Testing during build – civil elements

The SGRB project will require small-scale earthworks and site preparation in accordance with Australian standards and Main Roads Western Australia specifications (for example MR302 [1]). The project will also require the construction of multiple concrete pads and other infrastructure (drainage systems for example). Due to the varied pedology of the Pilbara region, on-site sampling and testing is required prior to construction in order to determine soil conditions. Red sandy loams and red sandy clays are to be expected[2], and so it is likely that constructed subgrade and imported subbase will be required[3]. These will require various standards including AS 1141, AS 1289, AS2350, AS 4373 and others . The specifics of these construction elements fall outside of Team Power’s scope.

[1] Main Roads Western Australia, "Specification 302 Earthworks," Main Roads Western Australia, Ed., ed. Western Australia,: Western Australian Government,, 2013, p. 54.

[2] P. J. Tille, "Soil-landscapes of Western Australia's rangelands and arid interior," Department of Agriculture and Food, Ed., 2.1 ed: Western Australian Government, 2006, p. 153.

[3] Main Roads Western Australia, "Specification 501 Pavements," Main Roads Western Australia, Ed., ed. Western Australia,: Western Australian Government,, 2017, p. 56.