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For all RP LC

UNITED STATES
ATOMIC ENERGY COMMISSION
NEW YORK OPERATIONS OFFICE
70 COLUMBUS AVENUE
NEW YORK 23, NEW YORK

TELEPHONE NO.:
PLaza 7-3600

Health and Safety Laboratory
HSA:JHH:krw

December 17, 1956

Dr. Lauren R. Donaldson, Director
Applied Fisheries Laboratory
University of Washington
Fisheries Center
Seattle 5, Washington

Dear Lauren:

Thanks very much for your information on the survey samples. We have now revised our data in terms of the weights that you gave us. This summary is as correct as possible. The particular question you asked concerning HASL #3815 is resolved by Isotopes, Inc., reducing their value to 80±3.

I believe this completes our data with the exception of a request from DBM for a repeated analysis of all crab samples. Crabs are apparently the limiting diet factor and they are asking for a check on all of our analyses. We will let you know if any changes are made.

Best regards to you and your staff.

Sincerely,

John

John H. Harley, Chief
Analytical Branch

UWAFL - POST BOMBING MARSHALL ISLAND SURVEY SAMPLES

	HASL Number	UWAFL Number	Organism	Tissue	Sampling Location Island	Collection Date	No. Spec.	Lab	Total Activity (β) C-Date	d/m/g wet	Sr^{90} d/m/g - wet	Ca gms/g - wet	S.U.
Invertebrates	4042	I- 9	Holothurai atra	gonad	Rongelap	7-23-56		I, Inc.	10-10-56	46	2.7 ± 0.14	0.00566	210 ± 11
	4043	I-10	Holothurai atra	gut & content	Rongelap	7-23-56		I, Inc.	10-10-56	31	1.2 ± 0.05	0.155	54 ± 0.08
	4044	I-11	Holothurai atra	integument	Rongelap	7-23-56		I, Inc.	10-10-56	10	0.27 ± 0.007	<0.00101	≥ 150
	4045	I-12	Tridacna gigas	mantle	Kabelle	7-24-56		I, Inc.	10-10-56	2.6	0.030 ± 0.016	<0.00239	≥6
	4046	I-13	Tridacna gigas	muscle	Kabelle	7-24-56		I, Inc.	10-10-56	1.5	≤ 0.046	0.00400	≤ 5.3
	4047	I-49a	Cenobita	muscle	Kabelle	7-24-56		NSE		310	16 ± 0.58	0.0016	4600 ± 300
	4048	I-49b	Cenobita	skeleton	Kabelle	7-24-56		NSE		2700	1750 ±59	0.109	3940 ± 170
	4049	I-49c	Cenobita	liver	Kabelle	7-24-56		NSE		700	54 ± 1.6	0.0054	4600 ± 300
	4050	I-50a	Cenobita	skeleton	Kabelle	7-24-56		NSE		1600	910 ±31	0.186	7190 ± 80
	4051	I-50b	Cenobita	liver	Kabelle	7-24-56		NSE		790	25 ± 1.0	0.0046	2620 ± 130
	4052	I-50c	Cenobita	muscle	Kabelle	7-24-56		NSE		250	7.5 ± 0.45	0.0015	2860 ± 170
	4053	I-52	Cenobita	skeleton	Rongelap	7-23-56		NSE		1460	750 ±35	0.156	2200 ± 120
	4054	I-51	Cenobita	skeleton	Kabelle	7-24-56		NSE		2780	1150 ±50	0.182	3600 ± 150
Fish	4035	F-266a	Reef fish	muscle	Rongelap	7-23-56	19	NSE		12	0.036 ± 0.003	0.000808	20 ± 1.9
	4036	F-266b	Reef fish	bone	Rongelap	7-23-56	19	NSE		31	1.9 ± 0.082	0.0711	12 ± 0.5
	4037	F-266c	Reef fish	liver	Rongelap	7-23-56	19	NSE		230	0.058 ± 0.029	0.000990	27 ± 13
	4038	F-314a	Reef fish	muscle	Kabelle	7-24-56	15	I, Inc.	10-10-56	2.9	0.027 ± 0.004	0.00125	9.8 ± 1.6
	4039	F-314b	Reef fish	muscle	Kabelle	7-24-56	15	I, Inc.	10-10-56	0.39	0.101 ± 0.007	0.00104	4.4 ± 1.4
	4040	F-314c	Reef fish	bone	Kabelle	7-24-56	15	I, Inc.	10-10-56	0.66	0.106 ± 0.014	0.0744	0.65 ± 0.09
	4041	F-314d	Reef fish	liver	Kabelle	7-24-56	15	I, Inc.	10-10-56	7.2	0.061 ± 0.041	<0.00485	≥6
Land Plants	4024	RO- 1	Breadfruit	meat	Rongelap	7-23-56		NSE		31	0.26 ± 0.003	0.000447	260 ± 10
	4025	RO- 2	Papaya	seeds	Rongelap	7-23-56		I, Inc.	10-11-56	0.86	0.30 ± 0.01	<0.00208	≥ 86
	4026	RO- 2	Papaya	seeds	Rongelap	7-23-56		NSE		28	0.38 ± 0.002	0.00237	74 ± 4
	4027	RO- 6	Coconut	meat	Rongelap	7-23-56		I, Inc.	10-10-56	0.36	0.033 ± 0.003	<0.000376	≥ 41
	4028	RO- 7	Coconut	milk	Rongelap	7-23-56		NSE		66(d/m/ml)	0.034 ± 0.004(/ml)	0.000277(gms/ml)	58 ± 7
	4034	RO- 8	Morinda	pulp & seeds	Rongelap	7-23-56		NSE		46	1.4 ± 0.048	0.000659	1000 ± 50
	4029	RO-12	Arrowroot	corm	Rongelap	7-23-56		I, Inc.	10-10-56	0.16	0.27 ± 0.004	0.000642	190 ± 3
	4030	RO-16	Pandanus	fruit	Rongelap	7-23-56		NSE		63	1.2 ± 0.041	0.00106	530 ± 20
	4031	RO-20	Coconut	meat	Kabelle	7-24-56		I, Inc.	10-10-56	0.56	0.15 ± 0.003	<0.000250	≥ 272
	4032	RO-21	Coconut	milk	Kabelle	7-24-56		NSE		145	1.9 ± 0.076	0.000474	1720 ± 110
	4033	RO-22	Papaya	fruit	Rongelap	7-23-56		I, Inc.	10-10-56	0.40	0.37 ± 0.006	0.000636	265 ± 4

	HASL Number	UWAFL Number	Type	Island Location	S-Date	Area	Lab	Total Activity (β) C-Date	d/m/l	Sr^{90} d/m/l
Water	3814		Cistern	Rongelap	7-27-56	Village	I, Inc.	8-7-56	31,000 (after filtering twice)	150 ± 4
	3815		Well	Rongelap	7-23-56	Village	I, Inc.	8-7-56	22,000 (after filtering twice)	80 ± 3

	HASL Number	UWAFL Number	Sampling Location	Collection Date	Depth	Area	Lab	Total Activity (β) C-Date	d/m/gm-wet	Sr^{90} d/m/gm-wet	Sr^{90} d/m/ft^2	Sr^{89}/Sr^{90}	Total Ca gms/gm-wet	Minimum S.U.
Soil	3802		Kabelle	7-24-56	0-2"	(first set)	HASL	8- 4-56	1980 ± 80	150 ± 3.7	5.5×10^5	0.07	0.29	
							I, Inc.	8-29-56	1820	155 ± 4.1	5.7×10^5		0.31	220 ± 6
	3803		Kabelle	7-24-56	2-4"	(first set)	HASL	8- 4-56	406 ± 45					
							I, Inc.	8-29-56	471	40 ± 0.41	1.3×10^5		0.32	55 ± 0.6
	3804		Kabelle	7-24-56	4-6"	(first set)	HASL	8- 4-56	≤ 40					
							I, Inc.	8-29-56	106	1.5 ± 0.07	0.064×10^5		0.35	8.0 ± 0.9
	3807		Kabelle	7-24-56	0-2"	(second set)	HASL	8- 4-56	6210 ± 110	250 ± 4.9	9.3×10^5	0.16	0.37	
							I, Inc.	8-30-56	5940	265 ± 1.2	9.8×10^5		0.36	330 ± 2
	3806		Kabelle	7-24-56	2-4"	(second set)	HASL	8- 4-56	3300 ± 102	58 ± 2.9	2.2×10^5	0.07	0.35	
							I, Inc.	8-30-56	1735	96 ± 1.7	3.6×10^5		0.35	125 ± 2
	3805		Kabelle	7-24-56	4-6"	(second set)	HASL	8- 4-56	1160 ± 62	54 ± 2.8	1.8×10^5	0.08	0.56	
							I, Inc.	8-30-56	651	30 ± 0.57	1.0×10^5		0.34	40 ± 1.3
	3808		Rongelap	7-23-56	0-2"	100' fr. lagoon village area	HASL	8- 4-56	266 ± 52					
							I, Inc.	8-30-56	152	10 ± 0.40	0.46×10^5		0.36	13 ± 1.1
	3809		Rongelap	7-23-56	2-4"	100' fr. lagoon village area	HASL	8- 4-56	≤ 39					
							I, Inc.	8-30-56	79.2	4.5 ± 0.1	0.21×10^5		0.35	5.8 ± 0.4
	3810		Rongelap	7-23-56	4-6"	100' fr. lagoon village area	HASL	8- 4-56	≤ 45					
							I, Inc.	8-30-56	54.9	1.4 ± 0.06	0.064×10^5		0.33	1.9 ± 0.8
	3813		Rongelap	7-23-56	0-2"	mid island	HASL	8- 4-56	1220 ± 58	68 ± 2.8	2.3×10^5	0.06	0.20	
							I, Inc.	8-30-56	663	31 ± 0.21	1.0×10^5		0.32	41 ± 0.5
	3812		Rongelap	7-23-56	2-4"	mid island	HASL	8- 4-56	134 ± 51					
							I, Inc.	8-30-56	106	4.0 ± 0.2	0.16×10^5		0.35	5.2 ± 0.3
	3811		Rongelap	7-23-56	4-6"	mid island	HASL	8- 4-56	≤ 37					
							I, Inc.	8-30-56	54.9	0.98 ± 0.03	0.040×10^5		0.32	1.4 ± 0.1
	3818		Parry	7-[illegible]-56	surface	shore	HASL	8- 4-56	17900 ± 203	7.6 ± 2.0		8.7	0.30	
	3819		Parry	7-[illegible]-56	sub-surface	shore	HASL	8- 4-56	103 ± 39					

NO SAMPLES NUMBERS ASSIGNED

* As of 9-20-56

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