



Quebec July 24/49

C. D. Archibald Esq

Dear Sir

I have received your parcel sent by stage and have examined the minerals contained in it. The specimens from Five Islands contain only iron pyrites. I can detect no trace of copper in it. The matrix of <sup>some of</sup> these specimens is a rather curious mixture of quartz, calcareous spar & sulphate of barite. The calc. spar contains a little carbonate of manganese, rather a novelty here, though of no practical consequence. One of the specimens in the parcel marked Five Is. is specular iron apparently from a very narrow vein; perhaps it is from a different locality and may have been put in accidentally.

The specimens from Quebec are parts of nodules of clay iron stone including crystals of galena (sulphuret of lead), - a singular association which I don't remember to have seen before. These beds of nodules are not then of much importance, but if the nodules

be large and abundant the deposit might  
be worthy of attention either for the lead  
or the iron or both. The Ironstone seems  
to be of medium quality and the lead is  
good & pure though there is but little of it  
in the specimens sent.

The specimen from Churholms hill  
is a soft sandstone in which I can see  
nothing like a metallic mineral  
except a few scales of mica.

If anything else should occur on  
further examination of these specimens I will  
let you know.

Have you ascertained if there be any  
workable quantity of the Copper pyrites of which  
you sent a small specimen some time  
since.

Believe me  
Dear Sir  
Yours truly  
John G. G.