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REPOSITORY DOE History Division  
 COLLECTION RG 326 Tommy McCrow, (#1320)  
 BOX No. 5  
 FOLDER Radiological Survey

THIS PROGRESS REPORT SUMMARIZES THE LABORATORY ANALYTICAL EFFORT BEING CARRIED ON AT LLL BY MEMBERS OF THE RADIOCHEMISTRY AND BIOMEDICAL DIVISIONS, AT THE UNIVERSITY OF WASHINGTON (DR. ALLYN SEYMOUR, DR. VICTOR NELSON), AT MCCLELLAN LABORATORY (COL. R MC BRYDE, MAJ. W MYERS), AT LFE ENVIRONMENTAL (MR. LEON LEVENTHAL, MR. WILLIAM MAJOR), AND AT EBERLINE INSTRUMENT CORPORATION (DR. ERIC GEIGER, MR. ERNEST SANCHEZ). SOIL AND SEDIMENT SAMPLES (ESTIMATE 2000 SAMPLES TO BE PROCESSED):

INITIAL PROCESSING (LLL, BLDG. 412) - 1,050 SAMPLES IN PROCESS OR COMPLETED; CURRENT RATE GREATER THAN OR EQUAL TO 100 SAMPLES PER WEEK.

FISH SAMPLES (456 SAMPLES TO BE PROCESSED):

INITIAL PROCESSING (UW, SEATTLE) - 322 SAMPLES PREPARED AND SHIPPED TO LLL PLUS 14 AL2O3 BEDS FROM LARGE VOLUME WATER SAMPLES. ESTIMATE COMPLETION (456 SAMPLES, TOTAL) BY WEEK OF 12 FEBRUARY 1973.

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VEGETATION, TERRESTRIAL BIOTA (300 SAMPLES TO BE PROCESSED):

INITIAL PROCESSING (LLL) - 58 SAMPLES COMPLETED.

SEAWATER (50 SAMPLES COLLECTED):

CHEMICAL SEPARATION (LLL) - TOTAL OF 50 SAMPLES; ADDING CARRIERS AND TRACERS, SEQUENTIAL SEPARATION OF VARIOUS ELEMENTS; IN PROCESS, ANTICIPATE 8 WEEKS OF ADDITIONAL EFFORT.

PLANKTON (17 SAMPLES COLLECTED):

17 SAMPLES IN PROCESS (LLL) - DRY, WEIGH, PACKAGE.

CORE SAMPLES (40 SAMPLES COLLECTED):

TOTAL OF 40 COLLECTED. STILL FROZEN AND STORED AT LLL. WILL BE SECTIONED AND PROCESSED IN SAME MANNER AS SEDIMENT SAMPLES.

AIR FILTERS (61 SAMPLES COLLECTED):

HIGH-VOLUME SAMPLES GAMMA COUNTED (LLL) - 7 SAMPLES

WET CHEMICAL ANALYSIS FOR 239 PU (MCL) - 7 (IN PROCESS).

GAMMA COUNTING, PRECISION GE(LI) DETECTOR SPECTROSCOPY:

SAMPLES COUNTED AND DATA IN COMPUTER BANK (LLL) -

SOILS 278

SEDIMENTS 218

FISH 144

VEGETATION 15

*at Terminal LLL*  
*note*

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AIR FILTERS 7

TOTAL 662

CHEMICAL ANALYSES, SAMPLES DISSOLVED AND ELEMENTS ISOLATED CHEMICALLY:

MCCLELLAN LABORATORY (MCL) - DATA REPORTED FOR 90 SR PLUS 239 PU

IN 166 SOIL AND SEDIMENT SAMPLES.

LFE ENVIRONMENTAL ANALYSIS LABORATORY (LFE) - EXPECT CONTRACT WITH

LFE TO BE SIGNED BY 12 FEB. 73; WILL DELIVER 55 SOIL SAMPLES

FOR ANALYSIS ON 13 FEB. 73.

EBERLINE INSTRUMENT CORPORATION (EIC)

THEY HAVE REPORTED 90 SR AND 239 PU DATA ON 6 QUALIFICATION

SAMPLES. IN ORDER TO CLEAR UP REMAINING DISCREPANCIES, A

NEW SET OF 6 QUALIFICATION SAMPLES WAS DELIVERED ON 8 FEB. 73.

UNIVERSITY OF WASHINGTON, SEATTLE (UW)

THE FIRST PHASE OF THE ANALYTICAL WORK WILL BE TO ANALYZE A

SET OF 12 SELECTED SAMPLES FOR 239 PU, 90 SR, AND 55 FE AT UW

AND MCL. DATA WILL BE COMPARED TO ASSURE ACCURATE CALIBRATION

OF TRACERS, ETC. THIS EFFORT WILL BEGIN DURING THE WEEK OF

12 FEB. 73.

A PROGRESS REPORT WILL BE ISSUED EVERY TWO WEEKS. 00:JDS

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*ALL Biomed lab will do beta samples, see file*