

Industrial Health Laboratory

200 Kent Street,  
Ottawa, Ontario.  
March 15, 1952.

Mr. Kurt Raht,  
Consolidated Mining & Smelting Co. of Can. Ltd.,  
Chapman Camp, B.C.

Dear Mr. Raht:

Some time this spring, we hope to take some stack samples at Con and Giant and I have therefore been reading your letters of 6 and 29 November 1950 and 1 February 1951 in which you outline the methods used at Con.

We will want to take samples before the gas enters the impinger and after it leaves, which I believe is also your routine. We can bring up any necessary equipment, but naturally wish to keep this to a minimum because of shipping costs. Would it, therefore, be possible for us to use your sampling train - we would of course supply any expendable items, such as the woolen bags. Whether you will have this equipment available at the time or not, I should much appreciate knowing the details of your procedure, such as the temperature of the gas at the sampling points, the means you use to draw air through the bags, the rate of air flow through the bags and how you measure it (do you have an orifice meter or a venturi meter built into the sampling line?), the average sampling times required to get a sample containing enough arsenic for a decent analysis, the type of sampling bag holder used and any other information that you feel might be of value. I should also like to know the name of the company from whom you buy the woolen bags, such as the one you sent us with your letter of 1 February, 1951.



In this letter you also mentioned that for very precise work you put a Whatman thimble in the line after the woolen bag. Have you found this to be necessary when sampling gas issuing from the impinger? Any particles escaping from this impinger would probably be extremely small and I was wondering whether there would be enough of them to clog the pores of the woolen bag in a reasonable length of time. If you do find the thimbles necessary, what size should we bring up?

This is, I am afraid, a very querulous letter, but I am sure you will realize how helpful your information will be to us.

With kind personal regards.

Yours sincerely,

*J.W.*

J.P. Windish,  
Industrial Hygienist.

JPW/CP