



Civil - Access Track  
Inspection and Test Plan - ITP

SECTION 1 - GENERAL					
Client:	Asset			ITP Template No.:	Revision:
Fluence	LV BESS			ZX118-ITP-7020-1	0
Project Name:	Area			Prepared By:	Prepared Date:
Latrobe Valley BESS	Access Track			L.Blazevic	11/01/2024
Project Number:	Discipline	Component	Location/Chainage	Approved By:	Approved Date:
ZX118	Civil	Access Track	-	R.Burke	11/01/2024

SECTION 2 - CLOSE OUT SIGNATURE (ZENVIRON ONLY)			
Name:	Position:	Signature:	Date:
Comments:			

SECTION 3 - LEGEND	
Term	Description
REVIEW	An Activity which is verified by examination of documentary evidence that inspection/tests have been satisfactorily conducted
WITNESS	Activity is to be witnessed by Zenviron   Advance notification mandatory   Activity can proceed once the minimum notification period has elapsed
HOLD POINT	Activity is to be witnessed by Zenviron   Advance notification mandatory   Hold point can only be waived formally in writing

SECTION 4 - PRELIMINARY									
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
4.1	Design drawings, project specifications.	Design drawing revision status issued for construction, Project Specification and current controlled model issued.	Documents controlled through document management system.	N/A	WITNESS				
4.2	Survey and Setout.	ZX118-REP-0173 Civil Specification Report Survey and inspection of Control Points.	Control point survey. Visual inspection of control point/s. Survey equipment spot checked for calibration.	N/A	WITNESS				

SECTION 5 - MATERIAL APPROVALS									
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS

5.1	Subgrade Material Conformance - Import Fill	Verify conformance of material to: ZX118-REP-0173 Civil Specification Report As per ZX118-DWG-3702 Typical Access Track Details As outlined in AS 1289	ZX118-REP-0173 Civil Specification Report Testing as per AS 1289.5.1 Designer Approval prior to placement Low Reactivity Granular CBR>15%	NATA Test Reports	REVIEW				
5.2	Base Course Material Conformance	Verify conformance of material to: ZX118-REP-0173 Civil Specification Report, Austroads Guide to Pavement Design - Part 4A, and ZX118-DWG-3702 Typical Access Track Details	ZX118-REP-0173 Civil Specification Report; Testing as per AS 1289.5.1 - Particle Size Distribution - in line with Class 3 according to Austroads Guide to Pavement Design - Part 4A - CBR >45% - Atterberg Limits targeting PI 9% +/-2% OMC - Wet/Dry Strength Variation ≥50kN	NATA Test Reports	REVIEW				
5.3	Drainage Backfill	Verify conformance of pipe bedding and backfill material to: ZX118-REP-0173 Civil Specification Report and ZX118-DWG-3703 Typical Stormwater Details	ZX118-REP-0173 Civil Specification Report Design Drawings - Bedding - Evenly graded Class 2 FCR with 20mm nominal size or other designer approved material - Backfill - Class 3 FCR with 30mm nominal sizing or other design approved material	NATA Test Reports	REVIEW				
5.4	Drainage Elements	Verify conformance of pipes and headwall to: ZX118-REP-0173 Civil Specification Report	ZX118-REP-0173 Civil Specification Report RCP compliance to AS/NZS 4058 and/or polypropylene to AS/NZS 5065	Material Data Sheets	REVIEW				

#### SECTION 6 - CONSTRUCTION PROCESS - ACCESS TRACK STRIP SOIL

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
6.1	Clear and Grub	Verify area has been cleared and grubbed.	Area cleared of all refuse, artificial and deleterious materials. Consult with landowner prior to removing any fencing or gates Ensure CEMP is adhered too	N/A	WITNESS				
6.2	Topsoil Stripping	Confirm top soil removed and stockpiled adequately	Strip topsoil to a depth required to remove all topsoil from the footprint area Ensure the area is self draining Ensure CEMP is adhered to. Temporary ERSED controls in place as required	N/A	WITNESS				

#### SECTION 7 - CONSTRUCTION PROCESS - SUBGRADE AND CONDITIONING

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
7.1	Earthworks Foundation	Earthworks on subgrade treatment to be in line with methodologies outlined in: ZX118-REP-0173 Civil Specification Report, ZX118-DWG-3702 Typical Access Track Details, and ZX118-DWG-3701 General Notes	Test results on founding layer compliant to ZX118-REP-0173 Civil Specification Report - Proof Roll using fully loaded 10000L water truck or other approved vehicle - DCP - 1 test per 50lm	ZX118-ITR-7209 - Proof Roll Inspection DCP Field Results / NATA Test Report ZX118-ITR-7210 (Where applicable) - including Location plan of soft, wet or unsuitable material including replacement methodology.	HOLD POINT				

7.2	Structural Fill/ Rock Fill Embankment (Where Required)	Earthworks on structural fill/ rock fill embankments to be in line with methodologies outlined in: ZX118-REP-0173 Civil Specification Report, ZX118-DWG-3702 Typical Access Track Details, ZX118-DWG-3701 General Notes and AS 1289	Test results and/ or proof roll records obtained for the fill layers compliant to ZX118-REP-0173 Civil Specification Report - Compaction to 98% SMDD at ±2% OMC - Frequency of 1 test every 300m and every second layer within 1000mm of finished subgrade level	NATA Test Report (Where Required) ZX118-ITR-7209 - Proof Roll Inspection	HOLD POINT				
7.3	Rock Subgrade (Where Required)	Rock Subgrade compromising of reasonable strength rock to be in line with methodologies outlined in: ZX118-REP-0173 Civil Specification Report	Proof roll records obtained - Fully loaded 10000L water truck or other approved vehicle	ZX118-ITR-7209 - Proof Roll Inspection If applicable Include; Location plan of soft, wet or unsuitable material and the applied replacement methodology.	HOLD POINT				
7.4	Finished Subgrade	Test results obtained for the finished subgrade layer compliant to: ZX118-REP-0173 Civil Specification Report, ZX118-DWG-3702 Typical Access Track, Details, ZX118-DWG-3701 General Notes, and AS 1289	Test results and proof roll records obtained for the finished layer compliant to ZX118-REP-0173 Civil Specification Report - Compaction to 98% SMDD at ±2% OMC - Frequency of 1 test every 300lm - Proof Roll using fully loaded 10000L water truck or other approved vehicle	NATA Test Report ZX118-ITR-7209 - Proof Roll Inspection	HOLD POINT				

#### SECTION 8 - CONSTRUCTION PROCESS - ACCESS TRACK BASE COURSE PLACEMENT

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
8.1	Base Course Pavement Placement	Material placement compliance test results in accordance with: ZX118-REP-0173 Civil Specification Report, ZX118-DWG-3702 Typical Access Track Details, and AS1289	Material placement compliance test results in accordance with: ZX118-REP-0173 Civil Specification Report - Compaction to 98% SMDD at ±2% OMC - Frequency of 1 test every 300lm - Proof roll using fully loaded 10000L water truck or other approved vehicle	NATA Test Report ZX118-ITR-7209 - Proof Roll Inspection	HOLD POINT				

#### SECTION 9 - CONSTRUCTION PROCESS - LONGITUDINAL DRAINAGE

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
9.1	Excavation	Ponding monitored and made free draining	Visual Inspection	N/A	WITNESS				
9.2	Erosion Controls	Erosion controls in line with: ZX118-REP-0173 Civil Specification Report and ZX118-DWG-3717 Erosion & Sediment controls	Visual Inspection	N/A	WITNESS				

#### SECTION 10 - CONSTRUCTION PROCESS - CULVERTS

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
10.1	Culvert Foundation	Floor of excavation is sound and no presence of soft or under yielding material	Visual Inspection	If applicable Include; Location plan of soft, wet or unsuitable material and the applied replacement methodology.	WITNESS				

10.2	Bedding	Placed via hand ramming to a minimum 100mm compacted thickness	Visual Inspection	N/A	HOLD POINT				
10.2	Pipe Placement	Location to be confirmed on-site. Grade and RL as per Design requirements	Visual Inspection Confirm pipe flows in the correct direction, barrel of the pipe is laying evenly on the full length of the bedding material and all sockets face upstream	N/A	HOLD POINT				
10.3	Haunching and Backfill	Earthworks on backfill to be in line with methodologies outlined in: ZX118-REP-0173 Civil Specification Report and ZX118-DWG-3703 Typical Stormwater Details	ZX118-REP-0173 Civil Specification Report ZX118-DWG-3703 Typical Stormwater Details - Compaction & Density 98% SMDD at ±3% OMC - 1 test per drainage line	NATA Test Report	HOLD POINT				
10.4	Erosion Controls - Rock Armouring	Permananet ERSED Controls in place in line with ZX118-DWG-3717 Erosion & Sediment controls	Visual Inspection of scour protection for compliance to: ZX118-REP-0173 Civil Specification Report	ZX118-ITR-7217 Culvert Installation Checklist	WITNESS				

**SECTION 11 - COMPLETION AND HANDOVER**

ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION POINT (QUALITY CONTROL ACTIVITY)	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
						NAME	SIGNED	DATE	COMMENTS
11.1	Redline markup of Construction Drawings	Redline markup of relevent Construction Drawings in Master Drawing Folder	In line with: ZX118-REP-0173 Civil Specification Report	Redline Markup in Master Drawing Folder	N/A				
11.2	Generate Punch List	Subcontractor walk-down inspection	Generate specific area/scope Punch List and transfer the open items to the Punch List Master Register	BMS-FRM-1033 Punch List Sheet record	N/A				