INSPECTION AND TEST PLAN

Details							
ITP Activity:	Embankment Construction			**Project:**	EVA Copper	**Date Lot Opened:**	
ITP Number:	EVAMP001-THS-4000-QA-ITP-008	**Rev. No.**	0	**Contract Number:**		**Date Lot Closed:**	
Lot Number:				**Client:**	Harmony		
Location or Area:				**Client Reference:**		**JSA/SWMS Ref:**	
Chainage / Coordinates:				**Contractor / Subcontractor / Supplier:**		**SOP Reference:**	

No.	Inspection / Test Point	Responsibility	Method	Conformance Criteria	Specification Clause	Frequency	Verification from Thiess / Client (H/W/R/M)				Records or Comments
							THIESS (Initial)		Client (Initial)		
1	**Pre-Construction**										
1.	Drawings supplied most current IFC	ENG	Visual	Reviewed drawing register	Reviewed drawing register	Prior to works	HP		W		
2.	Define Lot dimensions	ENG	Visual	Allocate Lot No to ITP and update Lot register	Lot register. EVAMP001-THS-CV-SPE-0001 EVAMP001-THS-CV-SPE-0002	Prior to works	HP		W		
3.	Lot Register/ WBS submitted and approved	ENG	Visual	Approved WBS	Approved WBS	Prior to works	WP		W		
4.	Underlying lot & ITP signed off and conforming	ENG	Visual	Topsoil stripping ITP signed off	Approved QMP. Approved ITP	Prior to works	HP		W		
2	**Construction**										

5.	Ensure Embankment Construction materials have been approved for use and within specification	ENG	Visual	Embankments (general fill material) □ Less than 30% passing 0.075mm sieve □Liquid limit 20% to 60% □ Soaked CBR = or >3% (STD compaction @ OMC) 1 test per 5,000 m3	EVAMP001-THS-CV-SPE-0001	As required	HP		W		
6.	Construction Layer Thickness (300mm)	SV	Visual	Depths of such layers shall not exceed the capability of the proposed plant and in any case shall not exceed 300 mm uncompacted.	EVAMP001-THS-CV-SPE-0001 clause 4.17	As required	HP		HP		On site verification sheet and survey
7.	Place and compact general fill layer – Subgrade	ENG	Field Test	Material containing a high proportion of large particles may be used in embankments using the Mechanical interlock method of construction. Field density standard minimum Dry density test to be 95%, OMC -1%, +2% with a minimum layer thickness of 150mm and maximum 300mm. Material greater than 600mm may be allowed to be used in the Embankment.	EVAMP001-THS-CV-SPE-0001 clause 4.17	As required	HP		W		On site verification sheet NATA Test report

8	Subgrade in cut	ENG	Survey/ Field test	For subgrades under road/rail pavements and buildings/structures, the materials exposed at The subgrade level of cuttings is to have a minimum CBR of 3.	EVAMP001-THS-CV-SPE-0001 clause 4.16	As required	HP		HP		
9.	Proof rolling	ENG/ SV	Field test	The embankment will be proof rolled with either Proof rolling shall be undertaken using a 10,000 L water cart or heavy, self-propelled, smooth drum vibrating roller capable of operating in variable frequency modes.	EVAMP001-THS-CV-SPE-0001 clause 4.26	As required Each lot	HP		HP		On site verification sheet
10	As-built of completed surface	ENG/SURV	Survey	Survey to be completed of the finished surface to confirm to the levels as shown on the drawings with deviations as per Top of earthworks other than the subgrade and pad level ± 50, Road subgrade & building / structure pads +0 -25	EVAMP001-THS-CV-SPE-0001 Appendix A clause 6	Each finished surface	HP		HP		Survey report
3	**Post Construction**										
11	Works completed and updated ITP/ Lot Register/ MDR and close out of GDP	ENG	Visual	ITP closed. Approved MDR	- EVAMP001-EVA-7340-PE-PRM-0001 - EVA PMP	As required	HP		HP		

☐ **Conformance to Specification**	☐ **Requires Re-Work:** (Provide Details):		☐ **Non-Conformance** **NCR No:**	

Approved by THIESS QA Representative		**Date**
Name (print):		
Signature:		

Approved by THIESS Project Manager		**Date**
Name (print):		
Signature:		

Approved by Client		**Date**
Name (print):		
Signature:		

RESPONSIBILITY		**METHOD**		**VERIFICATION TYPE**		**ITP REVISIONS**			
Symbol	**Legend**	**Symbol**	**Legend**	**Symbol**	**Legend**	**Rev No.**	**Amendment Details**	**Date**	**Approver**
C	Client	W	Written	HP	Hold				
SV	THIESS Supervisor	A	Application	W	Witness				
Eng	THIESS Engineer	D	Design	R	Review				
Surv	Surveyor	S	Survey Data	M	Monitor				
SC	Subcontractor	V	Visual						
PM	Project Manager	T	Test						
CM	Construction Manager	C	Certificate						
MC	Material Controller	TA	Test / Approval						
ENV	Enviro officer	M	Measure						

Please transfer information into THIESS Data System ‘Inspection and Test’ Register.