

1 Q. **Reference: Upgrade Public Safety Around Dams- Hinds Lake and Paradise River**

2 With reference to the Table 15 estimates for project cost, please provide a detailed breakdown
3 as to what costs are related to fencing, what costs are related to signage and what costs are
4 related to any other work being proposed under this project.

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7 A. Control measures at Newfoundland and Labrador Hydro's ("Hydro") hydroelectric facilities are
8 installed to reduce the risk to the public due to the presence and operation of these facilities.
9 Installation of control measures occurs in a phased approach; typically work is executed at two
10 sites each year. In 2021, work will include supply and installation of signage at Paradise River by
11 Hydro internal personnel and supply and installation of fencing and installation of fence
12 mounted signage at Hinds Lake by contractor personnel.

13 The cost estimate for the supply and installation of control measures (signage) at Paradise River
14 is based on available hours for internal labour forces and the cost to supply the required
15 materials and equipment for personnel to install the signs. Other costs associated with this
16 installation include accommodations and travel expenses for the labour force.

17 The cost estimate for the supply and installation of control measures (fencing and signage) at
18 Hinds Lake assumed an external contractor will be engaged via competitive bid; the estimate is
19 based on an inventory of costs for similar scopes executed in previous years by external
20 contractors and includes contractor mobilization and demobilization, site services,
21 accommodations and travel expenses, as well as contractor's project management and
22 administration.

23 Table 1 provides additional information on the costs associated with Table 15.

Table 1: Costs Associated with Table 15

Project Cost (From Table 15)	2021 Estimate (\$000) (From Table 15)	Items Included in Estimate
Material Supply	14.2	Includes the direct purchase of material (signage, foundations and hardware) for NL Hydro internal personnel to install at Paradise River.
Labour	159.1	Labour costs include Project Management and Engineering time associated with planning and execution of the scope, as well as support from Environment Services, Planning and Administration. It also includes Hydro internal labour forces installing the Paradise River control measures.
Consultant	25.2	Consultant costs include hiring of a Construction Management Representative (“CMR”) to support construction efforts at Hinds Lake. This cost includes CMR labour only.
Contract Work	128.3	Contract Work includes supply and installation of fencing at Hinds Lake, as well as installation of fence mounted signs that were purchased in 2020. Contract costs include labour, equipment and materials as well as mobilization, demobilization, site services, accommodations, expenses, project management and administration.
Other Direct Costs	48.8	Other direct costs consist primarily of travel costs for Project Manager, Project Engineer, Environment Services, Planner, Operations Personnel and CMR as required to support planning and execution. Other direct costs include equipment required to support installation of the signs at Paradise River.
Interest and Escalation	24.9	Standard rates are applied.
Contingency	35.8	Estimated per line item. Generally, 10% contingency is applied for this scope.
Total	436.3	

- 1 Direct costs for the sign installation at Paradise River (internal labour, equipment, material,
- 2 workforce accommodations, and expenses) account for approximately 24% of the Total Project
- 3 Cost. Direct costs for the fence and sign installation at Hinds Lake (contractor labour, equipment

1 and materials as well as mobilization, demobilization, site services, accommodations, expenses,
2 project management, and administration) account for approximately 29% of the Total Project
3 Cost. Project Management, Engineering, Construction Management, and Support account for
4 approximately 32% of the Total Project Cost.