

04JUL91

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY  
 Docket Nos. 50-206, 50-361, 50-362  
 Reporting period: January 1, 1971 to December 31, 1971

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	Location with Highest Annual Mean Name, Distance and Direction	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	500	0.0011	0.2215( 68/450) ( 0.020- 0.950)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.2576( 21/ 50) ( 0.100- 0.950)	<LLD ( 0/ 50)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Co-58	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Co-60	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Cs-134	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Cs-137	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Zr(Nb)-95	1	0.0010	0.0430( 1/ 1) ( 0.043- 0.043)	San Clemente City SDG&E Offices 5.5 mi. NW	0.0430( 1/ 1) ( 0.043- 0.043)	<LLD ( 0/ 0)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)							
Gross Alpha	44	0.0003	0.0090( 5/ 40) ( 0.004- 0.013)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.0090( 3/ 4) ( 0.004- 0.013)	<LLD ( 0/ 4)	0
Sr-90	44	0.0030	<LLD ( 0/ 40)	ALL <LLD	-----	<LLD ( 0/ 4)	0

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05JUL91

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Table 9D Drinking Water Quarterly Composite (pCi/l)							
Gross Alpha	12	0.2110	1.1000( 1/ 8) ( 1.100- 1.100)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.1000( 1/ 4) ( 1.100- 1.100)	<LLD ( 0/ 4)	0
Gross Beta	12	0.7380	1.3000( 8/ 8) ( 0.400- 2.200)	San Clemente Golf Course Well 3.5 mi. NNW	1.3750( 4/ 4) ( 0.700- 2.200)	<LLD ( 0/ 4)	0
Table 9E Drinking Water Quarterly Composite (pCi/l)							
Ba(La)-140	8	37.400	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Co-58	8	5.1000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Co-60	8	5.4000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Cs-134	8	4.6000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Cs-137	8	3.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 9E Drinking Water Quarterly Composite (pCi/l)							
Fe-59	8	9.5000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Gross Alpha	8	0.6320	34.000( 1/ 8) (34.000-34.000)	San Clemente Golf Course Well 3.5 mi. NNW	34.000( 1/ 4) (34.000-34.000)	<LLD ( 0/ 0)	0
Gross Beta	8	0.6990	26.875( 8/ 8) (24.000-30.000)	San Clemente Golf Course Well 3.5 mi. NNW	27.250( 4/ 4) (24.000-29.000)	<LLD ( 0/ 0)	0
H-3	8	102.00	820.00( 5/ 8) (500.00-1100.0)	San Clemente Golf Course Well 3.5 mi. NNW	1000.0( 2/ 4) (900.00-1100.0)	<LLD ( 0/ 0)	0
I-131	8	0.5100	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Mn-54	8	3.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Zn-65	8	7.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0

05JUL91

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Table 9E Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	8	7.7000	<LLD ( 0/ 8)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
bay mussel	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Cs-137	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Fe-59	1	0.0090	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
bay mussel	I-131	1	0.0150	<LLD ( 0/ 1) ( 0.960- 0.960)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- ( 0.960- 0.960)	<LLD ( 0/ 0)	0
bay mussel	Mn-54	1	0.0030	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
bay mussel	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
bay mussel	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
ca halibut	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
ca halibut	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
ca halibut	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
ca halibut	Cs-137	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0

05JUL91

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ca halibut	Fe-59	1 0.0090	<LLD ( 0/ 1) (33.000-33.000)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (33.000-33.000)	<LLD ( 0/ 0)	0
ca halibut	I-131	1 0.0150	<LLD ( 0/ 1) ( 3.900- 3.900)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- ( 3.900- 3.900)	<LLD ( 0/ 0)	0
ca halibut	Mn-54	1 0.0030	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0

05JUL91

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Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
ca halibut	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
ca halibut	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
ca halibut	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
goose neck bar	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Cs-137	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Fe-59	1	0.0090	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
goose neck bar	I-131	1	0.0150	(15.000-15.000) <LLD ( 0/ 1) ( 0.350- 0.350)	Unit 1 Outfall 0.9 mi. WSW ALL <LLD Unit 1 Outfall 0.9 mi. WSW ( 0.350- 0.350)	(15.000-15.000) ----- ( 0.350- 0.350)	<LLD ( 0/ 0)	0
goose neck bar	Mn-54	1	0.0030	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
goose neck bar	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
goose neck bar	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
halibut	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
halibut	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0

05JUL91

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Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
halibut	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
halibut	Cs-137	1	0.0010	0.0700( 1/ 1) ( 0.070- 0.070)	Unit 1 Outfall 0.9 mi. WSW	0.0700( 1/ 1) ( 0.070- 0.070)	<LLD ( 0/ 0)	0
halibut	Fe-59	1	0.0090	<LLD ( 0/ 1) (14.000-14.000)	Unit 1 Outfall 0.9 mi. WSW	----- (14.000-14.000)	<LLD ( 0/ 0)	0
halibut	I-131	1	0.0150	<LLD ( 0/ 1) ( 3.500- 3.500)	Unit 1 Outfall 0.9 mi. WSW	----- ( 3.500- 3.500)	<LLD ( 0/ 0)	0
halibut	Mn-54	1	0.0030	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
halibut	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
halibut	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
halibut	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
kelp bass	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
kelp bass	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
kelp bass	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
kelp bass	Cs-137	1	0.0010	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
kelp bass	Fe-59	1	0.0090	<LLD ( 0/ 1) (80.000-80.000)	Unit 1 Outfall 0.9 mi. WSW	----- (80.000-80.000)	<LLD ( 0/ 0)	0

05JUL91

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Table 12A							
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
kelp bass	I-131	1	0.0150	<LLD ( 0/ 1) ( 4.000- 4.000)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW ( 4.000- 4.000)	<LLD ( 0/ 0)	0
kelp bass	Mn-54	1	0.0030	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
kelp bass	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
Table 12A							
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
kelp bass	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
kelp bass	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1) ( 0.040- 0.040)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW ( 0.040- 0.040)	<LLD ( 0/ 0)	0
spiny lobster	Co-58	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
spiny lobster	Co-60	1	0.0050	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
spiny lobster	Cs-134	1	0.0040	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
Table 12A							
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)							
spiny lobster	Cs-137	1	0.0010	0.0180( 1/ 1) ( 0.018- 0.018)	0.0180( 1/ 1) Unit 1 Outfall 0.9 mi. WSW ( 0.018- 0.018)	<LLD ( 0/ 0)	0
spiny lobster	Fe-59	1	0.0090	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0
spiny lobster	I-131	1	0.0150	<LLD ( 0/ 1) ( 1.610- 1.610)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW ( 1.610- 1.610)	<LLD ( 0/ 0)	0
spiny lobster	Mn-54	1	0.0030	<LLD ( 0/ 1)	ALL <LLD	<LLD ( 0/ 0)	0

05JUL91

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Table 12A								
Non-Migratory Marine Quarterly Composite (pCi/g) (flesh type)								
spiny lobster	Sr-90	1	0.0200	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
spiny lobster	Zn-65	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
spiny lobster	Zr(Nb)-95	1	0.0070	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 13B								
Local Crops Semi-Annual Composite (pCi/g)								
			(12.000-12.000)	San Mateo Canyon 2.6 mi. NW	(12.000-12.000)			
cabbage	Sr-90	1	0.0005	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
			(35.000-35.000)	San Mateo Canyon 2.6 mi. NW	(35.000-35.000)			
celery	Sr-90	2	0.0005	<LLD ( 0/ 2)	ALL <LLD	-----	<LLD ( 0/ 0)	0
cucumber	Sr-90	2	0.0005	<LLD ( 0/ 2)	ALL <LLD	-----	<LLD ( 0/ 0)	0
Table 13B								
Local Crops Semi-Annual Composite (pCi/g)								
			(16.000-16.000)	San Mateo Canyon 2.6 mi. NW	(16.000-16.000)			
green bean	Sr-90	1	0.0005	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
squash	Sr-90	1	0.0005	<LLD ( 0/ 1)	ALL <LLD	-----	<LLD ( 0/ 0)	0
			(18.000-18.000)	San Mateo Canyon 2.6 mi. NW	(18.000-18.000)			
tomato	Sr-90	2	0.0005	<LLD ( 0/ 2)	ALL <LLD	-----	<LLD ( 0/ 0)	0