

December 29, 1969

Dr. Gordon Stopps
Chief, Physiology Section
Haskell Laboratory
E. I. Dupont de Nemours & Co.
Wilmington, Delaware 19898

Dear Dr. Stopps:

A. X-ray/Electron Diffraction Sample Analyses

I reviewed our discussion with Dr. Nathans. We do not have a capability for doing X-ray diffraction in-house. Any work that we need to have done we send to a local specialized laboratory. If you need X-ray diffraction on one or more samples in addition to other analyses, it may be to your advantage to have us take care of it. If X-ray diffraction is the only analysis required, it is probably more convenient for you to use a source (e.g. metallurgical laboratory) which exists in your geographical area.

On single particles we can offer you electron diffraction by means of our RCA EMU-4 electron microscope. This technique has a sensitivity of 1.8×10^{-15} g for 0.1 micron particles and 1.8×10^{-12} g for 1 micron particles. (Note: In comparison, X-ray diffraction performed on gross materials has a sensitivity of approximately 1 - 10 mg.) Qualitative identification is performed by comparison of the unknown spectra with standards. (Note: This technique cannot be used on non-crystalline materials.) Item 4 on page 3 of the Trapelo/West Particle Analysis Capability Brochure (attachment 1) discusses electron diffraction.

B. Soil Analyses for Lead

I have told the laboratory people that we can expect to start the analyses of the soil samples in the beginning of January. Could you send us a Purchase Order or letter of authorization to analyze the samples?

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HASKELL LABORATORY

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C. Health & Safety Consulting Service

Should any Health and Safety problems ever arise on the West Coast, please keep in mind our Health & Safety Consulting Service. Options available under this service are discussed in attachment 2.

D. Other Services Available

Attachment 3 lists other services available from Trapelo/West. If you are interested in any of them, please complete the form and return it to me in the provided envelope.

Very truly yours,



Al Zirkes, Manager
Commercial Sales

AZ/hh

Encl: (3)

cc: Dr. Marcel Nathans