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June 20, 2000

Mr. John D. Kinneman
Chief, Nuclear Material Safety Branch 2
Division of Nuclear Material Safety
U.S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

RE: License No. 37-23341-01 Quarterly Report- 1st Quarter 2000

Dear Mr. Kinneman:

In accordance with condition No. 16 of the referenced license, enclosed is the quarterly report for the first quarter 2000.

If you have any questions or comments, please contact me or Michael Fuller, Manager, Health Physics & Engineering at (413) 543-6911.

Sincerely,

William Stevenson, Radiation Protection Engineer
UniTech Services Group

cc: M. Fuller, Manager Health Physics and Engineering
Dan Neely, Plant Manager/RSO, UniTech Royersford

NMSS/RGN MATERIALS-002



2000 - ROYERSFORD WASTEWATER DISCHARGE SUMMARY												
MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCT	NOV	DEC
GALLONS	240000	245000	1185000	1065000								
H-3	2.80E-05	2.80E-05	2.80E-05									
mCi H-3	25.4352	25.9651	125.5863									
C-14	2.03E-06	2.03E-06	2.03E-06									
mCi C-14	1.844052	1.8824698	9.1050068									
K-40	NF	NF	NF									
Cr-51	NF	NF	NF									
Mn-54	2.34E-07	2.37E-07	6.14E-07									
Fe-55	6.89E-06	6.89E-06	6.89E-06									
Fe-59	NF	NF	NF									
Co-57	NF	NF	NF									
Co-58	4.07E-07	3.60E-07	5.14E-07									
Co-60	8.10E-07	7.43E-07	1.68E-06									
Ni-63	1.52E-07	1.52E-07	1.52E-07									
Zn-65	7.71E-08	7.71E-08	4.12E-07									
Sr-89	*	*	*									
Sr-90	3.32E-09	3.32E-09	3.32E-09									
Zr-95	NF	NF	NF									
Nb-95	3.09E-08	NF	NF									
Tc-99	2.90E-07	2.90E-07	2.90E-07									
Ag-110m	NF	NF	7.06E-08									
Sb-125	NF	NF	NF									
I-129	1.73E-08	1.73E-08	1.73E-08									
Cs-134	1.16E-07	1.01E-07	1.71E-07									
Cs-137	5.30E-07	5.59E-07	5.81E-07									
Eu-152	ND	ND	ND									
Eu-154	ND	ND	ND									
Ra-226	ND	ND	ND									
Th-228	ND	ND	ND									
Th-234	ND	ND	9.78E-07									
U-234	ND	ND	ND									
U-235	ND	3.50E-08	ND									
U-238	ND	ND	ND									
Pu-238	ND	ND	ND									
Pu-239	ND	ND	ND									
Np-237	ND	ND	ND									
Am-241	ND	ND	ND									
Cm-244	ND	ND	ND									
CONC.	9.56E-06	9.46E-06	1.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ACTIVITY	8.6821602	8.7757587	55.499008	0	0	0	0	0	0	0	0	0

ANNUAL TOTALS
2735000 GALLONS

176.9866 mCi H-3

12.831529 mCi C-14

72.956927 mCi AORN

Notes: CONC. is total concentration for all nuclides except H-3 and C-14.

All concentrations are in uCi/ml. All activities are in mCi.

NF - Not found in gamma spectra search

<MDA - Less than minimum detection limit for analytical method.

*Sr-89/90 analyzed and reported as total Sr unless >50 pCi/L. Conservatively assigned to Sr-90

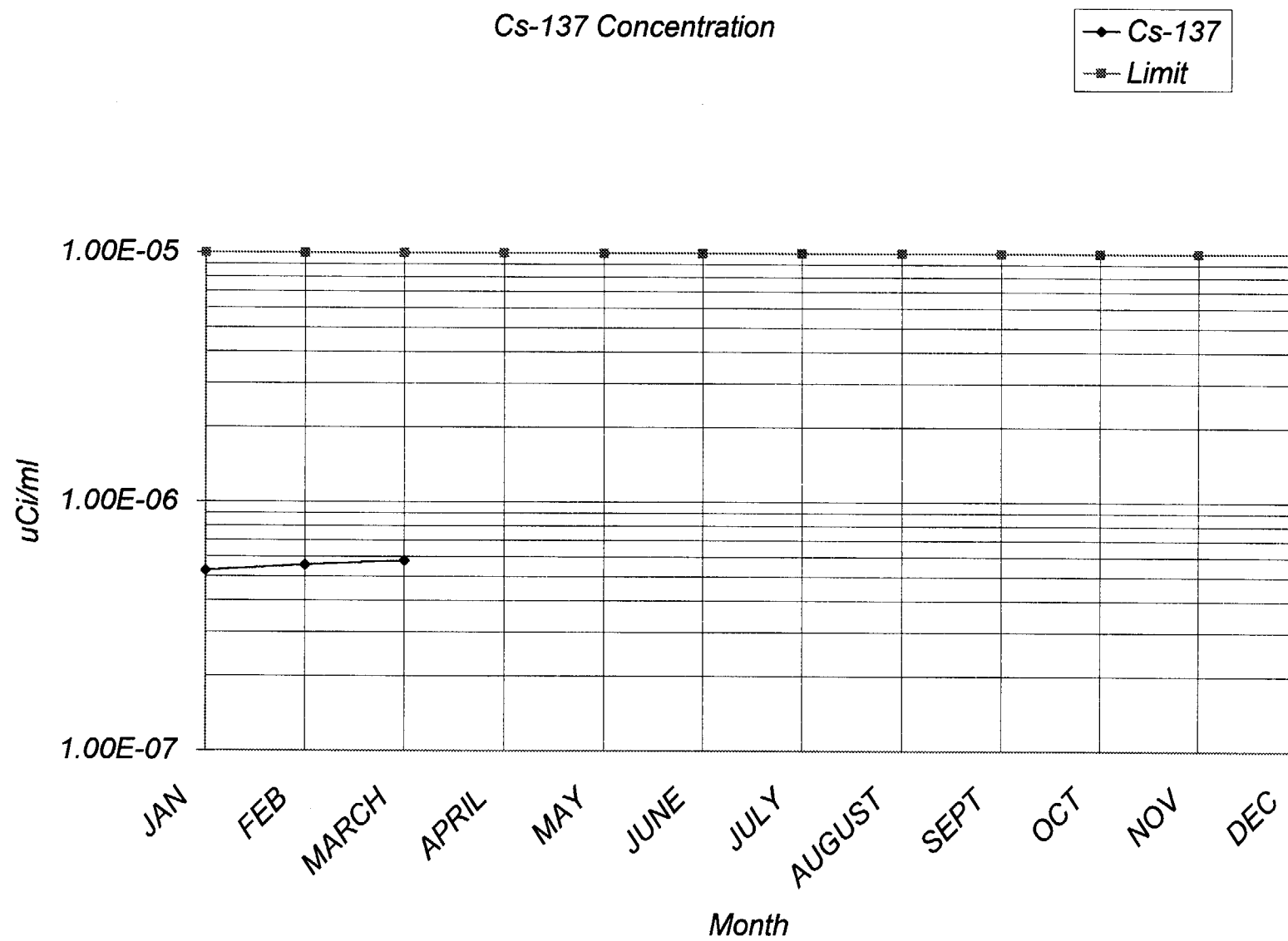
AORN - All other radionuclides (except for H-3 and C-14)

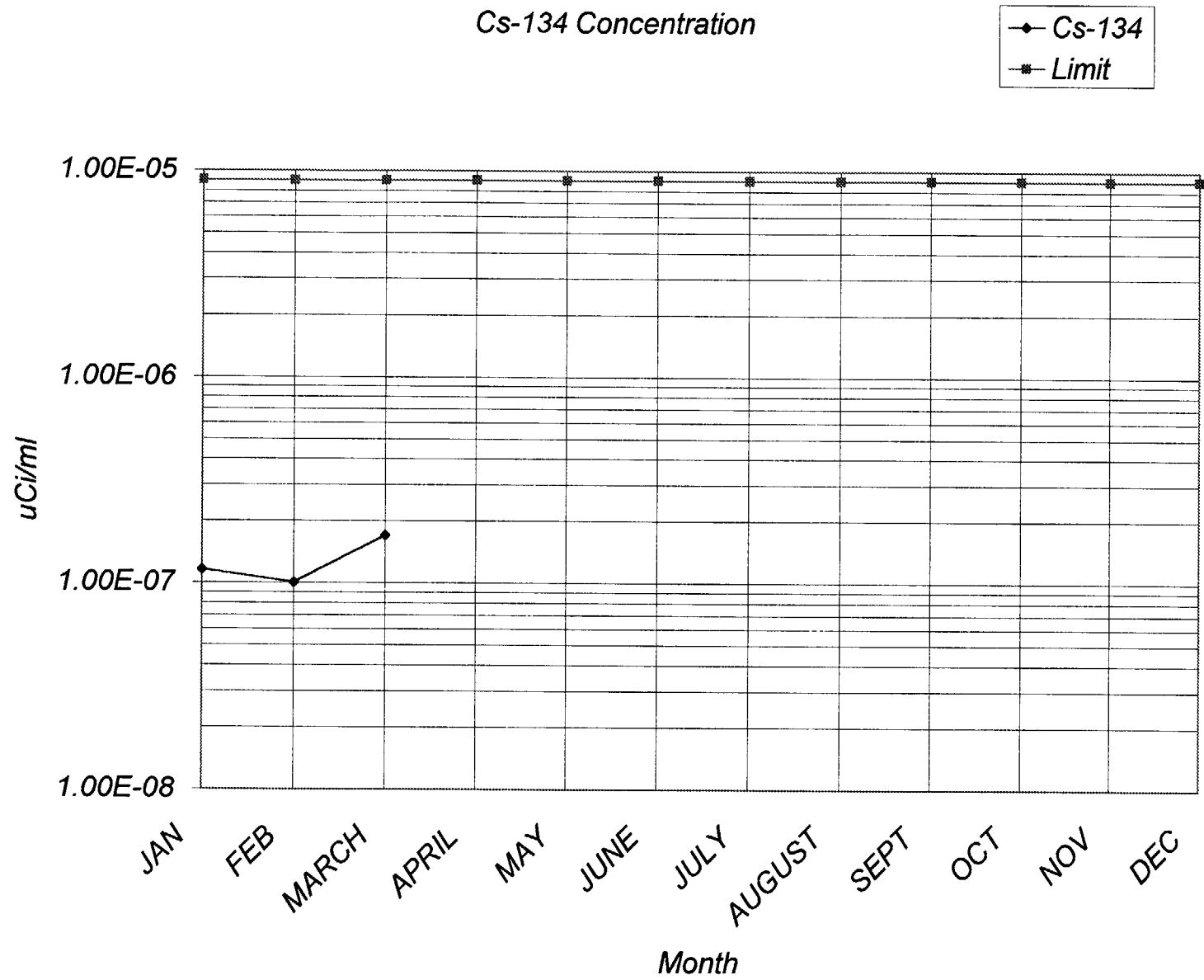
ND - No Data

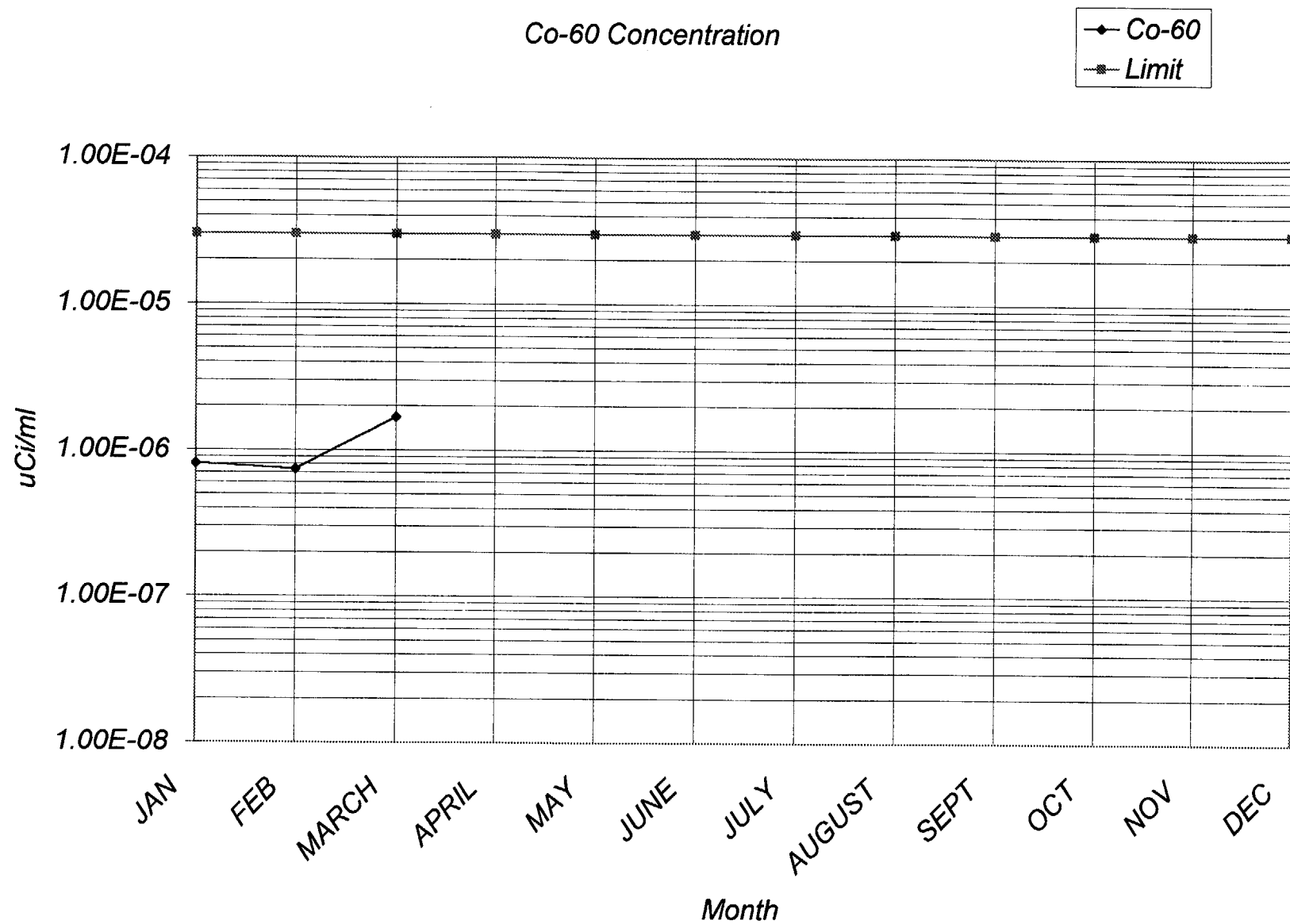
079 - Royersford

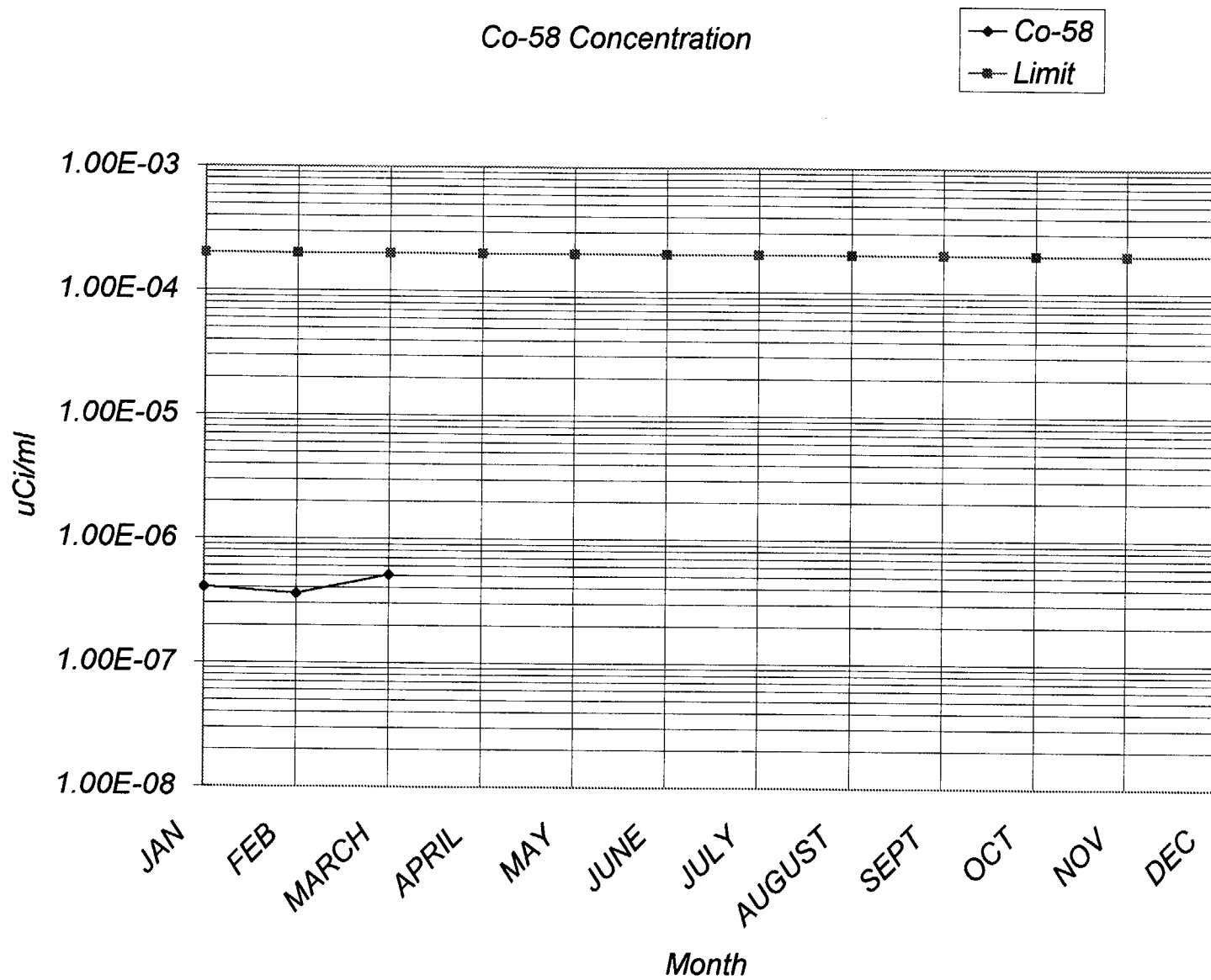
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Cs-137 Concentration

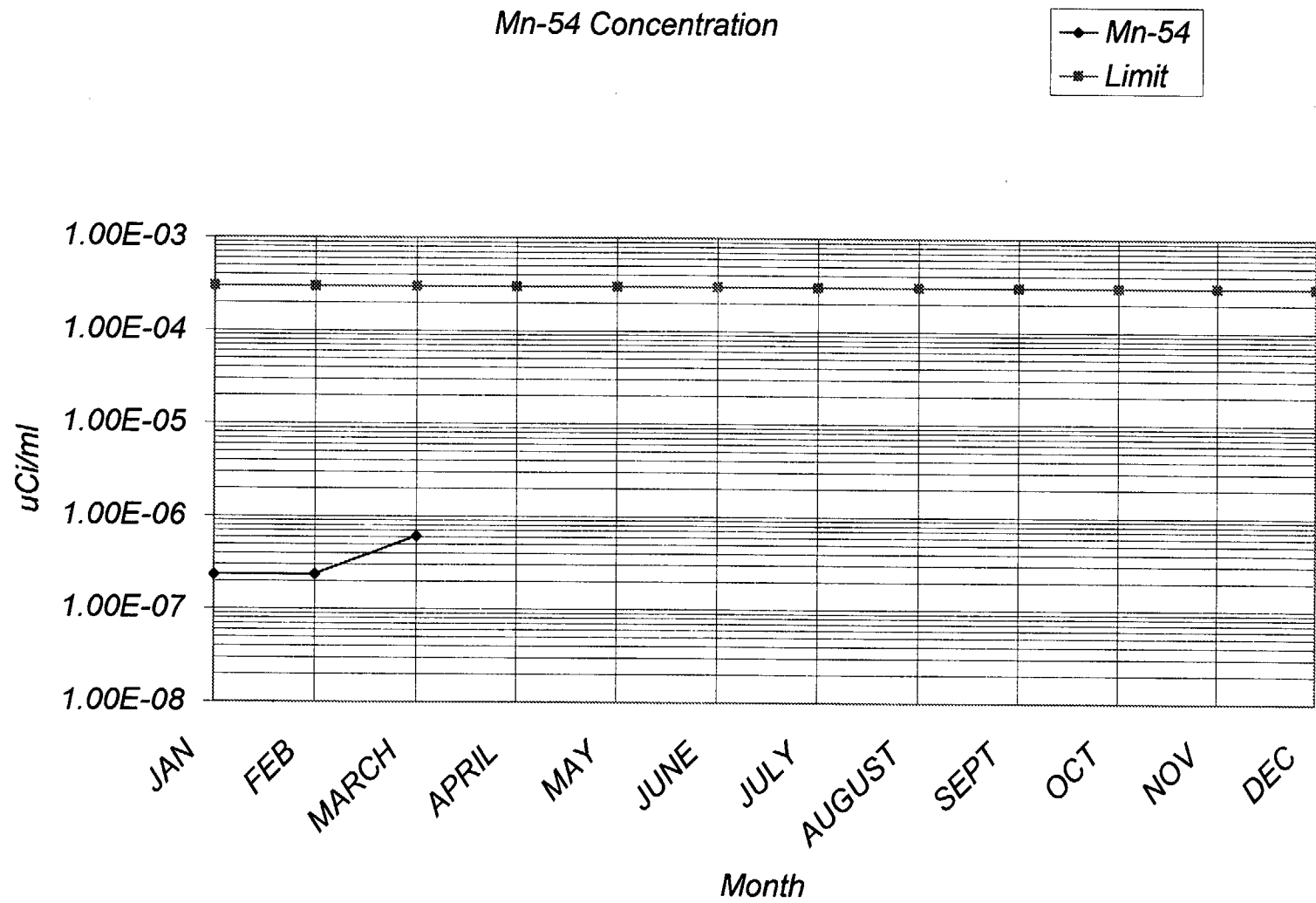








Mn-54 Concentration



Zn-65 Concentration

