

LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

P01	First Fix Appraisal				
	JSE	CP	CB	GW	GH
	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
 McNeill Drive
 Motherwell
 ML1 4UR



Client
 58 Port Dundas Road
 Glasgow
 G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
OLS - Engineering Appraisal

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

Drawing Number	Project	Originator	Volume
A96PEA	-AMAR	-HGN	-
CB	-DR-CH-103001		
Location	Type	Role	Number

Suitability	Suitability Description	Revision
S2	For Information	P01.01

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

Chainage	Start Chainage	End Chainage	Alignment										Constructability		Score	Adjusted	Total	Comments		
			Alignment Length	Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics	Structures	Flood Plain	Watercourse Crossings	Attenuation requirement	Utilities	Construction access					Temp disruption	
8200	8250		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-3	-3	SW distribution main present within alignment at chainage length
8250	8300		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8300	8350		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8350	8400		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8400	8450		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8450	8500		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8500	8550		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-3	-3	SGN high pressure pipe crossed alignment at this chainage length
8550	8600		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8600	8650		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8650	8700		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8700	8750		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8750	8800		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8800	8850		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8850	8900		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8900	8950		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
8950	9000		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9000	9050		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9050	9100		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9100	9150		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9150	9200		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9200	9250		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
9250	9300		0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	0	-4	-4	Potential contamination risk of existing ground due to made ground
9300	9350		0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	0	-4	-4	Potential contamination risk of existing ground due to made ground
9350	9400		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-5	-5	Potential contamination risk of existing ground due to landfill present
9400	9450		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-5	-8	R=731, 1 step below
9450	9500		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-5	-8	Potential contamination risk of existing ground due to landfill present
9500	9550		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-7	-8	R=731, 1 step below
9550	9600		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-7	-8	Potential contamination risk of existing ground due to landfill present
9600	9650		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-4	-8	R=731, 1 step below
9650	9700		0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	0	-4	-8	R=731, 1 step below
9700	9750		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-8	Assume cut in made ground (cemetery) which has a potential contamination risk
9750	9800		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-8	R=731, 1 step below
9800	9850		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-8	R=731, 1 step below
9850	9900		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-8	R=731, 1 step below
9900	9950		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-8	R=731, 1 step below
9950	10000		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-8	R=731, 1 step below
10000	10050		0	0	-2	-1	0	0	-2	0	0	0	0	0	0	0	0	-3	-3	Insufficient clearance headroom on existing structure
10050	10100		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-2	-2	
10100	10150		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-2	-2	
10150	10200		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-2	-2	
10200	10250		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-2	-2	
10250	10300		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-3	-3	
10300	10350		0	0	-2	-1	0	-1	0	-1	0	0	0	0	0	0	0	-2	-2	
10350	10400		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10400	10450		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10450	10500		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10500	10550		0	0	-2	-1	0	0	-1	0	0	0	0	0	0	0	0	-3	-6	
10550	10600		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10600	10650		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10650	10700		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	
10700	10750		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	
10750	10800		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	
10800	10850		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	
10850	10900		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	
10900	10950		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
10950	11000		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-2	-2	
11000	11050		0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1	

11050	11100	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	
11100	11150	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	
11150	11200	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	
11200	11250	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-8	R = 853, 1 step below
11250	11300	0	0	-2	-1	0	0	0	0	0	0	-2	0	-3	-8	R = 853, 1 step below
11300	11350	0	0	-2	-1	0	0	0	0	0	0	-2	0	-3	-8	SW Distribution main present at this location R = 853, 1 step below
11350	11400	0	0	-2	-1	0	0	0	0	0	0	-2	0	-3	-8	SW Distribution main present at this location R = 853, 1 step below
11400	11450	0	0	-2	-1	0	0	0	0	0	0	-2	0	-3	-8	SW Distribution main present at this location R = 853, 1 step below
11450	11500	0	0	-2	-1	0	0	0	0	0	0	-2	0	-3	-8	SW Distribution main present at this location R = 853, 1 step below
11500	11550	0	0	-2	-1	0	-1	0	0	0	0	0	0	-2	-8	R = 853, 1 step below
11550	11600	0	0	-2	-1	0	-1	0	0	0	0	0	0	-2	-8	R = 853, 1 step below
11600	11650	0	0	-2	-1	0	-2	0	0	0	0	0	0	-3	-8	combination of at grade construction on peat and embankments up to 3m high on peat R = 853, 1 step below
11650	11700	0	0	-2	-1	0	-2	0	0	0	0	0	0	-3	-8	combination of at grade construction on peat and embankments up to 3m high on peat R = 853, 1 step below
11700	11750	0	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-8	combination of at grade construction on peat and embankments up to 3m high on peat R = 853, 1 step below
11750	11800	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 853, 1 step below
11800	11850	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 853, 1 step below
11850	11900	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 853, 1 step below
11900	11950	0	0	-2	-1	0	0	-1	0	0	0	0	0	-2	-8	R = 853, 1 step below
11950	12000	0	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-8	R = 853, 1 step below
12000	12050	0	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-8	Made ground potential contamination risk
12050	12100	0	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-6	Made ground potential contamination risk
12100	12150	0	0	-2	-1	0	0	0	0	0	0	0	0	-3	-3	Made ground potential contamination risk
12150	12200	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	
12200	12250	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-1	
12250	12300	0	0	-2	-1	0	0	0	0	0	0	0	0	-1	-6	
12300	12350	0	0	-2	-1	0	0	-1	-3	0	0	0	0	-3	-3	
12350	12400	0	0	-2	-1	0	0	0	-3	0	0	0	0	-2	-2	
12400	12450	0	0	-2	-1	0	0	0	-3	0	0	-1	0	-3	-3	
12450	12500	0	0	-2	-1	0	0	0	-3	0	0	0	0	-2	-2	
12500	12550	0	0	-2	-1	0	0	0	-3	0	0	0	0	-2	-2	
12550	12600	0	0	-2	-1	0	-1	0	-3	0	0	0	0	-3	-3	
12600	12650	0	0	-2	-1	0	-1	0	-2	0	0	0	0	-2	-2	
12650	12700	0	0	-2	-1	0	-1	0	-2	0	-1	-1	0	-4	-4	
12700	12750	0	0	-2	-1	0	-1	0	-2	0	0	0	0	-2	-2	
12750	12800	0	0	-2	-1	0	0	0	-2	0	0	0	0	-1	-1	
12800	12850	0	0	-2	-1	0	0	0	-2	0	0	-2	0	-3	-3	
12850	12900	0	0	-2	-1	0	0	0	-2	0	0	-2	0	-3	-3	
12900	12950	0	0	-2	-1	0	0	0	-2	0	0	-1	0	-2	-2	
12950	13000	0	0	-2	-1	0	-1	0	-2	0	0	-2	0	-4	-4	
13000	13050	0	0	-2	-1	0	-1	0	0	0	0	-2	0	-4	-4	
13050	13100	0	0	-2	-1	0	-1	0	0	0	0	-1	0	-3	-3	
13100	13150	0	0	-2	-1	0	-1	0	0	0	0	-1	0	-3	-3	
13150	13200	0	0	-2	-1	0	-1	0	0	0	0	-1	0	-3	-3	
13200	13250	0	0	-2	-1	0	-1	0	0	0	0	-1	0	-3	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13250	13300	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13300	13350	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13350	13400	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13400	13450	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13450	13500	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	NB - R = 651, SB - R = 860, NB - 2 step below, SB - 1 step below Online alteration possible
13500	13550	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13550	13600	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13600	13650	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13650	13700	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13700	13750	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13750	13800	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13800	13850	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13850	13900	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13900	13950	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
13950	14000	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14000	14050	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14050	14100	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14100	14150	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14150	14200	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14200	14250	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14250	14300	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14300	14350	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	
14350	14400	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14400	14450	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14450	14500	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14500	14550	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14550	14600	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14600	14650	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14650	14700	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14700	14750	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14750	14800	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14800	14850	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14850	14900	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-8	R = 974, 1 step below. Online alteration possible
14900	14950	0	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2	

14950	15000	0	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1		
15000	15050	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15050	15100	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15100	15150	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15150	15200	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15200	15250	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15250	15300	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15300	15350	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15350	15400	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15400	15450	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15450	15500	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15500	15550	0	0	-2	-1	0	0	0	0	0	0	-3	0	0	0	-4	-4	Crossing of 900mm National Grid Pipeline at this point. Proposed Road level to match existing at First Fix Stage. National Grid Pipelines Officer advised that Heavy Wall Pipe in place at this crossing.
15550	15600	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15600	15650	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15650	15700	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15700	15750	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15750	15800	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15800	15850	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15850	15900	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
15900	15950	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
15950	16000	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
16000	16050	0	0	-2	-1	0	0	0	0	0	0	-2	0	0	0	-3	-3	SW distribution main present within alignment at chainage length
16050	16100	0	0	-2	-1	0	0	0	0	0	0	-2	0	0	0	-3	-3	SW distribution main present within alignment at chainage length
16100	16150	0	0	-2	-1	0	-1	0	0	0	0	-2	0	0	0	-4	-4	SW distribution main present within alignment at chainage length
16150	16200	0	0	-2	-1	0	-1	0	0	0	0	-2	0	0	0	-4	-4	SW distribution main present within alignment at chainage length
16200	16250	0	0	-2	-1	0	-1	0	0	0	0	-2	0	0	0	-4	-4	SW distribution main present within alignment at chainage length
16250	16300	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
16300	16350	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
16350	16400	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
16400	16450	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
16450	16500	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
16500	16550	0	0	-2	-1	0	-1	0	0	0	0	-3	0	0	0	-5	-5	Crossing of 900mm National Grid Pipeline at this point. Proposed Road level to match existing at First Fix Stage. National Grid Pipelines Officer advised that Heavy Wall Pipe in place at this crossing.
16550	16600	0	0	-2	-1	0	-1	0	0	0	0	-3	0	0	0	-5	-5	Crossing of 900mm National Grid Pipeline at this point. Proposed Road level to match existing at First Fix Stage. National Grid Pipelines Officer advised that Heavy Wall Pipe in place at this crossing.
16600	16650	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16650	16700	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16700	16750	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16750	16800	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16800	16850	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16850	16900	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16900	16950	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
16950	17000	0	0	-2	-1	0	-1	0	-2	0	0	0	0	0	0	-2	-2	
17000	17050	0	0	-2	-1	0	-1	0	-3	0	0	0	0	0	0	-3	-3	
17050	17100	0	0	-2	-1	0	-1	0	-3	0	0	0	0	0	0	-3	-3	
17100	17150	0	0	-2	-1	0	-1	0	-3	0	0	0	0	0	0	-3	-3	
17150	17200	0	0	-2	-1	0	-1	0	-3	0	0	-1	0	0	0	-4	-4	
17200	17250	0	0	-2	-1	0	-1	0	-2	0	0	-1	0	0	0	-3	-3	
17250	17300	0	0	-2	-1	0	-1	0	-2	0	0	-1	0	0	0	-3	-3	
17300	17350	0	0	-2	-1	0	-1	0	-2	0	0	-1	0	0	0	-3	-3	
17350	17400	0	0	-2	-1	0	-1	0	-2	0	0	-1	0	0	0	-3	-3	
17400	17450	0	0	-2	-1	0	-1	0	-2	0	0	-1	0	0	0	-3	-3	
17450	17500	0	0	-2	-1	0	-1	0	0	0	0	0	0	0	0	-2	-2	
17500	17550	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
17550	17600	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
17600	17650	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
17650	17700	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
17700	17750	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
17750	17800	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-2	
17800	17850	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
17850	17900	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-8	Existing alignment gradient greater than 4%
17900	17950	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-8	Existing alignment gradient greater than 4%
17950	18000	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
18000	18050	0	0	-2	-1	0	-3	0	0	0	0	-1	0	0	0	-5	-5	Assume cut in made ground (Landfill) which has a potential contamination risk
18050	18100	0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	-4	-8	Existing gradient greater than 4%
18100	18150	0	0	-2	-1	0	-3	0	0	0	0	0	0	0	0	-4	-4	Assume cut in made ground (Landfill) which has a potential contamination risk
18150	18200	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
18200	18250	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
18250	18300	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
18300	18350	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
18350	18400	0	0	-2	-1	0	0	0	0	0	0	0	0	0	0	-1	-8	R = 565, 2 step below
18400	18450	0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	-3	-8	Made in ground, potential contamination risk
18450	18500	0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	-3	-8	Made in ground, potential contamination risk
18500	18550	0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	-3	-8	Made in ground, potential contamination risk
18550	18600	0	0	-2	-1	0	-2	0	0	0	0	0	0	0	0	-3	-8	Made in ground, potential contamination risk
18600	18650	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	0	-4	-8	Made in ground, potential contamination risk
18650	18700	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-8	R = 565, 2 step below
18700	18750	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-8	R = 565, 2 step below
18750	18800	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	0	-2	-8	R = 883, 1 Step below

18800	18850	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 883, 1 Step below
18850	18900	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 883, 1 Step below
18900	18950	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-4	-8	Made in ground, potential contamination risk R = 883, 1 Step below
18950	19000	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-4	-8	Made in ground, potential contamination risk R = 883, 1 Step below
19000	19050	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-4	-8	Made in ground, potential contamination risk R = 883, 1 Step below
19050	19100	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-4	-8	Made in ground, potential contamination risk
19100	19150	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 379, 2 step below
19150	19200	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 379, 2 step below
19200	19250	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
19250	19300	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
19300	19350	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
19350	19400	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
19400	19450	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
19450	19500	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19500	19550	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19550	19600	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19600	19650	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	Existing alignment gradient greater than 4%
19650	19700	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19700	19750	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19750	19800	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-8	R = 705, 2 step below
19800	19850	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-4	-8	Made in ground, potential contamination risk
19850	19900	0	0	-2	-1	0	-2	0	0	0	0	-1	0	0	-3	-3	Made in ground, potential contamination risk
19900	19950	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
19950	20000	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20000	20050	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20050	20100	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20100	20150	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20150	20200	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20200	20250	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	R = 984, 1 Step below. Online alteration possible
20250	20300	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	R = 984, 1 Step below. Online alteration possible
20300	20350	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	R = 984, 1 Step below. Online alteration possible
20350	20400	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	R = 984, 1 Step below. Online alteration possible
20400	20450	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	Existing alignment gradient greater than 4%
20450	20500	0	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-8	R = 984, 1 Step below. Online alteration possible Existing alignment gradient greater than 4%
20500	20550	0	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-8	R = 984, 1 Step below. Online alteration possible Existing alignment gradient greater than 4%
20550	20600	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
20600	20650	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	Existing alignment gradient greater than 4% (level difference 2.022)
20650	20700	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	
20700	20750	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	Existing alignment gradient greater than 4% (level difference 2.015)
20750	20800	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	
20800	20850	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	Existing alignment gradient greater than 4%
20850	20900	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	
20900	20950	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-8	Existing alignment gradient greater than 4%
20950	21000	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
21000	21050	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	
21050	21100	0	0	-2	-1	0	0	0	0	0	0	-1	0	0	-1	-1	

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

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

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

Channage	Start Channage	End Channage	Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability	Score		Comments	
			Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics			Structures	Flood Plan	Watercourse Crossings			Attenuation requirement	Construction access		Temp disruption
0	50		-2	0	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	
50	100		-2	0	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	
100	150		-2	0	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	
150	200		-2	0	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	
200	250		-2	0	-1	0	0	0	0	0	0	0	-1	0	-2	-4	-4	
250	300		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
300	350		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
350	400		-2	0	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
400	450		-2	0	-1	0	0	0	0	0	0	0	0	0	0	0	-1	-1
450	500		-2	0	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
500	550		-2	0	-1	0	0	0	0	0	0	0	0	0	0	-1	-1	
550	600		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
600	650		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
650	700		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
700	750		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
750	800		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
800	850		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
850	900		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
900	950		-2	0	-1	0	0	0	0	0	0	0	-1	0	0	-2	-2	
950	1000		-2	0	-1	0	-2	0	0	0	0	0	-1	0	0	-4	-4	
1000	1050		-2	0	-1	0	-2	0	0	0	0	0	-1	0	0	-4	-4	
1050	1100		-2	0	-1	0	-2	0	0	0	0	0	-1	0	0	-4	-4	
1100	1150		-2	0	-1	0	-2	0	0	0	0	0	-1	0	0	-4	-4	
1150	1200		-2	0	-1	0	-1	-1	0	0	0	0	-1	-1	0	-5	-5	
1200	1250		-2	0	-1	0	-1	0	-1	0	0	0	-1	-1	0	-4	-4	
1250	1300		-2	0	-1	0	-1	0	-1	0	0	0	-1	-1	0	-4	-4	
1300	1350		-2	0	-1	0	-1	0	-1	0	0	0	-1	-1	0	-4	-4	
1350	1400		-2	0	-1	0	-1	0	-1	0	0	0	-1	-1	0	-4	-4	
1400	1450		-2	0	-1	0	-3	0	-1	0	0	0	-1	-1	0	-6	-6	Crossing pond present along this span, embankment on made ground -landfill with HV cable present
1450	1500		-2	-1	-2	-1	0	-3	0	0	0	0	-1	-1	-1	-6	-6	Crossing pond present along this span, embankment on made ground -landfill with HV cable present
1500	1550		-2	0	-1	0	-3	0	0	0	0	0	-1	-1	-1	-6	-6	Crossing pond present along this span, embankment on made ground -landfill with HV cable present
1550	1600		-2	0	-1	0	-3	0	0	0	0	0	-1	-1	0	-6	-6	Crossing pond present along this span, embankment on made ground -landfill with HV cable present
1600	1650		-2	0	-1	0	0	0	0	0	0	0	-1	-1	0	-3	-3	
1650	1700		-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	0	-3	-3	
1700	1750		-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	0	-2	-2	
1750	1800		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
1800	1850		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
1850	1900		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	-1	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
1900	1950		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	-1	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
1950	2000		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2000	2050		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2050	2100		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2100	2150		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2150	2200		-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2200	2250		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2250	2300		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2300	2350		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2350	2400		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2400	2450		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2450	2500		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2500	2550		-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. NG pipeline running parallel with level differences of proposed and existing ranging from 5m above to 5m below.
2550	2600		-2	-1	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
2600	2650		-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
2650	2700		-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
2700	2750		-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
2750	2800		-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	

2800	2850	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-2	-2		
2850	2900	-2	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-4		
2900	2950	-2	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-4		
2950	3000	-2	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-4		
3000	3050	-2	0	-2	-1	0	-2	0	0	0	0	-1	0	-4	-4		
3050	3100	-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. Slight cutting within this length with NG pipeline present along chainage length (crossing)
3100	3150	-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. Slight cutting within this length with NG pipeline present along chainage length (crossing)
3150	3200	-2	0	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-6	Adjusted to suit. Slight cutting within this length with NG pipeline present along chainage length (crossing)
3200	3250	-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
3250	3300	-2	0	-2	-1	0	0	0	0	0	0	-1	-1	-1	-2	-2	
3300	3350	-2	0	-2	-1	0	0	0	0	0	0	-1	-1	-1	-3	-3	
3350	3400	-2	0	-2	-1	0	0	0	0	0	0	-1	-1	-1	-2	-2	
3400	3450	-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	-2	-2	
3450	3500	-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	-2	-2	
3500	3550	-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	-1	-3	-3	
3550	3600	-2	-1	-2	-1	0	0	0	0	0	0	-1	-1	0	-3	-3	
3600	3650	-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-5	Adjusted to suit. Embankment of 2m +, should not affect utility(NG pipeline) or geotechnics
3650	3700	-2	-1	-2	-1	0	0	0	0	0	0	-3	-1	0	-5	-5	Adjusted to suit. Embankment of 2m +, should not affect utility(NG pipeline) or geotechnics
3700	3750	-2	-1	-2	-1	0	-1	0	0	0	0	-3	-1	0	-6	-5	Adjusted to suit. Embankment of 2m +, should not affect utility(NG pipeline) or geotechnics
3750	3800	-2	-1	-2	-1	0	-1	0	0	0	0	-3	-1	0	-6	-5	Adjusted to suit. Embankment of 2m +, should not affect utility(NG pipeline) or geotechnics
3800	3850	-2	0	-2	-1	0	-1	0	0	0	0	-1	0	0	-3	-3	Adjusted to suit. Embankment of 2m +, should not affect utility(NG pipeline) or geotechnics
3850	3900	-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
3900	3950	-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
3950	4000	-2	0	-2	-1	0	0	0	0	0	0	-2	-1	0	-4	-6	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
4000	4050	-2	0	-2	-1	0	0	0	0	0	0	-2	-3	0	-6	-6	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
4050	4100	-2	0	-2	-1	0	0	0	0	0	0	-2	-3	0	-6	-6	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
4100	4150	-2	0	-2	-1	0	0	0	0	0	0	-2	-3	0	-6	-6	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
4150	4200	-2	0	-2	-1	0	0	0	0	0	0	-2	-3	0	-6	-6	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
4200	4250	-2	0	-2	-1	0	0	0	0	0	0	-2	-3	0	-6	-6	
4250	4300	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4300	4350	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4350	4400	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4400	4450	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4450	4500	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4500	4550	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4550	4600	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4600	4650	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4650	4700	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4700	4750	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4750	4800	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4800	4850	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4850	4900	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4900	4950	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
4950	5000	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5000	5050	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5050	5100	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5100	5150	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5150	5200	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5200	5250	-2	-1	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5250	5300	-2	-1	-2	-1	0	0	0	-1	0	0	-3	0	0	-5	-5	
5300	5350	-2	0	-2	-1	0	0	0	-1	0	0	-3	0	0	-4	-4	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
5350	5400	-2	0	-2	-1	0	0	0	-1	0	0	-3	0	0	-4	-4	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
5400	5450	-2	0	-2	-1	0	0	0	-1	0	0	-3	0	0	-4	-4	Adjusted to suit. Proposed alignment only 1m above existing with potential to affect utility (pylons & HV cable crossings)
5450	5500	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5500	5550	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5550	5600	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5600	5650	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5650	5700	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5700	5750	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5750	5800	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5800	5850	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5850	5900	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5900	5950	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
5950	6000	-2	0	-2	-1	0	0	0	0	0	0	-3	0	0	-4	-4	
6000	6050	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6050	6100	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6100	6150	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6150	6200	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6200	6250	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6250	6300	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6300	6350	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6350	6400	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6400	6450	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6450	6500	-2	0	-2	-1	0	0	0	0	0	0	0	0	0	-1	-1	
6500	6550	-2	0	-2	-1	0	0	0	0	0	0	-1	0	0	-2	-2	
6550	6600	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-1	-3	-3	
6600	6650	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-1	-3	-3	
6650	6700	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-1	-3	-3	
6700	6750	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-1	-3	-3	
6750	6800	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-3	-5	-5	
6800	6850	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-3	-5	-5	
6850	6900	-2	0	-2	-1	0	0	0	0	0	0	-1	0	-3	-5	-5	
6900	6950	-2	0	-2	-1	0	0	0	0	0	0	0	0	-3	-4	-4	
6950	7000	-2	0	-2	-1	0	0	0	0	0	0	0	0	-3	-4	-4	
7000	7050																
7050	7100																

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

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

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

Chainage	Start Chainage	End Chainage	Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability	Score		Comments	
			Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics			Structures	Flood Plan	Watercourse Crossings			Attenuation requirement	Construction access		Temp disruption
0	50	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	-3	-5	-5	
50	100	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	-3	-5	-5	
100	150	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	-3	-5	-5	
150	200	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	-3	-5	-5	
200	250	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	-3	-5	-5	
250	300	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
300	350	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
350	400	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
400	450	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
450	500	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
500	550	0	0	-2	0	-3	0	0	0	0	0	0	-1	0	0	-2	-2	
550	600	0	0	-2	0	-3	0	0	0	0	0	0	0	0	0	-1	-1	
600	650	0	0	-2	0	-3	0	0	0	0	0	0	0	0	0	-1	-1	
650	700	0	0	-2	0	-3	-2	0	0	0	0	0	-3	0	0	-6	-6	NG pipeline within proposed alignment length with level difference of 1m below existing ground
700	750	0	0	-2	0	-3	-2	0	0	0	0	0	-3	0	0	-6	-6	NG pipeline within proposed alignment length with level difference of 1m below existing ground
750	800	0	0	-2	0	-3	-2	0	0	0	0	0	-3	-2	0	-8	-8	NG pipeline within proposed alignment length with level difference of 1m below existing ground
800	850	0	0	-2	0	-3	-2	0	0	0	0	0	-3	-2	0	-8	-8	NG pipeline within proposed alignment length with level difference of 1m below existing ground
850	900	0	0	-2	0	-3	-2	0	0	0	0	0	0	-2	0	-5	-5	
900	950	0	0	-2	0	-3	-2	0	0	0	0	0	-2	0	0	-5	-5	
950	1000	0	-1	-2	0	-3	-2	-1	0	0	0	0	-1	-2	0	-7	-7	Proposed alignment has HV cable crossing whilst levels are above existing
1000	1050	0	-1	-2	0	-3	-1	-1	0	0	0	0	-1	-1	0	-5	-5	
1050	1100	0	-1	-2	0	-3	-1	0	0	0	0	0	-1	-1	0	-4	-4	
1100	1150	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1150	1200	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1200	1250	0	-1	-2	0	-3	-3	0	0	0	0	0	-1	-1	0	-6	-6	Proposed alignment varies between cutting and embankments within potentially compressible material
1250	1300	0	-1	-2	0	-3	-3	0	0	0	0	0	-1	-1	-1	-6	-6	Proposed alignment varies between cutting and embankments within potentially compressible material
1300	1350	0	-1	-2	0	-3	-3	0	0	0	0	0	-1	-1	-1	-6	-6	Proposed alignment varies between cutting and embankments within potentially compressible material
1350	1400	0	-1	-2	0	-3	-3	0	0	0	0	0	-1	-1	-1	-6	-6	Proposed alignment varies between cutting and embankments within potentially compressible material
1400	1450	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1450	1500	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1500	1550	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	0	-4	-4	
1550	1600	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	0	-4	-4	
1600	1650	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	0	-4	-4	
1650	1700	0	-1	-2	0	-3	0	0	0	0	0	0	-2	-1	0	-4	-4	
1700	1750	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	
1750	1800	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	-1	-3	-3	
1800	1850	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1850	1900	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1900	1950	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
1950	2000	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
2000	2050	0	-1	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
2050	2100	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
2100	2150	0	0	-2	0	-3	0	0	0	0	0	0	-1	-1	0	-3	-3	
2150	2200	0	0	-2	0	-3	0	0	0	0	0	0	-3	-1	0	-5	-5	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2200	2250	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2250	2300	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2300	2350	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2350	2400	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2400	2450	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2450	2500	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2500	2550	0	0	-2	0	-3	0	0	0	0	0	0	-3	0	0	-4	-4	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2550	2600	0	0	-2	0	-3	-1	0	0	0	0	0	-3	0	0	-5	-5	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2600	2650	0	0	-2	0	-3	-1	0	0	0	0	0	-3	0	0	-5	-5	Proposed alignment has NG pipeline crossing along chainage length. Existing levels below proposed however maximum of 2m above
2650	2700	0	0	-2	0	-3	-1	0	0	0	0	0	0	0	0	-2	-2	
2700	2750	0	0	-2	0	-3	-2	0	0	0	0	0	0	0	-3	-6	-6	In cutting (peat) at existing onslip for A86
2750	2800	0	0	-2	0	-3	-2	-1	0	0	0	0	0	0	-3	-7	-7	In cutting (peat) at existing onslip for A87
2800	2850	0	0	-2	0	-3	-2	-1	0	0	0	0	-1	0	-3	-8	-8	In cutting (peat) at existing onslip for A88
2850	2900	0	0	-2	0	-3	1	0	0	0	0	0	-1	0	-3	-4	-4	

2900	2950	0	0	-2	0	-3	1	0	0	0	0	-1	0	-3	-4	-4
2950	3000	0	0	-2	0	-3	1	0	0	0	0	-1	0	-3	-4	-4
3000	3050	0	0	-2	0	-3	1	0	0	0	0	-1	0	-3	-4	-4
3050	3100	0	0	-2	0	-3	0	0	0	0	0	0	0	-3	-4	-4
3100	3150															

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

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

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

Channage	Start Channage	End Channage	Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability	Temp disruption	Score		Comments		
			Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics			Structures	Flood Plan	Watercourse Crossings				Attenuation requirement	Construction access		Utilities	Adjusted
0	50		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	-3	-6	-5	Adjusted - structure potential for lying in	
50	100		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	-3	-5	-5		
100	150		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	-3	-5	-5		
150	200		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	-3	-5	-5		
200	250		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	-3	-5	-5		
250	300		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	0	-2	-2		
300	350		-2	0	0	-2	-3	0	0	0	0	0	0	-1	0	0	-2	-2		
350	400		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
400	450		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
450	500		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
500	550		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
550	600		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
600	650		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
650	700		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
700	750		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
750	800		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
800	850		-2	-1	0	-2	-3	0	-1	0	0	0	0	0	0	0	-3	-3		
850	900		-2	-1	0	-2	-3	0	-1	0	0	0	0	0	0	0	-3	-3		
900	950		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
950	1000		-2	-1	0	-2	-3	0	-1	0	0	0	0	0	0	0	-3	-3		
1000	1050		-2	0	0	-2	-3	0	-1	0	0	0	0	0	0	0	-2	-2		
1050	1100		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1100	1150		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1150	1200		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1200	1250		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1250	1300		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
1300	1350		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1350	1400		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1400	1450		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1450	1500		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1500	1550		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1550	1600		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1600	1650		-2	0	0	-2	-3	0	0	0	0	0	0	0	0	0	-1	-1		
1650	1700		-2	-1	0	-2	-3	0	0	0	0	0	-1	0	0	0	-3	-3		
1700	1750		-2	-1	0	-2	-3	0	0	0	0	0	-1	0	0	0	-3	-3		
1750	1800		-2	-1	0	-2	-3	0	0	0	0	0	-1	0	0	0	-3	-3		
1800	1850		-2	-1	0	-2	-3	0	0	0	0	0	-1	0	0	0	-3	-3		
1850	1900		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-2	-2		
1900	1950		-2	-2	0	-2	-3	-1	0	0	0	0	-3	0	0	0	-6	-6	Proposed alignment has NG pipeline crossing at this point	
1950	2000		-2	-2	0	-2	-3	-1	0	0	0	0	0	0	0	0	-3	-3		
2000	2050		-2	-2	0	-2	-3	-1	0	0	0	0	0	0	0	-3	-6	-5	Adjusted to suit. Disruption being main cause for moderate	
2050	2100		-2	-2	0	-2	-3	-1	0	0	0	0	0	0	0	-3	-6	-5	Adjusted to suit. Disruption being main cause for moderate	
2100	2150		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-5	-5		
2150	2200		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-3	-5	-5	
2200	2250		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-3	-5	-5	
2250	2300		-2	-1	0	-2	-3	0	0	0	0	0	0	0	0	0	-3	-5	-5	
2300	2350		-2	-1	0	-2	-3	0	0	0	0	0	-1	0	0	-3	-6	-6	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2350	2400		-2	0	0	-2	-3	0	0	0	0	0	-2	0	0	-3	-6	-6	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2400	2450		-2	0	0	-2	-3	0	0	0	0	0	-2	0	0	-3	-6	-6	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2450	2500		-2	-1	0	-2	-3	0	0	0	0	0	-2	0	0	-3	-7	-7	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2500	2550		-2	0	0	-2	-3	-1	0	0	0	0	-2	0	0	-3	-7	-7	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2550	2600		-2	0	0	-2	-3	-1	0	0	0	0	-1	0	0	-3	-6	-6	Proposed alignment has SGN (medium pressure) & SW pipes located at this channage length	
2600	2650		-2	0	0	-2	-3	-1	0	0	0	0	0	0	0	0	-3	-5	-5	
2650	2700		-2	0	0	-2	-3	-1	0	0	0	0	-1	0	0	0	-3	-3	-3	
2700	2750		-2	-1	0	-2	-3	-1	0	0	0	0	-1	0	0	0	-4	-4	-4	
2750	2800		-2	-1	0	-2	-3	-1	0	0	0	0	-1	0	0	0	-4	-4	-4	
2800	2850		-2	-1	0	-2	-3	-1	0	0	0	0	-3	0	0	0	-6	-6	Proposed alignment has NG pipeline crossing at this point	
2850	2900		-2	-1	0	-2	-3	-1	0	0	0	0	-3	0	0	0	-6	-6	Proposed alignment has NG pipeline crossing at this point	
2900	2950		-2	-1	0	-2	-3	-1	0	0	0	0	-1	0	0	0	-4	-4	-4	
2950	3000		-2	-1	0	-2	-3	-1	0	0	0	0	0	0	0	0	-3	-3	-3	
3000	3050		-2	0	0	-2	-3	-1	0	0	0	0	0	0	0	0	-2	-2	-2	
3050	3100		-2	0	0	-2	-3	-1	0	0	0	0	0	0	0	0	-2	-2	-2	
3100	3150		-2	0	0	-2	-3	-1	0	-3	0	0	0	0	0	0	-3	-3	-3	
3150	3200		-2	0	0	-2	-3	-1	0	-3	0	0	0	0	0	0	-3	-3	-3	
3200	3250		-2	0	0	-2	-3	-1	0	-3	0	0	-2	0	0	0	-4	-4	-4	
3250	3300		-2	0	0	-2	-3	-1	0	-3	0	0	-1	0	0	0	-4	-4	-4	
3300	3350		-2	0	0	-2	-3	-1	0	-3	0	0	-1	-1	0	0	-5	-5	-5	

3350	3400	-2	0	0	-2	-3	-1	0	-3	0	0	-1	-1	0	-5	-5		
3400	3450	-2	0	0	-2	-3	-1	0	-3	-3	0	-1	-1	0	-6	-6	Crossing Watercourse	
3450	3500	-2	0	0	-2	-3	-1	0	-3	0	0	-1	-1	0	-5	-5		
3500	3550	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3550	3600	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3600	3650	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3650	3700	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3700	3750	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3750	3800	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3800	3850	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3850	3900	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3900	3950	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-4	-4		
3950	4000	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4000	4050	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4050	4100	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4100	4150	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4150	4200	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4200	4250	-2	0	0	-2	-3	-1	0	-3	0	0		-1	0	-3	-3		
4250	4300	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4300	4350	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4350	4400	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4400	4450	-2	0	0	-2	-3	0	0	0	0	0		-1	-1	-2	-2		
4450	4500	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4500	4550	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4550	4600	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4600	4650	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
4650	4700	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4700	4750	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4750	4800	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4800	4850	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4850	4900	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4900	4950	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
4950	5000	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
5000	5050	-2	0	0	-2	-3	0	0	0	0	0		-1	0	-2	-2		
5050	5100	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
5100	5150	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
5150	5200	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5200	5250	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5250	5300	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5300	5350	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5350	5400	-2	-3	0	-2	-3	-2	0	0	0	0		-1	0	-5	-5		
5400	5450	-2	-3	0	-2	-3	-2	0	0	0	0		-1	0	-5	-5		
5450	5500	-2	-2	0	-2	-3	-2	0	0	0	0		-1	0	-5	-5		
5500	5550	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5550	5600	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5600	5650	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5650	5700	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5700	5750	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
5750	5800	-2	-2	0	-2	-3	-1	0	0	0	0		0	0	-3	-3		
5800	5850	-2	-1	0	-2	-3	0	0	0	0	0		0	0	-2	-2		
5850	5900	-2	-1	0	-2	-3	0	0	0	0	0		0	0	-2	-2		
5900	5950	-2	-1	0	-2	-3	0	0	0	0	0		0	0	-2	-2		
5950	6000	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
6000	6050	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
6050	6100	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
6100	6150	-2	-1	0	-2	-3	0	0	0	0	0		-1	0	-3	-3		
6150	6200	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-4	-4		
6200	6250	-2	-2	0	-2	-3	-1	0	0	0	0		-1	0	-3	-7	-7	Proposed alignment has cutting in made ground (contamination potential) & up to 6.1m high in rock
6250	6300	-2	-2	0	-2	-3	-2	0	0	0	0		0	-3	-7	-7	Proposed alignment has cutting in made ground (contamination potential) & up to 6.1m high in rock	
6300	6350	-2	-2	0	-2	-3	-2	0	0	0	0		0	-3	-7	-7	Proposed alignment has cutting in made ground (contamination potential) & up to 6.1m high in rock	
6350	6400	-2	-1	0	-2	-3	-1	0	0	0	0		0	-3	-6	-6	Proposed alignment has cutting in made ground (contamination potential) & up to 6.1m high in rock	
6400	6450	-2	0	0	-2	-3	-1	0	0	0	0		0	-3	-5	-5		
6450	6500																	
6500	6550																	

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

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

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

Chainage	Start Chainage	End Chainage	Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability	Score	Comments		
			Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics			Structures	Flood Plain	Watercourse Crossings					Attenuation requirement	Construction access
0	50		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	-3	-8	-8	Proposed alignment has distribution main crossed at this chainage length
50	100		-1	0	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight from moderate as major factor being temp disruption. Potential compressible soils present
100	150		-1	0	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight from moderate as major factor being temp disruption. Potential compressible soils present
150	200		-1	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight from moderate as major factor being temp disruption. Potential compressible soils present
200	250		-1	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight from moderate as major factor being temp disruption. Potential compressible soils present
250	300		-1	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	
300	350		-1	-1	-2	-2	-3	-1	0	0	0	0	-3	0	0	-6	-6	Proposed alignment has NG pipeline crossing at chainage length
350	400		-1	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-3	-3	
400	450		-1	0	-2	-2	-3	-1	0	-3	0	0	0	0	0	-4	-4	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
450	500		-1	0	-2	-2	-3	-1	0	-3	0	0	-1	0	0	-5	-5	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
500	550		-1	0	-2	-2	-3	-1	-3	-3	0	-1	-1	0	0	-8	-8	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
550	600		-1	0	-2	-2	-3	-1	-3	-3	0	0	-1	0	0	-8	-8	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
600	650		-1	0	-2	-2	-3	-1	-3	-3	0	0	-1	0	0	-8	-8	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
650	700		-1	0	-2	-2	-3	-1	-3	-3	0	0	-1	0	0	-8	-8	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
700	750		-1	0	-2	-2	-3	-1	-3	-3	0	0	-1	0	0	-8	-8	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
750	800		-1	0	-2	-2	-3	-1	-3	-3	0	0	-1	-2	0	-10	-10	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
800	850		-1	0	-2	-2	-3	-1	-3	-3	-3	0	0	-2	0	-10	-10	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
850	900		-1	-1	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
900	950		-1	-1	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
950	1000		-1	-1	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1000	1050		-1	-1	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1050	1100		-1	-1	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1100	1150		-1	0	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1150	1200		-1	0	-2	-2	-3	-1	-3	-3	0	0	-2	0	0	-9	-9	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1200	1250		-1	0	-2	-2	-3	-1	0	-3	0	0	0	-2	0	-6	-6	Within flood plain & crossing watercourse at point within highlighted area. Structure requirement possibly.
1250	1300		-1	0	-2	-2	-3	-1	0	0	0	0	0	-2	0	-5	-5	
1300	1350		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	0	-5	-5	
1350	1400		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	0	-5	-5	
1400	1450		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	0	-5	-5	
1450	1500		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	0	-5	-5	
1500	1550		-1	0	-2	-2	-3	-1	0	0	0	0	-2	0	0	-5	-5	
1550	1600		-1	0	-2	-2	-3	0	0	0	0	0	-2	0	0	-4	-4	
1600	1650		-1	0	-2	-2	-3	0	0	0	0	0	-2	0	0	-4	-4	
1650	1700		-1	0	-2	-2	-3	0	0	0	0	0	-2	0	0	-4	-4	
1700	1750		-1	0	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
1750	1800		-1	0	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
1800	1850		-1	0	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
1850	1900		-1	0	-2	-2	-3	0	0	0	0	0	-1	-1	0	-3	-3	
1900	1950		-1	0	-2	-2	-3	0	0	0	0	0	-1	-1	0	-3	-3	
1950	2000		-1	-1	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
2000	2050		-1	-1	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
2050	2100		-1	-1	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
2100	2150		-1	-1	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
2150	2200		-1	-1	-2	-2	-3	0	0	0	0	0	-1	0	0	-3	-3	
2200	2250		-1	-2	-2	-2	-3	-1	0	0	0	0	-1	0	0	-4	-4	
2250	2300		-1	-2	-2	-2	-3	-1	0	0	0	0	-1	0	0	-4	-4	
2300	2350		-1	-2	-2	-2	-3	-1	0	0	0	0	-1	0	0	-4	-4	
2350	2400		-1	-2	-2	-2	-3	-1	0	0	0	0	-1	0	0	-4	-4	
2400	2450		-1	-2	-2	-2	-3	-2	0	0	0	0	-1	0	0	-5	-5	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2450	2500		-1	-2	-2	-2	-3	-2	0	0	0	0	-1	0	0	-5	-5	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2500	2550		-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].

2550	2600	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2600	2650	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2650	2700	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2700	2750	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2750	2800	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2800	2850	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2850	2900	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2900	2950	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
2950	3000	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3000	3050	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3050	3100	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3100	3150	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	-1	0	0	-5	-5	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3150	3200	-1	-3	-2	-2	-3	-2	0	0	0	0	0	0	0	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3200	3250	-1	-2	-2	-2	-3	-1	0	0	0	0	0	0	-1	0	0	-4	-4	Embankments up to 29.1m (but greater than 19m) high on non-identified geotechnical constraints. [Note historical tank noted between 3000 and 3100].
3250	3300	-1	-1	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-3	Adjusted to slight from moderate as major factor being temp disruption
3300	3350	-1	-1	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-5	Adjusted to slight from moderate as major factor being temp disruption
3350	3400	-1	0	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-5	Adjusted to slight from moderate as major factor being temp disruption
3400	3450	-1	0	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-5	Adjusted to slight from moderate as major factor being temp disruption
3450	3500	-1	0	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-5	Adjusted to slight from moderate as major factor being temp disruption
3500	3550	-1	0	-2	-2	-3	0	0	0	0	0	0	0	-1	0	0	-3	-5	Adjusted to slight from moderate as major factor being temp disruption
3550	3600																		
3600	3650																		

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

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

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

Channage	Start Channage	End Channage	Alignment					Structures	Geotechnics	Flooding and Drainage			Utilities	Constructability	Score		Comments	
			Level Difference	Bendiness	Hilliness	Earthworks	Alignment Length			Watercourse Crossings	Flood Plain	Structures			Geotechnics	Utilities		Attenuation requirement
0	50		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
50	100		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
100	150		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
150	200		0	-1	-2	-2	-3	0	0	0	0	0	-1	0	-3	-6	-5	Adjusted to suit. Utility (medium pressure) being several meters below proposed levels
200	250		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
250	300		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
300	350		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
350	400		0	0	-2	-2	-3	0	-1	0	0	0	-1	0	-1	-4	-4	
400	450		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
450	500		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
500	550		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
550	600		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
600	650		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-1	-3	-3	
650	700		0	0	-2	-2	-3	-2	0	0	0	0	-1	0	-1	-5	-5	Cutting in area of made/worked ground (potential contamination source)
700	750		0	0	-2	-2	-3	-2	0	0	0	0	-1	0	0	-4	-4	Cutting in area of made/worked ground (potential contamination source)
750	800		0	0	-2	-2	-3	0	0	0	0	0	-1	-1	0	-3	-3	
800	850		0	0	-2	-2	-3	0	0	0	0	0	-1	-1	0	-3	-3	
850	900		0	0	-2	-2	-3	0	0	0	0	0		-1	0	-2	-2	
900	950		0	0	-2	-2	-3	0	0	0	0	0		-1	0	-2	-2	
950	1000		0	0	-2	-2	-3	0	0	0	0	0		-1	0	-2	-2	
1000	1050		0	-1	-2	-2	-3	0	0	0	0	0		-1	0	-3	-3	
1050	1100		0	-1	-2	-2	-3	0	0	0	0	0		-1	0	-3	-3	
1100	1150		0	-1	-2	-2	-3	0	0	0	0	0		-1	0	-3	-3	
1150	1200		0	-1	-2	-2	-3	0	0	0	0	0		-1	0	-3	-3	
1200	1250		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1250	1300		0	-2	-2	-2	-3		0	0	0	0		-1	0	-3	-3	
1300	1350		0	-1	-2	-2	-3		0	0	0	0		-1	0	-3	-3	
1350	1400		0	-1	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1400	1450		0	-1	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1450	1500		0	-1	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1500	1550		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1550	1600		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1600	1650		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1650	1700		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1700	1750		0	-2	-2	-2	-3	-1	0	0	0	0		0	0	-3	-3	
1750	1800		0	-2	-2	-2	-3	-1	0	0	0	0		0	0	-3	-3	
1800	1850		0	-2	-2	-2	-3	-1	0	0	0	0		0	0	-3	-3	
1850	1900		0	-2	-2	-2	-3	-1	0	0	0	0		0	0	-3	-3	
1900	1950		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
1950	2000		0	-2	-2	-2	-3	-1	0	0	0	0		-1	0	-4	-4	
2000	2050		0	-1	-2	-2	-3	0	0	0	0	0	-1	0	-3	-6	-5	Adjusted to suit due to temp disruption being main factor for moderate
2050	2100		0	-1	-2	-2	-3	0	0	0	0	0	-1	0	-3	-6	-5	Adjusted to suit due to temp disruption being main factor for moderate
2100	2150		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
2150	2200		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
2200	2250		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
2250	2300		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
2300	2350																	
2350	2400																	

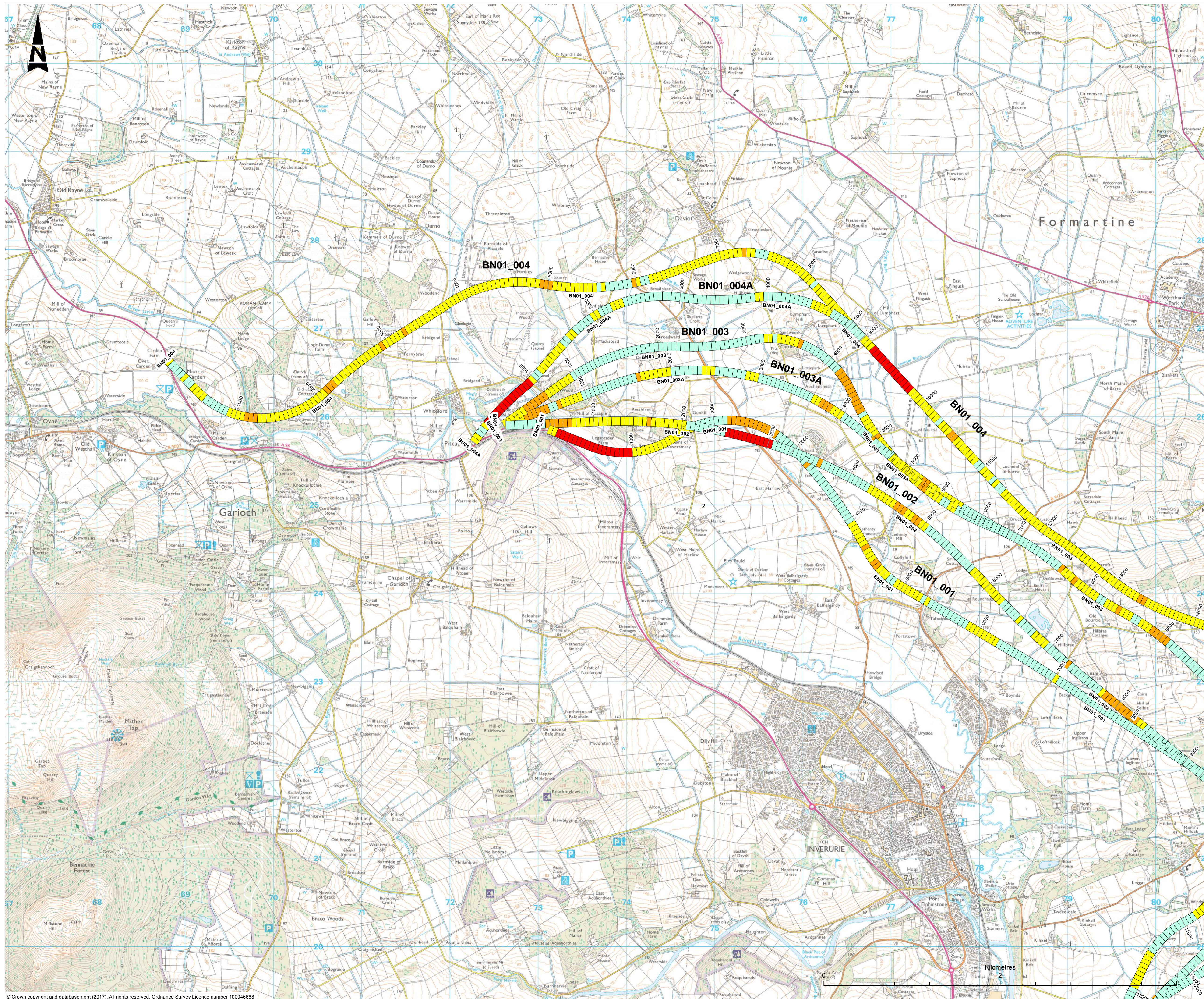
0	Neutral
-1	Slight Adverse
-2	Moderate Adverse
-3	Major Adverse

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

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

Channage	Start Channage	End Channage	Alignment					Geotechnics	Structures	Flooding and Drainage			Utilities	Constructability	Score		Comments	
			Level Difference	Bendiness	Hilliness	Earthworks	Geotechnics			Watercourse Crossings	Flood Plain	Construction access			Temp disruption	Adjusted		Total
0	50		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
50	100		0	0	-2	-2	-3	0	0	0	0	0	-1	0	-3	-5	-5	
100	150		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
150	200		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
200	250		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
250	300		0	-1	-2	-2	-3	-3	0	0	0	0	0	0	-3	-8	-8	Proposed alignment cutting into existing landfill (potential contamination) along with fairly deep cutting required
300	350		0	-1	-2	-2	-3	-3	0	0	0	0	0	0	-3	-8	-8	Proposed alignment cutting into existing landfill (potential contamination) along with fairly deep cutting required
350	400		0	-1	-2	-2	-3	-3	0	0	0	0	0	0	-3	-8	-8	Proposed alignment cutting into existing landfill (potential contamination) along with fairly deep cutting required
400	450		0	-2	-2	-2	-3	-3	0	0	0	0	0	0	-3	-8	-8	Proposed alignment cutting into existing landfill (potential contamination) along with fairly deep cutting required
450	500		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-6	Cuttings up to 11.7m (but greater than 10m) high on non-identified geotechnical constraints
500	550		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-6	Cuttings up to 11.7m (but greater than 10m) high on non-identified geotechnical constraints
550	600		0	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-6	Cuttings up to 11.7m (but greater than 10m) high on non-identified geotechnical constraints
600	650		0	-1	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-6	Cuttings up to 11.7m (but greater than 10m) high on non-identified geotechnical constraints
650	700		0	-1	-2	-2	-3	-2	0	0	0	0	0	0	-3	-7	-7	Cutting in area of made/worked ground (potential contamination source)
700	750		0	-1	-2	-2	-3	-2	0	0	0	0	0	0	-3	-7	-7	Cutting in area of made/worked ground (potential contamination source)
750	800		0	-1	-2	-2	-3	-2	0	0	0	0	0	0	-3	-7	-7	Cutting in area of made/worked ground (potential contamination source)
800	850		0	-1	-2	-2	-3	-2	0	0	0	0	0	0	-3	-7	-7	Cutting in area of made/worked ground (potential contamination source)
850	900		0	-1	-2	-2	-3	0	0	0	0	0	-1	0	-2	-5	-5	
900	950		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-2	-4	-4	
950	1000		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-2	-4	-4	
1000	1050		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1050	1100		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1100	1150		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1150	1200		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1200	1250		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1250	1300		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1300	1350		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1350	1400		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1400	1450		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1450	1500		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1500	1550		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1550	1600		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1600	1650		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1650	1700		0	-1	-2	-2	-3	0	0	0	0	0	0	0	0	-2	-2	
1700	1750		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1750	1800		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1800	1850		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1850	1900		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1900	1950		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
1950	2000		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	0	-3	-3	
2000	2050		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight as disruption may not extend this far back
2050	2100		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight as disruption may not extend this far back
2100	2150		0	-2	-2	-2	-3	-1	0	0	0	0	0	0	-3	-6	-5	Adjusted to slight as disruption may not extend this far back
2150	2200		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
2200	2250		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
2250	2300		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
2300	2350		0	-1	-2	-2	-3	0	0	0	0	0	0	0	-3	-5	-5	
2350	2400		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
2400	2450		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
2450	2500		0	0	-2	-2	-3	0	0	0	0	0	0	0	-3	-4	-4	
2500	2550																	
2550	2600																	



LEGEND

Combined Engineering Appraisal

- Major Adverse
- Moderate Adverse
- Slight Adverse
- Neutral

P01	First Fix Appraisal				
	JSE	RO	FM	GW	GH
	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
 McNeil Drive
 Motherwell
 ML1 4UR



Client
 58 Port Dundas Road
 Glasgow
 G4 0HF



Project Name
A96 Dualling: East of Huntly to Aberdeen

Drawing Title
BN01 - Engineering Appraisal Sheet 1 of 2

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

Drawing Number	Project	Originator	Volume
A96PEA	-AMAR - HGN -		
CB	-DR-CH-001001		
Location	Type	Role	Number

Suitability	Suitability Description	Revision
S2	For Information	P01.01