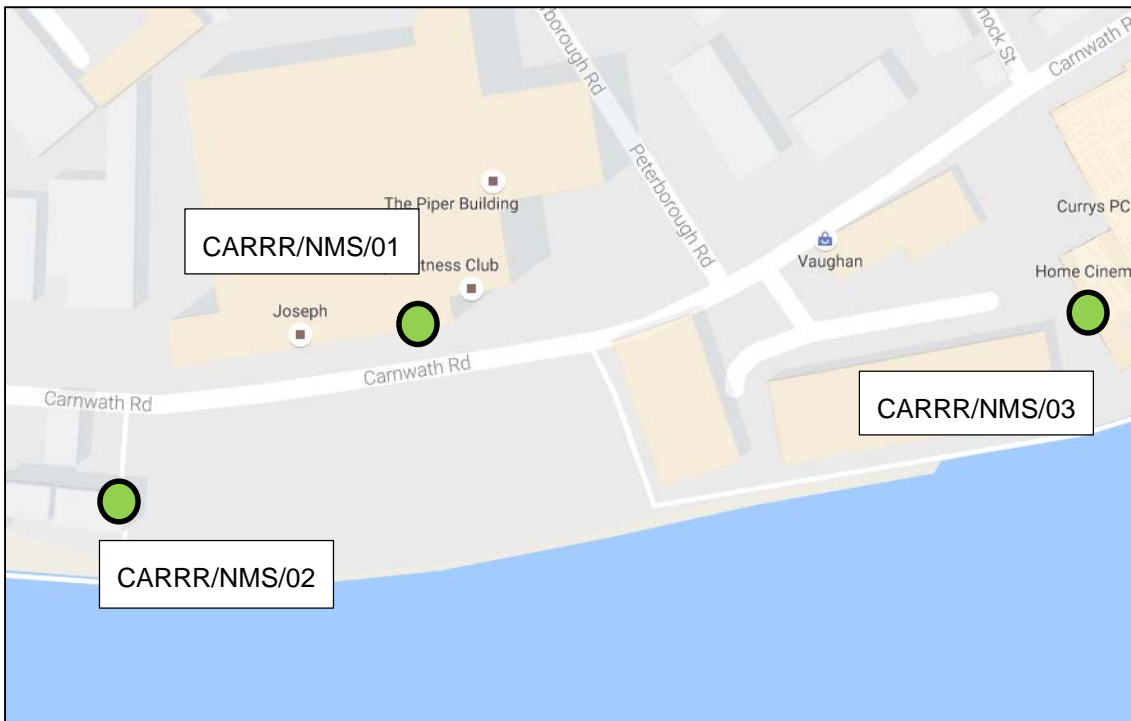
- 1.1.1 This report provides a summary of the monthly noise monitoring carried out during October 2017, at the Carnwath Road Riverside construction site.
- 1.1.2 The report covers the noise and vibration monitoring period between 07:00 hrs on the 1st October 2017 and 07:00 hrs on the 1st November 2017.
- 1.1.3 Some periods of noise monitoring data were excluded due to adverse weather conditions, i.e. high levels of wind and rain.
- 1.1.4 There was 1 exceedance of the construction thresholds during this month.
- 1.1.5 Work taking place on-site during the month of October consisted of River wall piling/ river wall strengthening, TBM preparation, acoustic shed construction and welfare installation.


2 Noise Monitoring Locations

2.1 Introduction

- 2.1.1 The monthly noise monitoring report presents continuous monitoring data undertaken at the monitoring locations detailed below around the Carnwath Road Riverside construction site.
- 2.1.2 The first noise monitor is located to the north of the site (CARRR/NMS/01), the second to the west (CARRR/NMS/02), and the third to the east (CARRR/NMS/03). A plan identifying the locations of all monitoring equipment is presented within Figure 2.1 below.

Figure 2.1 Carnwath Road Noise Monitoring Locations



Key	
	Unattended Noise Monitor

ID	Monitoring Location
-	CARRR/NMS/01
-	CARRR/NMS/02
-	CARRR/NMS/03

2.2 Noise Monitoring location, North of Site Noise Monitor CARRR/NMS/01

2.2.1 The noise monitor is installed on a lamppost to the north of the site approximately 4.1 m above local ground level, in a free-field position.

2.2.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road Traffic on Carnwath Road

2.2.3 Details of the monitoring equipment are presented within Table 2.1 below.

Table 2.1 – Equipment Details CARRR/NM/1

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464685

Results

2.2.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.2 below.

2.2.5 There was 1 exceedance of the construction noise thresholds at this monitoring location during this month. The works occurring were River wall piling (vibratory hammer)/ river wall strengthening, TBM preparation, acoustic shed construction and welfare installation. It is important to highlight that Carnwath road is a busy road and that traffic along with the temporary traffic lights installed would also contribute to the noise levels. However the dominant noise during the exceedance period was the vibratory piling.

2.2.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.2 Monthly Noise Monitoring Summary

Table A.1 North Monitor – CARRR/NMS/01

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	69	87	-	-
	8am-6pm	10 hour	72	-	-	-
	6pm-7pm	1 hour	65	87	-	-
	7pm-10pm	1 hour	65	87	-	-
	Typical hourly level (day)	Mode	69	-	-	-
Saturday	7am-8am	1 hour	66	87	-	-
	8am-1pm	5 hour	70	-	-	-
	1pm-2pm	1 hour	69	86	-	-
	2pm-10pm	1 hour	67	88	-	-
	Typical hourly level (Saturday)	Mode	70**	-	-	-
Sunday	7am-10 pm	1 hour	66	87	-	-
	Typical hourly level (Sunday)	Mode	67	-	-	-
All days	10pm-7am	1 hour	59	81	-	-
	Typical hourly level (night)	Mode	58	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead

2.3 Noise Monitoring location, West of Site, Noise Monitor CARRR/NMS/02

2.3.1 The noise monitor is installed on a lamppost to the west of the site approximately 4.9 m above local ground level, approximately 3.6 m from the nearest facade, in a free-field position.

2.3.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road traffic on Carnwath Road
- b. Localised industrial noise

2.3.3 Details of the monitoring equipment are presented within Table 2.3 below.

Table 2.3 – Equipment Details CARRR/NM/2

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464686

Results

2.3.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.4 below.

2.3.5 There were no exceedances of the construction noise thresholds at this monitoring location during this month.

2.3.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.4 Monthly Noise Monitoring Summary

Table A.2 West Monitor – CARRR/NMS/02

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	60	77	-	-
	8am-6pm	10 hour	71	-	-	-
	6pm-7pm	1 hour	57	77	-	-
	7pm-10pm	1 hour	57	77	-	-
	Typical hourly level (day)	Mode	71	-	-	-
Saturday	7am-8am	1 hour	59	76	-	-
	8am-1pm	5 hour	69	-	-	-
	1pm-2pm	1 hour	60	78	-	-
	2pm-10pm	1 hour	58	78	-	-
	Typical hourly level (Saturday)	Mode	69**	-	-	-
Sunday	7am-10 pm	1 hour	58	77	-	-
	Typical hourly level (Sunday)	Mode	60	-	-	-
All days	10pm-7am	1 hour	50	68	-	-
	Typical hourly level (night)	Mode	48	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead

2.4 Noise Monitoring location, East of Site Noise Monitor CARRR/NMS/03

2.4.1 The noise monitor is installed on a lamppost to the east of the site approximately 4.9 m above local ground level in a free-field position.

2.4.2 Existing ambient noise levels in the vicinity of the monitor was generally composed of the following sources:

- a. Road traffic on Carnwath Road

2.4.3 Details of the monitoring equipment are presented within Table 2.5 below.

Table 2.5 – Equipment Details CARRR/NM/3

Equipment	Make & Model	Serial Number
Sound Level Meter	Rion NL-52	00464687

Results

2.4.4 A summary of measured noise levels over the reporting period including the typical (mode) hourly level for weekdays, Saturday, Sunday and night-time are presented in Table 2.6 below.

2.4.5 There were no exceedances of the construction noise thresholds at this monitoring location during this month.

2.4.6 L_{A01} and L_{A90} parameters have not been presented as works outside of core hours have not been undertaken.

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Table 2.6 Monthly Noise Monitoring Summary

Day	Time	Averaging period	L _{Aeq,T} dB	L _{Amax} , dB	L _{A01} dB	L _{A90} dB
Monday to Friday	7am-8am	1 hour	59	78	-	-
	8am-6pm	10 hour	65	-	-	-
	6pm-7pm	1 hour	58	78	-	-
	7pm-10pm	1 hour	58	78	-	-
	Typical hourly level (day)	Mode	62	-	-	-
Saturday	7am-8am	1 hour	59	76	-	-
	8am-1pm	5 hour	63	-	-	-
	1pm-2pm	1 hour	61	78	-	-
	2pm-10pm	1 hour	58	77	-	-
	Typical hourly level (Saturday)	Mode	63**	-	-	-
Sunday	7am-10 pm	1 hour	59	80	-	-
	Typical hourly level (Sunday)	Mode	60	-	-	-
All days	10pm-7am	1 hour	51	68	-	-
	Typical hourly level (night)	Mode	49	-	-	-

* Denotes a range featuring two or more modal values where mean average has been used instead

** Denotes a range in which all values are unique where mean average has been used instead