



**For the new pipe route, the objectives of the investigation shall include but not limited to the following:**

- Woodmead Outlet – 700 mm pipe, 1650 m long
- Woodmead Outlet – 600 mm pipe, 150 m long

Therefore, total pipe to be analysed: **1800 long**

For details about the affected area, please review the drawing.

**Geotechnical Study include but not limited to the following:**

- Undertaking of a detailed desktop study.
- Undertaking geotechnical site investigation (investigates soil strength/capacity and identifies potential soil problems (expansive, collapsible, and subsidence) on pipeline route with recommendations and remedial measures.
- Assessment of suitability of trench materials as bedding and selected backfill.
- Samples to be analysed at laboratory to establish geotechnical design parameters of the soil.
- Identify site geology and surface and sub-surface features along the alignment that may affect construction of the pipeline.
- Categorise the excavation conditions along the pipeline route (including shallow bedrock, boulders etc.
- Dolomite stability assessment and information where necessary, if applicable.
- Establish presence of ground water
- Assess the mechanical properties of the soil material.
- Method of construction for different pipe routes:
  - Trenchless method for road crossings
  - Open trench method

Geotechnical Analysis Pricing list

ITEM NO.	DESCRIPTION	UNIT	QTY	TENDERED RATE	AMOUNT DUE
<b>2</b>	<b>Laboratory Tests</b>				
<b>2.1</b>	<b>Civil Tests</b>				
2.1.1	Sieve Analysis	No. of tests	15		
2.1.2	Hydrometer	No. of tests	15		
2.1.3	Atterberg Limits	No. of tests	15		
2.1.4	Consolidation	No. of tests	2		
2.1.5	CBR Test	No. of tests	5		
2.1.6	Corrosion Potential	No. of tests	4		
<b>3</b>	<b>Trial Pits</b>				
3.1	Excavation of soft material 1 No. test pit up to 5m or up to groundwater table whichever is met earlier, below NGL. Rate to include: all equipment, labour, materials and any other costs associated with this activity. Rate to include collection of undisturbed soil samples, packing, storage and transportation to an approved testing laboratories. Rate also includes backfilling and compaction of boreholes to their original conditions using approved backfilling material, from the trench or from commercial sources.	No. of pits	20		
<b>4</b>	<b>Boring</b>				
4.1	Traffic accommodation (including flags, cones and signboards)	Sum	8		
<b>5</b>	<b>Wayleave Application per project allocated</b>	Sum	1		
<b>6</b>	<b>Compliance with Environmental and Health and Safety Acts</b>				
6.1	Comply with OHS requirements per project allocated	Sum	1		
<b>7</b>	<b>COMPILATION OF GEOTECH REPORT</b>	Sum	1		

Woodmead locality



