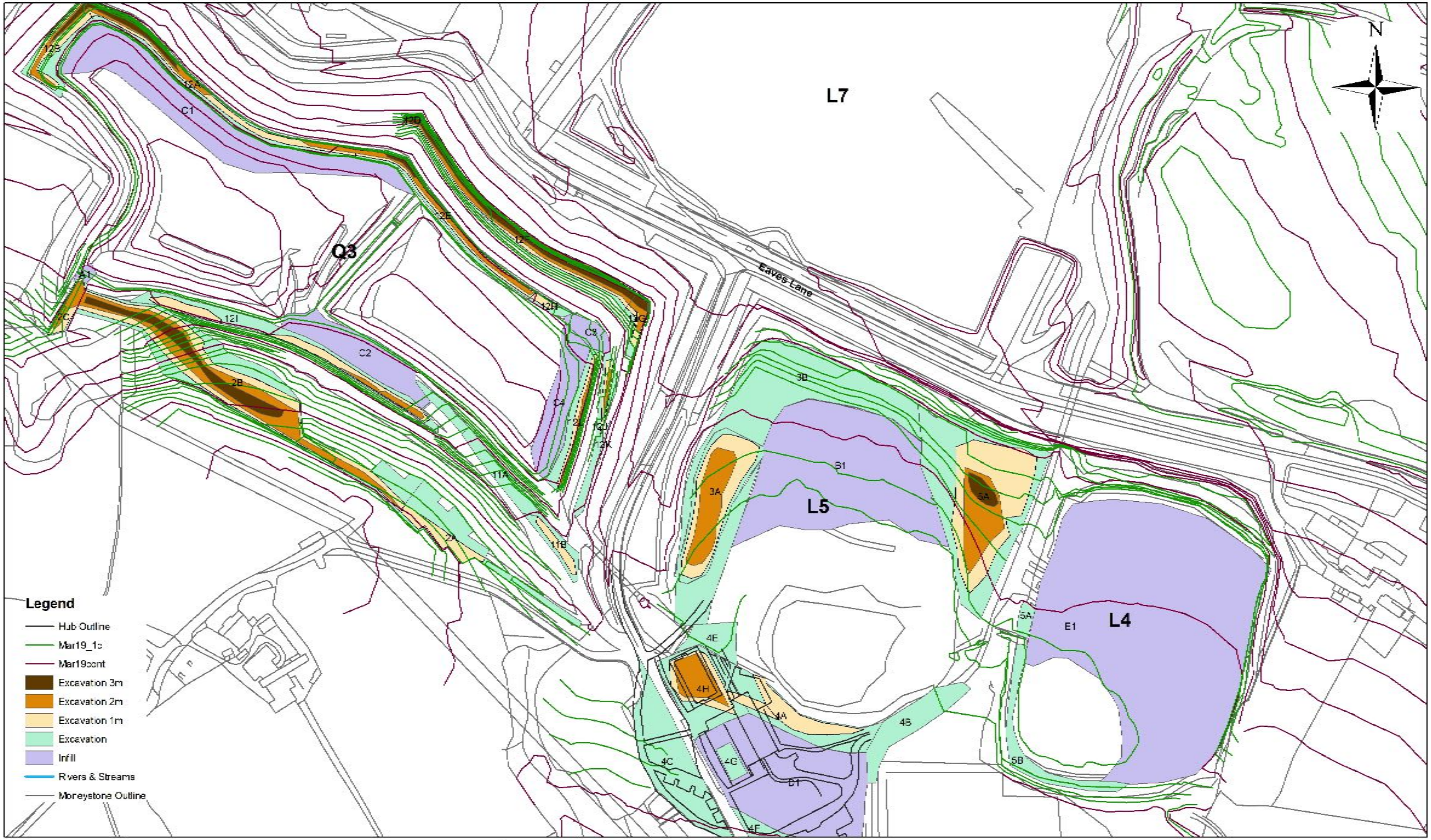
Table E3 Earthworks Sequence

Sequence	Estimated Volume m3	Estimated Distance m	Excavation Area Ref:	Infill Area Ref:	Comment	Sequence
					Preamble to Earthworks. Q3 lake to be lowered to 153m AOD. Outline of areas to be stripped and excavated to be marked by surveyor. In Q3 the base line of benches to be marked. Existing utilities to be re-surveyed and marked on site and site plans.	0
A	2,339	725	7A,7B	E	Clear Clay Plant area of spoil and transport material up east or west side of solar farm onto L4. Issues related to dust onto solar panels needs to be considered.	A
B1	31250sqm	500	B1,2A,2B, 2C,3B,4C	T	Surveyor to mark out outline of areas to be stripped. Cut to ground level all shrub and tree vegetation, shred and stockpile on Clay Plant concrete for use during mani contract.	B1
B2	9194	500	2A,2B,2C, 3B,4C,5A, 5B,5C	T	Surveyor to mark out outline of areas to be stripped. Take top 100mm of vegetated ground & topsoil from excavation areas listed and stockpile on Clay Plant concrete for use during main contract.	B2
C	5,662	445	3A	T	Remove soil stockpile and re-stockpile on Clay Plant concrete for use during main contract.	C
D	10,070	175	5A	E	Transport material onto L4 fanning & extending existing test bunds to the north and east.	D
E	7370	25	3A,3B	3A,3B	Re-profile capping to form a minimum 14m wide lodge platform around north and east side of Q1W. Similarly park track to be graded to form a 4m wide platform. Surrounding ground to be sloped and graded. See activity park plan.	E
F	6,824	700	6A,B,C,D	E	Transport material onto L4 fanning out existing test bunds to the north and east	F
G	714	25	5B, 5A	E	Ladle top 1m of bund onto adjacent tailings to widen bund.	G
H	13,547	850	2A,B	E	Reduced areas to form platforms 0.45m below finished ground level. Transport material onto L4 fanning to the south and east. Us adjacent to ponds and areas of proposed stream.	H
I	4025	75	12I, 11B	C2	Cut base of 155/157m bench down to 154.55m AOD to form 7.5m wide bench around south side of Q3 and place excavated material onto submerged Q3 access track to extend 154.55m AOD platform.	I
J	818	25	2C	A	Excavate outfall cutting to 154/153m AOD with 1:2(v:h) side slopes	J
K	793	725	12J,K	E	Excavate Q3 rock to form 4.5m wide access slope with 1:15 (v:h) gradient down to NE corner of Q3. Some excavation to widen existing upper bench to 4.5m width anticipated. Transport material to L4 to form 1.5m thick capping fanning out east and south.	K
L	10266	850	12D,F,G	E	Excavate Q3 rock from base of bench to form 7.5m wide bench and transport to L4 to form 1.5m thick capping fanning out east and south.	L
M	972	75	12H	C3	Cut base of 155/157m bench down to 154.55m AOD to form 7.5m wide bench along north side of Q3 and place excavated material in north east corner to form base of 1:15(v:h) ramp.	M
N	1939	25	12L	C4	Cut into base of eastern slope with maximum bank slope of 4m down to 154.55m AOD ladle excavated material onto east side of Q3 slope to form 7.5m wide bench at 154.55m AOD. Also to form turning circle at base of 1:15(v:h) access track.	N
O	3157	450	12E	B1	Cut base of 155/157m bench down to 154.55m AOD to form 7.5m wide bench around north side of Q3 and transport excavated material as a 300mm thick layer over GeoGrid across B1/ on L5. Material greater that 200mm Dia. screened or crushed.	O
P	6438	25	12A, 12B, 12C	C1	Cut base of 155/157m bench down to 154.55m AOD to form 7.5m wide bench around north side of Q3 and ladle excavated material onto north side of Q3 slope below 153m waterline. Also to cut 2nd bench 2.5m higher at western end.	P
Q	9,895	400	4A,B	E	Remove to of existing bund down to a formation level of 171.2m AOD around the south side of L5. Also cut bund below water level the section of bund to form lake extension to 169.7m AOD. Transport material onto L4 fanning out existing test bunds to the north, south and east	Q

R	~1000	445	4E	E	Reform L5 to Q3 stream to architects requirements and infill existing stream, surplus to Area E or stockpile.	R
S	~1000	350	4H	T	Cut HUB platform to 450mm below proposed finished floor level and transported to stockpile. Area D1 area to be stripped of existing vegetated ground, concrete and left to build-up as part of construction works. Materials, including crushing concrete to stockpile.	S
T	7250sqm	350	4F	T	Carpark area to be re-profiled by removing stockpiles to L4 and vegetation and topsoil providing even gradient to existing access road.	T
U	2250sqm	350	4C	T	Carpark and access area to be stripped of existing vegetation, topsoil, weighbridge and hardstanding areas. (Existing access road down to lower production area to be retained). Hardstanding materials to be crushed to Class 6F2. Vegetation to be shredded and with topsoil stockpiled in Clay Plant area for later use.	U



1:2,500

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Fig E1

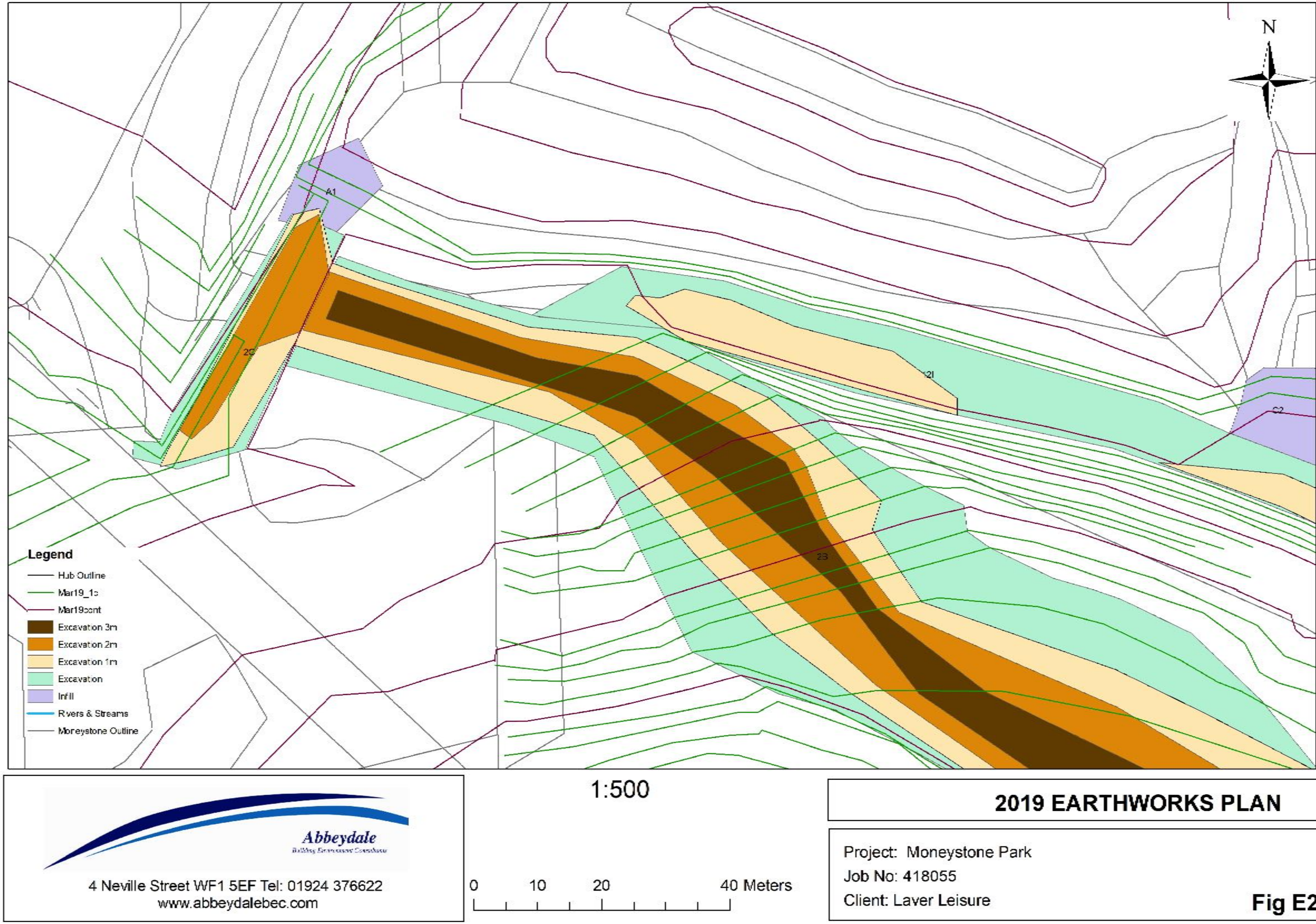

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Fig E2

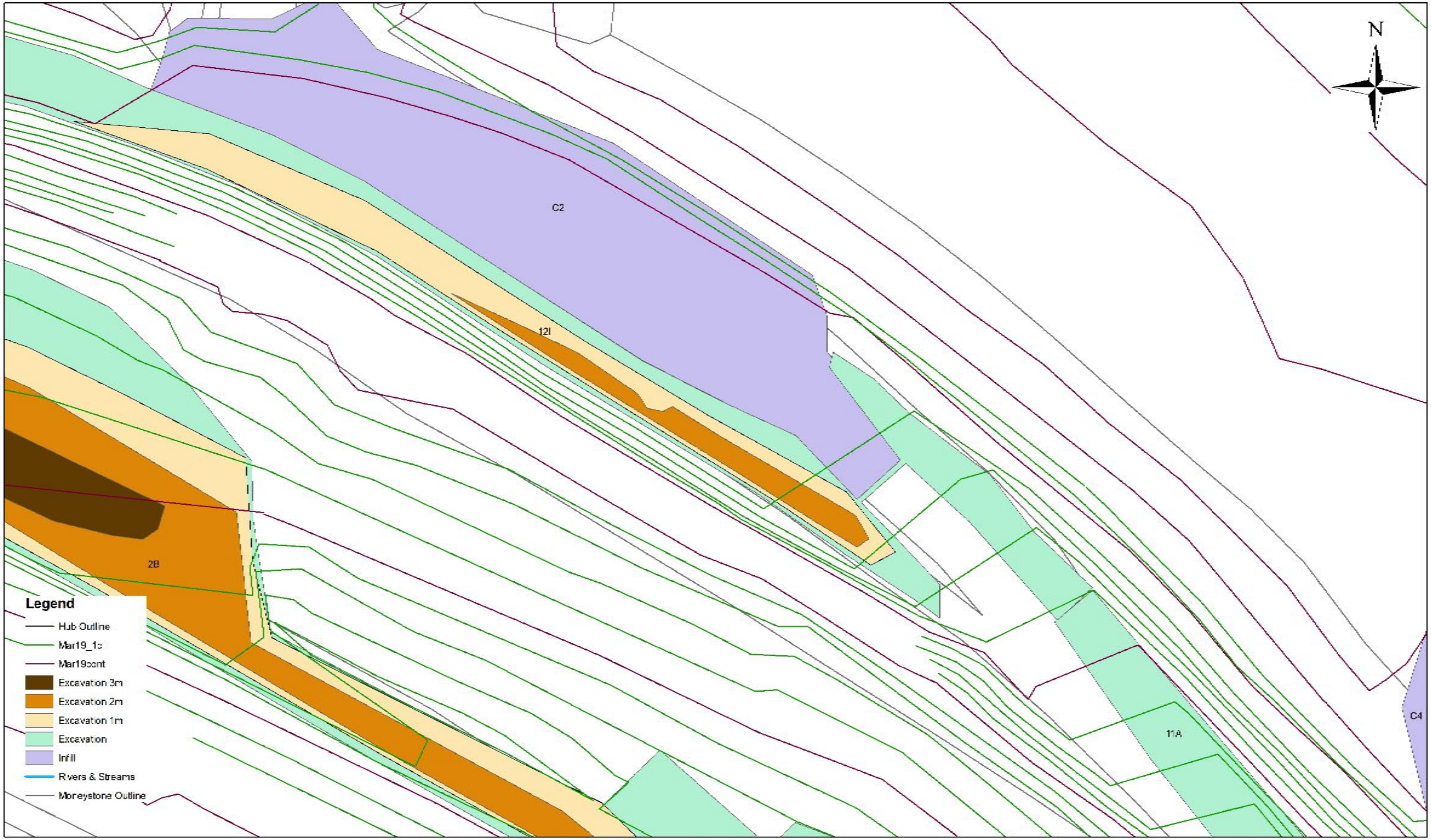

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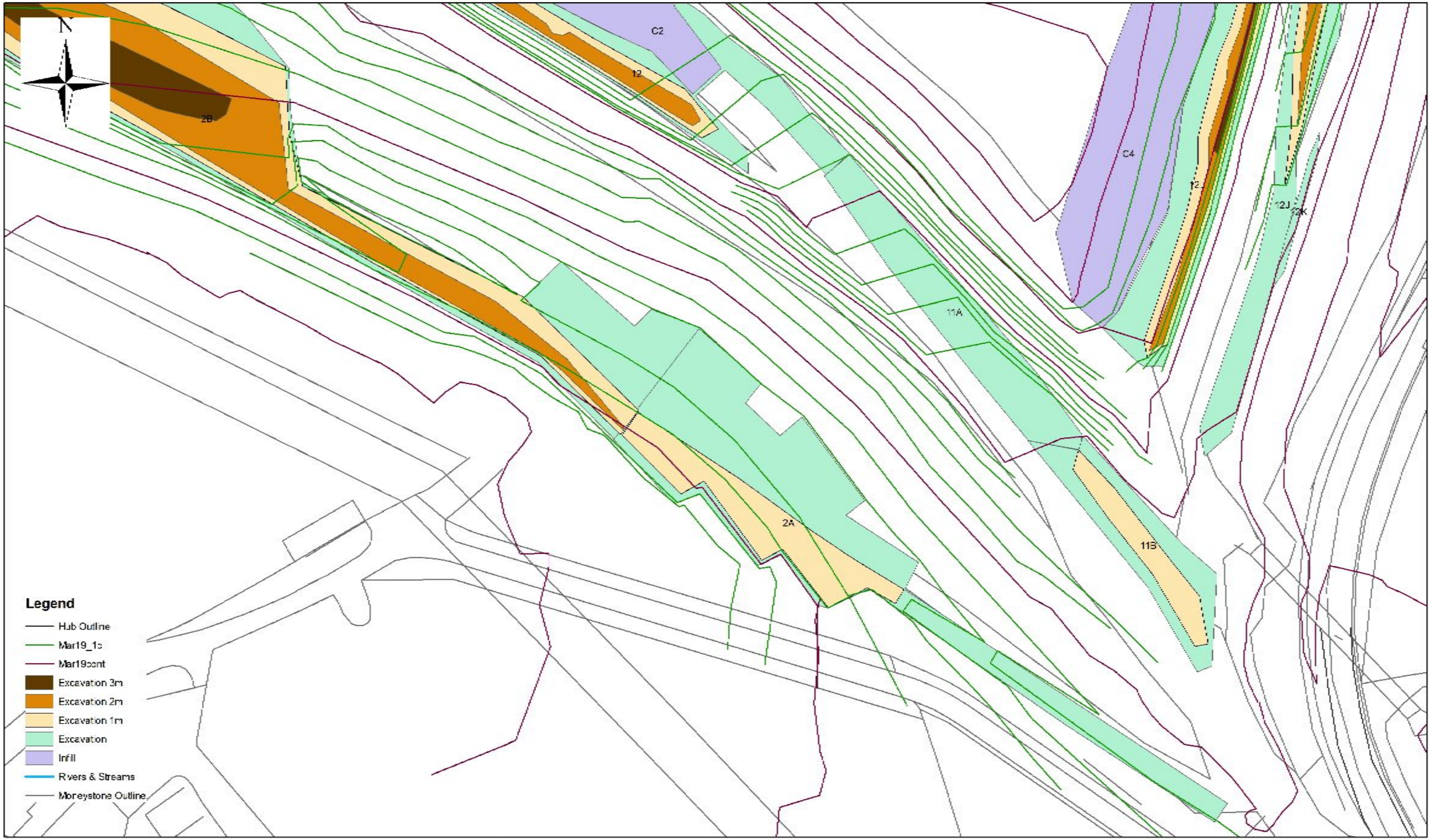
Fig E3



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1:750

0 15 30 60 Meters

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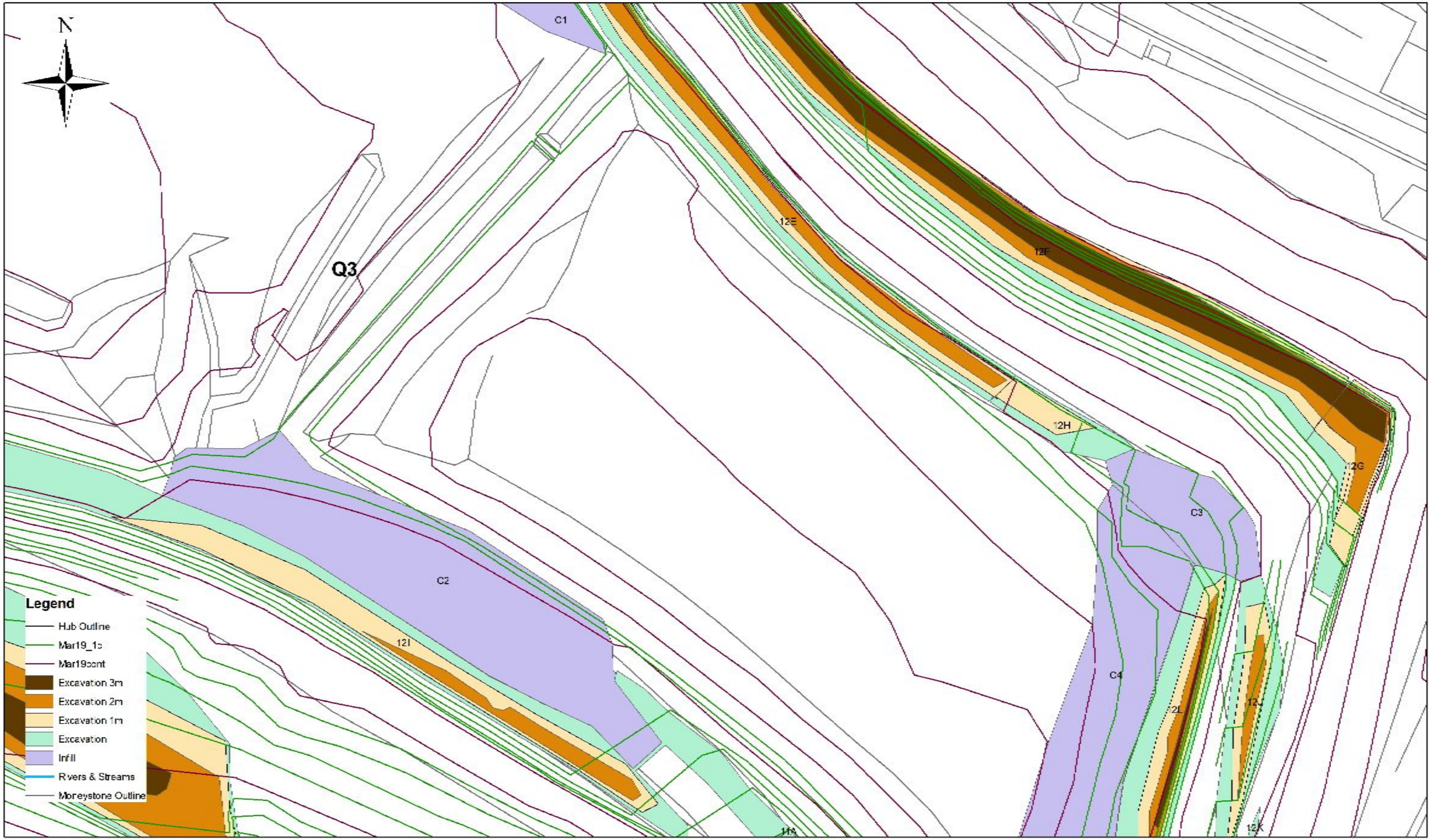
Fig E4



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1:750

0 15 30 60 Meters

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Fig E5

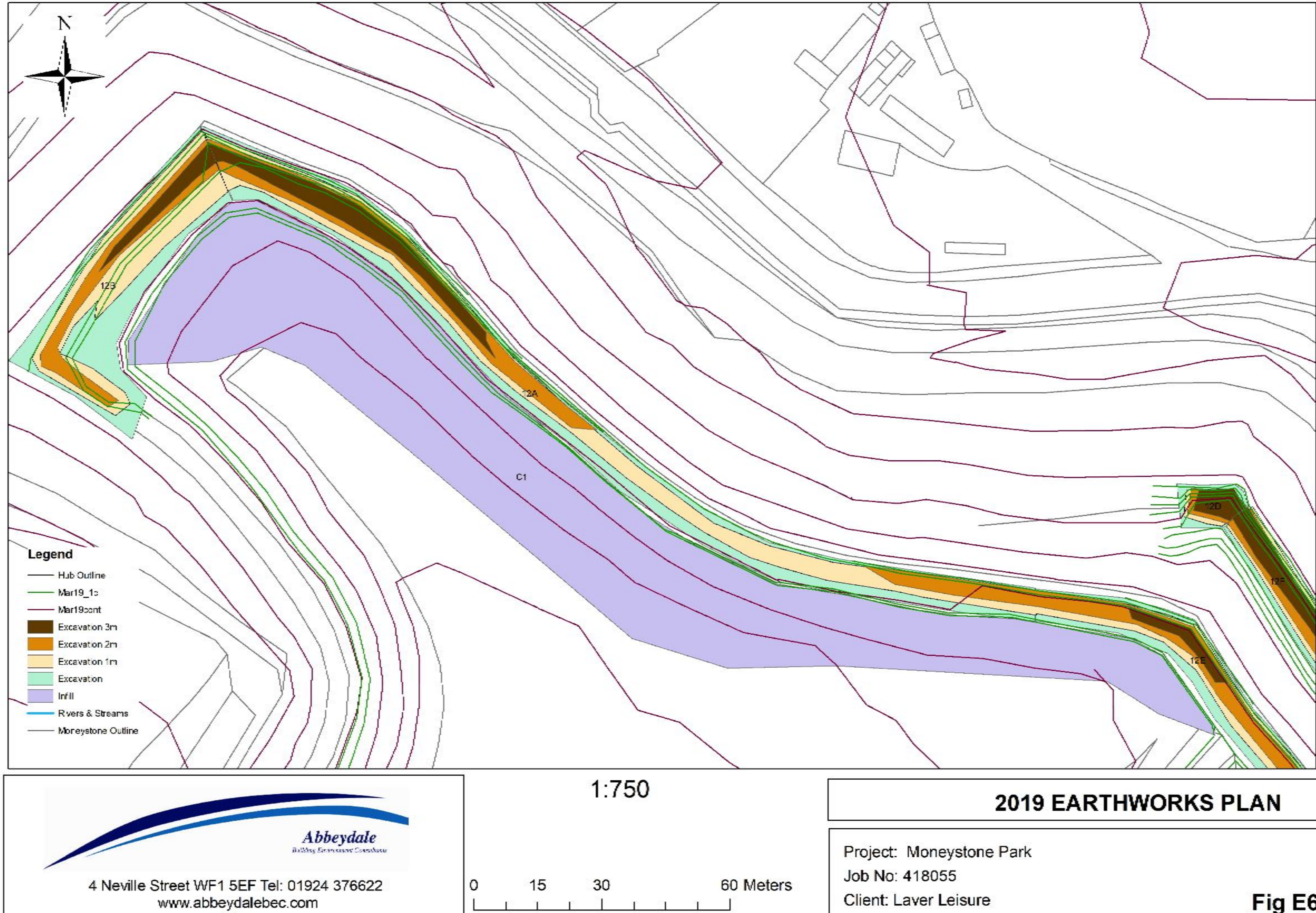

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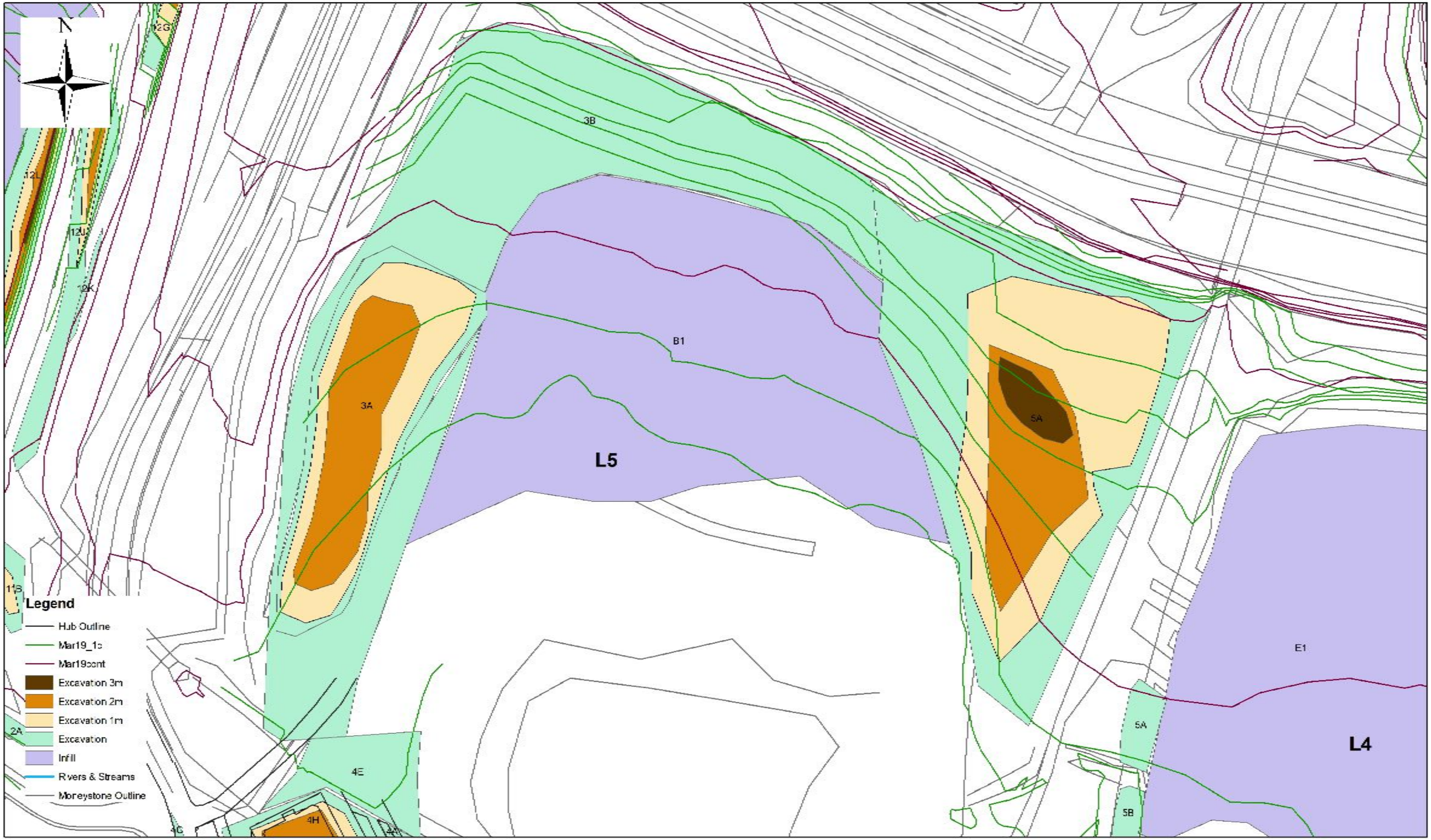
Fig E6



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1:1,000

0 15 30 60 Meters

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Fig E7

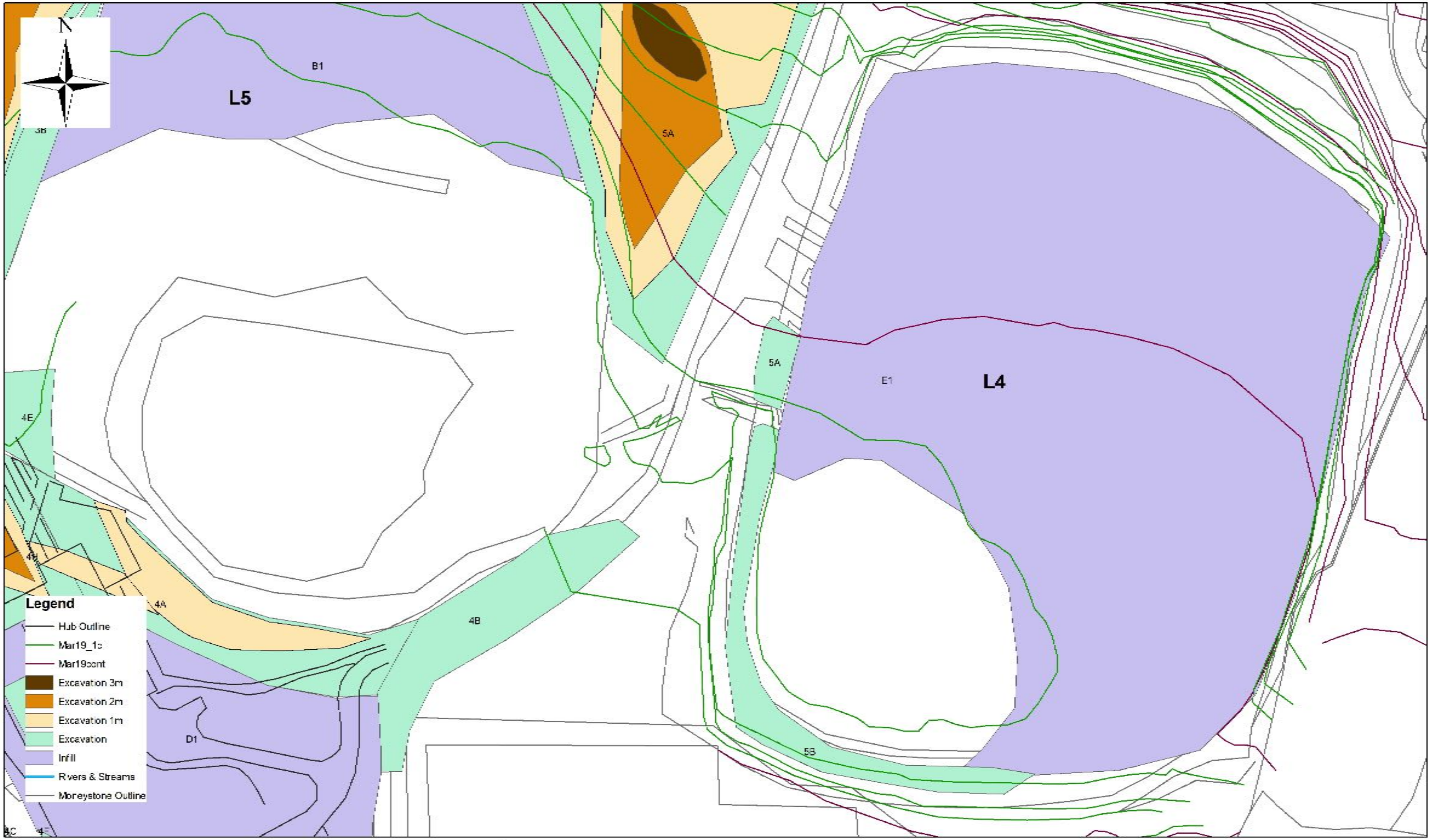

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Fig E8

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1:1,000

0 15 30 60 Meters

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Fig E9

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Fig E10