

John R. Moran, Director
Health and Safety Division

June 9, 1960

Claude W. Sill, Chief
Analysis Branch

MONTHLY REPORT - ANALYSIS BRANCH - MAY 1960

The following is a resume of Analysis Branch activities during May 1960:

ANALYSES MADE

<u>Type of Samples</u>	<u>Analyzed For</u>	<u>Number</u>
Urine	Gross Beta	783
Urine	Gross Gamma	150
Urine	Beryllium	3
Urine	Uranium	9
Water	Gross Alpha	83
Water	Gross Beta	83
Water	Radium-226	5
Water	Thorium-230	3
Air Dust & Smears	Beryllium	19
Air Dust	Uranium	57
Fallout Papers	Gross Beta	36
Carbon Cartridges	Gross Gamma	86
Carbon Cartridges	Gross Beta	36
Soil	Gross Gamma	30
Vermiculite	Gross Gamma	3
Thyroids	Gross Gamma	24
Milk	Gross Gamma	24
Vegetation	Gross Gamma	11
Animal Dissections	Gross Gamma	24

RESEARCH

Research on the procedures for thorium, radium, beryllium and plutonium was continued. The press of routine work reduced the time spent on research this month.

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SPECIAL ACTIVITIES

Claude W. Sill presented a talk on "Recent Advances in the Determination of Radium 226" at the Fifth Annual Uranium Symposium sponsored by the Uranium Section of the American Institute of Mining, Metallurgical, and Petroleum Engineers at Moab, Utah on May 6, 1960.

Jesse Anderson made a trip to Hanford Operations Office to observe the techniques being used in the autoradiographic determination of plutonium 239.

Total body counting of the personnel from the CPP was initiated. First indications are that body burdens of Cs 137 fifty thousand times less than the maximum permissible are detectable. Also, total body counting has disclosed other isotopes not detectable by our routine urinalysis procedures. The first use of total body scanning was performed on a goat spiked with Sr 85 with very interesting and successful results.

CC: C. Wayne Bills