| Fulton Hogan | Inspection and Test Plan – Unbound Pavement Course | Doc ID: R71-UPC-ITP |
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| **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: Unbound pavement course** | **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 | Set out the works | Per Lot | Establish Pegs (or equivalent) to identify the extent of pavement | | | Verification Checklist | IP | Surveyor | | | | |
| 3 | Check underlying lots are conforming and closed | Per Lot | Check underlying drainage and earthwork lots are conforming and closed, Hold Points released | R44.6.1.2 R11.4 | | Verification Checklist | IP | Site Engineer | | | | |
| 4 | Obtain approval for nominated mix design | Per mix | At least 10 working days prior to commencement of the trial section of pavement construction, or commencement of the pavement works, submit to the Nominated Authority details of your nominated mix design(s) and test results verifying conformity of the nominated mix design(s). | D&C 71 4.2 | | Hold Point | HP | Site Engineer | | | PV | |
| 4 | Materials | | | | | | | | | | | |
| 5 | Obtain approval for supply from certified stockpiles | Per Stockpile | Submit to PV with a statement verifying that the material from the certified stockpile meets the requirements of R71 and D&C 3051. Attach NATA endorsed test results to the statement, indicate the quantity of material represented by the test results. | R71.2.2 | | Hold Point | HP | Site Engineer | | | PV | |
| 6 | Construction | | | | | | | | | | | |
| 7 | Check material upon delivery | Per Lot | ▪ The material must be slightly damp and at the time of delivery<br>▪ Check delivery docket to ensure correct materials supplied | R71.2.4 | | Verification Checklist | IP | Site Engineer | | | | |
| 8 | Construction of trial section of pavement | Per Trial | ▪ Notify the PV at least 3 days prior to commencement. | R71.6.3 | | Witness Point | WP | Site Engineer | | | PV | |
| 9 | Construction of pavement | Per Trial | ▪ Construction of Pavement<br>▪ Submission of trial pavement conformance | R71.6.3 | | Witness Point | HP | Site Engineer | | | PV | |
| 10 | Placing, spreading, compaction and trimming the material | Per Lot | ▪ Maintain field moisture content during placement and compaction within the target moisture content envelope<br>▪ Compacted layer to be 100-150mm thick<br>▪ For modified (sub)base, complete the construction within the Allowable Working Time<br>▪ No roller marks left after final trimming | R71.6.5 | | Verification Checklist | IP | Site Engineer | | | | |

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| | | | ▪ No delivery traffic allowed on the placed<br>▪ Trim the pavement course to design level | | | | | | | | | |
| 11 | Verify finished pavement properties | Per Lot | ▪ Compaction to 102% std. (100% std. if HD modified base) - lot area ≤ 50 m2, 1 min per lot; 50-500m2, 3 min per lot; 500-1000m2, 4 min per lot; 1000-5000m2, 1 per 500m2(min. 5); >5000m2, 1 per 1000m2(min. 10)<br>▪ Moisture content ≤70% of OMC prior to seal – as relative compaction frequency<br>▪ Level within -0/+10mm (base), or -10/+0mm (subbase) - 1 per 20 linear metres, offset as per table G71.7<br>▪ Layer thickness within -0/+20mm (base), or -/+10mm (subbase) – at least one site per 75m, with a minimum of 2 per lot<br>▪ 3m straight edge: max. 5mm – minimum 1 per 20m2<br>▪ Pavement width ≥ design width – minimum 1 per 20 linear metres.<br>▪ Unconfined compressive strength is less than 1 MPa (accordance with T116)<br>▪ Minimum frequency of testing (T116 one pair per 400 tonnes or part thereof) | R71.8<br>R71.8.4.2<br>R44.7.4 | T116<br>T173<br>T166 | Test Report | TP | Site Engineer | | | | |
| 12 | Obtain approval for sealing of the pavement | Per Lot | Submit to the Project Verifier with test results of above pavement properties | R71.6.8 | | Hold Point | HP | Site Engineer | | | PV | |
| 13 | Carry out Ride Quality Test | Per Area | Carry out ride quality test, refer to R116-IRI Lots | R71.8.8 | | R116-IRI Lots | IP | Site Engineer | | | | |
| 14 | Carry out base course surface assessment | As directed | The average ball penetration value of a sample location (Pes) is ≤ 3.0 mm; and the characteristic ball penetration value is ≤ 2.5 mm. | R71.8.10<br>Q6/L3.2 | T271 | Test Report | TP | Site Engineer | | | | |
| 15 | Obtain approval of treatment of non-conforming lots | Per Area | Submit to the Project Verifier a NCR and details of proposal to rectify or replace the Lot, prior to carry out the rectification works | R71.8.12 | | Hold Point | HP | Site Engineer | | | PV | |

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**Legend:**

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| **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*** | Fulton Hogan Hold Point | Work shall not proceed past the HP* until released by Fulton Hogan | **TP** | Test Point | Product compliance test to be under and recorded/reported |
| **WP** | Witness Point | An inspection which must be witnessed by the Project Verifier | **SCP** | 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 | | | |
| **AP*** | Fulton Hogan Approval Point | Written or verbal approval given by Fulton Hogan's nominated personnel | | | |

**Notes**