ANNUAL OPERATING REPORT

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SAN ONOFRE NUCLEAR GENERATING STATION UNIT 1
FOR 1980

MAINTENANCE, DESIGN CHANGES, AND RADIOLOGICAL ENVIRONMENTAL MONITORING

SOUTHERN CALIFORNIA EDISON COMPANY SAN DIEGO GAS AND ELECTRIC COMPANY

DOCKET NO. 50-206

LICENSE NO. DPR-13

REGULATORY DOCKET FILE COPY



CORRECTIVE MAINTENANCE OF COMPONENTS DESIGNED TO MINIMIZE THE RELEASE OF TOXIC OR RADIOACTIVE MATERIALS TO THE ENVIRONMENT

Docket No. 50-206 San Diego County, California

Reporting Period January - December, 1980	
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COMPONENT		UNCTION	EFFECT ON		PRECAUTION TAKEN TO PROVIDE
CONFORCINI	CAUSE	EFFECT	PLANT OPERATION	CORRECTIVE ACTION	FOR ENVIRONMENT'S PROTECTIO
North Waste Gas Compressor	Motor Burned Up	Compressor Inoperative	None	Replaced Motor	Alternate Processing
North Waste Gas Compressor	Faulty Valves and Motor	No Discharge Pressure	None	Overhaul Compres- sor Replace Motor	Alternate Processing
3 Air Samplers	Misc. Malfunctions	Samplers ~Inoperative	None ·	Overhaul Air Samplers	Spare Air Samplers Used
Radwaste Discharge Filter	Filter Plugged	Low Flow	None	Replace Filter Elements	None Required
ORMS Detector 1218	Contaminated	High Background	None	Decontaminate Detector	None Required

SAN ONOFRE NUCLEAR GENERATING STATION

DESIGN CHANGES APPROVED DURING THE YEAR 1980

The following design changes were approved for implementation by the On-Site Review Committee in 1980. Except as noted, the design changes were fully implemented as of the end of the calendar year 1980. This list fulfills the reporting requirements of Section 5.6.1b of the Environmental Technical Specifications. With respect to this requirement, none of the 1980 changes resulted in a condition which significantly altered the impact of the Station on the environment as described in the NRC Final Environmental Statement and did not involve a change in the Environmental Technical Specifications incorporated in the San Onofre Unit 1 Provisional Operating License DPR-13.

1. DESIGN CHANGE 80-02: MODIFICATION TO VENT VALVE ACTUATORS TO LIMIT OPENING TO 50°

This plant modification will provide stops to limit the opening of vent valves CV-10 and CV-116 to 50° from the fully closed position as required by the NRC letter of October 23, 1979. This modification was committed to for the January outage in SCE letter of January 15, 1980, to D. L. Ziemann of the NRC from K. P. Baskin. (See Page 3 of letter.)

The reason for this change is to satisfy NRC requirements as stated in NRC letter of October 23, 1979, to "limit the valves to be no more than 30° to 50° open."

2. DESIGN CHANGE 80-04: THE INSTALLATION OF CONTAINMENT HYDROGEN RECOMBINERS (TMI) (IN PROGRESS)

This plant modification consists of the addition of necessary supports for redundant safety related quality class hydrogen recombiners inside the containment sphere to deal with the long-term post LOCA generation of hydrogen.

The recombiners scheduled to be installed during a projected January 1981 outage will be mounted on steel platforms extended from the A&C steam generator enclosure structures at elevation 53'-6". Access ladders will be provided from the operation deck (el. 42'-0") to the platform for required normal maintenance.

3. DESIGN CHANGE 80-07: ADDITION OF MECHANICAL PENETRATIONS (In Progress)

This plant modification consists of the addition of containment penetrations only, for sampling lines for obtaining samples of the reactor coolant and of the containment atmosphere. The sampling lines and associated systems will be incorporated by a future design change to be prepared later in 1981.

4. DESIGN CHANGE 80-28: (Revision 2): POST-ACCIDENT SAMPLING STATION (In Progress)

The purpose of this design change is to provide a shielded underground sample station which will be constructed to house the Post-Accident Sample System. The underground arrangement will minimize personnel exposure and preserve space for normal station activities.

5. DESIGN CHANGE 80-30: INCREASED RANGE OF NOBLE GAS EFFLUENT RADIATION MONITOR (In Progress)

This design change consists of an extended range plant stack effluent radiation monitor that will be capable of measuring post-accident noble gas activity, as Xe-133, from concentrations of ALARA (1 x 10- $^{7}~\mu\text{Ci/cc}$) to 1 x $10^{5}~\mu\text{Ci/cc}$. The system will also provide grab samples for determining the I-131 release.

6. DESIGN CHANGE 80-31: STEAM DUMP AND SAFETY VALVE HEADER RADIATION MONITORS (In Progress)

This design change adds a radiation monitoring system for the two atmospheric steam dump valve and steam safety valve headers. The monitors will be installed at the headers to indirectly monitor the noble gas level by measuring the radiation level of the contained steam to 10^4 rads per hour with an accuracy of \pm 20 percent. Readout will be provided in the main Control Room and in the Technical Support Center.

7. DESIGN CHANGE 80-32: ONSITE TECHNICAL SUPPORT CENTER (TMI) (In Progress)

This plant modification consists of the addition of an Onsite Technical Support Center (TSC) located adjacent to the main Control Room in the existing visitors viewing area and a mechanical equipment room on the southeast corner of the administration and control building. The TSC will contain equipment capable of monitoring plant critical functions, and files containing current plant drawings and documents. Operations data will be stored in a moving head disc system.

8. DESIGN CHANGE 80-33: CONTAINMENT PRESSURE INDICATION (In Progress)

Provided by this design change will be new, separate, and redundant containment pressure indicators. The new transducers will tap from the same line as the existing pressure transducers.

Each system will consist of the following components:

- Pressure transmitter
- Signal converter (I/V)
- Control Room panel indicating instrument
- Instrument tubing and valves

9. DESIGN CHANGE 80-36: REACTOR COOLANT SYSTEM VENTING (In Progress)

This design change consists of a remotely operated system for venting the reactor coolant system during post-accident situations when large quantities of non-condensable gases may collect in reactor coolant system high points. The venting system will utilize existing maintenance vent line stubs.

10. DESIGN CHANGE 80-44: METEOROLOGICAL TOWER MODIFICATIONS (In Progress)

This modification consists of moving the majority of the signal conditioning and recording equipment associated with the meteorological monitoring system from its present location in a room adjacent to the SONGS 1 Control Room to a climate-controlled instrument shelter to be located near the Bluff Meteorological Tower.

11. DESIGN CHANGE 80-52: FUEL OIL TRANSFER PUMP DRAINAGE (In Progress)

This design change provides a drainage system (see Figure 1) for the fuel oil transfer pump vaults adequate for the removal of water resulting from any storm, up to and including the PMF, sufficiently rapid to limit the maximum depth of water in the vault to below the fuel oil transfer pumpmotor coupling. Check valves will be provided in the drain lines to prevent backflow. Curbing at grade will be improved to prevent flood runoff from entering the vaults.

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	 # of	•		# of loop#		SAM	PLING LOCATION	N WITH HIGHE	ST MEAN	
Medium	Samp	ling tions	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
AIR SAMPLING Weekly	5	(1)*	131 _{I-257}	Ø	(A11	samples were	below dete	ction limi		pCi/m ³
	5	(1)	Gross Beta- 257	Ø	Visitor Center	0.1mi. 15°mag.	0.006	0.049	0.204	pCi/m ³
Quarterly Composite	5	(1)	Gross Alpha- 20	Ø	Huntingto Beach	n 37mi. 300°mag.	0.0006	0.0020	0.0036	pCi/m ³
	- 5	(1)	137 _{Cs-20}	Ø	(A11	samples were b	elow detec	ion limi	s,)	pCi/m ³
	5	(1)	90 _{Sr-20}	. Ø	San Cleme	nte 5.0mi. 320°mag	Ø	0.0001	0.0002	pCi/m ³
	5	(1)	⁷ Be-20	Ø	Huntingto Beach	n 37mi. 300°mag.	0.06	0.08	0.14	pCi/m ³
	4	(1)	141 _{Ce-4}	Ø	San Cleme	nte 5.0mi. 320°mag		0.006		pCi/m ³
	5	(1)	95 _{Zr-5}	Ø	San Cleme	nte 5.0mi. 320°mag		0.011		pCi/m3
*Nµ		(1) in ()	95 _{Nb-5} indicates numb	Ø er of locations		nte 5.0mi. 320°mag n addition to E.T.		0.014		pCi/m ³

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	# of		# of Locations		SAMI	PLING LOCATION	ON WITH HIGHE	ST MEAN	
1edium	Sampling Locations	Total No. of Samples	Above Local	Name	Location	Low	Mean	High	Units
DIRECT RADIATION Quarterly	16 (2)*	Accumulated Dose - 48	ø	Huntington Beach	37mi. 300°mag.	25.1	31.1	38.2	mR/Qtr
Annua 1	16 (2)	Accumulated Dose - 16	Ø	Huntington Beach	37mi. 300°mag.	61.0	76.0	92.0	mR/Yea
*Nur	nber in ()	indicates num	per of locations	sampled in	addition to E.T.	S. specified	locations	••	
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	# of		# 05 1 4.5		SAMP	LING LOCATION	ON WITH HIGHE	ST MEAN	4.5.
Medium	Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
DRINKING WATER FILTRATE Monthly	3	Gross Alpha- 35	Ø	(A11	samples were	below	detection	limits)	pCi/l
,	3	Gross Beta-35	Ø	Tri-Cities Water Dist.	8.7mi. 320° mag.	7	11.8	19	pCi/2
Quarterly Composite	3	Gross Alpha- 12	Ø .	Tri-Cities Water Dist.	8.7mi. 320° mag.	Ø	1	3	pCi/&
	3	Gross Beta-12	Ø	Tri-Cities Water Dist.	8.7mi. 320°mag.	9	13	16	pCi/&
	3 ;	3 _{H-12}	Ø	Tri-Cities Water Dist.	8.7mi. 320°mag.	Ø	150	600	pCi/l
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	# of				SAMP	LING LOCATIO	N WITH HIGH	EST MEAN	·
Medium	Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
DRINKING WATE SOLIDS	₹								
Monthly	3	Gross Alpha- 35	Ø	Huntington Beach	37mi. 300 mag.	Ø	0.05	0.6	pCi/l
	3	Gross Beta-35	Ø	Tri-Cities Water Dist.	8.7mi. 320°mag.	0.8	1.5	2.7	pCi/l
Quarterly Composite	3	Gross Alpha- 12	Ø	Huntington Beach	37mi. 300°mag.	Ø	0.1	0.4	pCi/l
	3	Gross Beta-12	Ø	San Clement	e 3.5mi. 320° mag	0.9	1.7	2.3	pCi/l

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	# 65		# ^£ ! + •		SAM	PLING LOCATIO	N WITH HIGHE	ST MEAN	-
Medium	# of Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
OCEAN WATER BiMonthly	4 (2)*	Gross Beta-24	Ø	SONGS I- Outfall	0.5mi. 215°mag.	670	903	1340	pCi/l
	4 (2)	Ge(Li)Scan 137Cs-24	1	SONGS I- Outfall	0.5mi. 215° mag.	Ø	72 ^	430	pCi/ ²
Semi-Annual Composite	4 (2)	3 _{H-8}	2	SONGS I- Outfall	0.5mi. 215° mag.		950		pCi/l
			o						
*Nu	mber in ()	indicates numb	er of locations	sampled in a	ddition to E.T.S	specified	locations		
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	# of		# of Locations		· 	SAME	LING LOCAT	ION WITH HIGH	IEST MEAN	
Medium	Sampling Locations	Total No. of Samples	Above Local Background	Name	Locat	ion	Low	Mean	High	Units
BEACH SAND	4	137 _{Cs-8}	2	Surfing Beach		305°mag.	Ø	0.06	0.12	pCi/g-D
	4	226 _{Ra-8} Decay Chain	Ø	0.5mi.South of Unit 1	0.5mi.	125° mag.	0.22	0.46	0.70	pCi/g-D
	4	232 _{Th-8} Decay Chain	Ø	Surfing Beach	1.4mi.	305°mag.	0.26	0.43	0.60	pCi/g-D W
LOCAL CROPS	2	Ge(Li)Scan	a	(411						
	_	131 _{I-2}	Ø	(All sam	ples	were	below	detection	limits)	nCi/Kg
.·	2	137 _{Cs-2}	Ø	(All sam	ples	were	below	detection	limits)	nCi/Kg
	2	Radiochemical 90 _{Sr-2}	Ø	(All sam	ples	were	below	detection	limits)	nCi/Kg
	2	3 _{H-2}	Ø	Oceanside	23mi. 1	35°mag.	110	205	300	nCi/Kg
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	# of		"			SAMPLING LOCATI	ON WITH HIGH	EST MEAN	
Medium	Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
NON-MIGRATORY MARINE ANIMAL		Ge(Li)Scan 137Cs-48	Ø	SONGS I	[& 0.7mi. 215°m	ag. Ø	0.02	0.06	Dry Wt.
	3 (1)	58 _{Co-48}	2	SONGS I	[& 0.7mi. 215°m	ag. Ø	0.10	0.54	nCi/Kg
	3 (1)	60 _{Co-48}	2	SONGS I	[& 0.7mi. 215°m	ag. Ø	0.11	0.91	nCi/Kg
	3 (1)	110 _{mAg-48}	2 ,	SONGS I	0.6mi. 215°m	ag. Ø	0.169	1.3	nCi/Kg
	3 (1)	Radiochemical 3H-48	Ø	SONGS I	0.6mi. 215°m	ag. Ø	113	450	nCi/Kg
	3 (1)	90 _{Sr-45}	3 ° 1	SONGS I	rt I		0.004	0.07	nCi/Kg
*Nur	mber in ()	indicates numb	er of locations	sampled	in addition to E.	T.S. specified	locations		
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	# of		# -£ 1 1 :		SAMP	LING LOCATION	ON WITH HIGH	EST MEAN	
Medium	Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Unit
NON-MIGRATORY MARINE ANIMAL	3	Ge(Li)Scan							Wet Wt
	3 (1)*	137 _{Cs-48}	Ø	Newport Beach	30mi. 305° mag.	Ø	0.006	0.015	nCi/Kg
	3 (1)	58 _{Co-48}	2.	SONGS II &	0.7mi. 215° mag.	Ø	0.022	0.101	nCi/Kg
·	3 (1)	60 _{Co-48}	2	SONGS I	0.6mi. 215° mag.	Ø	0.045	0.266	nCi/Kg
	3 (1)	110m _{Ag-48}	2	SONGS II &	0.7mi. 215° mag.	Ø	0.003	0.020	nCi/Ko
	3 (1)	Radiochemica 3 _{H-} 48	Ø	Newport Beach	30mi. 305° mag.	Ø	27.8	150	nCi/Ko
	3 (1)	⁹⁰ Sr-45	1	SONGS II &		Ø	0.001	0.03	nCi/Ko
	1	238 _{U-1}	Ø	SONGS II &	0.7mi. 215° mag.		0.111		nCi/K
*Number in	() indica	tes number of	ocations sample	d in additi	n to E.T.S. speci	fied location	ns		

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-)					SAM	PLING LOCA	ATION WITH HIG	HEST MEAN	
Medium	# of Sampling Locations	Total No. of Samples		Name	Loc	ation	Low	Mean	High	Units
KELP						T-1				
	4	Ge(Li)Scan 131 _{I-8}	ø	Barn Kelp San Onofre		. 160° mag. . 195° mag.	0.05 Ø	0.09	0.13	Dry Wt nCi/Kg
	4	137 _{Cs-8}	ø	(A11 sa	ımp les	were	below	detection	limits)	nCi/Kg
	4	58 _{Co-8}	Ø	(A11 sa	mples	were	below	detection	limits)	nCi/Kg
	4	60 _{Co-8}	Ø	(A11 sa	mples	were	below	detection	limits)	nCi/Kg
	4	110 _{mAg-8}	Ø	(A11 sa	mples	were	below	detection	limits)	nCi/Kg
	4	95 _{Zr-} 95 _{Nb-4}	Ø	San Mateo	2.9mi	. 295°mag.		0.15		nCi/Kg
	4	Radiochemical 3H-8		San Mateo	2.9mi	. 295°mag.	ø	6	12	nCi/Kg
•	4	95 _{Zr-} 95 _{Nb-4}	Ø	Newport	30mi.	300°mag.		0.16		nCi/Kg
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	# of		# of Locations		SAMP	LING LOCATI	ON WITH HIGHE	ST MEAN	
Medium	Sampling Locations	Total No. of Samples	Above Local	Name	Location	Low	Mean	High	Unit
ELP	4	Ge(Li)Scan 131 _{I-8}	Ø	San Onofre	1.6mi. 195°mag.	Ø	0.012	0.024	Wet W
·	4	137 _{Cs-8}	Ø	(All samp	les were	below	detection	limits)	nCi/K
	4	58 _{Co-8}	Ø	(All samp	les were	below	detection	limits)	nCi/K
	4	60 _{Co-8}	Ø	(All samp	les were	below	detection	limits)	nCi/K
	4	110mAg-8	Ø	(All samp	oles were	below	detection	limits)	nCi/K
•	4	95 _{Zr-} 95 _{Nb-4}	Ø	San Onofre	1.6mi. 195°mag.		0.023		nCi/K
	4	Radiochemical 3H-8	.1	San Mateo	2.9mi. 295° mag.		1.6		nCi/K
	4	95 _{Zr-} 95 _{Nb-4}	Ø	Newport	30mi. 300° mag.		0.021		nCi/K
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	# of		# of looptions			SAMF	LING LOCATI	ON WITH HIGH	IEST MEAN	
Medium	Sampling Locations	Total No. of Samples		Name .	Loca	tion	Low	Mean	High	Units
OCEAN BOTTOM SEDIMENT	5	Ge(Li)Scan 137 _{Cs} -10	Ø	SONGS I	0.5mi.	215°mag.	0.02	0.05	0.07	Dry Wt nCi/Kg
	5	⁵⁸ Co-10	1	SONGS I	0.5mi.	215°mag.	0.02	0.77	1.51	nCi/Kg
	5	⁶⁰ Co-10	1 .	SONGS I	0.5mi.	215° mag.	0.02	5.26	10.5	nCi/Kg
	5	110 _{mAg-10}	Ø	(A11 :	samples	were	below o	letection	limits)	nCi/Kg
	. 2	54 _{Mn-2}	Ø	SONGS II	0.8mi.	245° mag.		0.64		nCi/Kg
	1	65 _{Zn-1}	Ø	SONGS I	0.5mi.	215° mag.		0.34		nCi/Kg
	1	144 _{Ce-1}	Ø	SONGS I	0.5mi.	215° mag.		0.34		nCi/Kg
	5	226 _{Ra-10} Decay Chain	Ø	SONGS I	0.5mi.	215° mag.	0.23	0.56	0.89	nCi/Kg
	5	232 _{Th-10} Decay Chain	Ø	SONGS I	0.5mi.	215° mag.	0.28	0.61	0.94	nCi/Kg
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	# of		"		SAMF	LING LOCATI	ON WITH HIGH	EST MEAN	
Medium	Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
OCEAN BOTTOM SEDIMENT	·	Ge(Li)Scan							Wet Wt
	5	137 _{Cs-10}	Ø	SONGS I	0.5mi. 215° mag.	0.014	0.04	0.06	nCi/Kg
	5	58 _{Co-10}	1	SONGS I	0.5mi. 215° mag.	0.014	0.59	1.16	nCi/Kg
•	5	60 _{Co-10}	1	SONGS I	0.5mi. 215° mag.	0.014	4.06	8.1	nCi/Kg
	5	110 _{mAg-10}	Ø	(A11	samples were	below o	detection	limits)	nCi/Kg
	2	54 _{Mn-2}	Ø	SONGS I	0.5mi. 215° mag.		0.49		nCi/Kg
	i	65 _{Zn-1}	Ø	SONGS I	0.5mi. 215° mag.		0.26		nCi/Kg
	1	¹⁴⁴ Ce-1	Ø	SONGS I	0.5mi. 215° mag.		0.26		nCi/Kg
	5	226 _{Ra-10} Decay Chain	Ø	SONGS II	0.8mi. 245° mag.	0.19	0.47	0.74	nCi/Kg
	5	232 _{Th-10} Decay Chain	Ø	SONGS I	0.5mi. 215° mag.	0.20	0.46	0.72	nCi/Kg
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			" "		SAMP	LING LOCAT	ON WITH HIGHE	ST MEAN	
Medium	# of Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
SOIL		Ge(Li)Scan							Dry Wt
	5	137 _{Cs-5}	Ø	Huntington Beach Camp San Onofre	37mi. 300°mag. 3.0mi. 45°mag.		0.06		nCi/Kg
	5	Decay Chain 226 _{Ra-5}	Ø	Camp San Onofre	3.0mi. 45°mag.		0.69		nCi/Kg
·	5	Decay Chain 232 _{Th-5}	Ø	Huntington Beach	37mi. 300°mag.		0.96		nCi/Kg
	5	90 _{Sr-5}	Ø	Camp San Onofre	3.0mi. 45°mag.		0.05		nCi/Kg
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					SAMF	LING LOCATION	N WITH HIGHE	ST MEAN	
Medium	# of Sampling Locations	Total No. of Samples	# of Locations Above Local Background	Name	Location	Low	Mean	High	Units
JACK RABBIT Femur	1	89 _{Sr-3}	Ø	East of Station	2.0mi. 45°mag.	Ø	1	4	pCi/gĊ
,	1	90 _{Sr-3}	Ø	East of Station	2.0mi. 45°mag.	4	5	6	pCi/gC
Thyroid	1	131 _{I-3}	Ø	(A11 s	amples were	below d	tection	limits)	pCi/g
Flesh	1	137 _{Cs-3}	Ø	(A11 s	amples were	below d	etection	limits)	Dry Wt pCi/g
	1	131 _{I-3}	Ø	(A11 s	amples were	below d	etection	limits)	pCi/g

SAMPLES FOR WHICH RADIONUCLIDE CONTENT WAS GREATER THAN TWICE BACKGROUND LEVEL OF CONTROL LOCATION, JANUARY - DECEMBER, 1980

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SAMPLE TYPE	LOCATION	COLLECTION DATE
Air Filter - Gross Beta	Visitor Center	April 7, 1980
Air Filter - Gross Beta	Visitor Center	July 28, 1980
Air Filter - Gross Beta	San Clemente	July 28, 1980
Drinking Water - Gross Beta	San Clemente	January, 1980
Drinking Water - Gross Beta	San Clemente	February, 1980
Drinking Water - Gross Beta	San Clemente	March, 1980
Drinking Water - Gross Beta	San Clemente	January-March, 1980
Drinking Water (Solids)-Gross Beta	San Clemente	January-March, 1980
Beach Sand - ²³² Th	Surfing Beach	January, 1980
Beach Sand - ²²⁶ Ra	Unit 1 - South	July, 1980
Beach Sand - ²²⁶ Ra	So. San Onofre State Beach	July, 1980
Non-Migratory Marine Animals-58Co	SONGS I	April, June, Dec., 1980
Non-Migratory Marine Animals-58Co	SONGS II & III	April, June, Dec., 1980
${ m Nop_{\overline{0}}}_{ m Co}^{ m Migratory}$ Marine Animals-	SONGS I	April, June, Dec., 1980
Non-Migratory Marine Animals-	SONGS II & III	April, June, Dec., 1980
 Non-Migratory Marine Animals- ^{110m} Ag	SONGS I	April, June, Dec., 1980
Non-Migratory Marine Animals- ¹¹⁰ Ag	SONGS II & III	April, June, Dec., 1980
*Ocean Bottom Sediment- ⁵⁸ Co	SONGS I	December, 1980
*Ocean Bottom Sediment- ⁶⁰ Co	SONGS I	December, 1980
*Possible Correlation with Liquid	Releases: 58Co	⁶⁰ Co
Annual Total	3.92 Curi	es 1.67 Curies

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Medium or Pathway		Lower Limit of	All Indicator Locations		ion with Annual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
AIR FILTERS (pCi/m ³) Weekly	Gross Beta-65	0.001	0.023 (65/65) (0.004-0.048)	Huntington Beach 37mi. 300°mag.	0.027 (13/13) (0.010-0.046)		ø
	131 _{I-65}	0.04	<lld (0="" 65)<="" td=""><td> </td><td></td><td><lld (0="" 13)<="" td=""><td>Ø</td></lld></td></lld>	 		<lld (0="" 13)<="" td=""><td>Ø</td></lld>	Ø
Quarterly Composite	Gross Alpha-5	0.0001	0.0018 (5/5) (0.0008-0.0031)	Huntington Beach 37mi. 300°mag.	0.0031 (1/1)	0.0031 (1/1)	Ø
·	90Sr-5	0.001	<lld (0="" 5)<="" td=""><td></td><td></td><td><lld (0="" 13)<="" td=""><td>· Ø</td></lld></td></lld>			<lld (0="" 13)<="" td=""><td>· Ø</td></lld>	· Ø
	7 _{Be-5}	0.007	0.103 (5/5) (0.08-0.14)	Huntington Beach 37mi. 300°mag.	0.14 (1/1)	0.14 (1/1)	Ø
	¹³⁷ Cs-5	0.0006	0.0006 (2/5) (0-0.0021)	Visitor Center 0.1mi. 15°mag.	0.0021 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø

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Medium or Pathway		Lower Limit of	All Indicator Locations		ion with Annual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurement
DIRECT RADIATION (mR) Quarterly	Accumulated Dose - 16	10mR	30.0 (16/16) (24.4-38.2)	Huntington Beach 37mi. 300°mag.	38.2 (1/1)	38.2 (1/1)	Ø
DRINKING WATER FILTRATE (pCi/l) Monthly					•		
	Gross Alpha 9	1	1.6 (4/9) (0-5)	Huntington Beach 37mi. 300°mag.	2.3 (2/3) (0-4)	2.3 (2/3) (0-4)	, Ø
	Gross Beta 9	0.4	8.0 (9/9) (3.7-14)	San Clemente 8.7mi. 320° mag.	12.3 (3/3) (11-14)	4.2 (3.7-5)	Ø
Quarterly Composite	Gross Alpha 3	1	0.7 (1/3) (0-2)	Huntington Beach 37mi. 300° mag.	2 (1/1)	2 (1/1)	Ø
	Gross Beta 3	1	9.7 (3/3) (6-14)	San Clemente 3.5mi. 320° mag.	14 (1/1)	6 (1/1)	Ø
	3 _H - 3	200	<lld (0="" 3)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
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Reporting Period <u>January - March, 1980</u>

Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations	Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
DRINKING WATER SOLIDS (pCi/l) Monthly	Gross Alpha	0.1	0.1 (2/9) (0-0.6)	Huntington Beach	0.2 (1/3) (0-0.6)	0.2 (1/3)	Ø
•			(0-0.0)	37mi. 300°mag.	(0-0.6)	(0-0.6)	y
	Gross Beta 9	0.1	1.5 (9/9) (0.9-2.2)	San Clemente 3.5mi. 320°mag.	1.9 (3/3)	1.1 (3/3) (0.9-1.5)	Ø
Quarterly Composite	Gross Alpha 3	0.1	0.2 (2/3) (0.0-0.4)	Huntington Beach 37mi. 300°mag.	0.4 (1/1)	0.4 (1/1)	Ø
	Gross Beta 3	0.1	1.4 (3/3) (1.0-2.3)	San Clemente 3.5mi. 300°mag.	2.3 (1/1)	1.0 (1/1)	Ø

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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f)	Highest A Name, Distance	ion with Innual Mean Mean(f)	Control Locations Mean(f)	Number of Nonroutine Reported
OCEAN WATER (pCi/l) BiMonthly	Gross Beta-8	70	926 (8/8) (830-1000)	SONGS III Downcoast 0.7mi. 215°mag.	965 (2/2) (930-1000)	Range 905 (2/2) (830-980)	Measurements Ø
	Ge(Li)Scan 137 _{Cs-8}	5	<lld (0="" 8)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 2)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 2)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 2)<="" td=""><td>ø</td></lld>	ø
BEACH SAND (pCi/g-Dry Wt.)	137 _{Cs-4}	0.004	0.03 (1/4) (0-0.12)	Surfing Beach 1.4mi. 305°mag.	0.12 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	226 _{Ra} Decay Chain						
·	4	0.01	0.23 (4/4) (0.22-0.24)	Surfing Beach 1.4mi. 305°mag.			Ø
				Newport Beach 30mi. 305°mag.	0.24 (1/1)	0.24 (1/1)	
	232 _{Th} Decay Chain 4	0.02	0.26 (4/4) (0.16-0.42)	So. San Onofre State Beach 1.4mi. 305 mag.	0.42 (1/1)	0.16 (1/1)	Ø

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Medium or Pathway	Type and Total Number	Lower Limit	All Indicator Locations		ion with Innual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction		Mean(f) Range	Reported Measurements
AIR FILTERS (pCi/m³) Weekly	131 _{I-65}	0.04	<lld (0="" 65)<="" td=""><td><lld (0="" 26)<="" td=""><td></td><td><lld (0="" 13)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 26)<="" td=""><td></td><td><lld (0="" 13)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 13)<="" td=""><td>Ø</td></lld>	Ø
	Gross Beta-65	0.001	0.021 (65/65) (0.006-0.062)	Visitor Center 0.1mi. 15°mag.	0.026(26/26) (0.006- 0.062)	0.019 (13/13) (0.006-0.030)	Ø
Quarterly Composite	Gross Alpha-5	0.0001	0.0011 (5/5) (0.0006- 0.0015)	Huntington Beach 37mi. 300°mag.	0.0020(2/2) (0.0008- 0.0020)	0.0008 (1/1)	ø
	90 _{Sr-5}	0.001	<lld (0="" 5)<="" td=""><td><lld (0="" 10)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 10)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	7 _{Be-5}	0.01	0.06 (5/5) (0.05-0.08)	Visitor Center 0.1mi. 15°mag.	0.08 (2/2) (0.08-0.08)	0.06 (1/1)	Ø
	137 _{Cs-5}	0.001	<lld (0="" 5)<="" td=""><td>Units 2&3 Switchyard 0.6mi. 110°mag.</td><td>0.0006 (1/2) (0-0.0011)</td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>	Units 2&3 Switchyard 0.6mi. 110°mag.	0.0006 (1/2) (0-0.0011)	<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with unnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
DIRECT RADIATION (mR) Quarterly	Accumulated Dose - 16	10	24.8 (16/16) (20.2-32.2)	Camp San Mateo 3.8mi. 355°mag.		28.2 (1/1)	Ø
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Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations		ion with Annual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
DRINKING WATER FILTRATE (pCi/g)							
Monthly	Gross Alpha-9	1	0.8 (3/9) (0-3)	Huntington Beach 37mi. 300°mag.	2.0 (4/6) (0-4)	1.7 (2/3) (0-3)	Ø
	Gross Beta-9	1	11.1 (9/9) (7-19)	San Clemente 3.5mi. 320°mag.	11.3 (6/6) (8-14)	8.7 (7-11)	Ø
Quarterly Composite	Gross Alpha-3	. 1	<lld (0="" 3)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>1.0 (1/2) (0-2)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	1.0 (1/2) (0-2)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	Gross Beta-3	. 1	10.3 (3/3) (9-13)	San Clemente 3.5mi. 320°mag.	12 (2/2) (9-14)	9 (1/1)	Ø
	3 _{H-3}	200	467 (3/3) (300-600)	Tri-Cities Water District 8.7mi. 320°mag.	/300 (1/2) (0-600)	500 (1/1)	Ø
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Medium or Pathway		Lower Limit of	All Indicator Locations		cion with Annual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection	Mean(f)	Name, Distance	Mean(f)	Mean(f)	Reported
	rerioniled	(LLD)	Range	and Direction	Range	Range	Measurements
DRINKING WATER SOLIDS		·			ļ		
(pCi/ℓ)				·	·		
Monthly	Gross Alpha-9	1	<lld (0="" 9)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0.1 (1/6) (0-0.6)</td><td><lld (0="" 3)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	0.1 (1/6) (0-0.6)	<lld (0="" 3)<="" td=""><td>Ø</td></lld>	Ø
•				, 3			
	Gross Beta-9	1	0.9 (9/9) (0.8-1.1)	San Clemente 3.5mi. 320°mag.	1.4 (6/6) (0.8-2.2)	1.1 (3/3) (0.8-1.1)	Ø
Quarterly Composite	Gross Alpha-3	0.1	.115 (0(2)	Haratte I			
(aross Arpha-S	0.1	<lld (0="" 3)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0.2 (1/2) (0-0.4)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	0.2 (1/2) (0-0.4)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	0	_					
·	Gross Beta-3	0.1	1.8 (3/3) (1.7-2.0)	'San Clemente 3.5mi. 320°mag.	2.2 (2/2) (2.0-2.3)	1.8 (1/1)	Ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurement
OCEAN WATER (pCi/1) BiMonthly	Gross Beta-4	40	1047 (4/4) (800-1340)	SONGS I Outfall O.5mi. 215 mag.	1043 (3/3)	1250 (1/1)	Ø
	Ge(Li)Scan 137 _{Cs-4}	5	408 (1/4) (0-430)	SONGS I Outfall 0.5mi. 215°mag.		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-1}	2	6 (1/1)	SONGS I Outfall O.5mi. 215°mag.	6 (1/1)	Not Analyzed	1
	58 _{Co-1}	5	11 (1/1)	SONGS I Outfall O.5mi. 215°mag.	11 (1/1)	Not Analyzed	1
•	134 _{Cs-1}	20	380 (1/1)	SONGS I Outfall O.5mi. 215°mag.	380 (1/1)	Not Analyzed	1

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OCEAN WATER (pC1/z) Semi-Annual Composite 3H-4 200 1150 (2/4) (0-1900) 10.5mi. 215°mag. 1900 (1/1) <lld (0="" 1)<="" th=""><th>Medium or Pathway Sampled (Unit of Measurement)</th><th>Type and Total Number of Analyses Performed</th><th>Lower Limit of Detection (LLD)</th><th>All Indicator Locations Mean(f) Range</th><th></th><th>tion with Annual Mean Mean(f) Range</th><th>Control Locations Mean(f) Range</th><th>Number of Nonroutine Reported Measurements</th></lld>	Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		tion with Annual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
	(pCi/l) Semi-Annual	3 _{H-4}	200		SONGS I Outfall	1 1900 (1/1)		Ø
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Medium or Pathway	Type and Total Number	Lower Limit	All Indicator	Location with			Number of
Sampled (Unit of Analyses	of Analyses	Detection	Locations Mean(f)	Name, Distance	Annual Mean	_ Control Locations	Nonroutine
of Measurement)	Performed	(LLD)	Range	and Direction	Range	Mean(f) Range	Reported Measurement
NON-MIGRATORY						Kange	ineasurement
MARINE ANIMALS	·		1				
(nCi/Kg-Dry Wt.)	Ge(Li)Scan					'	,
							·
	137 _{Cs-24}	0.007	0.055 (15/28)	SONGS II & III	0.12 (4/8)	0.03 (7/8)	. 0
			(0-0.06)	0.7mi. 215° mag.	(0-0.05)	(0-0.06)	ه ا
·	580 04						
	58 _{Co-24}	0.01	0.107 (8/24)	SONGS II & III	0.16 (4/8)	LLD (0/8)	ø
			(0-0.54)	0.7mi. 215° mag.	(0-0.54)		
	7.						
	60 _{Co-24}	0.01	0.05 (8/24)	SONGS II & III	0.08 (4/8)	(0.0)	_
			(0-0.23)	0.7mi. 215° mag.	(0-0.23)	LLD (0/8)	Ø.
	110 _{mAg-24}	0.01					
	7.9-24	0.01	0.12 (8/24) (0-0.98)	SONGS II & III 0.7mi. 215°mag.	0.23 (4/8)	0.03 (2/8)	Ø
		•	(0 0.30)	0.7111. 215 mag.	(0-0.98)	(0-0.15)	
	Radiochemical						
	3 _{H-24}						
/	9H-24	3	154 (14/24)	SONGS I	213 (6/8)	161 (6/8)	Ø
			(0-450)	0.6mi. 215°mag.	(0-450)	(0-400)	
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Medium or Pathway			All Indicator Locations	Highest Annual Mean		Control Locations	Number of Nonroutine
Sampled (Unit of Measurement) P	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
NON-MIGRATORY MARINE ANIMALS (nCi/Kg-Dry Wt.)							
(Continued)	Radiochemical						
	90 _{Sr-24}	0.02	<lld (0="" 24)<="" td=""><td><lld (0="" 8)<="" td=""><td> ,</td><td><lld (0="" 8)<="" td=""><td>24</td></lld></td></lld></td></lld>	<lld (0="" 8)<="" td=""><td> ,</td><td><lld (0="" 8)<="" td=""><td>24</td></lld></td></lld>	,	<lld (0="" 8)<="" td=""><td>24</td></lld>	24
	238 _{U-1}	0.03	0.71 (1/1)	SONGS II & III 0.7mi. 215°mag.	0.71 (1/1)	Not Analyzed	1
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Medium or Pathway	Type and Total Number	Lower Limit	All Indicator Locations		ion with Annual Mean	Control Locations	Number of Nonroutine Reported
Sampled (Unit	of Analyses	Detection	Mean(f)	Name, Distance	Mean(f)	Control Locations Mean(f)	
of Measurement)	Performed	(LLD)	Range	and Direction	Range	Range	Measurement
NON-MIGRATORY MARINE ANIMALS (nCi/Kg-Wet. Wt.)	Ge(Li)Scan	· -					
	137 _{Cs-24}	0.001	0.005 (14/24) (0-0.015)	Newport Beach 30mi. 305 mag.	0.007 (6/8) (0-0.015)	0.007 (6/8) (0-0.015)	Ø
	58 _{Co-24}	0.002	0.018 (8/24) (0-0.101)	SONGS II & III 0.7mi. 215 mag.	0.040 (4/8) (0-0.101)	<lld (0="" 8)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-24}	0.002	0.028 (8/24) (0-0.266)	SONGS I 0.6mi. 215 mag.	0.066 (4/8) (0-0.266)	<lld (0="" 8)<="" td=""><td>Ø</td></lld>	Ø
	110 _{mAg-24}	0.002	0.040 (8/24) (0-0.14)	SONGS II & III 0.7mi. 215 mag.	0.090 (4/8) (0-0.33)	0.005 (2/8) (0-0.020)	Ø
	Radiochemical	·	,	. ~	·		
	3 _{H-24}	0.5	34.8 (16/24) (0-109)	SONGS I O.6mi. 215° mag.	49.0 (6/8) (0-109)	34.9 (6/8) (0-94)	Ø
	90sr-24	0.001	<lld (0="" 24)<="" td=""><td><lld (0="" 8)<="" td=""><td>·</td><td><lld (0="" 8)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 8)<="" td=""><td>·</td><td><lld (0="" 8)<="" td=""><td>ø</td></lld></td></lld>	· 	<lld (0="" 8)<="" td=""><td>ø</td></lld>	ø
	238 _{U-1}	0.006	0.111 (1/1)	SONGS II & III 0.7mi. 215 mag.	0.111 (1/1)	Not Analyzed	1

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edium or Pathway		Lower Limit of	All Indicator Locations	Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine
ampled (Unit f Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurement
ELP nCi/Kg-Dry Wt.)	Ge(Li)Scan 131 _I _4	0.02	0.10 (4/4) (0.05-0.18)	San Onofre 1.6mi. 195°mag.	0.18 (1/1)	0.11 (1/1)	Ø
	137 _{Cs-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	58 _{Co'-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td>·</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td>·</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	·	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td>`.</td><td><lld (0="" 1<u="">)</lld></td><td>Ø</td></lld></td></lld>	<lld (0="" 1)<="" td=""><td>`.</td><td><lld (0="" 1<u="">)</lld></td><td>Ø</td></lld>	 `.	<lld (0="" 1<u="">)</lld>	Ø
	110 _{mAg-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	Radiochemical 3H-4	5	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td><u></u></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td><u></u></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	<u></u>	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø

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Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations		tion with Annual Mean	Control Locations	Number of Nonroutine Reported Measurements
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	
KELP (nCi/Kg-Wet. Wt.)	Ge(Li)Scan 131 _{I-} 4	0.002	0.011 (4/4) (0.006-0.024)	San Onofre 1.6mi. 195°mag	0.024 (1/1)	0.009 (1/1)	Ø
	137 _{Cs-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	58 _{Co-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-4}	0.003	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td>·</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td>·</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	·	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	110 _{mAg-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td> 、</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td> 、</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	、	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	Radiochemical 3 _{H-4}	0.5	<lld (0="" 4)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø

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Reporting Period April - June, 1980

Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)		tion with Annual Mea Mean(f)		Control L Mean(Number of Nonroutine Reported
of Measurement)	Performed	(LLD)	Range	and Direction	Range		Range		Measurements
OCEAN BOTTOM SEDIMENT (nCi/Kg-Dry Wt.)	Ge(Li)Scan						Numac		incusur chienes
	137 _{Cs} -5	0.01	0.02 (3/5) (0-0.07)	SONGS III- Downcoast 0.9mi. 180 mag		(1/1)	<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
	58 _{Co-5}	0.01	0.01 (2/5) (0-0.02)	SONGS III- Downcoast 0.9mi. 180°mag.		(1/1)	<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
				SONGS I- Upcoast 0.5mi. 215°mag.					
	60 _{Co-5}	0.01	0.01 (2/5) (0-0.03)	SONGS III- Downcoast 0.9mi. 180°mag.	l	(1/1)	<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
	110mAg-5	0.01	<lld (0="" 5)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td></td><td><lld< td=""><td>(0/1)</td><td>Ø</td></lld<></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td></td><td><lld< td=""><td>(0/1)</td><td>Ø</td></lld<></td></lld>			<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
	226 _{Ra-5} Decay Chain	0.005	0.22 (5/5) (0.05-0.32)	SONGS I- Downcoast 0.5mi. 215°mag		(1/1)	0.050	(1/1)	Ø
	232 _{Th-5} Decay Chain	0.01	0.23 (5/5) (0.06-0.31)	SONGS I- Downcoast O.5mi. 215°mag		(1/1)	0.06	(1/1)	Ø

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Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)		ion with	Control Locations	Number of Nonroutine
of Measurement)	Performed	(LLD)	Range	and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
OCEAN BOTTOM SEDIMENT (nCi/Kg-Wet Wt.)	Gẹ(Li)Scan				riunge	Runge	neasur circires
	137 _{Cs-5}	0.006	0.015 (3/5) (0-0.044)	SONGS III- Downcoast 0.9mi. 180 9mag.	0.044 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	58 _{Co-5}	0.007	0.005 (2/5) (0-0.014)	SONGS I- Upcoast 0.5mi. 215 mag.	0.014 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-5}	0.007	0.007 (2/5) (0-0.020)	SONGS III- Downcoast 0.9mi. 180 mag.	0.020 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	110 _{mAg-5}	0.006	<lld (0="" 5)<="" td=""><td><lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 1)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	226 _{Ra-5} Decay Chain	0.004	0.165 (5/5) (0.038-0.24)	SONGS I- Downcoast O.5mi. 215°mag	0.24 (1/1)	0.038 (1/1)	Ø
	232 _{Th-5} Decay Chain	0.008	0.175 (5/5) (0.045-0.24)	SONGS I- Downcoast O.5mi. 215°mag	0.24 (1/1)	0.045 (1/1)	ø

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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)			Name,	Loca Highest / Distance irection	tion wi Annual Mean(Range	Mean f)	Control Locations Mean(f) Range	Number of Nonroutine Reported
JACK RABBIT Femur (pCi/gCa)*	89Sr-1	3	4	(1/1)	2mi. 45°mag	East	4	(1/1)	None	Measurement Ø
·. ·	90 _{Sr-1}	. 1	6	(1/1)	2mi. I 45°mag		6	(1/1)	None	Ø
Thyroid (pCi/g)	131 _{I-1}	10	LLD	(0/1)	<lld< td=""><td>(0/1)</td><td></td><td>·</td><td>None</td><td>Ø</td></lld<>	(0/1)		·	None	Ø
Flesh (pCi/g-Dry Wt.)	137 _{Cs-1} 131 _{I-1}	0.04	LLD	(0/1)	<lld< td=""><td>(0/1)</td><td></td><td>-</td><td>None</td><td>Ø</td></lld<>	(0/1)		-	None	Ø
*Note: 0.28±0.02		0.03	LLD	(0/1)	≺LLD	(0/1)			None	Ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
AIR FILTERS (pCi/m ³) Weekly	131 _{I-63}	0.04	<lld (0="" 63)<="" td=""><td><lld (0="" 193)<="" td=""><td></td><td><lld (0="" 11)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 193)<="" td=""><td></td><td><lld (0="" 11)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 11)<="" td=""><td>ø</td></lld>	ø
	Gross Beta-63	0.001	0.019 (63/63) (0.007-0.066)	Visitor Center O.1mi. 15°mag.	0.031 (39/39) (0.006-0.062)		Ø
Quarterly Composite	Gross Alpha-5	0.0003	0.0003 (3/5) (0-0.0006)	Huntington Beach 37mi. 300°mag.	0.0015 (3/3) (0.0006- 0.0031)	0.0006 (1/1)	Ø
	90 _{Sr-5}	0.001	<lld (0="" 5)<="" td=""><td><lld (0="" 15)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 15)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	7 _{Be-5}	0.01	0.05 (5/5) (0.03-0.07)	Huntington Beach 37mi. 300°mag.	0.09 (3/3) (0.06-0.14)	0.06 (1/1)	Ø
	137 _{Cs-5}	0.001	<lld (0="" 5)<="" td=""><td>Visitor Center O.1mi. 15°mag.</td><td>0.0007 (1/3) (0-0.0021)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	Visitor Center O.1mi. 15°mag.	0.0007 (1/3) (0-0.0021)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
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Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)	Highest A Name, Distance		Control Locations Mean(f)	Number of Nonroutine Reported
of Measurement)	Performed	(LLD)	Range	and Direction	Range	Range	Measurement
DIRECT RADIATION (mR) Quarterly	Accumulated				,		
	Dose 16	10 mR	25.2 (16/16) (20.7-32.8)	Huntington Beach 37mi. 300°mag.	33.0 (3/3) (28.2-38.2)	32.8 (1/1)	Ø
DRINKING WATER FILTRATE (pCi/&)		·					
Monthly	Gross Alpha-9	1	<lld (0="" 9)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>11.1 (9/9) (7-19)</td><td><lld (0="" 3)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	11.1 (9/9) (7-19)	<lld (0="" 3)<="" td=""><td>Ø</td></lld>	Ø
	Gross Beta-9	1	9.8 (9/9) (6-14)	Tri-Cities Water District 8.7mi. 300° mag.	1.3 (4/9)	9.7 (6-13)	Ø
Quarterly Composite	Gross Alpha-3	2	<lld (0="" 3)<="" td=""><td>·</td><td></td><td></td><td>Ø</td></lld>	·			Ø
	Gross Beta-3	1	11 (3/3) (9-13)	Tri-Cities Water District 8.7mi. 300°mag	12 (3/3) (9-13)	9 (1/1)	ø
	3 _{H-3}	200	<lld (0="" 3)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0 7 (1/3) (0-2.0)</td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	0 7 (1/3) (0-2.0)	<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
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Medium or Pathway	Type and Total Number	Lower Limit	All Indicator Locations		ion with nnual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance		Mean(f) Range	Reported Measurement
DRINKING WATER SOLIDS (pCi/%) Monthly	Gross Alpha-9	0.1		·			
nonenty		0.1	0.04 (1/9) (0-0.4)	Huntington Beach 37mi. 300 mag.	0.07 (1/9) (0-0.6)	<lld (0="" 3)<="" td=""><td>Ø</td></lld>	Ø
Quarterly	Gross Beta-9	0.1	1.6 (9/9) (1.0-2.7)	Tri-Cities Water District 8.7mi. 320°mag.	1.5 (9/9) (0.8-2.7)	1.4 (3/3) (1.2-1.6)	Ø
Composite	Gross Alpha-3	0.1	<lld (0="" 3)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0.1 (1/3) (0-0.4)</td><td>₫LD (0/1)</td><td>Ø</td></lld>	Huntington Beach 37mi. 300°mag.	0.1 (1/3) (0-0.4)	₫LD (0/1)	Ø
OCEAN MATER	Gross Beta-3	0.1	1.1 (3/3) (0.9-1.6)	San Clemente Well No. 6 3.5mi. 320°mag.	1.7 (3/3) (0.9-2.3)	0.9 (1/1)	Ø
OCEAN WATER (pCi/2)						*	
Bi Monthly	Gross Beta-8	40	720 (8/8) (640-820)	SONGS III Downcoast O.7mi. 215°mag.	775 (5/5) (730-1000)	645 (2/2) (640-650)	Ø
	Ge(Li)Scan 137 _{Cs-8}	5 .	<lld (0="" 8)<="" td=""><td>SONGS I-Outfall 0.5mi. 215°mag.</td><td></td><td><lld (0="" 2)<="" td=""><td>ø</td></lld></td></lld>	SONGS I-Outfall 0.5mi. 215°mag.		<lld (0="" 2)<="" td=""><td>ø</td></lld>	ø
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Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations	Locat Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine	
Sampled (Unit of Measurement)	of Analyses	Detection	Mean(f)	Name, Distance	Mean(f)	Mean(f)	Reported	
or rieasurement)	Performed	. (LLD)	Range	and Direction	Range	Range	Measurement	
BEACH SAND (pCi/g-DRY WT.)	137 _{Cs-4}	0.01	0.005 (1/4) (0-0.02)	Surfing Beach 1.4mi. 305°mag.	0.06 (1/2) (0-0.12)	<lld (0="" 1)<="" td=""><td>· ø</td></lld>	· ø	
	•						·	
	226 _{Ra Decay} Chain 4	0.01	0.40 (4/4) (0.14-0.70	0.5mi. South of Unit 1 0.5mi. 125°mag.	0.46 (2/2) (0.22-0.70)	0.25 (1/1)	Ø	
	232 _{Th Decay} Chain	0.02	0.46 (4/4) (0.14-0.62)	Surfing Beach 1.4mi. 305°mag.	0.43 (2/2) (0.26-0.60)	0.47 (1/1)	Ø	
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Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)		ion with nnual Mean Mean(f)	Control Locations Mean(f)	Number of Nonroutine Reported
of Measurement)	Performed	(LLD)	Range	and Direction	Range	Range	Measurements
LOCAL CROPS (nCi/Kg)	0 (1.1)0						
	Ge(Li)Scan 131 _{I –} 4	0.02	<lld (0="" 4)<="" td=""><td></td><td></td><td><lld (0="" 2)<="" td=""><td>Ø</td></lld></td></lld>			<lld (0="" 2)<="" td=""><td>Ø</td></lld>	Ø
	Ge(Li)Scan 137 _{Cs} - 4	0.01	<lld (0="" 4)<="" td=""><td></td><td></td><td><lld (0="" 2)<="" td=""><td>Ø</td></lld></td></lld>			<lld (0="" 2)<="" td=""><td>Ø</td></lld>	Ø
· ·	Radiochemical	0.04	<lld (0="" 4)<="" td=""><td></td><td></td><td><lld (0="" 2)<="" td=""><td>Ø</td></lld></td></lld>			<lld (0="" 2)<="" td=""><td>Ø</td></lld>	Ø
		·		, ·			
	Radiochemical 3 _{H-4}	4	303 (4/4) (86-300)	Oceanside 23mi. 135°mag.	205 (2/2) (110-300)	205 (2/2) (110-300)	Ø
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Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations		ion with Annual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction		Mean(f)	Reported
AIR FILTERS (pCi/m ³)	7 CT TOT IIICG	(220)	range	and Direction	Range	Range	Measurements
Weekly	131 _{I-64}	0.04	<lld (0="" 64)<="" td=""><td><lld (0="" 52)<="" td=""><td></td><td><lld (0="" 13)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 52)<="" td=""><td></td><td><lld (0="" 13)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 13)<="" td=""><td>ø</td></lld>	ø
	Gross Beta-64	0.001	0.090 (64/64) (0.013-0.204)	Visitor Center 0.1mi 15°mag.	0.049 (52/52) (0.006- 0.204)	0.091 (12/12) (0.029-0.194)	Ø
Quarterly Composite	Gross Alpha-5	0.0001	0.0008 (2/5) (0-0.0036)	Huntington Beach 37mi. 300°mag.	0.0020 (4/4) (0.0006- 0.0036)	0.0036 (1/1)	Ø
·	90 _{Sr-5}	0.001	0.00004 (1/5) (0-0.0002)	San Clemente 5.Omi. 320°mag.	0.0001 (1/4) (0-0.0002)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	7 _{Be-5}	0.01	0.039 (5/5) (0.03-0.061)	Huntington Beach 37mi. 300°mag.	0.075 (4/4) (0.06-0.14)	0.038 (1/1)	Ø
	¹³⁷ Cs-5	0.001	<lld (0="" 5)<="" td=""><td><lld (0="" 4)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 4)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
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Reporting Period <u>October - December, 1980</u>

Medium or Pathway	Type and Total Number	Lower Limit of	All Indicator Locations	Highest A	ion with Innual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurement
AIR FILTERS (pCi/m ³) Quarterly							
Composite	141 _{Ce-4}	0.001	0.003 (4/4) (0.002-0.006)	San Clemente 5.Omi. 320°mag.	0.006 (1/1)	0.002 (1/1)	4
	95 _{Zr-5}	0.001	0.005 (5/5) (0.002-0.011)	San Clemente 5.Omi. 320°mag.		0.004 (1/1)	5
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	95 _{Nb-5}	0.001	0.006 (5/5) (0.002-0.014)	San Clemente 5.Omi. 320°mag.	0.014 (1/1)	0.004 (1/1)	5
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San	dium or Pathway npled (Unit Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		tion with Annual Mean Mean(f) Range	Control Locations Mean(f)	Reported
DIR	ECT RADIATION (mR) Quarterly	Accumulated Dose - 16	10	22.5 (16/16) (18.3-27.4)		31.1 (4/4) (25.1-38.2)	Range 25.1 (1/1)	Measurements Ø
	Annua]	Accumulated Dose	3		Huntington Beach 37mi. 300 9mag.	92 (1/1)	92 (1/1)	Ø

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Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)	Highest A	tion with Annual Mean		Locations	Number of Nonroutine
of Measurement)	Performed	(LLD)	Range	Name, Distance and Direction	Mean(f) Range	Mean		Reported
DRINKING WATER FILTRATE (pCi/l)				und bricetion		Range	<u>.</u>	Measurement
Monthly	Gross Alpha-8	. 1	0.6 (1/8)	<lld (0="" 2)<="" td=""><td></td><td><lld< td=""><td>(0/2)</td><td>Ø</td></lld<></td></lld>		<lld< td=""><td>(0/2)</td><td>Ø</td></lld<>	(0/2)	Ø
·	Gross Beta-8	1		 Tri-Cities Water District	11.8 (12/12) (7-19)	13.7 (10-17)	(3/3)	Ø
			•	8.7mi. 320°mag.	(, 20)	(10-17)		
Quarterly Composite	Gross Alpha-3	1	(0-3)	Tri-Cities Water District 8.7mi. 320°mag.	1 (0-3)	<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
	Gross Beta-3	1	(9-16)	Tri-Cities Water District 8.7mi. 320°mag.	13 (4/4) (9-16)	9	(1/1)	Ø
	3 _{H-3}	200		Tri-Cities	150 (1/4)	<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
				Water District 8.7mi. 320°mag.	(0-600)			
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
DRINKING WATER SOLIDS (pCi/l)							
Monthly	Gross Alpha-8	1	<lld (0="" 8)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0.05 (1/11) (0-0.6)</td><td><lld (0="" 2)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	0.05 (1/11) (0-0.6)	<lld (0="" 2)<="" td=""><td>Ø</td></lld>	Ø
	Gross Beta-8	1	1.1 (8/8) (0.6-2.0)	Tri-Cities Water District 8.7mi. 320°mag.	1.5 (12/12) (0.8-2.7)	1.2 (0.6-1.1) (3/3)	. Ø
Quarterly Composite	Gross Alpha-3	0.1	<lld (0="" 3)<="" td=""><td>Huntington Beach 37mi. 300°mag.</td><td>0.1 (1/4) (0-0.4)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	Huntington Beach 37mi. 300°mag.	0.1 (1/4) (0-0.4)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	Gross Beta-3	0.1	1.4 (3/3) (1.2-1.7)	San Clemente 3.5mi. 320°mag.	1.7 (4/4) (0.9-2.3)	1.2 (1/1)	Ø

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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
OCEAN WATER (pCi/%) BiMonthly	Gross Beta-4	40	893 (4/4) (700-1040)	SONGS I Outfall O.5mi. 215°mag.	903 (6/6) (670-1340)	700 (1/1)	Ø
	Ge(Li)Scan 137 _{Cs-4}	5	<lld (0="" 4)<="" td=""><td>SONGS I Outfall O.5mi. 215°mag.</td><td>72 (1/6) (0-430)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	SONGS I Outfall O.5mi. 215°mag.	72 (1/6) (0-430)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
Semiannual Composite	3 _{H-4}	200	<lld (0="" 4)<="" td=""><td>SONGS I Outfall O.5mi. 215°mag.</td><td>950 (1/2)</td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>	SONGS I Outfall O.5mi. 215°mag.	950 (1/2)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonrouting Reported Measuremen
NON-MIGRATORY MARINE ANIMALS (nCi/Kg-Dry Wt.)	Ge(Li)Scan					Nungo	
	137 _{Cs-24}	0.007	0.015 (12/24) (0-0.06)	SONGS II & III 0.7mi. 215°mag.		0.01 (4/8) (0-0.046)	Ø
	⁵⁸ Co-24	0.01	0.03 (4/24) (0-0.31)	SONGS II & III 0.7mi. 215°mag.		<lld (0="" 8)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-24}	0.01	0.11 (9/24) (0-0.99)	SONGS II & III 0.7mi. 215°mag.		0.03 (2/8)	Ø
	110mAg-24	0.01	0.11 (6/24) (0-1.3)	SONGS I 0.6mi. 215°mag.	0.169 (5/16) (0-1.3)	<lld (0="" 8)<="" td=""><td>ø</td></lld>	ø
	Radiochemical 3H-24	3	35.5 (13/24) (0-450)	SONGS I 0.6mi. 215°mag.	113 (10/16) (0-450)	64.5 (3/8) (0-450)	Ø.
	⁹⁰ Sr-21	0.02	0.003 (1/21) (0-0.07)	SONGS II & III 0.7mi. 215°mag.	0.004 (1/16) (0-0.07)	<lld (0="" 8)<="" td=""><td>21</td></lld>	21
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
NON-MIGRATORY MARINE ANIMALS (nCi/Kg-Wet Wt.)	Ge(Li)Scan						
	137 _{Cs-24}	0.001	0.005 (12/24) (0-0.014)	SONGS II & III 0.7mi. 215°mag.	0.006 (4/8) (0-0.014)	0.005 (4/8) (0-0.014)	Ø
	58 _{Co-24}	0.002	0.004 (4/24) (0-0.043)	SONGS I 0.6mi. 215° mag.	0.008 (2/8) (0-0.043)	<lld (0="" 8)<="" td=""><td>Ø</td></lld>	Ø
	60 _{Co-24}	0.002	0.016 (9/24) (0-0.138)	SONGS I 0.6mi. 215°mag.	0.024 (3/8) (0-0.138)	0.004 (2/8) (0-0.016)	Ø
	110mAg-24	0.002	0.021 (6/24) (0-0.17)	SONGS I 0.6mi. 215°mag.	0.043 (3/8) (0-0.17)	<lld (0="" 8)<="" td=""><td>Ø</td></lld>	Ø
	Radiochemical				·		
	3 _{H-24}	0.04	10.7 (13/24) (0-150)	Newport Beach 30mi. 305°mag.	20.7 (3/8) (0-150)	20.7 (3/8) (0-150)	Ø
	⁹⁰ Sr-21	0.001	0.001 (1/21) (0-0.03)	SONGS II & III O.7mi. 215°mag.	0.003 (1/8) (0-0.03)	<lld (0="" 8)<="" td=""><td>21</td></lld>	21

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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Location Mean(f) Range	Number of Nonroutine Reported Measurements
KELP (nCi/Kg-Dry Wt.)	Ge(Li)Scan		, and the second	and procession	Nulige	nunge	ricusur cinevos
	131 _{I-4}	0.02	0.07 (2/4) (0-0.13)	Barn Kelp 6.6mi. 160°mag.	0.09 (2/2) (0.05-0.13)	0.06 (1/1)	Ø
				San Onofre Kelp 1.6mi. 195°mag.	0.09 (1/2) (0-0.18)		
	137 _{Cs-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	58 _{Co-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	60 _{Co-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	110 _{mAg-4}	0.02	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
	95Zr- ⁹⁵ Nb-4	0.02	0.14 (4/4)	San Mateo Kelp 2.9mi. 295 Mag.	0.15 (1/1)	0.14 (1/1)	4
	Radiochemical 3H-4	5	3 (1/4) (0-12)	San Mateo Kelp 2.9mi. 295 mag.	6 (1/2) (0-12)	<lld (0="" 1)<="" td=""><td>ø</td></lld>	ø
•	95 _{Zr-} 95 _{Nb} -4	0.01	0.12 (4/4) (0.06-0.16)	Newport Kelp 30mi. 300 mag.	0.16 (1/1)	0.16 (1/1)	4
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Medium or Pathway	Type and Total Number	Lower Limit	All Indicator Locations	Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
KELP (nCi/Kg-Wet Wt.)	Ge(Li)Scan	٠,					
	131 _{I-4}	0.002	0.06 (2/4) (0-0.017)	San Onofre Kelp 1.6mi. 195°mag.	0.012 (1/2) (0-0.024)	0.008 (1/1)	Ø
	137 _{Cs-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø `.</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø `.</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø `.</td></lld>	Ø `.
	58 _{Co-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
`	60 _{Co-4}	0.003	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	110 _{mAg-4}	0.002	<lld (0="" 4)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	95Zr-95Nb-4	0.002	0.19 (4/4) (0.14-0.23)	San Onofre Kelp 1.6mi. 195°mag.	0.023 (1/1)	0.018 (1/1)	4
	Radiochemical 3H-4	0.5	0.4 (1/4) (0-1.6)	San Mateo Kelp 2.9mi. 295 mag.	1.6 (1/1)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	95 _{Zr-} 95 _{Nb-4}	0.01	0.016 (4/4) (0.008-0.021)	Newport Kelp 30mi. 300°mag.	0.021 (1/1)	0.021 (1/1)	4

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Medium or Pathway Sampled (Unit	Type and Total Number of Analyses	Lower Limit of Detection	All Indicator Locations Mean(f)		ion with nnual Mean Mean(f)		Locations	Number of Nonroutine Reported
of Measurement)	Performed	(LLD)	Range	and Direction	Range	Rang		Measurements
OCEAN BOTTOM SEDIMENT (nCi/Kg-Dry Wt.)	G = (1 ÷) G = = =							
	Ge(Li)Scan							
	137 _{Cs-5}	0.01	0.04 (4/5) (0-0.07)	SONGS I-Upcoast 0.5mi. 215°mag.	0.05 (2/2) (0.02-0.07)	0.06	(1/1)	Ø
1	58 _{Co-5}	0.01	0.31 (2/5) (0-1.51)	SONGS I-Upcoast 0.5mi. 215°mag.	0.77 (2/2) (0.02-1.51)	<lld< td=""><td>(0/1)</td><td>ø</td></lld<>	(0/1)	ø
	60 _{Co-5}	0.01	2.15 (2/5) (0-10.5)	SONGS I-Upcoast 0.5mi. 215°mag.	5.26 (2/2) (0.02-10.5)	<lld< td=""><td>(0/1)</td><td>ø</td></lld<>	(0/1)	ø
	110m _{Ag-5}	0.01	<lld (0="" 5)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld< td=""><td>(0/1)</td><td>Ø</td></lld<></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld< td=""><td>(0/1)</td><td>Ø</td></lld<></td></lld>		<lld< td=""><td>(0/1)</td><td>Ø</td></lld<>	(0/1)	Ø
	226 _{Ra-5} Decay Chain	0.005	0.58 (5/5) (0.42-0.89)	SONGS II- Upcoast 0.8mi. 245°mag.	0.56 (2/2) (0.23-0.89)	0.42	(1/1)	Ø
	232 _{Th-5} Decay Chain	0.01	0.61 (5/5) (0.28-0.94)	SONGS I-Upcoast 0.5mi. 215° mag.	0.61 (0.28-0.94)	0.51	(1/1)	Ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
OCEAN BOTTOM SEDIMENT (nCi/Kg-Dry Wt.)	,						
	54 _{Mn-2}	0.006	0.33 (2/2) (0.02-0.64)	SONGS I-Upcoast 0.5mi. 215°mag.		Not Analyzed	2
	65 _{Zn-1}	0.06	0.34 (1/1)	SONGS I-Upcoast 0.5mi. 215°mag		Not Analyzed	1
	144 _{Ce-1}	0.07	0.34 (1/1)	SONGS I-Upcoast 0.5mi. 215°mag.	0.34 (1/1)	Not Analyzed	1
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurement
OCEAN BOTTOM SEDIMENT (nCi/Kg-Dry Wt.)	· .						
	54 _{Mn-2}	0.006	0.33 (2/2) (0.02-0.64)	SONGS I-Upcoast 0.5mi. 215°mag.	0.64 (1/1)	Not Analyzed	2
	65 _{Zn-1}	0.06	0.34 (1/1)	SONGS I-Upcoast 0.5mi. 215°mag.	0.34 (1/1)	Not Analyzed	1
	144 _{Ce-1}	0.07	0.34 (1/1)	SONGS I-Upcoast 0.5mi. 215°mag.	0.34 (1/1)	Not Analyzed	1
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Medium or Pathway	1	Lower Limit of	All Indicator Locations	Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f) Range	Name, Distance and Direction	Mean(f) Range	Mean(f) Range	Reported Measurements
OCEAN BOTTOM		(====	Nange .	and birection	range "	Range	rieasur eneric
SEDIMENT						,	
(nCi/Kg-Wet Wt.)	Ge(Li)Scan					,	
	137 _{Cs-5}	0.005	0.033 (4/5) (0-0.06)	SONGS I-Upcoast 0.5mj. 215 mag.	0.04 (2/2) (0.014-0.06)	0.043 (1/1)	Ø
	F0				\$		
	58 _{Co-5}	0.006	0.238 (2/5) (0-1.16)	\$ONGS I-Upcoast Q.5mi. 215°mag.	0.59 (2/2)	<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
			(0-1.10)	9.5mi. 215 mag.	(0.014-1.10)		1 1 2 2 2 2
	60 _{Co-5}	0.01	1.66 (2/5)	SONGS I-Upcoast	4.06 (2/2)	<lld (0="" 1)<="" td=""><td>0</td></lld>	0
			(0-8.1)	0.5mi. 215°mag.		\LLD (0/1)	V
	110	·	·			 :	
	110 _{mAg-5}	0.009	<lld (0="" 5)<="" td=""><td><lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld></td></lld>	<lld (0="" 2)<="" td=""><td></td><td><lld (0="" 1)<="" td=""><td>Ø</td></lld></td></lld>		<lld (0="" 1)<="" td=""><td>Ø</td></lld>	Ø
	Decay Chain:						
	226 _{Ra-5}	0.01	0.45 (5/5) (0.25-0.74)	SONGSII-Upcoast 0.8mi. 245°mag.	0.47 (2/2) (0.19-0.74)	0.30 (1/1)	Ø
		*	(0.25 0.74)	0.011. 245 111ay.	(0.13-0.74)		
	Decay Chain: 232 _{Th-5}	0.02	0.48 (5/5)	SONGS I-Upcoast	0.46 (1/1)	0.36 (1/1)	Ø
·			(0.23-0.72)	0.5mi. 215°mag.	(0.20-0.72)	0.30 (1/1)	,
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M. II	Type and	Lower Limit	All Indicator	Locat	ion with		Number of
Medium or Pathway	Total Number	of	Locations	Highest A	nnual Mean	Control Locations	Nonroutine
Sampled (Unit of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f)	Name, Distance		Mean(f)	Reported
or neasurement)	rerrormed	(LLD)	Range	and Direction	Range	Range	Measurements
OCEAN BOTTOM	·				"		,
SEDIMENT	0 (1 1)0				_		
(nCi/Kg-Wet Wt.)	Ge(Li)Scan						ļ .·
	54 _{Mn-2}	0.005	0.253 (2/2)	SONGS I-Uncoast	0.49 (1/1)	Not Analyzed	2
			(0.015-0.49)	SONGS I-Upcoast 0.5mi. 215°mag.	0.43 (1/1/	Not Analyzed	
				J	, .		
	65 _{Zn-1}	0.05	0.26 (1/1)	SONGS I-Upcoast	0.26 (1/1)	Not Analyzed	1
		3.00	(1/1/	0.5mi. 215°mag.		Not Analyzed	1
•				,			
	•			•			}
	144 _{Ce-1}	0.06	0.26 (1/1)	SONGS I-Upcoast	0.26 (1/1)	Not Analyzed	1
	•		(2, 2,	0.5mi. 215°mag.	0.20 (1/1)	HOU AMAIYZEG	
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Medium or Pathway Sampled (Unit		Lower Limit	All Indicator Locations	Highest A	ion with nnual Mean	Control Locations	Number of Nonroutine
of Measurement)	of Analyses Performed	Detection (LLD)	Mean(f)	Name, Distance	Mean(f)	Mean(f)	Reported
SOIL		(LLD)	Range	and Direction	Range "	Range	Measurement
(nCi/Kg-Dry Wt.)	Ge(Li)Scan			٠.			
	137 _{Cs-5}	0.01	0.03 (3/5) (0-0.06)	Huntington Beach 37mi. 300°mag.	0.06 (1/1)	0.06 (1/1)	ø
				Camp San Onofre 3.Omi. 45°mag.	£		
•	226 _{Ra-5}						
	Decay Chain	0.02	0.55 (5/5) (0.38-0.69	Camp San Onofre 3.Omi. 45°mag.	0.69 (1/1)	0.67 (1/1)	Ø
	232 _{Th-5} Decay Chain	0.03	0.64 (5/5) (0.43-0.96)	Huntington Beach 37mi. 300°mag.	0.96 (1/1)	0.96 (1/1)	Ø
;	90 _{Sr-5}	0.01	0.02 (3/5) (0-0.05)	Camp San Onofre 3.Omi. 45 mag.	0.05 (1/1)	0.03 (1/1)	Ø
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Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range		ion with nnual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
JACK RABBIT Femur (pCi/gCa)*		1	<lld (0="" 2)<="" td=""><td>2 mi. East 45 mag.</td><td>1 (1/3)</td><td>None</td><td>1</td></lld>	2 mi. East 45 mag.	1 (1/3)	None	1
	90Sr-2	1	5 (0/2)	2 mi. East 45°mag.	5 (3/3)	None	1
Thyroid (pCi/g)	131 _{I-2}	2	<lld (0="" 2)<="" td=""><td><lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld></td></lld>	<lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld>		None	1
Flesh (pCi/g-Dry Wt.)	137 _{Cs-2}	0.06	<lld (0="" 2)<="" td=""><td><lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld></td></lld>	<lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld>		None	1
	131 _{I-2}	0.03	<lld (0="" 2)<="" td=""><td><lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld></td></lld>	<lld (0="" 3)<="" td=""><td></td><td>None</td><td>1</td></lld>		None	1
*0.37 ± 0.02 gCa	g ash						