



INTEROFFICE MEMORANDUM

DATE: October 27, 1997

TO: J. M. Langsted, RMRS Project Compliance, T893A, X2542, DP 505-7628

FROM: *JP* S. M. Paris RMRS Environmental Restoration Projects, T893B, X3656, dp 4624

SUBJECT: High Purity Germanium (HPGe) Detector Usage on RMRS Environmental Restoration Projects - SMP-002-97

Purpose

The purpose of this memorandum is to provide RMRS Project Compliance with information detailing future RMRS Environmental Restoration (ER) Projects' use of onsite HPGe gamma spectroscopy associated with characterization projects.

ER Projects has two projects scheduled for FY98 which will require gamma spectroscopy including the excavation and treatment of wastes from Trench 1 (T-1) and implementation of the Sampling and Analysis Plan for the Characterization of the 903 Drum Storage Site.

The T-1 project will require onsite HPGe gamma spectroscopy to determine compliance with RFETS Radiological Work Permits, characterizing soil debris characterization for putback determinations, WAC requirements of Nevada Test Site (NTS), and potential onsite storage facilities. The T-1 project is tentatively scheduled to begin in January 1998 and conclude in August of 1998.

The implementation of the 903 Drum Storage Area Sampling and Analysis Plan (SAP) requires the collection of radioanalytical data from in situ soils at approximately 1,900 locations. Due to schedule constraints RMRS estimates that three separate HPGe systems will be required to complete the program. The systems will need to be configured to measure radionuclides over a field of view of 12 meters. This will require a detector height of one meter above the ground surface. The HPGe portion of the 903 SAP is also scheduled to begin in January 1998.

Table 1 provided below outlines ER Projects' major field efforts, estimates the number of samples and also provides other details on requirements for onsite HPGe analysis this year. Please note that minimum detectable activities (MDA) or minimum sensitivity, error and turnaround times have not been determined as of this date. ER Projects will provide Program Compliance with these requirements as soon as they are determined.



ADMIN RECORD

TABLE 1: RMRS ENVIRONMENTAL PROJECTS' HPGe ANALYSIS REQUIREMENTS FOR FY98

Project	Sample Medium	Number of Samples	Analysis Type	Isotopes	Minimum Detection Limit	Reporting Unit	Frequency
Trench 1	Soil, Debris	100	Gamma Spec.	Am-241 U-235 U-238	TBD	TBD	TBD
903 Pad	<i>In situ</i> Surface Soils	1,900	Gamma Spec.	Am-241 U-235 U-238	TBD	TBD	TBD

If you have any questions concerning this information please contact me at X3656.

cc:

- J. L. Anderson
- G. D. DiGregorio
- R. C. Gentry
- J. E. Law
- A. L. Primrose
- H. Salomon
- W. R. Sproles
- M. T. Vess
- M. R. Wood