

PLANT NUMBER:		DATE :	
SITE ADDRESS:		QUU WORK ORDER:	

Outcome / Purpose – To have a qualified geotechnical engineering inspection of the earth embankment/cutting to monitor the condition of the earth embankment/cutting adjacent to QUU Assets and report on the current condition, changes since the last inspection, any remedial works required together with costs estimates and timeframes around the urgency of these remedial works and an overall assessment the earth embankment/cutting condition poses to the adjacent QUU Assets.

TASKS

Inspection requires qualified Geotechnical Engineer or equivalent

1. **Notify QUU**– Notify QUU Control Room and relevant other QUU contacts of arrival on site.
2. **Review of Previous Reports** – Previous reports shall be reviewed for review so that any changes in condition of the earth embankment from the last inspection.
3. **Earth Embankment Inspection** – The inspection shall be undertaken by a qualified and experienced geotechnical engineer familiar earth embankments/cuttings and associated failure modes and failure mechanisms. The inspector shall visit each site and undertake a detail visual inspection in order to document the geologic features, slips, stability issues and identify any urgent, intermediate and/or future remedial works required to ensure the stability of the earth embankment/cutting and that adjacent QUU assets are not exposed to any risk of damage.
4. **Earth Embankment Inspection Report** – A profession report shall be prepared that includes the following as a minimum:
 - a. **Site Descriptions**– Description of the site and geological profile and features of the earth embankment/cutting
 - b. **Site Inspection Findings** – Findings and observations made during the inspection shall be summarised in the report with cross references to the aerial photos, site photos and sketches/drawings.
 - c. **Site Photos** – Include all photos taken of the inspection and earth embankments/cuttings that show the full extent of the earth embankment together with all slips/failures or areas of concern or requiring corrective remedial works.
 - d. **Aerial Photos** – Aerial photos of each site outlining and displaying the extent of the earth embankment/cutting on the site identifying any specific features related to the earth embankment/cutting.
 - e. **Detailed Plan Sketch/Drawing** – Detailed sketch/drawing for each earth embankment showing the adjacent QUU reservoir and access road. The Plan Sketch/drawing shall provide details of significant trees, slope gradients, past repairs, current slips or failures, erosion zones, etc. Photo references and locations shall be marked up on the sketch/drawing.
 - f. **Conclusions and Recommendations** – Provide a summary of the earth embankment/cutting at each site and detail any remedial works recommended together with cost estimates, urgency and timeframes that remedial works should be undertaken, risk rating for the QUU asset adjacent to the earth embankment relative to the condition of the earth embankment and any slips/failures/deterioration.
5. **Earth Embankment Form**– Complete this form (FOR939) and attach all third party reports, photos, sketches/drawings and documentation associated with the earth embankment at the site.
6. **Notify QUU**– Notify QUU Control Room and Relevant QUU Contacts that the Grounds Maintenance works are complete and any gates have been locked and of departure from site.

GROUNDS MAINTENANCE		Yes	No	N/A
1.	Have previous geotechnical reports been reviewed by the qualified Geotechnical Engineer undertaking the inspection and report?			
2.	Has a qualified Geotechnical Engineer visited the site and inspected the earth embankment(s)/Cutting(s)?			
3.	Has the Geotechnical Engineering report been appended to this form?			
4.	Is the QUU Reservoir and other QUU Asset(s) on site safe from any immediate damage due the condition of the earth embankment?			

Inspected by (Print Name):	Date:
Qualification of Inspector:	
RPEQ No:	