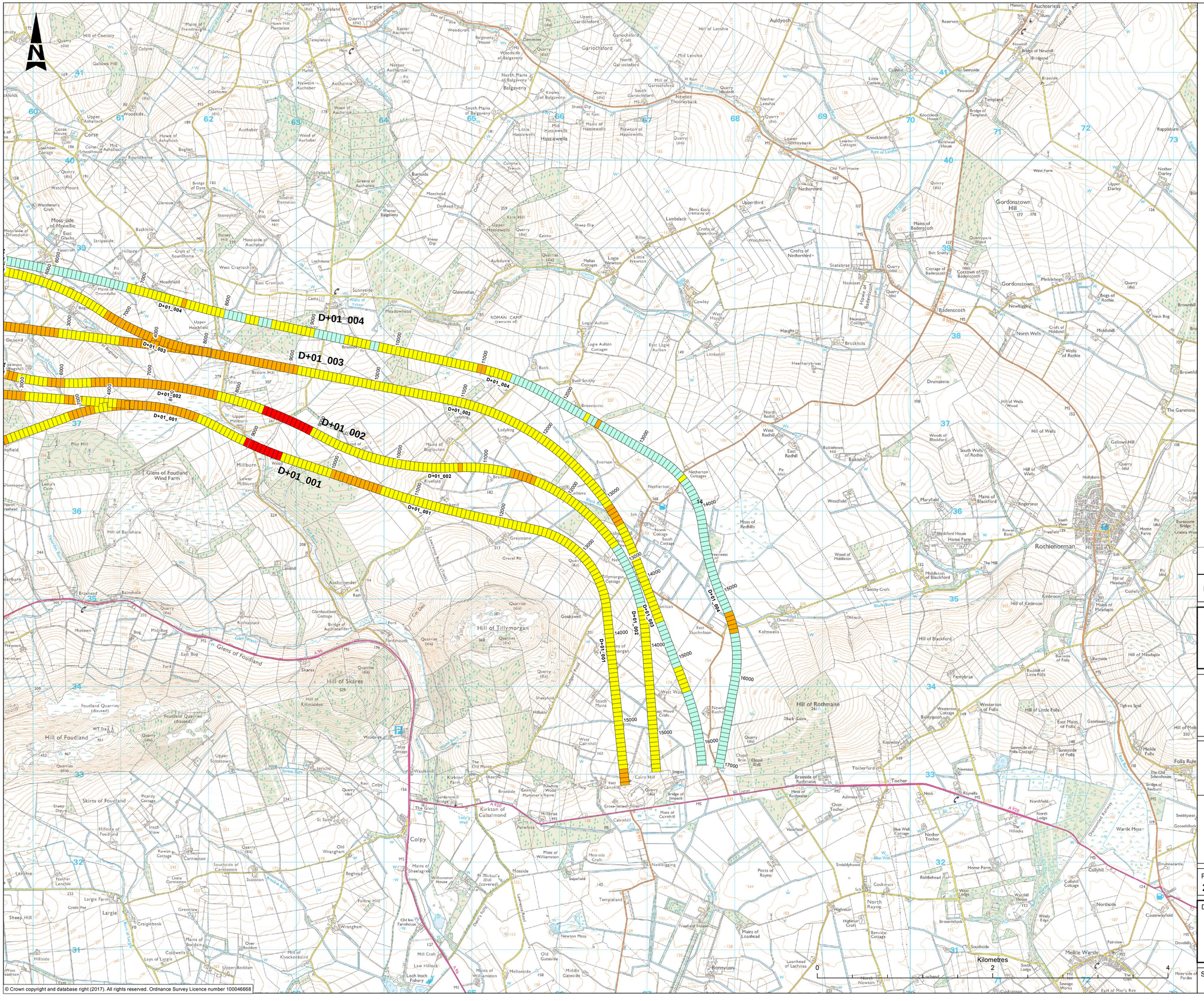

LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

	First Fix Appraisal				
P01	JSE	RO	FM	GW	GH
	10/04/18	18/04/18	18/04/18	18/04/18	18/04/18

	Revision details				
Revision	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer
Precision House
McNell Drive
Motherwell
ML1 4UR

Client
58 Port Dundas Road
Glasgow
G4 0HF

Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
D+01 - Engineering Appraisal
Sheet 2 of 2

Project Ref. No.	Stage	Scale : 1:20,000 @A1
250002-92	Stage 2	Dimensions :

Drawing Number

Project	Originator	Volume	
A96PEA	-AMAR-	HGN	-
CD		-DR-CH-010002	
Location		Type | Role | Number	

Suitability	Suitability Description	Revision
S2	For Information	P01.01

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	0	-2	-1	-3	0	-1	0	0	0	0	0	-1	-3	-3	Structure for tie in to A96.
50	100	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
100	150	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
150	200	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
200	250	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
250	300	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
300	350	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
350	400	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
400	450	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
450	500	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
500	550	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
550	600	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
600	650	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
650	700	0	-1	-2	-1	-3	-1	0	0	0	0	0	0	-1	-3	-3	Minor embankments on potentially compressible ground. Combination of level difference, hilliness, bendiness and earthworks/m. Some local disruption due to construction.
700	750	0	-1	-2	-1	-3	-1	0	0	0	0	0	0	-1	-3	-3	Minor embankments on potentially compressible ground. Combination of level difference, hilliness, bendiness and earthworks/m. Some local disruption due to construction.
750	800	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
800	850	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
850	900	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
900	950	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
950	1000	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
1000	1050	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
1050	1100	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1100	1150	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1150	1200	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1200	1250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1250	1300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1300	1350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1350	1400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1400	1450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1450	1500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1500	1550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1550	1600	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1600	1650	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1650	1700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1700	1750	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1750	1800	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1800	1850	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1850	1900	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1900	1950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
1950	2000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.6m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2000	2050	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	-4	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2050	2100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2100	2150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2150	2200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2200	2250	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2250	2300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2300	2350	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2350	2400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2400	2450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2450	2500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2500	2550	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 11.7m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2550	2600	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 11.7m (but greater than 10m) high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.

2600	2650	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	-4	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2650	2700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2700	2750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2750	2800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2800	2850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2850	2900	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2900	2950	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
2950	3000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3000	3050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3050	3100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3100	3150	0	-1	-2	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	New bridge over burn of Drumblade watercourse and flood plain. Span 100m. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3150	3200	0	-1	-2	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	New bridge over burn of Drumblade watercourse and flood plain. Span 100m. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3200	3250	0	-1	-2	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	New bridge over burn of Drumblade watercourse and flood plain. Span 100m. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3250	3300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3300	3350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3350	3400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3400	3450	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3450	3500	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3500	3550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of at grade construction, embankments and cuttings less than 10m high on/through non-identified geotechnical constraint. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3550	3600	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 17.0m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3600	3650	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.0m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3650	3700	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 17.0m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3700	3750	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3750	3800	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3800	3850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3850	3900	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3900	3950	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
3950	4000	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4000	4050	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4050	4100	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 30.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4100	4150	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4150	4200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4200	4250	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4250	4300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4300	4350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4350	4400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4400	4450	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4450	4500	0	-2	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-6	-6	Structure for side road crossing - moderate impact due to adjacent rock. Construction access issues.

4500	4550	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4550	4600	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 18m high in non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4600	4650	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4650	4700	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4700	4750	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4750	4800	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4800	4850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4850	4900	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4900	4950	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
4950	5000	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
5000	5050	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36.9m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and some local disruption due to construction.
5050	5100	0	-3	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 11.7m (but greater than 10m) high in rock.
5100	5150	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	-4	A combination of embankments and cuttings less than 10m high on/through non-identified geotechnical constraint.
5150	5200	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of embankments and cuttings less than 10m high on/through non-identified geotechnical constraint.
5200	5250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	A combination of embankments and cuttings less than 10m high on/through non-identified geotechnical constraint.
5250	5300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Embankments up to 19.0m on non-identified geotechnical constraint.
5300	5350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankments up to 19.0m on non-identified geotechnical constraint. Construction access issues.
5350	5400	0	-2	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Embankments up to 25.1m high on non-identified geotechnical constraint. Very difficult construction access.
5400	5450	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Embankments up to 25.1m high on non-identified geotechnical constraint. Very difficult construction access.
5450	5500	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Embankments up to 25.1m high on non-identified geotechnical constraint. Very difficult construction access.
5500	5550	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankments up to 17.5m on non-identified geotechnical constraint. Construction access issues.
5550	5600	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5600	5650	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5650	5700	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5700	5750	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5750	5800	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5800	5850	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5850	5900	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5900	5950	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
5950	6000	0	-1	-2	-1	-3	-1	0	0	0	0	0	-3	0	-5	-6	Cuttings up to 11.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6000	6050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 11.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6050	6100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 11.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6100	6150	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6150	6200	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6200	6250	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6250	6300	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6300	6350	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6350	6400	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6400	6450	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6450	6500	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6500	6550	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6550	6600	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6600	6650	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6650	6700	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6700	6750	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6750	6800	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6800	6850	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6850	6900	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6900	6950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
6950	7000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7000	7050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7050	7100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7100	7150	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Embankment up to 13m on rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7150	7200	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7200	7250	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7250	7300	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7300	7350	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7350	7400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 19.0m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7400	7450	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7450	7500	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7500	7550	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7550	7600	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7600	7650	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7650	7700	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7700	7750	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7750	7800	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7800	7850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7850	7900	0	-3	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 17.1m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7900	7950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 17.1m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
7950	8000	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8000	8050	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8050	8100	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8100	8150	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.

8150	8200	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8200	8250	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8250	8300	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8300	8350	0	-1	-2	-1	-3	-3	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 14.4m high on Peat. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
8350	8400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8400	8450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8450	8500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8500	8550	0	-1	-2	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	Wind Farm access.
8550	8600	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8600	8650	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8650	8700	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8700	8750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8750	8800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8800	8850	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8850	8900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8900	8950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
8950	9000	0	-1	-2	-1	-3	0	-3	0	0	0	0	-2	-1	-6	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9000	9050	0	-1	-2	-1	-3	0	-3	0	0	0	0	-2	-1	-6	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9050	9100	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9100	9150	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9150	9200	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9200	9250	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9250	9300	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9300	9350	0	-2	-2	-1	-3	0	-3	0	0	0	0	-3	0	-8	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9350	9400	0	-1	-2	-1	-3	0	-3	0	0	0	0	-3	0	-7	-9	Structure for side road crossing and the Mill Burn - length 400m. Overall impact assessed as major due to structure length. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access.
9400	9450	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9450	9500	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9500	9550	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9550	9600	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9600	9650	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9650	9700	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9700	9750	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9750	9800	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9800	9850	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9850	9900	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9900	9950	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
9950	10000	0	-1	-2	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
10000	10050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10050	10100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10100	10150	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10150	10200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10200	10250	0	-2	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 20m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10250	10300	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 20m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10300	10350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10350	10400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10400	10450	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10450	10500	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10500	10550	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10550	10600	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 18m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10600	10650	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10650	10700	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10700	10750	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10750	10800	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Very difficult construction access.
10800	10850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
10850	10900	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
10900	10950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
10950	11000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11000	11050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11050	11100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11100	11150	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-4	-4	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11150	11200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11200	11250	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11250	11300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11300	11350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.

11350	11400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Embankments up to 13m high on non-identified ground. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11400	11450	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-2	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11450	11500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11500	11550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11550	11600	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11600	11650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11650	11700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11700	11750	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11750	11800	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11800	11850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11850	11900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11900	11950	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
11950	12000	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12000	12050	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12050	12100	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12100	12150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12150	12200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12200	12250	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12250	12300	0	0	-2	-1	-3	0	0	0	0	0	-1	-2	-2	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12300	12350	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12350	12400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12400	12450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12450	12500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12500	12550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12550	12600	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12600	12650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12650	12700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12700	12750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12750	12800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12800	12850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12850	12900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12900	12950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
12950	13000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13000	13050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13050	13100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13100	13150	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13150	13200	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13200	13250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13250	13300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13300	13350	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13350	13400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13400	13450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13450	13500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13500	13550	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13550	13600	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13600	13650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13650	13700	0	-1	-2	-1	-3	0	-1	0	0	0	0	-2	-2	-4	-4	Structure for side road crossing.
13700	13750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13750	13800	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-2	-4	-4	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13800	13850	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13850	13900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13900	13950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
13950	14000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14000	14050	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14050	14100	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14100	14150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14150	14200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14200	14250	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14250	14300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14300	14350	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14350	14400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14400	14450	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14450	14500	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14500	14550	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14550	14600	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.

14600	14650	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14650	14700	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14700	14750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14750	14800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14800	14850	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14850	14900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14900	14950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
14950	15000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15000	15050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15050	15100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15100	15150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15150	15200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15200	15250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15250	15300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-2	-3	-3	Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15300	15350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Cuttings up to 17.8m high in and non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15350	15400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Cuttings up to 17.8m high in and non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15400	15450	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Cuttings up to 17.8m high in and non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15450	15500	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Cuttings up to 17.8m high in and non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15500	15550	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-2	-5	-5	Cuttings up to 17.8m high in and non-identified geotechnical constraint and rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15550	15600	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-2	-6	-6	Cuttings up to 19.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15600	15650	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-2	-6	-6	Cuttings up to 19.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15650	15700	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-2	-6	-6	Cuttings up to 19.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15700	15750	0	-2	-2	-1	-3	-2	0	0	0	-1	0	-2	-2	-6	-6	Cuttings up to 19.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15750	15800	0	-2	-2	-1	-3	-2	0	0	0	-1		-2	-2	-6	-6	Cuttings up to 19.4m high in rock. Combination of level difference, hilliness, bendiness and earthworks/m. Difficult construction access and disruption to local traffic due to construction.
15800	15850																Finish 15737
15850	15900																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
50	100	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
100	150	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
150	200	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
200	250	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
250	300	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
300	350	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
350	400	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
400	450	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	New structure for Burn of Drumblade - length 100m combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
450	500	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
500	550	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
550	600	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
600	650	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
650	700	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
700	750	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
750	800	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
800	850	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
850	900	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 16m high in non-identified geotechnical constraint combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
900	950	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
950	1000	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36m high (but greater than 19m) in non-identified geotechnical constraint and rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
1000	1050	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1050	1100	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1100	1150	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1150	1200	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1200	1250	0	-3	-1	-1	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	Structure for side road crossing combined with cuttings up to 36m high (but greater than 19m) in non-identified geotechnical constraint and rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
1250	1300	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36m high (but greater than 19m) in non-identified geotechnical constraint and rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
1300	1350	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1350	1400	0	-3	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	Cuttings up to 16m high (but greater than 10m) in non-identified geotechnical constraint and rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
1400	1450	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1450	1500	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
1500	1550	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1550	1600	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1600	1650	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1650	1700	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1700	1750	0	-1	-1	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	New structure for side road crossing and Burn of Begshill - length 300m combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction Non identified geotechnical constraint and rock.
1750	1800	0	-1	-1	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	
1800	1850	0	-2	-1	-1	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
1850	1900	0	-2	-1	-1	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
1900	1950	0	-2	-1	-1	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
1950	2000	0	-2	-1	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	
2000	2050	0	-1	-1	-1	-3	0	-2	0	0	0	0	-2	-1	-5	-6	
2050	2100	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access and some local disruption due to construction
2100	2150	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2150	2200	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2200	2250	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2250	2300	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2300	2350	0	-1	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings up to 18.2m high in non-identified geotechnical constraint and rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
2350	2400	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2400	2450	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2450	2500	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2500	2550	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2550	2600	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2600	2650	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2650	2700	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
2700	2750	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 27m high in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
2750	2800	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
2800	2850	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
2850	2900	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
2900	2950	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
2950	3000	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
3000	3050	0	-3	-1	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	

3050	3100	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings up to 14.2m high (but greater than 10m) in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3100	3150	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3150	3200	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
3200	3250	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
3250	3300	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
3300	3350	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankments up to 19.0m high in non-identified geotechnical constraint combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3350	3400	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
3400	3450	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
3450	3500	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
3500	3550	0	-2	-1	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	Embankments up to 21m high in non-identified geotechnical constraint combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3550	3600	0	-2	-1	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
3600	3650	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
3650	3700	0	-3	-1	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
3700	3750	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankments up to 17m high in non-identified geotechnical constraint combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3750	3800	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
3800	3850	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	
3850	3900	0	-2	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
3900	3950	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
3950	4000	0	0	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
4000	4050	0	-1	-1	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
4050	4100	0	-2	-1	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings up to 12.2m high in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
4100	4150	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings up to 30.2m high in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
4150	4200	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4200	4250	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4250	4300	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4300	4350	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4350	4400	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4400	4450	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4450	4500	0	-3	-1	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
4500	4550							0									Finish 4429
4550	4600																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		Comments
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	0	-2	-1	-3	0	-1	0	0	-1	0	0	-1	-4	-4	
50	100	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
100	150	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
150	200	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
200	250	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
250	300	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
300	350	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
350	400	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
400	450	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
450	500	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
500	550	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
550	600	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
600	650	0	-1	-2	-1	-3	-1	0	0	0	0	0	0	-1	-3	-3	
650	700	0	-1	-2	-1	-3	-1	0	0	0	0	0	0	-1	-3	-3	
700	750	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
750	800	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
800	850	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
850	900	0	0	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
900	950	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
950	1000	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
1000	1050	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	
1050	1100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1100	1150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1150	1200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1200	1250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1250	1300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1300	1350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1350	1400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1400	1450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1450	1500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1500	1550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1550	1600	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1600	1650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1650	1700	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1700	1750	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
1750	1800	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1800	1850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1850	1900	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1900	1950	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1950	2000	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2000	2050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
2050	2100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
2100	2150	0	-2	-2	-1	-3	0	0	0	0	0	0	-2	-1	-4	-4	
2150	2200	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2200	2250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2250	2300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2300	2350	0	-1	-2	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
2350	2400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2400	2450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2450	2500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2500	2550	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2550	2600	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
2600	2650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2650	2700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2700	2750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2750	2800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2800	2850	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2850	2900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2900	2950	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2950	3000	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3000	3050	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3050	3100	0	-1	-2	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3100	3150	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
3150	3200	0	-1	-2	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3200	3250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3250	3300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3300	3350	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3350	3400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3400	3450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3450	3500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3500	3550	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-6	
3550	3600	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3600	3650	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3650	3700	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3700	3750	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3750	3800	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3800	3850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3850	3900	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3900	3950	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3950	4000	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4000	4050	0	-3	-2	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
4050	4100	0	-3	-2	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
4100	4150	0	-3	-2	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
4150	4200	0	-3	-2	-1	-3	-2	0	0	0	0	-2	-2	-1	-8	-8	
4200	4250	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4250	4300	0	-3	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4300	4350	0	-3	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	

4350	4400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
4400	4450	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4450	4500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4500	4550	0	-1	-2	-1	-3	0	-3	0	0	0	0	-2	-1	-6	-9	
4550	4600	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	
4600	4650	0	-2	-2	-1	-3	-2	-3	0	0	0	0	-2	-1	-9	-9	
4650	4700	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	-1	-9	-9	
4700	4750	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	-1	-9	-9	
4750	4800	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	-1	-8	-9	
4800	4850	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-3	0	-9	-9	
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4900	4950	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-3	0	-9	-9	
4950	5000	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-3	0	-9	-9	
5000	5050	0	-1	-2	-1	-3	0	-3	0	0	0	0	-3	0	-7	-9	
5050	5100	0	-1	-2	-1	-3	0	-3	0	0	0	0	-3	0	-7	-9	
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5150	5200	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
5200	5250	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
5250	5300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
5300	5350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
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5900	5950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
5950	6000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
6000	6050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
6050	6100	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	
6100	6150	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
6150	6200	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
6200	6250	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
6250	6300	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
6300	6350	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	
6350	6400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
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6450	6500	0	-2	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
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6600	6650	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
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6800	6850	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
6850	6900	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
6900	6950	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
6950	7000	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
7000	7050	0	-2	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	
7050	7100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
7100	7150	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
7150	7200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	
7200	7250	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	
7250	7300	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	
7300	7350	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	
7350	7400	0	-2	-2	-1	-3	-3	0	0	0	0	0	-3	0	-8	-8	
7400	7450	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	
7450	7500	0	-1	-2	-1	-3	-3	0	0	0	0	0	-3	0	-7	-7	
7500	7550	0	-1	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7550	7600	0	-1	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7600	7650	0	0	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7650	7700	0	0	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7700	7750	0	-1	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7750	7800	0	-1	-2	-1	-3	-2	0	0	0	0	0	-3	0	-6	-6	
7800	7850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
7850	7900	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
7900	7950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
7950	8000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
8000	8050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
8050	8100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
8100	8150	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
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8200	8250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
8250	8300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
8300	8350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
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8850	8900	0	-2	-2	-1	-3	0	-3	0	0	0	0	-2	-1	-7	-9	
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9600	9650	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
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9750	9800	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
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9850	9900	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	

9900	9950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
9950	10000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10000	10050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
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10150	10200	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10200	10250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10250	10300	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10300	10350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10350	10400	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10400	10450	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10450	10500	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10500	10550	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10550	10600	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10600	10650	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10650	10700	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10700	10750	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
10750	10800	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10800	10850	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10850	10900	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10900	10950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
10950	11000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11000	11050	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11050	11100	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11100	11150	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11150	11200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11200	11250	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11250	11300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
11300	11350	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11350	11400	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11400	11450	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11450	11500	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11500	11550	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11550	11600	0	-2	-2	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
11600	11650	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11650	11700	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11700	11750	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11750	11800	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11800	11850	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11850	11900	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11900	11950	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11950	12000	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
12000	12050	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
12050	12100	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
12100	12150	0	-1	-2	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
12150	12200	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
12200	12250	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
12250	12300	0	-1	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
12300	12350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12350	12400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12400	12450	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12450	12500	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12500	12550	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12550	12600	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12600	12650	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12650	12700	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12700	12750	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12750	12800	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12800	12850	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
12850	12900	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
12900	12950	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
12950	13000	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13000	13050	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13050	13100	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13100	13150	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13150	13200	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13200	13250	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13250	13300	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13300	13350	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13350	13400	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13400	13450	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13450	13500	0	0	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13500	13550	0	-1	-2	-1	-3	0	0	0	0	0	0	-1	-1	-2	-2	
13550	13600	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13600	13650	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13650	13700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13700	13750	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13750	13800	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13800	13850	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13850	13900	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13900	13950	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13950	14000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14000	14050	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14050	14100	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14100	14150	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14150	14200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14200	14250	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14250	14300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14300	14350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14350	14400	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14400	14450	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14450	14500	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14500	14550	0	-1	-2	-1	-3	0	0	0	0	0	-1	-2	-1	-4	-4	
14550	14600	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14600	14650	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14650	14700	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14700	14750	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14750	14800	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14800	14850	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14850	14900	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14900	14950	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
14950	15000	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15000	15050	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15050	15100	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15100	15150	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15150	15200	0	0	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15200	15250	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15250	15300	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15300	15350	0	-1	-2	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
15350	15400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
15400	15450	0	-2	-2	-1	-3	-1	0	0	0	-1	0	-2	-1	-5	-5	

15450	15500	0	-2	-2	-1	-3	-1	0	0	0	-1	0	-2	-1	-5	-5	
15500	15550																
15550	15600																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	-1	-2	0	-3	0	-1	0	0	0	0	0	-1	-3	-3	
50	100	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
100	150	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
150	200	0	-1	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
200	250	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
250	300	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
300	350	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
350	400	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
400	450	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
450	500	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
500	550	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
550	600	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
600	650	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
650	700	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
700	750	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
750	800	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
800	850	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
850	900	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
900	950	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	
950	1000	0	0	-2	0	-3	-1	0	0	0	0	0	0	-1	-3	-3	
1000	1050	0	0	-2	0	-3	-1	0	0	0	0	0	0	-1	-3	-3	
1050	1100	0	0	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1100	1150	0	0	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1150	1200	0	0	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1200	1250	0	0	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1250	1300	0	0	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1300	1350	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1350	1400	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1400	1450	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1450	1500	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
1500	1550	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1550	1600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1600	1650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1650	1700	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1700	1750	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1750	1800	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1800	1850	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1850	1900	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1900	1950	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1950	2000	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2000	2050	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2050	2100	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2100	2150	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2150	2200	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2200	2250	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2250	2300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2300	2350	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2350	2400	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2400	2450	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
2450	2500	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
2500	2550	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
2550	2600	0	-2	-2	0	-3	-1	-1	0	0	0	-2	-2	-1	-7	-7	
2600	2650	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
2650	2700	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
2700	2750	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2750	2800	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2800	2850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2850	2900	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2900	2950	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
2950	3000	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3000	3050	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3050	3100	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3100	3150	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3150	3200	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3200	3250	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3250	3300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3300	3350	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3350	3400	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3400	3450	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3450	3500	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3500	3550	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3550	3600	0	-1	-2	0	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3600	3650	0	-1	-2	0	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3650	3700	0	-1	-2	0	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3700	3750	0	-1	-2	0	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
3750	3800	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3800	3850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3850	3900	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3900	3950	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3950	4000	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4000	4050	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4050	4100	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4100	4150	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4150	4200	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4200	4250	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4250	4300	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4300	4350	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	

4350	4400	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4400	4450	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4450	4500	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4500	4550	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4550	4600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4600	4650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
4650	4700	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
4700	4750	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
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4900	4950	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4950	5000	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
5000	5050	0	-3	-2	0	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
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5100	5150	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5150	5200	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5200	5250	0	-1	-2	0	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
5250	5300	0	-2	-2	0	-3	-2	-2	0	0	0	0	-2	-1	-7	-7	
5300	5350	0	-3	-2	0	-3	-2	-2	0	0	0	0	-2	-1	-8	-8	
5350	5400	0	-3	-2	0	-3	-2	-2	0	0	0	0	-2	-1	-8	-8	
5400	5450	0	-3	-2	0	-3	-2	-2	0	0	0	0	-2	-1	-8	-8	
5450	5500	0	-2	-2	0	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
5500	5550	0	-1	-2	0	-3	0	-2	0	0	0	0	-2	-1	-5	-6	
5550	5600	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5600	5650	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5650	5700	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5700	5750	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5750	5800	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5800	5850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
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5900	5950	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
5950	6000	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6000	6050	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6050	6100	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6100	6150	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6150	6200	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6200	6250	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6250	6300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6300	6350	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
6350	6400	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
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6950	7000	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7000	7050	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7050	7100	0	-3	-2	0	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
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7150	7200	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7200	7250	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7250	7300	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7300	7350	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7350	7400	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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7500	7550	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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7600	7650	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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7700	7750	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7750	7800	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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7850	7900	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7900	7950	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
7950	8000	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8000	8050	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8050	8100	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8100	8150	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8150	8200	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8200	8250	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8250	8300	0	-3	-2	0	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	
8300	8350	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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8400	8450	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
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8700	8750	0	-3	-2	0	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
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8850	8900	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8900	8950	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
8950	9000	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
9000	9050	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
9050	9100	0	-3	-2	0	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
9100	9150	0	-3	-2	0	-3	-1	0	0	0	0	0	-2	-1	-5	-5	
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9250	9300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9300	9350	0	-1	-2	0	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
9350	9400	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9400	9450	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9450	9500	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9500	9550	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9550	9600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9600	9650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9650	9700	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9700	9750	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9750	9800	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9800	9850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
9850	9900	0	-1	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	

9900	9950	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
9950	10000	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10000	10050	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10050	10100	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10100	10150	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10150	10200	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10200	10250	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10250	10300	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
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10500	10550	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10550	10600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10600	10650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10650	10700	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10700	10750	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10750	10800	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10800	10850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10850	10900	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
10900	10950	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
10950	11000	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11000	11050	0	-2	-2	0	-3	-2	0	0	0	0	0	-2	-1	-5	-5	
11050	11100	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11100	11150	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11150	11200	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11200	11250	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
11250	11300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
11300	11350	0	0	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
11350	11400	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
11400	11450	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
11450	11500	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11500	11550	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11550	11600	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11600	11650	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11650	11700	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11700	11750	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11750	11800	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
11800	11850	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
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11950	12000	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
12000	12050	0	-2	-2	0	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
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12100	12150	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12150	12200	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12200	12250	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12250	12300	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12300	12350	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12350	12400	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12400	12450	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12450	12500	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12500	12550	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12550	12600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12600	12650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12650	12700	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12700	12750	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12750	12800	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12800	12850	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12850	12900	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12900	12950	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
12950	13000	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13000	13050	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13050	13100	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	-3	-3	
13100	13150	0	-1	-2	0	-3	0	-2	0	0	0	0	-2	-1	-5	-6	
13150	13200	0	-1	-2	0	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
13200	13250	0	-1	-2	0	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
13250	13300	0	-1	-2	0	-3	-1	-2	0	0	0	0	-2	-1	-6	-6	
13300	13350	0	-1	-2	0	-3	-1	-2	0	0	0	0	-1	-2	-6	-6	
13350	13400	0	-1	-2	0	-3	-1	0	0	0	0	0	-1	-2	-4	-4	
13400	13450	0	-1	-2	0	-3	-1	0	0	0	0	0	-1	-2	-4	-4	
13450	13500	0	0	-2	0	-3	-1	0	0	0	0	0	-1	-2	-4	-4	
13500	13550	0	0	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13550	13600	0	0	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13600	13650	0	0	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13650	13700	0	0	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13700	13750	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13750	13800	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13800	13850	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13850	13900	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13900	13950	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
13950	14000	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14000	14050	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14050	14100	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14100	14150	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14150	14200	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14200	14250	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14250	14300	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14300	14350	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14350	14400	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14400	14450	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14450	14500	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14500	14550	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-2	-3	-3	
14550	14600	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14600	14650	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14650	14700	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14700	14750	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14750	14800	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14800	14850	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14850	14900	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14900	14950	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
14950	15000	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15000	15050	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15050	15100	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15100	15150	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15150	15200	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15200	15250	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15250	15300	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15300	15350	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15350	15400	0	-2	-2	0	-3	-1	0	0	0	0	0	-1	-1	-3	-3	
15400	15450	0	-2	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	

15450	15500	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15500	15550	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15550	15600	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15600	15650	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15650	15700	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15700	15750	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15750	15800	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15800	15850	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15850	15900	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15900	15950	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
15950	16000	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16000	16050	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16050	16100	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16100	16150	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16150	16200	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16200	16250	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16250	16300	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-2	-2	
16300	16350																
16350	16400																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
50	100	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
100	150	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
150	200	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
200	250	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
250	300	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	New bridge over burn of Drumblade watercourse and flood plain. Span 100m combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
300	350	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
350	400	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	
400	450	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
450	500	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
500	550	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
550	600	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
600	650	0	-1	-1	-1	-3	0	-1	0	0	0	0	-2	-1	-4	-4	structure for side road crossing
650	700	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
700	750	0	-1	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 14m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
750	800	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
800	850	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 39m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
850	900	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
900	950	0	-3	-1	-1	-3	-2	0	0	0	0	-1	-2	-1	-7	-7	Cuttings up to 39m high in rock. Water Mains present in this location. combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
950	1000	0	-3	-1	-1	-3	-2	0	0	0	0	-1	-2	-1	-7	-7	
1000	1050	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 39m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
1050	1100	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1100	1150	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1150	1200	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1200	1250	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1250	1300	0	-3	-1	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	Cuttings up to 45m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
1300	1350	0	-3	-1	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
1350	1400	0	-3	-1	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
1400	1450	0	-3	-1	-1	-3	-3	0	0	0	0	0	-2	-1	-7	-7	
1450	1500	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 36m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
1500	1550	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1550	1600	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1600	1650	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 18m high in rock combination of level difference, bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
1650	1700	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of bendiness, hilliness and earthworks/m Difficult construction access and some local disruption due to construction
1700	1750	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
1750	1800	0	-1	-1	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	New bridge over Burn of Begshill and side road - length 150m on non-identified ground combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
1800	1850	0	-2	-1	-1	-3	-1	-1	0	0	0	0	-2	-1	-5	-5	
1850	1900	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Embankments up to 32m high on non-identified geotechnical constraints combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
1900	1950	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
1950	2000	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2000	2050	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2050	2100	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2100	2150	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2150	2200	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2200	2250	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2250	2300	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2300	2350	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2350	2400	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2400	2450	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2450	2500	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2500	2550	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2550	2600	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
2600	2650	0	-3	-1	-1	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	New bridge over Burn of Denend and side road - length 150m on non-identified ground combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
2650	2700	0	-3	-1	-1	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	
2700	2750	0	-3	-1	-1	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	
2750	2800	0	-3	-1	-1	-3	-2	-1	0	0	0	0	-2	-1	-7	-7	
2800	2850	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Embankments up to 32m high on non-identified geotechnical constraints combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
2850	2900	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	

2900	2950	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Embankments up to 18m high on non-identified geotechnical constraints combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
2950	3000	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
3000	3050	0	-2	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	
3050	3100	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
3100	3150	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3150	3200	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3200	3250	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3250	3300	0	0	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3300	3350	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3350	3400	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3400	3450	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3450	3500	0	-1	-1	-1	-3	0	0	0	0	0	0	-2	-1	-3	-3	
3500	3550	0	-1	-1	-1	-3	-1	0	0	0	0	0	-2	-1	-4	-4	Cuttings up to 16m high in rock combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
3550	3600	0	-2	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-5	-5	
3600	3650	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	Cuttings up to 37m high in rock combination of level difference, hilliness, bendiness and earthworks/m Very difficult construction access and some local disrupton
3650	3700	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3700	3750	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3750	3800	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3800	3850	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3850	3900	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3900	3950	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
3950	4000	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4000	4050	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4050	4100	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4100	4150	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4150	4200	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4200	4250	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4250	4300	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4300	4350	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4350	4400	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4400	4450	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4450	4500	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4500	4550	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4550	4600	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4600	4650	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4650	4700	0	-3	-1	-1	-3	-2	0	0	0	0	0	-2	-1	-6	-6	
4700	4750																
4750	4800																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules
Total Score
Structures Score + Flooding Score (Average of L, M and N)
+Utilities score + Constructability Score (Minimum value of P&Q)

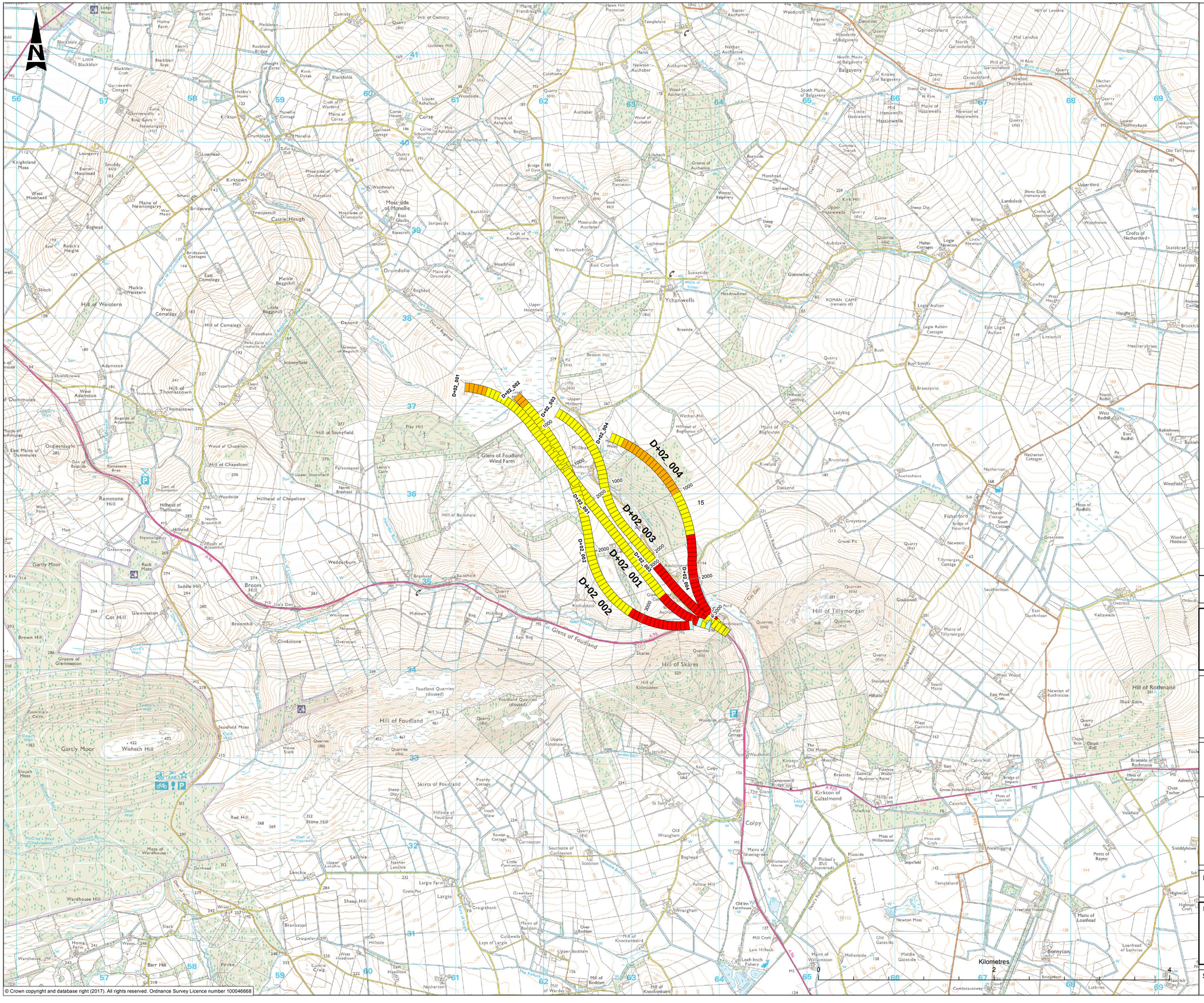
Then if total < or equal to -9 then should be coloured red
because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this
could represent 2 reds or 3/4 ambers.
If total is between -3 and -5 sho

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	-1	-1	0	0	0	0	-1	0	0	0	0	0	0	-1	-1	Structure for tie in to A96
50	100	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100	150	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
150	200	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
200	250	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
250	300	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
300	350	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
350	400	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
400	450	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
450	500	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
500	550	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
550	600	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
600	650	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
650	700	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
700	750	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
750	800	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
800	850	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
850	900	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
900	950	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	
950	1000	-1	-1	0	0	0	-1	0	0	0	0	0	0	0	-1	-1	
1000	1050	-1	-1	0	0	0	-1	0	0	0	0	0	0	0	-1	-1	
1050	1100	-1	0	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	Minor embankments on compressible ground Difficult construction access
1100	1150	-1	0	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1150	1200	-1	0	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1200	1250	-1	0	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1250	1300	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1300	1350	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1350	1400	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1400	1450	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1450	1500	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
1500	1550	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1550	1600	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1600	1650	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1650	1700	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1700	1750	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1750	1800	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1800	1850	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1850	1900	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1900	1950	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
1950	2000	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2000	2050	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2050	2100	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2100	2150	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2150	2200	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2200	2250	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2250	2300	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2300	2350	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2350	2400	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2400	2450	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2450	2500	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 15.5m high in non-identified geotechnical constraint Difficult construction access
2500	2550	-1	-2	0	0	0	-1	0	0	0	0	-2	-2	0	-6	-6	Wind Turbines within 100m alignment - ch 2535 and ch 2572 Difficult construction access. Cutting up to 16m in non identified geotechnical constraint. Construction access issues.
2550	2600	-1	-2	0	0	0	-1	0	0	0	0	-2	-2	0	-6	-6	
2600	2650	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 15.5m high in non-identified geotechnical constraint Difficult construction access
2650	2700	-1	-2	0	0	0	-1	-1	0	0	0	0	-2	0	-5	-5	Structure for farm access Difficult construction access
2700	2750	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2750	2800	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2800	2850	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2850	2900	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2900	2950	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
2950	3000	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3000	3050	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3050	3100	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3100	3150	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3150	3200	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3200	3250	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3250	3300	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3300	3350	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3350	3400	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3400	3450	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3450	3500	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3500	3550	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3550	3600	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3600	3650	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3650	3700	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3700	3750	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3750	3800	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3800	3850	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
3850	3900	-1	-1	0	0	0	-1	-1	0	0	0	0	-2	0	-4	-4	New bridge over burn of Drumblade watercourse and flood plain - Span 100m on potential compressible ground combination of level difference and difficult construction access
3900	3950	-1	-1	0	0	0	-1	-1	0	0	0	0	-2	0	-4	-4	
3950	4000	-1	-1	0	0	0	-1	-1	0	0	0	0	-2	0	-4	-4	
4000	4050	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4050	4100	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	

4100	4150	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4150	4200	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4200	4250	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4250	4300	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4300	4350	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4350	4400	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4400	4450	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4450	4500	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4500	4550	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4550	4600	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4600	4650	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4650	4700	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4700	4750	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	Cuttings up to 11.5m high in rock combination of level difference and difficult construction access
4750	4800	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
4800	4850	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
4850	4900	-1	-2	0	0	0	0	0	0	0	0	0	-2	0	-3	-3	
4900	4950	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
4950	5000	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5000	5050	-1	-1	0	0	0	0	-3	0	0	0	0	-2	0	-5	-9	New bridge over Garlet Burn and side road - length 350m on potentially compressible ground combination of level difference and very difficult construction access
5050	5100	-1	-2	0	0	0	-2	-3	0	0	0	0	-2	0	-8	-9	
5100	5150	-1	-3	0	0	0	-3	-3	0	0	0	0	-2	0	-9	-9	
5150	5200	-1	-3	0	0	0	-3	-3	0	0	0	0	-2	0	-9	-9	
5200	5250	-1	-3	0	0	0	-3	-3	0	0	0	0	-2	0	-9	-9	
5250	5300	-1	-3	0	0	0	-1	-3	0	0	0	0	-2	0	-7	-9	
5300	5350	-1	-2	0	0	0	-1	-3	0	0	0	0	-2	0	-7	-9	
5350	5400	-1	-1	0	0	0	0	-3	0	0	0	0	-2	0	-5	-9	
5400	5450	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5450	5500	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5500	5550	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5550	5600	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5600	5650	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5650	5700	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5700	5750	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5750	5800	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5800	5850	-1	0	0	0	0	0	0	0	0	0	-1	-2	0	-3	-2	Private Water supply - alignment at grade
5850	5900	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5900	5950	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
5950	6000	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6000	6050	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6050	6100	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6100	6150	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6150	6200	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6200	6250	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6250	6300	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6300	6350	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6350	6400	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6400	6450	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6450	6500	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6500	6550	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6550	6600	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6600	6650	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6650	6700	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6700	6750	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6750	6800	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6800	6850	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
6850	6900	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 17m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
6900	6950	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
6950	7000	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7000	7050	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7050	7100	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7100	7150	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7150	7200	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7200	7250	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7250	7300	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
7300	7350	-1	-2	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	Cuttings up to 29m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
7350	7400	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7400	7450	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7450	7500	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7500	7550	-1	-3	0	0	0	-2	0	0	0	0	-2	-2	0	-7	-7	Wind Turbine within 100m of alignment combined with cuttings up to 28.5m in rock and construction access issues.
7550	7600	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	Cuttings up to 29m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
7600	7650	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7650	7700	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7700	7750	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7750	7800	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
7800	7850	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 19m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
7850	7900	-1	-2	0	0	0	-1	-1	0	0	0	0	-2	0	-5	-5	structure for side road crossing
7900	7950	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 19m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
7950	8000	-1	-2	0	0	0	0	0	0	0	0	0	-2	0	-3	-3	Cuttings up to 10m high in non-identified geotechnical constraint and rock combination of level difference and very difficult construction access
8000	8050	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8050	8100	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8100	8150	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8150	8200	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8200	8250	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8250	8300	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	Cuttings up to 12m high (but greater than 10m) in rock combination of level difference and very difficult construction access
8300	8350	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	
8350	8400	-1	-2	0	0	0	0	0	0	0	0	0	-2	0	-3	-3	combination of level difference and very difficult construction access
8400	8450	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8450	8500	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8500	8550	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
8550	8600	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 19m high (but greater than 10m) in rock combination of level difference and very difficult construction access
8600	8650	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
8650	8700	-1	-2	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	Cuttings up to 23m high (but greater than 10m) in rock combination of level difference and very difficult construction access
8700	8750	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
8750	8800	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
8800	8850	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
8850	8900	-1	-3	0	0	0	-2	0	0	0	0	0	-2	0	-5	-5	
8900	8950	-1	-3	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	Cuttings up to 16m high (but greater than 10m) in rock combination of level difference and very difficult construction access
8950	9000	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	

9000	9050	-1	-2	0	0	0	0	0	0	0	0	0	-2	0	-3	-3	combination of level difference and very difficult construction access
9050	9100	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9100	9150	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9150	9200	-1	0	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9200	9250	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9250	9300	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9300	9350	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9350	9400	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9400	9450	-1	-1	0	0	0	-1	0	0	0	0	0	-2	0	-3	-3	Embankments up to 13m high on non-identified geotechnical constraints combination of level difference and very difficult construction access
9450	9500	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
9500	9550	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
9550	9600	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
9600	9650	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
9650	9700	-1	-2	0	0	0	-1	0	0	0	0	0	-2	0	-4	-4	
9700	9750	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9750	9800	-1	-1	0	0	0	0	0	0	0	0	0	-2	0	-2	-2	
9800	9850	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	combination of level difference and very difficult construction access
9850	9900	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
9900	9950	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
9950	10000	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10000	10050	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10050	10100	-1	-1	0	0	0	-1	0	0	0	0	0	-3	0	-4	-4	Cuttings up to 12m high (but greater than 10m) in non-identified ground combination of level difference and very difficult construction access
10100	10150	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
10150	10200	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
10200	10250	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
10250	10300	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	combination of level difference and very difficult construction access
10300	10350	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10350	10400	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10400	10450	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10450	10500	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10500	10550	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10550	10600	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10600	10650	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10650	10700	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10700	10750	-1	0	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10750	10800	-1	-1	0	0	0	0	0	0	0	0	0	-3	0	-3	-3	
10800	10850	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings up to 19m high (but greater than 10m) in non-identified ground combination of level difference and very difficult construction access
10850	10900	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
10900	10950	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
10950	11000	-1	-2	0	0	0	-2	0	0	0	0	0	-3	0	-6	-6	Cuttings up to 20m high (but greater than 10m) in non-identified ground combination of level difference and very difficult construction access
11000	11050	-1	-2	0	0	0	-2	0	0	0	0	0	-3	0	-6	-6	
11050	11100	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings up to 18m high (but greater than 10m) in non-identified ground combination of level difference and very difficult construction access
11100	11150	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
11150	11200	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
11200	11250	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
11250	11300	-1	-2	0	0	0	-1	0	0	0	0	0	-3	0	-5	-5	
11300	11350	-1	-2	0	0	0	0	0	0	0	0	0	-2	-1	-3	-3	combination of level difference and very difficult construction access
11350	11400	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11400	11450	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11450	11500	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11500	11550	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11550	11600	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11600	11650	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11650	11700	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11700	11750	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11750	11800	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11800	11850	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11850	11900	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11900	11950	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
11950	12000	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12000	12050	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12050	12100	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12100	12150	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12150	12200	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12200	12250	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12250	12300	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12300	12350	-1	-1	0	0	0	-1	0	0	0	0	0	-2	-1	-3	-3	structure for side road crossing
12350	12400	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12400	12450	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12450	12500	-1	-1	0	0	0	0	0	0	0	0	-2	-2	-1	-4	-6	Fisherford Reservoir (1991) located within this alignment. Noted within Scottish Water GIS as operational with a volume of 0.032ML. Construction access issues also.
12500	12550	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12550	12600	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12600	12650	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12650	12700	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12700	12750	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12750	12800	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12800	12850	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12850	12900	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12900	12950	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
12950	13000	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13000	13050	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13050	13100	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13100	13150	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13150	13200	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13200	13250	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13250	13300	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13300	13350	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13350	13400	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13400	13450	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13450	13500	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13500	13550	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13550	13600	-1	-1	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13600	13650	-1	-1	0	0	0	0	0	0	0	0	-1	-1	-2	-3	-3	Private Water supply - adjacent to B992 crossing
13650	13700	-1	-1	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13700	13750	-1	-1	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13750	13800	-1	0	0	0	0	0	0	0	0	0	0	-1	-2	-2	-2	
13800	13850	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13850	13900	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13900	13950	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
13950	14000	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14000	14050	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14050	14100	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14100	14150	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	

14150	14200	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14200	14250	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14250	14300	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14300	14350	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14350	14400	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14400	14450	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14450	14500	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14500	14550	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14550	14600	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14600	14650	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14650	14700	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14700	14750	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14750	14800	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14800	14850	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14850	14900	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14900	14950	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
14950	15000	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15000	15050	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15050	15100	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15100	15150	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15150	15200	-1	0	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15200	15250	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15250	15300	-1	-1	0	0	0	-1	-2	0	0	0	0	-2	-1	-5	-6	Structure over the Black Burn - 200m on potentially compressible ground combination of level difference and difficult construction access and some local disrupton
15300	15350	-1	-1	0	0	0	-1	-2	0	0	0	0	-2	-1	-5	-6	
15350	15400	-1	-1	0	0	0	-1	-2	0	0	0	0	-2	-1	-5	-6	
15400	15450	-1	-1	0	0	0	-1	-2	0	0	0	0	-2	-1	-5	-6	
15450	15500	-1	-1	0	0	0	0	-2	0	0	0	0	-2	-1	-4	-6	
15500	15550	-1	-1	0	0	0	0	0	0	0	0	0	-2	-1	-2	-2	
15550	15600	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15600	15650	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15650	15700	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15700	15750	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15750	15800	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15800	15850	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15850	15900	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15900	15950	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
15950	16000	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16000	16050	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16050	16100	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16100	16150	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16150	16200	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16200	16250	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16250	16300	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16300	16350	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16350	16400	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16400	16450	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16450	16500	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16500	16550	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16550	16600	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16600	16650	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16650	16700	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16700	16750	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16750	16800	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16800	16850	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16850	16900	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16900	16950	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
16950	17000	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
17000	17050	-1	-1	0	0	0	0	0	0	0	0	0	-1	-1	-1	-1	
17050	17100	-1	-1	0	0	0	0	0	0	0	-1	0	-1	-1	-2	-2	
17100	17150																
17150	17200																



LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

Revision	First Fix Appraisal				
	JSE	RO	FM	GW	GH
P01	10/04/18	18/04/18	18/04/18	18/04/18	18/04/18

Revision	Revision details				
	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

Designer
Precision House
McNell Drive
Motherwell
ML1 4UR

Amey Arup

Client
58 Port Dundas Road
Glasgow
G4 0HF

TRANSPORT SCOTLAND

Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
D+02 - Engineering Appraisal

Project Ref. No.	Stage	Scale : 1:20,000 @A1
250002-92	Stage 2	Dimensions :

Drawing Number

Project	Originator	Volume		
A96PEA	-AMAR -	HGN -		
CD		-DR-CH-012001		
Location		Type	Role	Number

Suitability	Suitability Description	Revision
S2	For Information	P01.01

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules

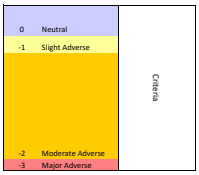
Total Score

= Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) +Utilities score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	-1	-3	0	-1	-3	-2	0	0	0	-1	0	-3	0	-7	-7	Deep cuttings through rock (19-30m). Moor area - difficult construction access
50	100	-1	-3	0	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Deep cuttings through rock (19-30m). Moor area - difficult construction access
100	150	-1	-3	0	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Deep cuttings through rock (19-30m). Moor area - difficult construction access
150	200	-1	-3	0	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Deep cuttings through rock (19-30m). Moor area - difficult construction access
200	250	-1	-3	0	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Deep cuttings through rock (19-30m). Moor area - difficult construction access
250	300	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock. Moor area - difficult access
300	350	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock. Moor area - difficult access
350	400	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock. Moor area - difficult access
400	450	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock. Moor area - difficult access
450	500	-1	-2	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
500	550	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
550	600	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
600	650	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
650	700	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
700	750	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
750	800	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
800	850	-1	-1	0	-1	-3	0	-1	0	0	0	0	-3	0	-5	-5	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
850	900	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
900	950	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
950	1000	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1000	1050	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1050	1100	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1100	1150	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1150	1200	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1200	1250	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1250	1300	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1300	1350	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1350	1400	-1	0	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1400	1450	-1	0	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1450	1500	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1500	1550	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Minor / neutral earthworks. Difficult construction access. Overall high earthworks volumes
1550	1600	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock.Difficult access. Overall high earthworks volumes
1600	1650	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock.Difficult access. Overall high earthworks volumes
1650	1700	-1	-2	0	-1	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings greater than 10m through rock.Difficult access. Overall high earthworks volumes
1700	1750	-1	-1	0	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings greater than 10m through rock.Difficult access. Overall high earthworks volumes
1750	1800	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
1800	1850	-1	0	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
1850	1900	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
1900	1950	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
1950	2000	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2000	2050	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2050	2100	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2100	2150	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2150	2200	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2200	2250	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2250	2300	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2300	2350	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2350	2400	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2400	2450	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2450	2500	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2500	2550	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2550	2600	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2600	2650	-1	0	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2650	2700	-1	0	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2700	2750	-1	0	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2750	2800	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2800	2850	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2850	2900	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2900	2950	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
2950	3000	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3000	3050	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3050	3100	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3100	3150	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3150	3200	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3200	3250	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access

3250	3300	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3300	3350	-1	-1	0	-1	-3	0	0	0	0	0	0	-2	0	-3	-3	Earthworks under 10m. Overall high earthworks volumes. Moderate adverse construction access
3350	3400	-1	-1	0	-1	-3	0	-3	0	0	0	0	-2	0	-6	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3400	3450	-1	-1	0	-1	-3	0	-3	0	0	0	0	-2	0	-6	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3450	3500	-1	-2	0	-1	-3	-1	-3	0	0	0	0	-2	0	-7	-9	New bridge over river urie and flood plain. Total length 450m
3500	3550	-1	-2	0	-1	-3	-2	-3	0	0	0	0	-2	0	-8	-9	New bridge over river urie and flood plain. Total length 450m
3550	3600	-1	-2	0	-1	-3	-2	-3	0	0	0	0	-2	0	-8	-9	New bridge over river urie and flood plain. Total length 450m
3600	3650	-1	-3	0	-1	-3	-3	-3	0	0	-2	0	-2	0	-10	-10	New bridge over river urie and flood plain. Total length 450m
3650	3700	-1	-3	0	-1	-3	-3	-3	0	0	0	0	-2	0	-10	-10	New bridge over river urie and flood plain. Total length 450m
3700	3750	-1	-3	0	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge over river urie and flood plain. Total length 450m
3750	3800	-1	-2	0	-1	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3800	3850	-1	-1	0	-1	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3850	3900	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection works without excessive disruption
3900	3950	-1	0	0	-1	-3	0	0	0	0	0	-1	0	-1	-3	-3	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption. Traffic scotland assets present
3950	4000	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption
4000	4050	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption
4050	4100																



Rules

Total Score

= Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) +Utilities score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	-1	-2	0	-3	-3	0	0	0	-1	0	-3	0	-8	-8	Cutting through peat up to 7m deep. Difficult construction access
50	100	0	-1	-2	0	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cutting through peat up to 7m deep. Difficult construction access
100	150	0	-1	-2	0	-3	-3	0	0	0	0	0	-3	0	-7	-7	Cutting through peat up to 7m deep. Difficult construction access
150	200	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
200	250	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
250	300	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
300	350	0	-1	-2	0	-3	0	-1	0	0	0	0	-3	0	-5	-5	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
350	400	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
400	450	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
450	500	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
500	550	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
550	600	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
600	650	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
650	700	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
700	750	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
750	800	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
800	850	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
850	900	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Cuttings and embankments through / upon rock. Alignment subject to high earthworks volumes. Difficult construction access
900	950	0	-1	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankment up to 17m upon rock. Difficult access. High earthworks volumes
950	1000	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankment up to 17m upon rock. Difficult access. High earthworks volumes
1000	1050	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankment up to 17m upon rock. Difficult access. High earthworks volumes
1050	1100	0	-2	-2	0	-3	-2	0	0	0	0	0	-3	0	-6	-6	Embankment up to 15m upon rock. Difficult access. High earthworks volumes
1100	1150	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankment up to 17m upon rock. Difficult access. High earthworks volumes
1150	1200	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Embankment up to 17m upon rock. Difficult access. High earthworks volumes
1200	1250	0	-2	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access.High earthworks volumes
1250	1300	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access.High earthworks volumes
1300	1350	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access.High earthworks volumes
1350	1400	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access.High earthworks volumes
1400	1450	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access.High earthworks volumes
1450	1500	0	-1	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings 10-15m through rock. Difficult access. High earthworks volumes
1500	1550	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings 10-15m through rock. Difficult access. High earthworks volumes
1550	1600	0	-2	-2	0	-3	-1	0	0	0	0	0	-3	0	-5	-5	Cuttings 10-15m through rock. Difficult access. High earthworks volumes
1600	1650	0	-2	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1650	1700	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1700	1750	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1750	1800	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1800	1850	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1850	1900	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1900	1950	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
1950	2000	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2000	2050	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2050	2100	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2100	2150	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2150	2200	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2200	2250	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2250	2300	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2300	2350	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2350	2400	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2400	2450	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2450	2500	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2500	2550	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2550	2600	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2600	2650	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2650	2700	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2700	2750	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2750	2800	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes
2800	2850	0	-1	-2	0	-3	0	0	0	0	0	0	-3	0	-4	-4	Low Cuttings / embankments upon rock / unknown ground. Difficult access. High earthworks volumes

2850	2900	0	-1	-2	0	-3	0	-3	0	0	0	0	-3	0	-7	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
2900	2950	0	-1	-2	0	-3	-1	-3	0	0	0	0	-3	0	-8	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
2950	3000	0	-2	-2	0	-3	-2	-3	0	0	0	0	-3	0	-9	-9	New bridge over river urie and flood plain. Total length 650m
3000	3050	0	-2	-2	0	-3	-2	-3	0	0	0	0	-3	0	-9	-9	New bridge over river urie and flood plain. Total length 650m
3050	3100	0	-3	-2	0	-3	-3	-3	0	0	0	0	-3	0	-11	-11	New bridge over river urie and flood plain. Total length 650m
3100	3150	0	-3	-2	0	-3	-3	-3	0	0	0	0	-3	0	-11	-11	New bridge over river urie and flood plain. Total length 650m
3150	3200	0	-3	-2	0	-3	-3	-3	0	0	0	0	-3	0	-11	-11	New bridge over river urie and flood plain. Total length 650m
3200	3250	0	-3	-2	0	-3	-3	-3	0	0	0	0	-3	0	-11	-11	New bridge over river urie and flood plain. Total length 650m
3250	3300	0	-3	-2	0	-3	-3	-3	0	0	0	0	0	-1	-9	-9	New bridge over river urie and flood plain. Total length 650m
3300	3350	0	-3	-2	0	-3	-3	-3	0	0	0	0	0	-1	-9	-9	New bridge over river urie and flood plain. Total length 650m
3350	3400	0	-3	-2	0	-3	-2	-3	0	0	0	0	0	-1	-8	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
3400	3450	0	-2	-2	0	-3	-1	-3	0	0	0	0	0	-1	-6	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
3450	3500	0	-2	-2	0	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
3500	3550	0	-1	-2	0	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 650m. Score adjusted to reflect geotechnical engineering for structure
3550	3600	0	0	-2	0	-3	0	0	0	0	0	0	0	-1	-2	-2	Tie in with A96
3600	3650	-1	-3	0	-1	-3	-3	-3	0	0	-2	0	-2	0	-10	-10	New bridge over river urie and flood plain. Total length 450m
3650	3700	-1	-3	0	-1	-3	-3	-3	0	0	0	0	-2	0	-10	-10	New bridge over river urie and flood plain. Total length 450m
3700	3750	-1	-3	0	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge over river urie and flood plain. Total length 450m
3750	3800	-1	-2	0	-1	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3800	3850	-1	-1	0	-1	-3	0	-3	0	0	0	0	0	-1	-5	-9	New bridge over river urie and flood plain. Total length 450m. Score adjusted to reflect geotechnical engineering to support structure
3850	3900	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection works without excessive disruption
3900	3950	-1	0	0	-1	-3	0	0	0	0	0	-1	0	-1	-3	-3	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption. Traffic scotland assets present
3950	4000	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption
4000	4050	-1	0	0	-1	-3	0	0	0	0	0	0	0	-1	-2	-2	Minor disruption to users at tie in point. Considered viable to manage connection without excessive disruption
4050	4100																Cuttings up to 12.2m high in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
4100	4150																Cuttings up to 30.2m high in rock combination of level difference, hilliness, bendiness and earthworks/m Difficult construction access
4150	4200																
4200	4250																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules

Total Score

= Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) +Utilities score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 3/4 ambers

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
50	100	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
100	150	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
150	200	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
200	250	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
250	300	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
300	350	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
350	400	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
400	450	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
450	500	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
500	550	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
550	600	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
600	650	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
650	700	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
700	750	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
750	800	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
800	850	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
850	900	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
900	950	0	-1	-2	-2	0	0	-1	0	0	0	0	-2	-2	-4	-4	New underbridge over Mill Burn and local road, length 100m. Moderate access
950	1000	0	-1	-2	-2	0	-1	-1	0	0	0	0	-2	-2	-5	-5	New underbridge over Mill Burn and local road, length 100m. Moderate access
1000	1050	0	-2	-2	-2	0	0	-1	0	0	0	0	-2	-2	-4	-4	New underbridge over Mill Burn and local road, length 100m. Moderate access
1050	1100	0	-1	-2	-2	0	0	-1	0	0	0	0	-2	-2	-4	-4	New underbridge over Mill Burn and local road, length 100m. Moderate access
1100	1150	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1150	1200	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1200	1250	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1250	1300	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1300	1350	0	-1	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1350	1400	0	-2	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1400	1450	0	-2	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1450	1500	0	-2	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1500	1550	0	-2	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1550	1600	0	-2	-2	-2	0	-1	0	0	0	0	0	-2	-2	-4	-4	Cuttings up to 14m through unknown ground. Moderate access
1600	1650	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1650	1700	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1700	1750	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1750	1800	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1800	1850	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1850	1900	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1900	1950	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
1950	2000	0	0	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
2000	2050	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
2050	2100	0	-1	-2	-2	0	0	0	0	0	0	0	-2	-2	-3	-3	Moderate Hilliness Bendiness. Low earthworks volumes. Moderate access
2100	2150	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2150	2200	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2200	2250	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2250	2300	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2300	2350	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2350	2400	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2400	2450	0	-2	-2	-2	0	-1	-3	0	0	0	0	-2	-2	-7	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2450	2500	0	-2	-2	-2	0	-1	-3	0	0	0	0	-2	-2	-7	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2500	2550	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2550	2600	0	-1	-2	-2	0	0	-3	0	0	0	0	-2	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2600	2650	0	-1	-2	-2	0	-1	-3	0	0	0	0	-2	-2	-7	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.

2650	2700	0	-2	-2	-2	0	-1	-3	0	0	0	0	-2	-2	-7	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2700	2750	0	-2	-2	-2	0	-2	-3	0	0	0	0	-2	-2	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2750	2800	0	-2	-2	-2	0	-2	-3	0	0	0	0	-2	-2	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2800	2850	0	-2	-2	-2	0	-2	-3	0	0	0	0	0	-2	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2850	2900	0	-2	-2	-2	0	0	-3	0	0	0	0	0	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2900	2950	0	-1	-2	-2	0	0	-3	0	0	0	0	0	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 800m. Score adjusted to reflect geotechnical works associated with structure.
2950	3000	0	0	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3000	3050	0	0	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3050	3100	0	0	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3100	3150	0	-1	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3150	3200	0	-1	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3200	3250	0	0	-2	-2	0	0	0	0	0	0	0	0	-2	-3	-3	Earthworks <10m to tie in with A96. Moderate disruption to existing road users
3250	3300																
3300	3350																

0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

Criteria

Rules

Total Score

= Alignment Score (Average of E, F, G, H and I) + Geo Score + Structures Score + Flooding Score (Average of L, M and N) +Utilities score + Constructability Score (Minimum value of P&Q) = Total of 6 scores for 6 categories

Then if total < or equal to -9 then should be coloured red because this represents possibility of 3 reds or 4 ambers
If total is between -6 and -8 should be coloured amber since this could represent 2 reds or 2/4 ambers

Chainage		Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability		Score		
Start Chainage	End Chainage	Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access	Temp disruption	Total	Adjusted	Comments
0	50	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Difficult construction access. Route wide high earthworks volume
50	100	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Difficult construction access. Route wide high earthworks volume
100	150	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	Difficult construction access. Route wide high earthworks volume
150	200	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
200	250	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
250	300	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
300	350	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
350	400	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
400	450	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
450	500	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m thorugh rock. Difficult access
500	550	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
550	600	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
600	650	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
650	700	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
700	750	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
750	800	0	-3	-2	-1	-3	-2	0	0	0	0	0	-3	0	-7	-7	Cuttings 20-23m through rock.Difficult access
800	850	0	-3	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m through rock
850	900	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m through rock
900	950	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m through rock
950	1000	0	-2	-2	-1	-3	-1	0	0	0	0	0	-3	0	-6	-6	Cuttings 10-17m through rock
1000	1050	0	-2	-2	-1	-3	0	0	0	0	0	0	-3	0	-5	-5	At grade or low earthworks. Difficult access. High earthworks volumes
1050	1100	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1100	1150	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1150	1200	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1200	1250	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1250	1300	0	0	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1300	1350	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1350	1400	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1400	1450	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1450	1500	0	-1	-2	-1	-3	0	0	0	0	0	0	-3	0	-4	-4	At grade or low earthworks. Difficult access. High earthworks volumes
1500	1550	0	-1	-2	-1	-3	0	-3	0	0	0	0	-2	0	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1550	1600	0	-1	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-7	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1600	1650	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1650	1700	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1700	1750	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1750	1800	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1800	1850	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1850	1900	0	-2	-2	-1	-3	-1	-3	0	0	0	0	-2	0	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
1900	1950	0	-2	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
1950	2000	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2000	2050	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2050	2100	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2100	2150	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2150	2200	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2200	2250	0	-3	-2	-1	-3	-2	-3	0	0	0	0	-2	0	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2250	2300	0	-3	-2	-1	-3	-3	-3	0	0	0	0	-2	0	-10	-10	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2300	2350	0	-3	-2	-1	-3	-3	-3	0	0	0	0	0	-2	-10	-10	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2350	2400	0	-3	-2	-1	-3	-2	-3	0	0	0	0	0	-2	-9	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m
2400	2450	0	-2	-2	-1	-3	-1	-3	0	0	0	0	0	-2	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
2450	2500	0	-2	-2	-1	-3	-1	-3	0	0	0	0	0	-2	-8	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
2500	2550	0	-1	-2	-1	-3	0	-3	0	0	0	0	0	-2	-6	-9	New bridge/viaduct over watercourses, river urie, flood plain and local farm roads. Total length 1000m. Appraisal adjusted to reflect geotechnical works to support structure
2550	2600	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-2	-3	-3	Earthworks to tie into existing A96. Disruption to existing road users of local road. High earthworks volumes route wide
2600	2650	0	0	-2	-1	-3	0	0	0	0	0	0	0	-2	-3	-3	Earthworks to tie into existing A96. Disruption to existing road users of local road. High earthworks volumes route wide
2650	2700	0	-1	-2	-1	-3	0	0	0	0	0	0	0	-2	-3	-3	Earthworks to tie into existing A96. Disruption to existing road users of local road. High earthworks volumes route wide
2700	2750	0	0	-2	-1	-3	0	0	0	0	0	0	0	-2	-3	-3	Earthworks to tie into existing A96. Disruption to existing road users of local road. High earthworks volumes route wide
2750	2800	0	0	-2	-1	-3	0	0	0	0	0	0	0	-2	-3	-3	Earthworks to tie into existing A96. Disruption to existing road users of local road. High earthworks volumes route wide
2800	2850																
2850	2900																