

08JUL91

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1990 to December 31, 1990

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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	Location with Highest Annual Mean Name, Distance and Direction	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 1A Direct Radiation Quarterly Composite (millirem)							
Gamma Exposure	276	5.0000	18.960(251/268) (13.900-96.900)	SE Site Boundary 0.40 mi. SE	86.500(4/ 4) (79.600-96.900)	17.687(8/ 8) (15.400-19.200)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	86.598(62/ 67) (59.700-460.50)	SE Site Boundary 0.40 mi. SE	460.50(1/ 1) (460.50-460.50)	78.550(2/ 2) (72.400-84.700)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	520	0.0011	0.0185(459/468) (0.006- 0.061)	Units 2/3 Switchyard 0.13 mi. NNE	0.0296(52/ 52) (0.010- 0.061)	0.0169(52/ 52) (0.006- 0.038)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	520	0.0430	0.0600(1/468) (0.060- 0.060)	Units 2/3 Switchyard 0.13 mi. NNE	0.0600(1/ 52) (0.060- 0.060)	<LLD (0/ 52)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Be-7	40	0.0540	0.0908(36/ 36) (0.040- 0.298)	Units 2/3 Switchyard 0.13 mi. NNE	0.1595(4/ 4) (0.100- 0.298)	0.0895(4/ 4) (0.047- 0.141)	0
Co-58	40	0.0010	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 4)	0
Co-60	40	0.0010	0.0040(1/ 36) (0.004- 0.004)	Camp San Onofre Camp Pen. 1.8 mi. NE	0.0040(1/ 4) (0.004- 0.004)	<LLD (0/ 4)	0
Cs-134	40	0.0010	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-137	40	0.0010	0.0015(2/ 36) (0.001- 0.002)	Mesa E.O.F. 0.7 mi. NNW Mesa E.O.F. 0.7 mi. NNW	0.0020(1/ 4) (0.002- 0.002) (0.010- 0.010)	<LLD (0/ 4)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)							
Zr(Nb)-95	40	0.0010	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)							
Gross Alpha	44	0.0003	0.0046(22/ 40) (0.002- 0.010)	Units 2/3 Switchyard 0.13 mi. NNE	0.0063(3/ 4) (0.002- 0.010)	0.0040(3/ 4) (0.002- 0.005)	0
Sr-90	44	0.0030	<LLD (0/ 40)	ALL <LLD	-----	<LLD (0/ 4)	0

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Table 5								
Ocean Water								
Monthly Composite (pCi/l)								
	Ba(La)-140	48	28.600	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Co-58	48	4.9000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Co-60	48	5.3000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Cs-134	48	4.6000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Cs-137	48	3.7000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0

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Table 5 Ocean Water Monthly Composite (pCi/l)								
	Fe-59	48	8.8000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	I-131	48	25.500	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	K-40	48	42.200	305.97(36/ 36) (230.00-370.00)	Outfall - Unit 3 0.7 mi. SW	313.17(12/ 12) (250.00-360.00)	303.83(12/ 12) (260.00-345.00)	0
	Mn-54	48	3.7000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Zn-65	48	7.6000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Zr(Nb)-95	48	7.3000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
Table 6 Ocean Water Bi-Monthly Composite (pCi/L)								
	Gross Beta	24	105.00	872.22(18/ 18) (700.00-1000.0)	Outfall - Unit 3 0.7 mi. SW	900.00(6/ 6) (700.00-1000.0)	866.67(6/ 6) (700.00-1100.0)	0
Table 6a Ocean Water Bi-Monthly Composite (pCi/l)								
	Gross Beta less K-40	24		6.4783(23/ 24) (2.000-13.000)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	7.1667(6/ 6) (4.000-10.000)	<LLD (0/ 0)	0
Table 7 Ocean Water Quarterly Composite (pCi/l)								
	Tritium	16	102.00	7426.7(3/ 12) (130.00- 22000)	Station Discharge Outfall - Unit 1 0.5 mi. SSW	11065(2/ 4) (130.00- 22000)	<LLD (0/ 4)	0

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Table 9a Drinking Water Monthly Composite (pCi/l)							
	Ba(La)-140	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-58	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9a Drinking Water Monthly Composite (pCi/l)							
	Fe-59	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	H-3	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	36	0.2000(2/ 36) (0.200- 0.200)	Huntington Beach 37 mi. NW	0.2000(1/ 12) (0.200- 0.200)	<LLD (0/ 0)	0
	Mn-54	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9b Drinking Water Monthly Composite (pCi/l)							
	Gross Alpha	36	0.2000(1/ 36) (0.200- 0.200)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	0.2000(1/ 12) (0.200- 0.200)	<LLD (0/ 0)	0
	Gross Beta	36	0.6167(6/ 36) (0.100- 1.300)	Huntington Beach 37 mi. NW	0.8000(2/ 12) (0.300- 1.300)	<LLD (0/ 0)	0

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Table 9c Drinking Water Monthly Composite (pCi/l)							
	Gross Alpha	36	4.5000(2/ 36) (3.000- 6.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	4.5000(2/ 12) (3.000- 6.000)	<LLD (0/ 0)	0
	Gross Beta	36	10.278(36/ 36) (6.000-14.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	11.667(12/ 12) (9.000-14.000)	<LLD (0/ 0)	0
Table 9d Drinking Water Quarterly Composite (pCi/l)							
	Gross Alpha	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9e Drinking Water Quarterly Composite (pCi/l)							
	Ba(La)-140	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-58	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9e Drinking Water Quarterly Composite (pCi/l)							
	Fe-59	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Alpha	12	1.5000(2/ 12) (1.000- 2.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	2.0000(1/ 4) (2.000- 2.000)	<LLD (0/ 0)	0
	Gross Beta	12	11.083(12/ 12) (8.000-16.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	12.500(4/ 4) (8.000-16.000)	<LLD (0/ 0)	0
	H-3	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9e Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0	
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Co-58	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Co-60	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-134	8	0.0080	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-137	8	0.0070	0.0250(2/ 6) (0.010- 0.040)	San Onofre State Beach 0.6 mi. SE (0.010- 0.040)	0.0250(2/ 2) (0.010- 0.040)	<LLD (0/ 2)	0
	Fe-59	8	0.0170	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	I-131	8	0.0690	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	K-40	8	0.0740	13.183(6/ 6) (9.600-15.300)	Newport Beach (North End) 30 mi. NW	15.750(2/ 2) (14.300-17.200)	15.750(2/ 2) (14.300-17.200)	0
	Mn-54	8	0.0070	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Ra-226	8	0.0130	0.1883(6/ 6) (0.120- 0.250)	Newport Beach (North End) 30 mi. NW	0.5750(2/ 2) (0.330- 0.820)	0.5750(2/ 2) (0.330- 0.820)	0
	Th-228	8	0.0090	0.2333(6/ 6) (0.150- 0.360)	Newport Beach (North End) 30 mi. NW	1.5450(2/ 2) (0.900- 2.190)	1.5450(2/ 2) (0.900- 2.190)	0
	Zn-65	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)							
Zr(Nb)-95	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Co-58	10	0.0080	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Co-60	10	0.0080	0.0445(2/ 8) (0.009- 0.080)	Unit 1 Outfall 0.8 mi. SSW	0.0800(1/ 2) (0.080- 0.080)	<LLD (0/ 2)	0
Cs-134	10	0.0070	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Cs-137	10	0.0060	0.0313(3/ 8) (0.021- 0.040)	Unit 1 Outfall 0.8 mi. SSW	0.0330(1/ 2) (0.033- 0.033)	0.0120(1/ 2) (0.012- 0.012)	0
Fe-59	10	0.0150	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
I-131	10	0.0170	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
K-40	10	0.0660	10.575(8/ 8) (9.100-14.000)	Unit 2 Outfall 1.6 mi. SW	12.100(2/ 2) (10.200-14.000)	8.4000(2/ 2) (3.500-13.300)	0
Mn-54	10	0.0060	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Ra-226	10	0.0120	0.4238(8/ 8) (0.170- 0.670)	Unit 1 Outfall 0.8 mi. SSW	0.6300(2/ 2) (0.620- 0.640)	0.1750(2/ 2) (0.170- 0.180)	0
Th-228	10	0.0080	0.5600(8/ 8) (0.170- 1.100)	Unit 1 Outfall 0.8 mi. SSW	0.9350(2/ 2) (0.770- 1.100)	0.2750(2/ 2) (0.270- 0.280)	0
Zn-65	10	0.0120	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Zr(Nb)-95	10	0.0120	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
Co-58	48		<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	48		0.0053(3/ 48) (0.003- 0.010)	Unit 1 Outfall 0.9 mi. WSW	0.0065(2/ 16) (0.003- 0.010)	<LLD (0/ 0)	0
Cs-134	48		<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	48		0.0060(27/ 48) (0.003- 0.033)	Units 2/3 Outfall 1.5 mi. SSW	0.0089(9/ 16) (0.005- 0.033)	<LLD (0/ 0)	0
Fe-59	48		<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
I-131	48		(0.200- 0.200)	Unit 1 Outfall 0.9 mi. WSW	(0.200- 0.200)		
			<LLD (0/ 48) (0.700- 3.500)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.900- 3.500)	<LLD (0/ 0)	0
Mn-54	48		<LLD (0/ 48) (0.002- 0.046)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.002- 0.046)	<LLD (0/ 0)	0

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Table 12a							
Non-Migratory Marine							
Quarterly Composite							
(pCi/g)							
	Sr-90	48	<LLD (0/ 48) (0.001- 0.020)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.005- 0.020)	<LLD (0/ 0)	0
	Zn-65	48	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	48	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.008- 0.008)	Units 2/3 Outfall 1.5 mi. SSW	(0.008- 0.008)		
	Co-58	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	44	0.0040(1/ 44)		0.0040(1/ 12)	<LLD (0/ 0)	0
			(0.004- 0.004)	Unit 1 Outfall 0.9 mi. WSW	(0.004- 0.004)		
	Cs-134	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	44	0.0067(4/ 44)		0.0170(1/ 16)	<LLD (0/ 0)	0
			(0.003- 0.017)	Units 2/3 Outfall 1.5 mi. SSW	(0.017- 0.017)		
	Fe-59	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
	I-131	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.150- 4.700)	Unit 1 Outfall 0.9 mi. WSW	(1.400- 4.700)		
	Mn-54	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.004- 0.036)	Unit 1 Outfall 0.9 mi. WSW	(0.007- 0.036)		
	Sr-90	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.004- 0.018)	Unit 1 Outfall 0.9 mi. WSW	(0.011- 0.018)		
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
	Zn-65	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	44	<LLD (0/ 44)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 13a Local Crops Semi-Annual Composite (pCi/g)							
	Co-58	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	8	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)							
	Zr(Nb)-95	8	(1.800- 8.770)	SE of Oceanside 22 mi. SE	(1.800- 8.770)	<LLD (0/ 0)	0

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Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
cauliflower	Sr-90	2 0.0005	0.0012(2/ 2) (0.000- 0.002)	San Mateo Canyon 2.6 mi. NW	0.0012(2/ 2) (0.000- 0.002)	<LLD (0/ 0)	0
cucumber	Sr-90	2 0.0005	<LLD (0/ 0)	SE of Oceanside 22 mi. SE	0.0011(2/ 2) (0.000- 0.002)	0.0011(2/ 2) (0.000- 0.002)	0
green beans	Sr-90	1 0.0005	0.0010(1/ 1) (0.001- 0.001)	San Mateo Canyon 2.6 mi. NW	0.0010(1/ 1) (0.001- 0.001)	<LLD (0/ 0)	0
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
squash	Sr-90	1 0.0005	<LLD (0/ 0)	SE of Oceanside 22 mi. SE	0.0007(1/ 1) (0.001- 0.001)	0.0007(1/ 1) (0.001- 0.001)	0
tomato	Sr-90	1 0.0005	<LLD (0/ 0)	ALL <LLD	-----	<LLD (0/ 1)	0
zucchini	Sr-90	1 0.0005	<LLD (0/ 0)	SE of Oceanside 22 mi. SE	0.0010(1/ 1) (0.001- 0.001)	0.0010(1/ 1) (0.001- 0.001)	0

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Table 14 Soil Samples Annual Composite (pCi/g)								
	Co-58	5	0.0100	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Co-60	5	0.0110	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Cs-134	5	0.0090	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Cs-137	5	0.0070	0.0800(3/ 4) (0.040- 0.130)	E. Site Boundary 0.2 mi. NNW	0.1300(1/ 1) (0.130- 0.130)	0.0500(1/ 1) (0.050- 0.050)	0
	I-131	5	0.0210	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 14 Soil Samples Annual Composite (pCi/g)								
	K-40	5	0.0840	11.825(4/ 4) (5.900-15.600)	E. Site Boundary 0.2 mi. NNW	15.600(1/ 1) (15.600-15.600)	15.500(1/ 1) (15.500-15.500)	0
	Sr-89	5	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Sr-90	5	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Zr(Nb)-95	5	0.0150	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 14a Soil Samples Annual Composite (pCi/g)								
				(0.040- 0.040)	Freeway Offramp 2.0 mi. NW	(0.040- 0.040)		
	Co-58	5		<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	5		<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	5		<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	5		0.1460(5/ 5) (0.030- 0.500)	Old Route 101-ESE 3.0 mi. ESE	0.5000(1/ 1) (0.500- 0.500)	<LLD (0/ 0)	0
	I-131	5		<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 14a								
Soil Samples								
Annual Composite (pCi/g)								
			(6.600-18.400)	Generating Station (18.400-18.400)				
	Sr-89	5	<LLD (0/ 5)	37 mi. NW	-----	<LLD (0/ 0)	0	
	Sr-90	5	0.1200(1/ 5)	ALL <LLD	0.1200(1/ 1)	<LLD (0/ 0)	0	
			(0.120- 0.120)	Old Route 101-ESE	(0.120- 0.120)			
	Zr(Nb)-95	5	<LLD (0/ 5)	3.0 mi. ESE	-----	<LLD (0/ 0)	0	
Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	Co-58	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Co-60	8	0.0100	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-134	8	0.0080	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-137	8	0.0060	0.0030(1/ 6)	Barn Kelp Bed	0.0030(1/ 2)	<LLD (0/ 2)	0
			(0.003- 0.003)	6.3 mi. SSE	(0.003- 0.003)			
macrocystis p.	Fe-59	8	0.0180	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	I-131	8	0.0200	0.0150(2/ 6)	San Mateo	0.0200(1/ 2)	0.0070(1/ 2)	0
			(0.010- 0.020)	Kelp Bed	(0.020- 0.020)	(0.007- 0.007)		
				3.8 mi. WNW				
macrocystis p.	K-40	8	0.0770	3.9500(6/ 6)	San Mateo	4.8000(2/ 2)	3.4500(2/ 2)	0
			(2.200- 6.700)	Kelp Bed	(2.900- 6.700)	(1.600- 5.300)		
				3.8 mi. WNW				
macrocystis p.	Mn-54	8	0.0070	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Ra-226	8	0.0130	0.0060(3/ 6)	Barn Kelp Bed	0.0090(1/ 2)	0.0080(1/ 2)	0
			(0.004- 0.009)	6.3 mi. SSE	(0.009- 0.009)	(0.008- 0.008)		

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Table 15

Kelp

Semi-Annual Composite
(pCi/g)

macrocystis p.	Zn-65	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Zr(Nb)-95	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0