

**A66 Northern Trans-Pennine Project
TR010062**

**3.4 Environmental Statement
Appendix 11.3 Excavation Waste
Estimates**

APFP Regulations 5(2)(a)

Planning Act 2008

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**3.4 ENVIRONMENTAL STATEMENT
APPENDIX 11.3 EXCAVATION WASTE ESTIMATES**

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11.3 Excavation Waste Estimates

11.3.1 Introduction

11.3.1.1 This Appendix 11.3: Excavation Waste Estimates sets out the excavation waste estimates.

11.3.1.2 The earthworks estimations are set out in

11.3.1.3 Table 1: Earthworks estimate

11.3.1.4 The earthworks estimations have been provided in volume (cubic metres), therefore they have been converted to mass (tonnes) using the Environment Agency conversion factor identified in the High Speed Rail ES (High Speed Rail London to West Midlands, 2015) of 1.5 tonnes per cubic metre used for inert materials

11.3.1.5 The topsoil estimations are set out in Table 2: Topsoil estimate have been provided in volume (cubic metres) and have therefore been converted to mass (tonnes) using the Environment Agency conversion factor of 1.5 tonnes per cubic metre used for inert materials.

Table 1: Earthworks estimate

Scheme	Usable Cut (m ³)	Fill (m ³)	Earthworks Balance (m ³)	Unsuitable Materials (m ³)	Scheme Balance (m ³)	Usable Cut (tonnes)	Fill (tonnes)	Earthworks Balance (tonnes)	Unsuitable Materials (tonnes)	Scheme Balance (tonnes)
M6 Junction 40 to Kemplay Bank	179,500	104,600	74,900	14,500	89,400	269,250	156,900	112,350	21,750	134,100
Penrith to Temple Sowerby	214,500	464,000	-249,500	19,000	-230,500	321,750	696,000	-374,250	28,500	-345,750
Temple Sowerby to Appleby	1,530,500	1,475,000	55,500	124,000	179,500	2,295,750	2,212,500	83,250	186,000	269,250
Appleby to Brough	1,044,000	602,500	441,500	85,000	526,500	1,566,000	903,750	662,250	127,500	789,750

Scheme	Usable Cut (m ³)	Fill (m ³)	Earthworks Balance (m ³)	Unsuitable Materials (m ³)	Scheme Balance (m ³)	Usable Cut (tonnes)	Fill (tonnes)	Earthworks Balance (tonnes)	Unsuitable Materials (tonnes)	Scheme Balance (tonnes)
Bowes Bypass	95,400	172,000	-76,600	9,700	-66,900	143,100	258,000	-114,900	14,550	-100,350
Cross Lanes to Rokeby	108,500	250,000	-141,500	11,000	-130,500	162,750	375,000	-212,250	16,500	-195,750
Stephen Bank to Carkin Moor	549,500	415,600	133,900	45,000	178,900	824,250	623,400	200,850	67,500	268,350
A1(M) Junction 53 Scotch Corner	0	0	0	0	0	0	0	0	0	0
Project wide	3,721,900	3,483,700	238,200	308,200	546,400	5,582,850	5,225,550	357,300	462,300	819,600

Table 2: Topsoil estimate

Scheme	Excavated Total Topsoil (m ³)	Placed Total Topsoil Fill (m ³)	Topsoil (Surplus) (m ³)	Excavated Total Topsoil (tonnes)	Placed Total Topsoil Fill (tonnes)	Topsoil (Surplus) (tonnes)
M6 Junction 40 to Kemplay Bank	44,100	11,800	32,300	66,150	17,700	48,450
Penrith to Temple Sowerby	146,000	39,300	106,700	219,000	58,950	160,050
Temple Sowerby to Appleby	350,500	96,800	253,700	525,750	145,200	380,550
Appleby to Brough	233,500	48,300	185,200	350,250	72,450	277,800
Bowes Bypass	78,900	13,200	65,700	118,350	19,800	98,549
Cross Lanes to Rokeby	156,600	46,800	109,800	234,900	70,200	164,700
Stephen Bank to Carkin Moor	216,500	37,600	178,900	324,750	56,400	268,350
A1(M) Junction 53 Scotch Corner	0	0	0	0	0	0

Scheme	Excavated Total Topsoil (m ³)	Placed Total Topsoil Fill (m ³)	Topsoil (Surplus) (m ³)	Excavated Total Topsoil (tonnes)	Placed Total Topsoil Fill (tonnes)	Topsoil (Surplus) (tonnes)
Project wide	1,226,100	293,800	932,300	1,839,150	440,700	1,398,450