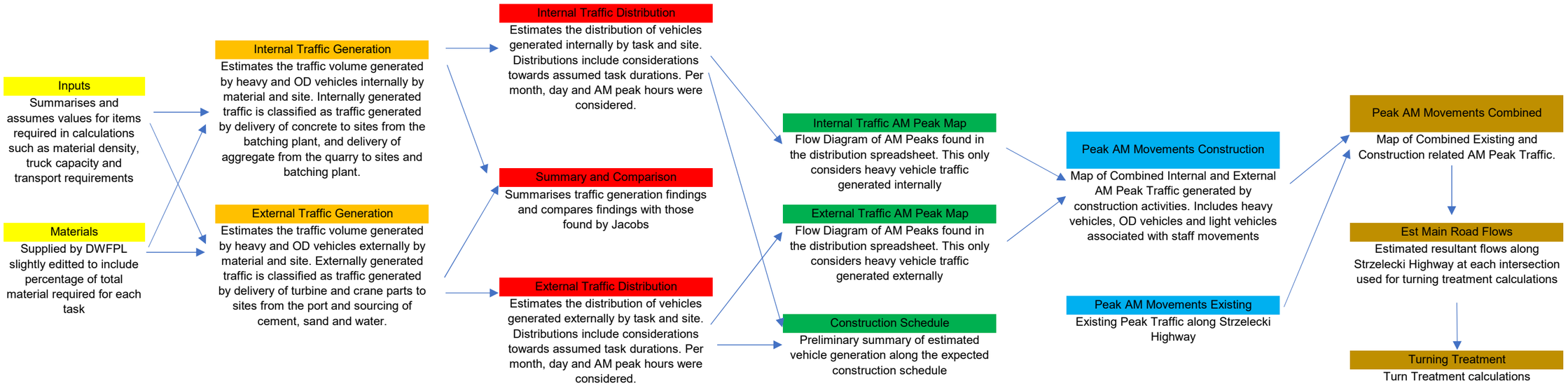
Appendix B

Traffic generation methodology


Inputs
Summarises and assumes values for items required in calculations such as material density, truck capacity and transport requirements
Materials
Supplied by DWFPL slightly editted to include percentage of total material required for each task
Internal Traffic Generation
Estimates the traffic volume generated by heavy and OD vehicles internally by material and site. Internally generated traffic is classified as traffic generated by delivery of concrete to sites from the batching plant, and delivery of aggregate from the quarry to sites and batching plant.
External Traffic Generation
Estimates the traffic volume generated by heavy and OD vehicles externally by material and site. Externally generated traffic is classified as traffic generated by delivery of turbine and crane parts to sites from the port and sourcing of cement, sand and water.
Internal Traffic Distribution
Estimates the distribution of vehicles generated internally by task and site. Distributions include considerations towards assumed task durations. Per month, day and AM peak hours were considered.
Summary and Comparison
Summarises traffic generation findings and compares findings with those found by Jacobs
External Traffic Distribution
Estimates the distribution of vehicles generated externally by task and site. Distributions include considerations towards assumed task durations. Per month, day and AM peak hours were considered.
Internal Traffic AM Peak Map
Flow Diagram of AM Peaks found in the distribution spreadsheet. This only considers heavy vehicle traffic generated internally
External Traffic AM Peak Map
Flow Diagram of AM Peaks found in the distribution spreadsheet. This only considers heavy vehicle traffic generated externally
Construction Schedule
Preliminary summary of estimated vehicle generation along the expected construction schedule
Peak AM Movements Construction
Map of Combined Internal and External AM Peak Traffic generated by construction activities. Includes heavy vehicles, OD vehicles and light vehicles associated with staff movements
Peak AM Movements Existing
Existing Peak Traffic along Strzelecki Highway
Peak AM Movements Combined
Map of Combined Existing and Construction related AM Peak Traffic.
Est Main Road Flows
Estimated resultant flows along Strzelecki Highway at each intersection used for turning treatment calculations
Turning Treatment
Turn Treatment calculations