

1 Q. **Reference: Application**

2 Please provide a summary of all laboratory testing conducted by Hydro in the 2023 Capital
3 Budget Application to verify the need for asset replacement.

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6 A. Please refer to Table 1 for a listing of the laboratory testing completed in relation to certain
7 investments included in Newfoundland and Labrador Hydro’s 2023 Capital Budget Application.

Table 1: Laboratory Testing for Select Investments

Test Completed	Test Type	Results	Proposed Investment
Tapchanger Activity Signature Analysis™	TJH2b	TASA Assessment = 4	Massey Drive T3: refurbish tap changer
Tapchanger Activity Signature Analysis™	TJH2b	TASA Assessment = 3	Oxen Pond T1: refurbish tap changer
Tapchanger Activity Signature Analysis™	TJH2b	TASA Assessment = 4	St. Anthony Diesel Generating Station T1: refurbish tap changer
Tapchanger Activity Signature Analysis™	TJH2b	TASA Assessment = 3	Sunnyside T4: refurbish tap changer
Tapchanger Activity Signature Analysis™	TJH2b	TASA Assessment = 3	Vanier 2 T1: refurbish tap changer
Oil Quality Analysis	ASTM D 971-12 ASTM D 924-15	ASTM D 971-12: 26.5mN/m ASTM D 924-15: 6.77%	Wabush Substation T3: oil refurbishment
Oil Quality Analysis	ASTM D 1533-20	Result – ASTM D 1533-20: 6ppm	Wabush Terminal Station T12: install online oil dehydrator
Oil Quality Analysis	ASTM D3612-17	Result: 116ppm (V/V) ethylene @ 273 Kelvin and 760 Torr	Hardwoods T4: install online DGA monitor