



**Civil - Benches**  
Inspection and Test Plan - ITP

SECTION 1 - GENERAL					
Client:		Asset		ITP Template No.:	Revision:
				ZENT-ITP-7016	0
Project Name:		Area		Prepared By:	Prepared Date:
				S.Stegic	17/10/2023
Project Number:		Discipline	Component	Location	Approved By:
		Civil	Benches		Approved Date:

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

SECTION 3 - LEGEND	
Term	Description
REVIEW	An Activity which is verified by examination of documentary evidence that inspection/tests have been satisfactorily conducted
WITNES	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 FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
4.1	Design drawings, project specifications			Documents controlled through document management system.	N/A	WITNESS				
4.2	Survey and Setout			Control point survey by registered surveyor. Visual inspection of control point/s. Survey equipment spot checked for calibration.	N/A	WITNESS				

SECTION 5 - MATERIAL APPROVALS										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
5.1	Subgrade Material Conformance - Import Fill			ZX118-REP-0201 Earthworks, Roads and Drainage Specification, Section XXXX ;	NATA Test Reports	REVIEW				
5.2	Pavement Base Course Material Conformance			ZX115-REP-0201 Earthworks, Roads and Drainage Specification; - Particle Size Distribution - CBR - Atterberg Limits - Wet/Dry Strength Variation	NATA Test Reports	REVIEW				

SECTION 6 - CONSTRUCTION PROCESS - BENCH STRIP SOIL										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
6.1	Clear and Grub			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			Strip topsoil to a depth required to remove all topsoil from the footprint area Ensure the area is self draining Ensure CEMP is adhered too	N/A	WITNESS				

SECTION 7 - CONSTRUCTION PROCESS - BENCH SUBGRADE AND CONDITIONING										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
7.1	Earthworks Foundation			Test results on founding layer compliant to ZX118-REP-0201 Earthworks, Roads and Drainage Specification - Conforming DCP Results to designer approval	ZX118-ITR-7103 - ITR DCP Field Data Result - If applicable Include; Location plan of soft, wet or unsuitable materialand the applied replacement methodology.	HOLD POINT				
7.2	Structural Fill/ Rock Fill Embankment (Where Required)			Test results and/ or proof roll records obtained for the fill layers compliant to ZX118-REP-0201 Earthworks, Roads and Drainage Specification, Section XXXX - Compaction - Density - OMC	NATA Test Report ZX118-ITR-7108 - Proof Roll Inspection per tested layer	HOLD POINT				
7.3	Rock Subgrade (Where Required)			Proof roll records obtained Inspection by Geotechnical/ Design Engineer	ZX118-ITR-7108 - Proof Roll Inspection If applicable Include; Location plan of soft, wet or unsuitable material and the applied replacement	HOLD POINT				
7.5	Finished Subgrade			Test results and proof roll records obtained for the finished layer compliant to ZX118-REP-0201 Earthworks, Roads and Drainage Specification, Section XXXX - Compaction - Density - OMC	NATA Test Report ZX118-ITR-7108 - Proof Roll Inspection Geotechnical Testing Register - Specifying number of layers and testing compliance to Specification	HOLD POINT				

SECTION 8 - CONSTRUCTION PROCESS - BENCH BASE COURSE PLACEMENT										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	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-0201 Earthworks, Roads and Drainage Specification, Section XXXX - Compaction - Density - OMC - Plate Load	NATA Test Report ZX118-ITR-7108 - Proof Roll Inspection	HOLD POINT				
-----	--------------------------------	--	--	---	--	------------	--	--	--	--

SECTION 9 - CONSTRUCTION PROCESS - LONGITUDINAL DRAINAGE										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
9.1	Excavation			Finished levels as required in IFC Model	N/A	WITNESS				
9.2	Erosion Controls			Visual Inspection of scour protection for compliance to Erosion and Sediment Control Drawing ZX118-DWG-1001	N/A	WITNESS				

SECTION 10 - COMPLETION AND HANDOVER										
ITEM	ACTIVITY/ TASK DESCRIPTION	INSPECTION FREQUENCY	REQUIREMENT/ STANDARD / SPECIFICATION	ACCEPTANCE CRITERIA	VERIFYING DOCUMENT (RECORDS/EVIDENCE)	SUPERVISION TYPE	RECEIVED AND ANALYSED BY: ZENVIRON			
							NAME	SIGNED	DATE	COMMENTS
10.2	Redline markup of Construction Drawings			In line with ZX118-REP-0201 Earthworks, Roads and Drainage Specification and BMS-WIN-1024 - Document Red-Line Markup	Redline Markup in Master Drawing Folder	REVIEW				
10.3	Generate Punch List			Generate specific area/scope Punch List and transfer the open items to the Punch List Master Register	BMS-TMP-0044 Punch List record	REVIEW				