



# ENVIRONMENTAL STATEMENT: 6.3 APPENDIX 6-6: CONSTRUCTION NOISE

DECARBONISATION

## Cory Decarbonisation Project

PINS Reference: EN010128

March 2024

Revision A

## APPENDIX 6-6: CONSTRUCTION NOISE

### CONSTRUCTION PLANT MACHINERY

**Table 1** to **Table 6** identifies the assumed plant and machinery that will be used during each phase of construction and demolition activities.

**Table 1: Belvedere Power Station Jetty (disused) Demolition**

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
Large excavator mounted breaker <sup>^</sup>	1	82	Table C.5, ref 3	20
Handheld circular saw	1	91	Table C.4, ref 70	15
Crane (barge mounted / land-based)	1	84	Table C.3, ref 28	20
Diamond wire saw	1	78*	Modern Concrete Drill Cut Co., Ltd.	15
Tracked excavator loading dump truck	1	85	Table C.1, ref 10	20
Piling rig	1	88	Table C.3, ref 8	20
<b>Note:</b>				
^ Mobile plant.				
*Quoted 76-81dB at 7m (higher figure used).				

**Table 2: Proposed Jetty Construction (including capital dredging)**

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
17t Scraper <sup>^</sup>	1	90	Table D.9, ref 12	60
28t Dozer <sup>^</sup>	2	79	Table C.2, ref 11	80
44t Tracked excavator <sup>^</sup>	2	82	Table C.1, ref 12	80
4t Vibratory roller <sup>^</sup>	1	74	Table C.2, ref 38	60
50t mobile telescopic crane <sup>^</sup>	1	67	Table C.4, ref 46	20
Diesel water pump	2	68	Table C.4, ref 88	20

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
Pulverizer mounted on excavator (rock breaker)	2	76	Table C.1, ref 4	60
Tracked semi-mobile crusher^	1	90	Table C.9, ref 14	20
Dredging - Nordic Giant (backhoe dredger)	1	88	Intersona (measured)	20
Piling rig	1	88	Table. C.3, ref 8	20
Crane (barge mounted / land-based)	2	84	Table. D.7, ref 104	20
<b>Note:</b> ^ Mobile plant.				

**Table 3: Site Establishment (Proposed Scheme)**

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
Large excavator mounted breaker^	1	82	Table C.5, ref 3	20
44t Tracked excavator^	1	82	Table C.1, ref 12	80
Handheld circular saw	1	91	Table C.4, ref 70	15
Dozer^	1	75	Table C.2, ref 1	25
Vibratory roller	1	75	Table C.5, ref 20	30
Lorry (unloading)^	1	80	Table C.2, ref 34	40
Road sweeper^	1	76	Table C.4, ref 90	5
<b>Note:</b> ^ Mobile plant.				

**Table 4: Substructure and Superstructure (Carbon Capture Facility)**

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
Concrete mixer truck <sup>^</sup>	2	75	Table C.4, ref 18	25
Small breaker (handheld)	1	86	Table C.5, ref 4	20
Compressor	1	65	Table C.5, ref 5	70
Lorry (unloading) <sup>^</sup>	2	80	Table C.2, ref 34	40
Handheld circular saw	1	91	Table C.4, ref 70	40
Tracked excavator <sup>^</sup>	2	82	Table C.1, ref 12	80
Dumper trucks <sup>^</sup>	2	78	Table C.4, ref 2	30
Poker vibrator	2	69	Table C.4, ref 34	40
Mobile crane <sup>^</sup>	1	70	Table C.4, ref 30	100
Telescopic fork lift <sup>^</sup>	1	88	Table D.7, ref 94	80
Hand tool (hammers)	8	69	Table C.1, ref 19	80
MEWP - cherry picker	2	67	Table C.4, ref 57	60
Lorry mounted concrete pump	1	67	Table C.4, ref 24	70
Piling rig	1	88	Table. C.3, ref 8	20
<b>Note:</b> <sup>^</sup> Mobile plant.				

**Table 5: Excavation (Utilities Connections and Site Access Works)**

Plant Item	Number	Sound Pressure Level, $L_{PA}$ at 10m (dB)	Data Source (BS5228 Unless Otherwise Stated)	On-time (%)
Tracked excavator 14t <sup>^</sup>	1	70	Table C.2, ref 7	80
Wheeled backhoe loader 8t <sup>^</sup>	1	68	Table C.2, ref 8	80
Hydraulic vibratory compactor (tracked excavator) <sup>^</sup>	1	78	Table C.2, ref 42	50
Dozer 11t <sup>^</sup>	1	78	Table C.2, ref 13	80
Lorry <sup>^</sup>	1	80	Table C.2, ref 34	20
<b>Note:</b> <sup>^</sup> Mobile plant.				

**Table 6: Pavement Works (Utilities Connection and Access)**

<b>Plant Item</b>	<b>Number</b>	<b>Sound Pressure Level, <math>L_{PA}</math> at 10m (dB)</b>	<b>Data Source (BS5228 Unless Otherwise Stated)</b>	<b>On-time (%)</b>
Road planer^	1	82	Table C.5, ref 7	75
Dozer - spreading chip and fill^	1	77	Table C.5, ref 12	50
Vibratory roller^	1	75	Table C.5, ref 20	60
Asphalt paver and tipper lorry^	1	75	Table C.5, ref 30	40
Vibratory compactor^	1	82	Table C.5, ref 29	60
Lorry^	1	80	Table C.2, ref 34	20
<b>Note:</b> ^ Mobile plant.				



## DECARBONISATION

10 Dominion Street  
Floor 5  
Moorgate, London  
EC2M 2EF  
Contact Tel: 020 7417 5200  
Email: [enquiries@corygroup.co.uk](mailto:enquiries@corygroup.co.uk)  
**[corygroup.co.uk](http://corygroup.co.uk)**