

3.0 AIR SAMPLES

3.1 Particulates, High Volume

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Date: 6/28/82 to 9/28/82

Location: AP-1

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	9.8E-16	2.2E-16	1.6E-19	2.0E-2
Th-230	1.5E-16	1.1E-17	9.4E-19	5.0E-2
Ra-226	1.6E-16	1.6E-17	1.6E-19	8.0E-3
Pb-210	1.3E-14	1.0E-15	2.0E-15	0.16

Date: 6/28/82 to 9/28/82

Location: -2

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	2.6E-15	3.4E-16	1.7E-19	5.2E-2
Th-230	2.9E-15	1.7E-16	1.4E-18	0.97
Ra-226	2.2E-15	1.7E-16	1.7E-19	0.11
Pb-210	1.5E-14	1.0E-15	2.0E-15	0.19

Date: 6/28/82 to 9/28/82

Location: AP-3

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	1.2E-15	2.7E-16	1.8E-19	2.4E-2
Th-230	1.4E-15	3.5E-17	3.5E-19	0.47
Ra-226	9.8E-16	3.5E-17	3.5E-19	4.9E-2
Pb-210	1.3E-14	1.7E-15	2.0E-15	0.16

3.0 AIR SAMPLES

3.1 Particulates, High Volume

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Date: 6/28/82 to 9/28/82

Location: Ap-4

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	5.2E-16	1.9E-16	1.5E-19	1.0E-2
Th-230	3.1E-16	1.5E-17	4.5E-19	0.10
Ra-226	2.5E-16	1.5E-17	3.0E-19	1.3E-2
Pb-210	1.4E-14	1.0E-15	2.0E-15	0.18

Date: 6/28/82 to 9/28/82

Location: APC-1B

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	2.1E-16	2.8E-16	1.8E-19	4.2E-3
Th-230	1.7E-16	1.4E-17	3.6E-19	5.7E-2
Ra-226	6.2E-17	1.1E-17	3.6E-19	3.1E-3
Pb-210	1.6E-14	1.0E-15	2.0E-15	0.20

Date: 5/28/82 to 9/28/82

Location: APC-2T

<u>Radionuclide</u>	<u>Gross Concentration (uCi/ml)</u>	<u>Error Estimate (uCi/ml)</u>	<u>LLD (uCi/ml)</u>	<u>%MPC</u>
U-nat	4.4E-16	2.0E-16	1.7E-19	8.8E-3
Th-230	1.5E-16	1.2E-17	5.1E-19	5.0E-2
Ra-226	1.6E-16	1.3E-17	3.4E-19	8.0E-3
Pb-210	1.4E-14	1.7E-15	2.0E-15	0.18

4.0 DIRECT RADIATION

4.1 Thermoluminescent Dosimeter Measurements

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Dates 7/1/82 to 10/5/82

Location	Gross Exposure Rate (mR/qr)	Error Estimate (mR/qr)
AP-1	16.5	2.43
AP-2	25.1	7.35
AP-3	20.2	3.95
AP-4	14.3	13.1
APC-1B	15.5	5.27
APC-2T	15.3	1.94
Control	13.5	4.71