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Battelle

Pacific Northwest Laboratories
P.O. Box 999
Richland, Washington U.S.A. 99352
Telephone (509) FTS 444-3003
Telex 15-2874

February 1, 1982

Mr. Gregory G. Eadie
Uranium Recovery Licensing Branch
Division of Waste Management
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Greg:

I am sorry I was unable to meet with you on Friday, January 29. My morning schedule dragged into afternoon, and I was unable to reach you before you had gone to your meeting.

FIN B-2216 - I have attached a summary which gives you an update for the projected work on this program.

FIN B-2217 - ARIX expects to be completed with their engineering reports by the end of May. This, of course, is being perturbed by the severe weather encountered in the Dakotas. ARIX initiated work on eleven properties in January. Two properties were investigated for the possibility of tailings underneath specific structures using engineering assessment protocols. In one case, a garage was found to cover tailings; the tailings may have been used for a base under the concrete. In the second case, an addition to a home, tailings provide a base under a concrete pad.

A summary of the disequilibrium in Edgemont soils is almost complete. Pete Jackson will be sending you the printout listing the ratios and the radionuclide concentrations in the soils.

If you have any questions, please don't hesitate to telephone. I will plan to visit you the end of March or early April to discuss possible future research areas.

Very truly yours,

N. A. Wogman, Manager
Radiological and Inorganic Chemistry
Section

NAW:mfm

Attachment

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PDR FOIA
GARBUS83-272 PDR

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info only

ENVIRONMENTAL CLEANUP STANDARDS FOR
LOW LEVEL RADIOACTIVE WASTE MATERIALS

Project Manager: N. A. Wogman
Principal Investigators: P. O. Jackson
V. W. Thomas
J. A. Young

FIN No. B-2216

STUDY OBJECTIVES

The purpose of this program is to review and assess the existing methodologies and capabilities for evaluating the effectiveness of decontamination efforts for structures in open land areas and to provide the Nuclear Regulatory Commission (NRC) with a technical manual of standardized methods best suited for this purpose.

PROJECTED WORK

During the period through April 1, 1982, the final draft will be written of the report recommending procedures for identifying properties that require remedial action and for later verifying that remedial action has been successful. The final report will incorporate the suggestions that have been made by Battelle staff members and outside reviewers for the improvement of the rough draft of this report that was submitted to NRC in October of 1981. Comparisons between radon daughter measurements made with five-minute air filters, RPISU's and Track Etch devices that are being made at Edgemont, and the comparisons between various radon and daughter measuring devices that are being made at other locations as part of the program entitled "Stabilization, Engineering, and Monitoring Alternatives Assessment for Improving Regulation of Uranium Recovery Operations and Waste Management," are being followed to determine whether the results of these measurements will indicate that changes should be made in the procedures recommended for measuring radon daughters.

The above report will be submitted in final form as a NUREG report on May 1, 1982. During the period from May 1, 1982 through September 30, 1982, a report will be written that recommends procedures for measuring radon fluxes from soil and other materials.

Edgemont Cleanup Action Program
SOIL SAMPLES

Sample	733 U		737 In		736 Ex		219 Pb		157 Cs	
	pH/γ	Std. Dev.	pH/γ	Std. Dev.	pH/γ	Std. Dev.	pH/γ	Std. Dev.	pH/γ	Std. Dev.
1001	3.272	0.111	0.033	3.917	0.005	4.115	0.035	0.036	0.031	0.036
1002	0.234	0.004	0.034	5.155	15.499	2.146	10.031	1.234	3.022	1.100
1003	17.145	11.011	10.675	10.253	139.411	13.034	137.191	11.531	6.533	2.531
1004	21.061	2.651	20.015	9.903	34.370	2.141	14.164	1.271	3.079	1.111
1005	20.669	2.011	11.507	7.573	33.821	3.141	32.101	2.011	3.002	1.111
1006	2.015	0.221	0.017	3.021	3.311	0.010	3.201	0.221	3.077	0.039
1007	2.002	0.005	0.005	7.531	47.768	5.579	61.515	6.011	3.021	1.111
1008	2.077	0.004	0.002	3.003	43.101	3.003	35.011	1.111	2.017	0.111
1009	31.004	0.006	0.007	7.003	191.803	5.006	210.011	2.003	7.006	1.003
1010	1.111	0.000	2.111	1.003	20.020	1.003	21.011	0.003	3.006	0.003
1011	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1012	2.007	0.007	21.001	7.102	39.030	3.000	41.011	3.107	3.102	1.001
1013	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1014	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1015	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1016	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1017	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1018	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1019	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1020	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1021	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1022	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1023	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1024	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1025	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1026	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1027	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1028	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1029	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1030	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1031	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1032	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1033	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1034	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1035	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1036	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1037	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1038	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1039	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1040	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1041	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1042	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1043	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1044	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1045	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1046	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1047	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1048	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1049	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1050	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1051	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1052	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1053	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1054	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1055	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1056	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1057	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1058	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1059	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1060	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1061	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1062	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1063	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1064	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1065	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1066	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1067	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1068	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1069	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1070	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1071	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1072	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1073	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1074	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1075	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1076	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1077	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1078	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1079	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1080	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1081	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1082	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1083	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1084	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1085	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1086	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1087	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1088	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1089	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1090	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1091	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1092	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1093	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1094	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1095	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1096	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003
1097	1.005	0.004	0.001	5.021	5.766	0.015	4.000	0.005	1.001	0.001
1098	3.007	0.007	1.100	0.002	95.010	0.011	50.000	0.005	-4.000	1.000
1099	30.009	0.005	0.005	1.001	25.013	0.005	20.011	0.004	0.005	1.000
1100	5.411	0.000	0.003	12.111	93.220	0.003	10.000	0.003	6.000	0.003

Edgemont Cleanup Action Program
SOIL SAMPLES

Advanced Cleanup Action Program
SOL 000119

SOUTHWESTERN

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (○), 10⁷ cells/ml (□), 10⁸ cells/ml (△), and 10⁹ cells/ml (◇). The error bars represent the standard deviation of three independent experiments.

Seaguard Cleaning Services
5411 50th Ave.
Calgary, Alberta
T2C 1A5

[illegible]

THE UNIVERSITY OF CHICAGO PRESS

1. The first group of variables includes the demographic characteristics of the respondents, such as age, gender, and education level. These variables are used to control for potential confounding factors that may influence the relationship between the independent and dependent variables.

Cz. 010	227		230		235		240		237	
	H		Th		Pa		Pu		Cs	
	pC/g	Std. Dev.	pC/g	Std. Dev.	pC/g	Std. Dev.	pC/g	Std. Dev.	pC/g	Std. Dev.
30.21	94.794	62.530	94.797	62.532	103.703	64.119	67.493	66.135	45.371	5.314
30.30	94.793	62.531	94.796	62.531	94.795	64.118	67.492	66.134	45.370	5.313
30.39	94.792	62.532	94.795	62.532	94.794	64.117	67.491	66.133	45.369	5.312
30.48	94.791	62.533	94.794	62.533	94.793	64.116	67.490	66.132	45.368	5.311
30.57	94.790	62.534	94.793	62.534	94.792	64.115	67.489	66.131	45.367	5.310
30.66	94.789	62.535	94.792	62.535	94.791	64.114	67.488	66.130	45.366	5.309
30.75	94.788	62.536	94.791	62.536	94.790	64.113	67.487	66.129	45.365	5.308
30.84	94.787	62.537	94.790	62.537	94.789	64.112	67.486	66.128	45.364	5.307
30.93	94.786	62.538	94.789	62.538	94.788	64.111	67.485	66.127	45.363	5.306
31.02	94.785	62.539	94.788	62.539	94.787	64.110	67.484	66.126	45.362	5.305
31.11	94.784	62.540	94.787	62.540	94.786	64.109	67.483	66.125	45.361	5.304
31.20	94.783	62.541	94.786	62.541	94.785	64.108	67.482	66.124	45.360	5.303
31.29	94.782	62.542	94.785	62.542	94.784	64.107	67.481	66.123	45.359	5.302
31.38	94.781	62.543	94.784	62.543	94.783	64.106	67.480	66.122	45.358	5.301
31.47	94.780	62.544	94.783	62.544	94.782	64.105	67.479	66.121	45.357	5.300
31.56	94.779	62.545	94.782	62.545	94.781	64.104	67.478	66.120	45.356	5.299
31.65	94.778	62.546	94.781	62.546	94.780	64.103	67.477	66.119	45.355	5.298
31.74	94.777	62.547	94.780	62.547	94.779	64.102	67.476	66.118	45.354	5.297
31.83	94.776	62.548	94.779	62.548	94.778	64.101	67.475	66.117	45.353	5.296
31.92	94.775	62.549	94.778	62.549	94.777	64.100	67.474	66.116	45.352	5.295
32.01	94.774	62.550	94.777	62.550	94.776	64.099	67.473	66.115	45.351	5.294
32.10	94.773	62.551	94.776	62.551	94.775	64.098	67.472	66.114	45.350	5.293
32.19	94.772	62.552	94.775	62.552	94.774	64.097	67.471	66.113	45.349	5.292
32.28	94.771	62.553	94.774	62.553	94.773	64.096	67.470	66.112	45.348	5.291
32.37	94.770	62.554	94.773	62.554	94.772	64.095	67.469	66.111	45.347	5.290
32.46	94.769	62.555	94.772	62.555	94.771	64.094	67.468	66.110	45.346	5.289
32.55	94.768	62.556	94.771	62.556	94.770	64.093	67.467	66.109	45.345	5.288
32.64	94.767	62.557	94.770	62.557	94.769	64.092	67.466	66.108	45.344	5.287
32.73	94.766	62.558	94.769	62.558	94.768	64.091	67.465	66.107	45.343	5.286
32.82	94.765	62.559	94.768	62.559	94.767	64.090	67.464	66.106	45.342	5.285
32.91	94.764	62.560	94.767	62.560	94.766	64.089	67.463	66.105	45.341	5.284
33.00	94.763	62.561	94.766	62.561	94.765	64.088	67.462	66.104	45.340	5.283
33.09	94.762	62.562	94.765	62.562	94.764	64.087	67.461	66.103	45.339	5.282
33.18	94.761	62.563	94.764	62.563	94.763	64.086	67.460	66.102	45.338	5.281
33.27	94.760	62.564	94.763	62.564	94.762	64.085	67.459	66.101	45.337	5.280
33.36	94.759	62.565	94.762	62.565	94.761	64.084	67.458	66.100	45.336	5.279
33.45	94.758	62.566	94.761	62.566	94.760	64.083	67.457	66.099	45.335	5.278
33.54	94.757	62.567	94.760	62.567	94.759	64.082	67.456	66.098	45.334	5.277
33.63	94.756	62.568	94.759	62.568	94.758	64.081	67.455	66.097	45.333	5.276
33.72	94.755	62.569	94.758	62.569	94.757	64.080	67.454	66.096	45.332	5.275
33.81	94.754	62.570	94.757	62.570	94.756	64.079	67.453	66.095	45.331	5.274
33.90	94.753	62.571	94.756	62.571	94.755	64.078	67.452	66.094	45.330	5.273
34.00	94.752	62.572	94.755	62.572	94.754	64.077	67.451	66.093	45.329	5.272
34.09	94.751	62.573	94.754	62.573	94.753	64.076	67.450	66.092	45.328	5.271
34.18	94.750	62.574	94.753	62.574	94.752	64.075	67.449	66.091	45.327	5.270
34.27	94.749	62.575	94.752	62.575	94.751	64.074	67.448	66.090	45.326	5.269
34.36	94.748	62.576	94.751	62.576	94.750	64.073	67.447	66.089	45.325	5.268
34.45	94.747	62.577	94.750	62.577	94.749	64.072	67.446	66.088	45.324	5.267
34.54	94.746	62.578	94.749	62.578	94.748	64.071	67.445	66.087	45.323	5.266
34.63	94.745	62.579	94.748	62.579	94.747	64.070	67.444	66.086	45.322	5.265
34.72	94.744	62.580	94.747	62.580	94.746	64.069	67.443	66.085	45.321	5.264
34.81	94.743	62.581	94.746	62.581	94.745	64.068	67.442	66.084	45.320	5.263
34.90	94.742	62.582	94.745	62.582	94.744	64.067	67.441	66.083	45.319	5.262
35.00	94.741	62.583	94.744	62.583	94.743	64.066	67.440	66.082	45.318	5.261
35.09	94.740	62.584	94.743	62.584	94.742	64.065	67.439	66.081	45.317	5.260
35.18	94.739	62.585	94.742	62.585	94.741	64.064	67.438	66.080	45.316	5.259
35.27	94.738	62.586	94.741	62.586	94.740	64.063	67.437	66.079	45.315	5.258
35.36	94.737	62.587	94.740	62.587	94.739	64.062	67.436	66.078	45.314	5.257
35.45	94.736	62.588	94.739	62.588	94.738	64.061	67.435	66.077	45.313	5.256
35.54	94.735	62.589	94.738	62.589	94.737	64.060	67.434	66.076	45.312	5.255
35.63	94.734	62.590	94.737	62.590	94.736	64.059	67.433	66.075	45.311	5.254
35.72	94.733	62.591	94.736	62.591	94.735	64.058	67.432	66.074	45.310	5.253
35.81	94.732	62.592	94.735	62.592	94.734	64.057	67.431	66.073	45.309	5.252
35.90	94.731	62.593	94.734	62.593	94.733	64.056	67.430	66.072	45.308	5.251
36.00	94.730	62.594	94.733	62.594	94.732	64.055	67.429	66.071	45.307	5.250
36.09	94.729	62.595	94.732	62.595	94.731	64.054	67.428	66.070	45.306	5.249
36.18	94.728	62.596	94.731	62.596	94.730	64.053	67.427	66.069	45.305	5.248
36.27	94.727	62.597	94.730	62.597	94.729	64.052	67.426	66.068	45.304	5.247
36.36	94.726	62.598	94.729	62.598	94.728	64.051	67.425	66.067	45.303	5.246
36.45	94.725	62.599	94.728	62.599	94.727	64.050	67.424	66.066	45.302	5.245
36.54	94.724	62.600	94.727	62.600	94.726	64.049	67.423	66.065	45.301	5.244
36.63	94.723	62.601	94.726	62.601	94.725	64.048	67.422	66.064	45.300	5.243
36.72	94.722	62.602	94.725	62.602	94.724	64.047	67.421	66.063	45.299	5.242
36.81	94.721	62.603	94.724	62.603	94.723	64.046	67.420	66.062	45.298	5.241
36.90	94.720	62.604	94.723	62.604	94.722	64.045	67.419	66.061	45.297	5.240
37.00	94.719	62.605	94.722	62.605	94.721	64.044	67.418	66.060	45.296	5.239
37.09	94.718	62.606	94.721	62.606	94.720	64.043	67.417	66.059	45.295	5.238
37.18	94.717	62.607	94.720	62.607	94.719	64.042	67.416	66.058	45.294	5.237
37.27	94.716	62.608	94.719	62.608	94.718	64.041	67.415	66.057	45.293	5.236
37.36	94.715	62.609	94.718	62.609	94.717	64.040	67.414	66.056	45.292	5.235
37.45	94.714	62.610	94.717	62.610	94.716	64.039	67.413	66.055	45.291	5.234
37.54	94.713	62.611	94.716	62.611	94.715	64.038	67.412	66.054	45.290	5.233
37.63	94.712	62.612	94.715	62.612	94.714	64.037	67.411	66.053	45.289	5.232
37.72	94.711	62.613	94.714	62.613	94.713	64.036	67.410	66.052	45.288	5.231
37.81	94.710	62.614	94.713	62.614	94.712	64.035	67.409	66.051	45.287	5.230
37.90	94.709	62.615	94.712	62.615	94.711	64.034	67.408	66.050	45.286	5.229
38.00	94.708	62.616	94.711	62.616	94.710	64.033	67.407	66.049	45.285	5.228
38.09	94.707	62.617	94.710	62.617	94.709	64.032	67.406	66.048	45.284	5.227
38.18	94.706	62.618	94.709	62.618	94.708	64.031	67.405	66.047	45.283	5.226
38.27	94.705	62.619	94.708	62.619	94.707	64.030	67.404	66.046	45.282	5.225
38.36	94.704	62.620	94.707	62.620	94.706	64.029	67.403	66.045	45.281	5.224
38.45	94.703	62.621	94.706	62.621	94.705	64.028	67.402	66.044	45.280	5.223
38.54	94.702	62.622	94.705	62.622	94.704	64.027	67.401	66.043	45.279	5.222
38.63	94.701	62.623	94.704	62.623	94.703	64.026	67.400	66.042	45.278	5.221
38.72	94.700	62.624	94.703	62.624	94.702	64.025	67.399	66.041	45.277	5.220
38.81	94.699	62.625	94.702	62.625	94.					

