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JUN 1948

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SUMMARY OF OPERATIONS ON CONTRACT NO. W-28-094-eng-33

FOR THE MONTH OF JUNE 1948.

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Project I.* Basic studies on the effect of X-rays upon fish in various stages of development.

Sections I and II*

Fingerling chinook salmon of the F_2 generation were fin-marked during May and June for release in Samish River where their parents had been recaptured. From May 3 to June 5, the fish were marked by removal of adipose and left pelvic (25,674 fish) or adipose and right pelvic (29,398 fish). A total of 55,072 were marked. Minor losses probably made the number planted nearly 55,000 fish. Six plantings were made from May 18 to June 15. These fish are expected to return as adult spawners in the falls of the years 1950, 1951, and 1952.

During the marking procedure attention was paid to the general size, appearance, and activity of the irradiated stock, marked by adipose and left pelvic, as compared to the control stock, marked by adipose and right pelvic. The concensus of opinion of the members of the staff doing the fin-marking was that there was no obvious superiority of control stock over irradiated, but that if any difference were present it was probably in favor of the irradiated stock.

Project V.

The laboratory studies on the transfer of "activity" in Bikini mud and coral rocks to living material continued at a somewhat restricted rate.

Tissues from flatfish, Parophrys vetulis, that had lived in the contaminated water for some time, were used for counting accumulated activity and tissue study.

* Project and section numbers refer to the Project Chronology Chart and Summary UWFL-9, revised March 11, 1948.

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Project VIII. [redacted]

The Hanford Works have provided numerous services during the month in aiding the regular program at the laboratory and in expediting the preparations for the Radiobiological Resurvey of Bikini.

Mr. Allyn H. Seymour and Dr. Lauren R. Donaldson visited Richland and the plant area on June 17 and 18, for conferences and to transport material between the laboratories.

Project IX.

Work continued on the ashing and activity counting of the material collected at Eniwetok, near Runit Island, On May 16, 1948.

The data from the counts was summarized and decay curves were prepared of the decline in activity of some of the samples.

Captain J. S. Russell USN visited the laboratory on June 11, 1948, to review the Eniwetok results and to discuss the Navy participation in the Radiobiology Resurvey.

Project X. Bikini Radiobiological Resurvey of 1948.

Preparations for the resurvey were accelerated to a point that they occupied most of the waking hours of the staff. The twelve men making up the scientific personnel were selected, security clearances, health records and examinations, travel orders, identification cards, etc. were obtained.

The following named persons left by plane on June 26, 1948 to undertake the resurvey of the Bikini area.

		Joining group in San Francisco
Dr. Lauren R. Donaldson	Dr. Asher A. White	Dr. Theodore H. Bullock
Dr. Arthur B. Welander	Mr. Allyn H. Seymour	Mr. Edward E. Held
Mr. Richard H. Osborn	Mr. John J. Koch	Dr. George J. Hollenberg
Mr. Frank G. Lowman	Mr. John R. Donaldson	Joining group in Honolulu:
		Mr. Spencer W. Tinker

Lt. Joseph J. Schmidt USN accompanied the group to act as naval liaison.

Lauren R. Donaldson MRP
Lauren R. Donaldson, Director
Contract No. W-28-094-eng-33

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				Necessary action
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				Signature

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