

Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Madeline Competello

Title of Project The Use of 51 TITAN Model 600/800 GeoExploration Check X-Ray Gun in Analyzing Pb, Cr, Zn, As, Cu, and Cd Concentrations in Long Island Elementary Schools and Public Parks's Soil

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist: (All questions must be answered; additional page(s) may be attached.)

1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
Bruker Spectro Titan S1 X-Ray Fluorescence
2. Identify and assess the risks involved in this project.
Equipment from (1) generates x-rays
3. Describe the safety precautions and procedures that will be used to reduce the risks.
Unit is designed with built-in safety measures, such as a proximity sensor, to keep users safe. Unit is designed so that x-rays do not stray out from sample holder.
4. Describe the disposal procedures that will be used (when applicable).
As a precaution, a radiation monitor was placed next to the unit when in use. Normal background radiation was not affected while unit was in use.
5. List the source(s) of safety information.
Spectro S1 Titan documentation via Bruker (manufacturer).

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):

I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and will provide direct supervision.

David Nadler



06/26/2019

Designated Supervisor's Printed Name

Signature

Date of Review (mm/dd/yy)

Chair, NYIT

dnadler@nyit.edu

Position & Institution

Phone or email contact information

20 years in environmental sampling, analysis and research

Experience/Training as relates to the student's area of research