

FEDERAL AMERICAN PARTNERS
 ENVIRONMENTAL TLD SUMMARY FOR THE FIRST HALF OF 1982
 RADIATION DETECTION CO.
 ALL READINGS IN MR/MO

SAMPLE NUMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTAL	AVERAGE/MO	LOW VOLUME STATION NO.
1	30	22	23	27	24	21	147	24.5	#1 Village Park
2	23	16	16	21	21	*	97	19.4	Camp
3	20	15	13	15	18	*	81	16.2	Camp
4	31	23	20	27	**	*	101	25.2	Camp
5	31	27	28	32	28	*	146	29.2	Camp
6	26	19	21	24	25	*	115	23.0	Camp
7	23	18	16	23	20	*	100	20.0	Camp
8	25	20	18	21	24	*	108	21.6	Camp
9	51	39	47	51	47	*	235	47.0	Camp
10	22	14	15	17	16	*	84	16.8	Camp
11	30	26	30	33	33	25	177	29.5	Tailings Pond #2
12	43	45	57	66	49	55	315	52.5	Tailings Pond #2
13	79	66	68	72	66	70	421	70.1	#4 Down Wind Restricted Area Boundary
14	31	30	35	40	35	33	204	34.0	Tailings Pond #2
15	15	11	12	11	14	7	70	11.6	#3 Puddle Springs Ranch
16	73	77	79	92	86	87	494	82.3	#5 NE Corner of Restricted Area
17	24	20	22	21	19	15	121	20.2	#2 Up Wind Restricted Area Boundary
18	18	17	17				52	17.33	#6 SW Corner of New Camp
19				14	12	11	37	12.33	#6 Relocated to Loco Shop approx. 4.8 miles SW of Mill
20	20	11	16	17	17	11	92	15.33	Office
21						3	3	3.0	Control

* Deleted From Sampling Program June 1, 1982

E2092200206 820818
 NMS LIC30
 49-07540-0-01 PDR

FEDERAL AMERICAN PARTNERS
FIRST QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml
R #1	Ground	Ra-226	0.11	0.12	2 x 10 ⁻¹⁰
		Th-230	295	4	4 x 10 ⁻¹⁰
		Pb-210	-0.1	1.2	2 x 10 ⁻⁹
		Po-210	-0.4	0.6	1 x 10 ⁻⁹
		U-NAT	3.12 x 10 ⁻⁶		
R #3	Ground	Ra-226	0.18	0.12	2 x 10 ⁻¹⁰
		Th-230	1655	52	3 x 10 ⁻¹⁰
		Pb-210	0.4	1.0	2 x 10 ⁻⁹
		Po-210	0.4	0.6	8 x 10 ⁻¹⁰
		U-NAT	4.67 x 10 ⁻⁶		
R #5	Ground	Ra-226	0.14	0.11	2 x 10 ⁻¹⁰
		Th-230	2953	90	5 x 10 ⁻¹⁰
		Pb-210	0.2	1.1	2 x 10 ⁻⁹
		Po-210	1.6	0.8	1 x 10 ⁻⁹
		U-NAT	5.89 x 10 ⁻⁶		
R #6	Ground	Ra-226	0.11	0.15	3 x 10 ⁻¹⁰
		Th-230	895	31	2 x 10 ⁻¹⁰
		Pb-210	0.8	1.4	2 x 10 ⁻⁹
		Po-210	0.1	0.6	1 x 10 ⁻⁹
		U-NAT	4.91 x 10 ⁻⁶		
Fox #1	Ground	Ra-226	0.46	0.20	3 x 10 ⁻¹⁰
		Th-230	701	45	4 x 10 ⁻⁹
		Pb-210	3.3	1.9	3 x 10 ⁻⁹
		Po-210	-0.7	1.3	2 x 10 ⁻⁹
		U-NAT	4.10 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
FIRST QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml
Fox #2	Ground	Ra-226	0.91	0.25	3 x 10 ⁻¹⁰
		Th-230	4.61	0.76	7 x 10 ⁻¹⁰
		Pb-210	2.6	1.6	3 x 10 ⁻⁹
		Po-210	-0.6	0.4	1 x 10 ⁻⁹
		U-NAT	1.74 x 10 ⁻⁶		
Fox #3	Ground	Ra-226	1.00	0.27	2 x 10 ⁻¹⁰
		Th-230	±	±	±
		Pb-210	±	±	±
		Po-210	±	±	±
		U-NAT	2.12 x 10 ⁻⁶		
Fox #4	Ground	Ra-226	1.01	0.25	3 x 10 ⁻¹⁰
		Th-230	4.64	0.67	6 x 10 ⁻¹⁰
		Pb-210	-0.1	1.3	2 x 10 ⁻⁹
		Po-210	-0.3	0.5	1 x 10 ⁻⁹
		U-NAT	0.13 x 10 ⁻⁶		
Fox #5	Ground	Ra-226	0.43	0.20	3 x 10 ⁻¹⁰
		Th-230	51.1	2.1	2 x 10 ⁻⁹
		Pb-210	-0.4	2.2	4 x 10 ⁻⁹
		Po-210	±	±	±
		U-NAT	1.15 x 10 ⁻⁶		
Tailings Pond #1	Surface	Ra-226	33.9	1.7	4 x 10 ⁻¹⁰
		Th-230	15457	399	2 x 10 ⁻⁹
		Pb-210	1033	43	3 x 10 ⁻⁹
		Po-210	91.4	6.3	1 x 10 ⁻⁹
		U-NAT	11.69 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
FIRST QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml
Tailings Pond #2	Surface	Ra-226	44.4	2.0	6 x 10 ⁻¹⁰
		Th-230	27727	940	6 x 10 ⁻⁹
		Pb-210	898	37	5 x 10 ⁻⁹
		Po-210	16.3	4.2	3 x 10 ⁻¹⁰
		U-NAT	34.49 x 10 ⁻⁶		
TP1-D2	Ground	Ra-226	2.38	0.33	2 x 10 ⁻¹⁰
		Th-230	0.09	0.15	2 x 10 ⁻⁹
		Pb-210	0.9	1.1	2 x 10 ⁻⁹
		Po-210	0.7	0.6	8 x 10 ⁻¹⁰
		U-NAT	0.09 x 10 ⁻⁶		
TP1-24	Ground	Ra-226	26.9	1.0	3 x 10 ⁻¹⁰
		Th-230	20.4	0.7	1 x 10 ⁻¹⁰
		Pb-210	85.4	3.9	2 x 10 ⁻⁹
		Po-210	7.2	1.4	8 x 10 ⁻¹⁰
		U-NAT	2.74 x 10 ⁻⁶		
TP1-1	Ground	Ra-226	**	**	**
		Th-230	0.27	0.25	3 x 10 ⁻¹⁰
		Pb-210	1.6	1.7	3 x 10 ⁻⁹
		Po-210	0.8	0.7	9 x 10 ⁻¹⁰
		U-NAT	0.03 x 10 ⁻⁶		
TP2-1	Ground	Ra-226	9.29	0.46	2 x 10 ⁻¹⁰
		Th-230	0.23	0.35	4 x 10 ⁻¹⁰
		Pb-210	1.7	1.8	3 x 10 ⁻⁹
		Po-210	0.3	0.6	9 x 10 ⁻¹⁰
		U-NAT	0.87 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
FIRST QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml
TP2-2	Ground	Ra-226	**	**	**
		Th-230	0.17	0.26	3 x 10 ⁻¹⁰
		Pb-210	0.4	1.1	2 x 10 ⁻⁹
		Po-210	0.7	0.6	8 x 10 ⁻¹⁰
		U-NAT	0.25 x 10 ⁻⁶		
M-1	Ground	Ra-226	2.79	0.29	3 x 10 ⁻¹⁰
		Th-230	34.4	10.9	3 x 10 ⁻⁹
		Pb-210	73.9	3.9	3 x 10 ⁻⁹
		Po-210	3.1	1.2	1 x 10 ⁻⁹
		U-NAT	4.90 x 10 ⁻⁶		
M-2	Ground	Ra-226	0.26	0.18	3 x 10 ⁻¹⁰
		Th-230	1024	9	1 x 10 ⁻¹⁰
		Pb-210	1.5	1.9	3 x 10 ⁻⁹
		Po-210	1.0	1.1	1 x 10 ⁻⁹
		U-NAT	6.19 x 10 ⁻⁶		
M-4	Ground	Ra-226	±	±	±
		Th-230	±	±	±
		Pb-210	±	±	±
		Po-210	±	±	±
		U-NAT	5.95 x 10 ⁻⁶		
Willow Springs 4 Dissolved	Stock	Ra-226	0.46	0.14	2 x 10 ⁻¹⁰
		Th-230	0.21	0.11	9 x 10 ⁻¹¹
		Pb-210	0.6	1.5	3 x 10 ⁻⁹
		Po-210	-0.3	0.5	1 x 10 ⁻⁹
		U-NAT	0.24 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
FIRST QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml
Well #6	Ground	Ra-226	0.81	0.24	4 x 10 ⁻¹⁰
		Th-230	0.67	0.16	1 x 10 ⁻¹⁰
		Pb-210	0.5	1.4	2 x 10 ⁻⁹
		Po-210	0.0	0.6	1 x 10 ⁻⁹
		U-NAT	0.01 x 10 ⁻⁶		
Well #13	Ground	Ra-226	1.93	0.21	2 x 10 ⁻¹⁰
		Th-230	-0.17	0.17	2 x 10 ⁻¹⁰
		Pb-210	-0.2	1.2	2 x 10 ⁻⁹
		Po-210	0.2	0.6	8 x 10 ⁻¹⁰
		U-NAT	ND		
Well #16 Dissolved	Drinking	Ra-226	4.91	0.32	2 x 10 ⁻¹⁰
		Th-230	0.27	0.08	1 x 10 ⁻¹⁰
		Pb-210	-0.1	1.4	2 x 10 ⁻⁹
		Po-210	0.2	0.6	9 x 10 ⁻¹⁰
		U-NAT	< 0.01 x 10 ⁻⁶		
Willow Springs Suspended	Stock	Ra-226	9.44	0.42	2 x 10 ⁻¹⁰
		Th-230	43.9	0.9	1 x 10 ⁻¹⁰
		Pb-210	15.5	2.1	3 x 10 ⁻⁹
		Po-210	5.8	1.7	5 x 10 ⁻¹⁰
		U-NAT	ND		
Well #16 Suspended	Drinking	Ra-226	0.52	0.13	2 x 10 ⁻¹⁰
		Th-230	0.16	0.63	1 x 10 ⁻¹⁰
		Pb-210	0.9	1.6	3 x 10 ⁻⁹
		Po-210	-0.1	0.7	5 x 10 ⁻¹⁰
		U-NAT	ND		

* It was not possible to meet some lower limits of detection due to low sample volume.

** Sample lost in process.

± There was insufficient sample received by laboratory to perform these analyses.

FEDERAL AMERICAN PARTNERS
SECOND QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml**
R #5	Ground	Ra-226	0.72	0.14	2 x 10 ⁻¹⁰
		Th-230	1266	12	1 x 10 ⁻¹⁰
		Pb-210	#	#	#
		Po-210	3.0	0.9	1 x 10 ⁻⁹
		U-NAT	4.21 x 10 ⁻⁶		
R #6	Ground	Ra-226	1.05	0.45	9 x 10 ⁻¹⁰
		Th-230	596	14	3 x 10 ⁻¹⁰
		Pb-210	#	#	#
		Po-210	3.1	1.0	1 x 10 ⁻⁹
		U-NAT	2.55 x 10 ⁻⁶		
Fox #1	Ground	Ra-226	0.80	0.18	3 x 10 ⁻¹⁰
		Th-230	*	*	*
		Pb-210	*	*	*
		Po-210	*	*	*
		U-NAT	3.26 x 10 ⁻⁶		
Fox #2	Ground	Ra-226	1.06	0.23	3 x 10 ⁻¹⁰
		Th-230	25.9	1.5	1 x 10 ⁻⁹
		Pb-210	5.0	1.09	3 x 10 ⁻⁹
		Po-210	1.08	1.0	1 x 10 ⁻⁹
		U-NAT	1.56 x 10 ⁻⁶		
Fox #3	Ground	Ra-226	1.11	0.19	3 x 10 ⁻¹⁰
		Th-230	*	*	*
		Pb-210	*	*	*
		Po-210	1.3	0.7	9 x 10 ⁻¹⁰
		U-NAT	1.97 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
SECOND QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml**
Fox #4	Ground	Ra-226	1.27	0.25	3 x 10 ⁻¹⁰
		Th-230	1.18	0.56	9 x 10 ⁻¹⁰
		Pb-210	0.3	1.3	2 x 10 ⁻⁹
		Po-210	0.5	0.9	1 x 10 ⁻⁹
		U-NAT	0.17 x 10 ⁻⁶		
Fox #5	Ground	Ra-226	0.83	0.27	4 x 10 ⁻¹⁰
		Th-230	19.6	2.1	2 x 10 ⁻⁹
		Pb-210	4.0	1.09	3 x 10 ⁻⁹
		Po-210	0.4	1.0	2 x 10 ⁻⁹
		U-NAT	1.10 x 10 ⁻⁶		
Tailings Pond #1	Surface	Ra-226	56.6	1.4	3 x 10 ⁻¹⁰
		Th-230	18,978	181	9 x 10 ⁻¹⁰
		Pb-210	1717	71	4 x 10 ⁻⁹
		Po-210	52.1	4.4	2 x 10 ⁻⁹
		U-NAT	6.51 x 10 ⁻⁶		
Tailings Pond #2	Surface	Ra-226	48.1	1.1	3 x 10 ⁻¹⁰
		Th-230	16,476	147	7 x 10 ⁻¹⁰
		Pb-210	#	#	#
		Po-210	90.8	5.7	2 x 10 ⁻⁹
		U-NAT	12.34 x 10 ⁻⁶		
TP1-D2	Ground	Ra-226	7.56	0.42	3 x 10 ⁻¹⁰
		Th-230	2.64	0.22	2 x 10 ⁻¹⁰
		Pb-210	5.3	1.8	3 x 10 ⁻⁹
		Po-210	0.5	0.8	1 x 10 ⁻⁹
		U-NAT	< 0.01 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
SECOND QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml**
TP1-24	Ground	Ra-226	19.7	0.7	3 x 10 ⁻¹⁰
		Th-230	*	*	*
		Pb-210	*	*	*
		Po-210	9.5	1.6	1 x 10 ⁻⁹
		U-NAT	1.84 x 10 ⁻⁶		
TP1-1	Ground	Ra-226	1.45	0.31	4 x 10 ⁻¹⁰
		Th-230	6.33	0.50	4 x 10 ⁻¹⁰
		Pb-210	6.6	2.3	3 x 10 ⁻⁹
		Po-210	-0.3	0.9	2 x 10 ⁻⁹
		U-NAT	0.09 x 10 ⁻⁶		
TP2-1	Ground	Ra-226	1.17	0.26	3 x 10 ⁻¹⁰
		Th-230	1.79	0.37	4 x 10 ⁻¹⁰
		Pb-210	6.4	2.2	3 x 10 ⁻⁹
		Po-210	0.3	0.9	1 x 10 ⁻⁹
		U-NAT	0.82 x 10 ⁻⁶		
TP2-2	Ground	Ra-226	2.32	0.35	4 x 10 ⁻¹⁰
		Th-230	21.5	1.38	3 x 10 ⁻¹⁰
		Pb-210	3.0	1.5	2 x 10 ⁻⁹
		Po-210	0.6	1.0	1 x 10 ⁻⁹
		U-NAT	0.28 x 10 ⁻⁶		
M-1	Ground	Ra-226	5.51	0.50	3 x 10 ⁻¹⁰
		Th-230	*	*	*
		Pb-210	*	*	*
		Po-210	*	*	*
		U-NAT	6.20 x 10 ⁻⁶		

FEDERAL AMERICAN PARTNERS
SECOND QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml**
M-2	Ground	Ra-226	1.73	0.24	3 x 10 ⁻¹⁰
		Th-230	*	*	*
		Pb-210	*	*	*
		Po-210	3.7	1.5	2 x 10 ⁻⁹
		U-NAT	2.18 x 10 ⁻⁶		
M-4	Ground	Ra-226	1.70	0.23	2 x 10 ⁻¹⁰
		Th-230	9.85	1.23	8 x 10 ⁻¹⁰
		Pb-210	112	5	3 x 10 ⁻⁹
		Po-210	15.5	2.0	8 x 10 ⁻¹⁰
		U-NAT	4.21 x 10 ⁻⁶		
Willow Springs 4 Dissolved	Stock	Ra-226	1.93	0.23	2 x 10 ⁻¹⁰
		Th-230	12.0	1.12	6 x 10 ⁻¹⁰
		Pb-210	-0.3	2.0	3 x 10 ⁻⁹
		Po-210	0.3	0.6	9 x 10 ⁻¹⁰
		U-NAT	0.24 x 10 ⁻⁶		
Well #6	Ground	Ra-226	3.29	0.28	2 x 10 ⁻¹⁰
		Th-230	0.10	0.18	3 x 10 ⁻¹⁰
		Pb-210	-0.0	1.4	2 x 10 ⁻⁹
		Po-210	0.0	0.5	8 x 10 ⁻¹⁰
		U-NAT	<0.01 x 10 ⁻⁶		
Well #13	Ground	Ra-226	7.28	0.42	2 x 10 ⁻¹⁰
		Th-230	0.08	0.23	4 x 10 ⁻¹⁰
		Pb-210	-0.1	1.5	3 x 10 ⁻⁹
		Po-210	0.3	0.6	9 x 10 ⁻¹⁰
		U-NAT	ND		

FEDERAL AMERICAN PARTNERS
SECOND QUARTER 1982 WATER RESULTS

<u>SAMPLE LOCATION</u>	<u>TYPE</u>	<u>RADIONUCLIDE</u>	<u>CONCENTRATION</u> uCi/ml x 10 ⁻⁹	<u>ERROR ESTIMATE</u> uCi/ml x 10 ⁻⁹	<u>LLD</u> uCi/ml**
Well #16 Dissolved	Drinking	Ra-226	5.96	0.38	2 x 10 ⁻¹⁰
		Th-230	35.6	1.7	2 x 10 ⁻¹⁰
		Pb-210	3.6	1.8	3 x 10 ⁻⁹
		Po-210	0.8	0.7	9 x 10 ⁻¹⁰
		U-NAT	0.01 x 10 ⁻⁶		
Willow Springs Suspended	Stock	Ra-226	0.42	0.17	3 x 10 ⁻¹⁰
		Th-230	6.39	1.06	5 x 10 ⁻¹⁰
		Pb-210	0.1	1.6	3 x 10 ⁻⁹
		Po-210	0.4	0.6	8 x 10 ⁻¹⁰
		U-NAT	ND		
Well #16 Suspended	Drinking	Ra-226	0.41	0.2	3 x 10 ⁻¹⁰
		Th-230	13.5	1.5	7 x 10 ⁻¹⁰
		Pb-210	0.5	1.6	3 x 10 ⁻⁹
		Po-210	0.2	0.5	8 x 10 ⁻¹⁰
		U-NAT	ND		

*Insufficient volume was available to perform this analysis.

**Many parameters did not meet the required lower limit of detection due to insufficient volume.

#Sample lost in process.

FEDERAL AMERICAN PARTNERS

During the 1st and 2nd quarters of 1982 we were unable to sample several of our water wells. The well location, quarter of sample and reason not sampled is as follows:

1st Quarter 1982

R2 - Pump Broken
R4 - Dry
TP1-10 - Dry
TP1-20 - Dry
Fox-6 - Dry

2nd Quarter 1982

R1 - Pump Broken
R2 - Pump Broken
R3 - Pump Broken
R4 - Dry
TP1-10 - Dry
TP1-20 - Dry
Fox-6 - Dry

FEDERAL-AMERICAN PARTNERS
 LOW-VOLUME AIR SAMPLING RESULTS
 1st QUARTER 1982

SAMPLE LOCATION	DATE OF COLLECTION	RADIONUCLIDE	CONCENTRATION (uCi/ml)	ERROR ESTIMATE (uCi/ml)	LLD uCi/ml	%MPC
#1 Village Park Nearest Residence	January 1, 1982 to March 31, 1982	Ra-226	1.45×10^{-15}	$\pm 0.24 \times 10^{-15}$	1×10^{-16}	<0.1
		Th-230	1.56×10^{-14}	$\pm 0.22 \times 10^{-15}$	1×10^{-16}	2.0
		Pb-210	1.90×10^{-14}	$\pm 0.12 \times 10^{-14}$	1×10^{-15}	0.5
		U-Natural	4.08×10^{-15}		5×10^{-17}	0.1
		Rn-222	4.01×10^{-9}			133
#2 Upwind Restricted Area Boundary	January 1, 1982 to March 31, 1982	Ra-226	1.60×10^{-15}	$\pm 0.16 \times 10^{-15}$	1×10^{-16}	0.1
		Th-230	1.14×10^{-15}	$\pm 0.19 \times 10^{-15}$	1×10^{-16}	1.4
		Pb-210	1.76×10^{-14}	$\pm 0.09 \times 10^{-14}$	7×10^{-16}	0.4
		U-Natural	3.40×10^{-15}		5×10^{-17}	0.1
		Rn-222	3.27×10^{-9}			109
#3 Puddle Springs Background	January 1, 1982 to March 31, 1982	Ra-226	4.85×10^{-16}	$\pm 1.47 \times 10^{-16}$	2×10^{-16}	<0.1
		Th-230	4.28×10^{-16}	$\pm 1.05 \times 10^{-16}$	8×10^{-17}	0.5
		Pb-210	2.36×10^{-14}	$\pm 0.12 \times 10^{-14}$	9×10^{-16}	0.6
		U-Natural	6.80×10^{-16}		5×10^{-17}	<0.1
		Rn-222	2.92×10^{-9}			97
#4 Down wind at Restricted Area Boundary	January 1, 1982 to March 31, 1982	Ra-226	1.47×10^{-14}	$\pm 0.04 \times 10^{-14}$	1×10^{-16}	0.5
		Th-230	9.66×10^{-15}	$\pm 0.53 \times 10^{-15}$	1×10^{-16}	12.1
		Pb-210	2.66×10^{-14}	$\pm 0.12 \times 10^{-14}$	7×10^{-16}	0.7
		U-Natural	6.80×10^{-15}		5×10^{-17}	0.1
		Rn-222	2.72×10^{-9}			90
#5 Down Wind Near NE Corner of Restricted Area Boundary	January 1, 1982 to March 31, 1982	Ra-226	6.78×10^{-15}	$\pm 0.25 \times 10^{-15}$	8×10^{-17}	0.2
		Th-230	1.24×10^{-14}	$\pm 0.04 \times 10^{-14}$	1×10^{-16}	15.5
		Pb-210	2.06×10^{-14}	$\pm 0.10 \times 10^{-14}$	6×10^{-16}	0.5
		U-Natural	7.80×10^{-15}		5×10^{-17}	0.1
		Rn-222	3.68×10^{-9}			122
#6 SW Corner of New Camp	January 1, 1982 to March 31, 1982	Ra-226	2.21×10^{-15}	$\pm 0.22 \times 10^{-15}$	2×10^{-16}	0.1
		Th-230	1.65×10^{-15}	$\pm 0.18 \times 10^{-15}$	2×10^{-16}	2.1
		Pb-210	1.99×10^{-14}	$\pm 0.09 \times 10^{-14}$	6×10^{-16}	0.5
		U-Natural	6.80×10^{-15}		5×10^{-17}	0.1
		Rn-222	3.65×10^{-9}			121

FEDERAL-AMERICAN PARTNERS
 LOW-VOLUME AIR SAMPLING RESULTS
 2nd QUARTER 1982

SAMPLE LOCATION	DATE OF COLLECTION	RADIONUCLIDE	CONCENTRATION (uCi/m ³)	ERROR ESTIMATE (uCi/m ³)	LLD (uCi/m ³)	% MPC
#1 Village Park	April 1, 1982 to June 30, 1982	Ra-226	9.95×10^{-16}	$\pm 1.43 \times 10^{-16}$	2×10^{-16}	< .1
		Th-230	9.35×10^{-16}	$\pm 1.73 \times 10^{-16}$	2×10^{-16}	1.2
		Pb-210	2.18×10^{-14}	$\pm 0.11 \times 10^{-14}$	8×10^{-16}	.5
		U-Nat	1.56×10^{-15}		5×10^{-17}	< 0.1
		Rn-222	1.51×10^{-9}			50
#2 Upwind Restricted Area Boundary	April 1, 1982 to June 30, 1982	Ra-226	1.03×10^{-16}	$\pm 0.16 \times 10^{-16}$	2×10^{-16}	< .1
		Th-230	1.20×10^{-15}	$\pm 0.10 \times 10^{-15}$	7×10^{-17}	1.5
		Pb-210	2.34×10^{-14}	$\pm 0.13 \times 10^{-14}$	1×10^{-15}	.6
		U-Nat	2.17×10^{-9}		5×10^{-17}	< 0.1
		Rn-222	1.31×10^{-9}			43
#3 Puddle Springs Nearest Residence	April 1, 1982 to June 30, 1982	Ra-226	2.18×10^{-16}	$\pm 0.71 \times 10^{-16}$	1×10^{-16}	< .1
		Th-230	1.89×10^{-15}	$\pm 1.94 \times 10^{-15}$	2×10^{-16}	2.4
		Pb-210	2.10×10^{-14}	$\pm 0.13 \times 10^{-14}$	1×10^{-15}	.5
		U-Nat	6.16×10^{-9}		5×10^{-17}	< 0.1
		Rn-222	1.88×10^{-9}			62
#4 Downwind at Restricted Area Boundary	April 1, 1982 to June 30, 1982	Ra-226	7.40×10^{-15}	$\pm 0.27 \times 10^{-15}$	1×10^{-16}	.2
		Th-230	7.60×10^{-14}	$\pm 0.51 \times 10^{-15}$	2×10^{-16}	9.5
		Pb-210	2.58×10^{-14}	$\pm 0.14 \times 10^{-14}$	1×10^{-15}	.6
		U-Nat	3.79×10^{-9}		5×10^{-17}	< 0.1
		Rn-222	1.31×10^{-9}			43
#5 Downwind Near NE Corner of Restricted Area	April 1, 1982 to June 30, 1982	Ra-226	7.40×10^{-16}	$\pm 0.28 \times 10^{-16}$	1×10^{-16}	.2
		Th-230	9.91×10^{-15}	$\pm 0.82 \times 10^{-15}$	2×10^{-16}	12.4
		Pb-210	2.65×10^{-14}	$\pm 0.15 \times 10^{-14}$	1×10^{-15}	.7
		U-Nat	5.35×10^{-9}		5×10^{-17}	0.1
		Rn-222	1.19×10^{-9}			39
#6 Near Loco Shop Background	April 1, 1982 to June 30, 1982	Ra-226	1.75×10^{-16}	$\pm 0.03 \times 10^{-16}$	9×10^{-17}	< .1
		Th-230	2.49×10^{-16}	$\pm 1.04 \times 10^{-16}$	1×10^{-16}	0.3
		Pb-210	2.52×10^{-14}	$\pm 0.17 \times 10^{-14}$	2×10^{-15}	.6
		U-Nat	1.08×10^{-9}		5×10^{-17}	< 0.1
		Rn-222	1.65×10^{-9}			55

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