Fulton Hogan	Inspection and Test Plan – General Fill	Doc ID: R44-FIL-ITP
Client: Iluka Resources Limited	**Prepared By: Simon Welsh**	**Date: 15/10/2024**
Project: Public Roads Upgrade	**Reviewed By: Joshua Kliemnt**	**Date: 11/11//2024**
Construction Process: General Fill	**Approved By: Simon Jaworksi**	**Date: 11/11//2024**
Specifications: ETS100, 101, 102		
Structure / Component:		

Item No.	Task/Activity Description	Inspection/Test					Type	Responsibility	Checked/Verified by (initial/Date):			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			TfNSW	Fulton Hogan	PV	Date
1	Preliminary											
2	Verify Embankment Foundation treatment has been completed and is conforming	Per Lot	Refer to Embankment Foundation and Embankment Treatment LOTs	R44.3		Foundation Verification Checklist/s	IP	Site Engineer				
3	Set out the works	Each Section	Establish Pegs (or equivalent) to identify the extend of filling	Design DWGs Survey Management Plan		Verification Checklist	IP	Surveyor				
4	Verify conformance of general fill material	As required	Material free from tree stumps, roots & refuse, moisture content deems acceptable Max. Layer Thickness (mm) / Min. Qty Rock (Vol) / Max. Rock Size (mm) / % Passing AS37.5m m Sieve 300 / Not specified / 200 / > 60% 500 / 25% > 200mm / 300 / > 60%	R44.5.2.1 R44/L.2	Visual	Verification Checklist	IP	Site Engineer				
		5 per 25000m3	Imported General Fill Material: - CBR(10 Day) >2 - PI<30	T117 T109								
5	Placing General Fill in 500mm Layers	Per Source	Undertake a trial for each material source to prove construction methodology. - Provide Proposed Method prior to undertaking trial - Provide compaction results from trial for HP Release - Only applicable to general fill at least 600mm below bottom of UZF	RFI-073	T166	Hold Point	HP	Site Engineer	HP			
6	Construction											
7	Place, spread fill material (parallel to the grade),	Per Lot, Q6/L3.1	• 98% Std compaction (90% for earth mounds or spoil) with 60 - 90% of OMC	R44.5.1.3 R44.5.2.2 R44.7.2	T166	Test Report	TP	Site Engineer				

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	compact and test to specified densities		• Minimum layer thickness after compaction ≥ 100mm • Maximum layer thickness after compaction <= 300mm unless otherwise approved • Ensure insitu sampling and testing for compaction conformity is undertaken in accordance with TfNSW Q6 Annexure L	R44.7.3 R44.7.4 R44/A5								
8	For hill side embankment foundation, terrace 1m wide of the hill side of embankment and ensure its free draining	Per Lot	Minimum Step Depth / Slope 600mm / > 4H:1V 300mm / < 4H:1V Terraces not required on slopes < 10H:1V	R44.3.3 Fig R44.4		Verification Checklist	IP	Site Engineer				
9	Conduct Deflection Testing – Proof rolling Method within 1.5m underside of SMZ	Per Lot	▪ Must not exhibit deformation, yielding and/or show signs of distress or instability. ▪ All embankment layers and other surface within 1.5m of underside of SMZ ▪ With refer to RFI 436: Clause 3, Note B on T198 states that other equipment may be used, 1. Benkelman Beam truck (as per T160) 2. Loaded bogie truck 3. 12M Grader (or larger 4. 12t Roller (or larger)	R44.7.6.1	T198	Witness Point	WP	Site Engineer		WP		

Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Project Verifier	**IP**	Inspection point	Formal Inspection to be done and recorded
HP*	FH Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	**TP**	Test Point	Product compliance test to be undertaken and recorded/reported
WP	Witness Point	An inspection which must be witnessed by the Project Verifier	**SU**	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Project Verifier	**SC**	Survey Check	

Notes