

### 3.2 Fraser Falls [STEWA-STEWA-0519-B]

Fraser Falls is a potential hydroelectric project on the Stewart River, located in the Stewart River Basin approximately 40 km upstream of Mayo. The total drainage area is estimated to be 30,700 km<sup>2</sup>.

The major components of the preliminary project layout are listed in Table 12. The project components are shown in Figure 8 and described in more detail as per sections listed in Table 12.

**Table 12: Fraser Falls Major Project Components**

Component	Drawing Item	Description Section
Intake Structure	①	3.1.1
Dam	②	3.1.2
Spillway	③	3.1.3
Reservoir	④	3.1.4
Penstock	⑤	3.1.5
Powerhouse	⑥	3.1.6
Fish Conveyance <sup>9</sup>	See Note 9	See Note 9
Switchyard	⑦	3.1.7
Transmission Line	⑧ <sup>10</sup>	3.1.8
Access Infrastructure (Roads & Bridge)	⑨	3.1.9
Temporary Construction Works	⑩	3.1.10

<sup>9</sup> At this stage of study, upstream fish passage is expected to be facilitated via fish ladder. During subsequent phases of development, different alternatives may be considered including, but not limited to, mechanical lifts or trap-load-haul operations. Downstream fish passage is expected to be facilitated through fish friendly turbines (e.g. Kaplan Turbine).

<sup>10</sup> The transmission line is not shown on the drawing but is expected to follow approximately the access road from the switchyard to the interconnection point.

Figure 12: Fraser Falls Layout

