1. General physical form (see attached list)
Combustibles (paper, cloth, wood, etc.).
[X] other (specify)
43.

2. Details on physical form(particularly confinement related)
Forty percent rags, 40% floor sweepings, and 20% glassware make up this stream.

3. Chemical form:
Unknown.

4. Inner packaging: [ ] plastic bag [X] plastic liner
[ ] metal liner [ ] none [ ] other (specify)

5. Waste container type (see attached list)
Cardboard box*.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BLM, "Other", and BXW. "Other" cannot be defined by the preparer.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
None.										

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Unknown.	Unknown.	T 3.8340000000000	CI	1960	1960	N			See continuation page.
C-14	Unknown.	Unknown.	T .51430000000000	CI	1960	1960	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 88.840000000000	CI	1960	1960	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .02665000000000	CI	1960	1960	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 14.960000000000	CI	1960	1960	N			See continuation page.
Co-60	Unknown.	Unknown.	T 31.330000000000	CI	1960	1960	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .04302000000000	CI	1960	1960	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00841600000000	CI	1960	1960	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000218790000	CI	1960	1960	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Unknown.	Unknown.	T 9.3510000000000	CI	1960	1960	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .21980000000000	CI	1960	1960	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00013560000000	CI	1960	1960	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .43950000000000	CI	1960	1960	N			See continuation page.
U-234	Unknown.	Unknown.	T .00009819000000	CI	1960	1960	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000210400000	CI	1960	1960	N			See continuation page.
U-236	Unknown.	Unknown.	T .00003740000000	CI	1960	1960	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00006078000000	CI	1960	1960	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00252500000000	CI	1960	1960	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)
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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Unknown.	Unknown.	T .00252500000000	CI	1960	1960	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00026650000000	CI	1960	1960	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .27590000000000	CI	1960	1960	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00126200000000	CI	1960	1960	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00126200000000	CI	1960	1960	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00116900000000	CI	1960	1960	N			See continuation page.
H-3	Unknown.	Unknown.	T 28.210000000000	CI	1961	1961	N			See continuation page.
C-14	Unknown.	Unknown.	T 3.7850000000000	CI	1961	1961	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 653.70000000000	CI	1961	1961	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-59	Unknown.	Unknown.	T .19610000000000	CI	1961	1961	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 110.10000000000	CI	1961	1961	N			See continuation page.
Co-60	Unknown.	Unknown.	T 230.50000000000	CI	1961	1961	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .31650000000000	CI	1961	1961	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .06193000000000	CI	1961	1961	N			See continuation page.
I-129	Unknown.	Unknown.	T .00001610100000	CI	1961	1961	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 68.820000000000	CI	1961	1961	N			See continuation page.
Ce-144	Unknown.	Unknown.	T 1.6170000000000	CI	1961	1961	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00099780000000	CI	1961	1961	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-155	Unknown.	Unknown.	T 3.2340000000000	CI	1961	1961	N			See continuation page.
U-234	Unknown.	Unknown.	T .00072260000000	CI	1961	1961	N			See continuation page.
U-235	Unknown.	Unknown.	T .00001548000000	CI	1961	1961	N			See continuation page.
U-236	Unknown.	Unknown.	T .00027530000000	CI	1961	1961	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00044730000000	CI	1961	1961	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .01858000000000	CI	1961	1961	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .01858000000000	CI	1961	1961	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00196100000000	CI	1961	1961	N			See continuation page.
Pu-241	Unknown.	Unknown.	T 2.0300000000000	CI	1961	1961	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Am-241	Unknown.	Unknown.	T .00929000000000	CI	1961	1961	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00929000000000	CI	1961	1961	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00860200000000	CI	1961	1961	N			See continuation page.
Fe-59	Unknown.	Unknown.	T 4.0000000000000	CI	1961	1961	N	-20%	+20%	See comment below.
H-3	Unknown.	Unknown.	T 24.600000000000	CI	1962	1962	N			See continuation page.
C-14	Unknown.	Unknown.	T 3.3000000000000	CI	1962	1962	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 570.10000000000	CI	1962	1962	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .17100000000000	CI	1962	1962	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 96.010000000000	CI	1962	1962	N			See continuation page.

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Co-60	Unknown.	Unknown.	T 201.00000000000	CI	1962	1962	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .27600000000000	CI	1962	1962	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .05401000000000	CI	1962	1962	N			See continuation page.
I-129	Unknown.	Unknown.	T .00001404000000	CI	1962	1962	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 60.010000000000	CI	1962	1962	N			See continuation page.
Ce-144	Unknown.	Unknown.	T 1.4100000000000	CI	1962	1962	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00087010000000	CI	1962	1962	N			See continuation page.
Eu-155	Unknown.	Unknown.	T 2.8200000000000	CI	1962	1962	N			See continuation page.
U-234	Unknown.	Unknown.	T .00063010000000	CI	1962	1962	N			See continuation page.

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U-235	Unknown.	Unknown.	T .00001350000000	CI	1962	1962	N			See continuation page.
U-236	Unknown.	Unknown.	T .00024000000000	CI	1962	1962	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00039010000000	CI	1962	1962	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .01620000000000	CI	1962	1962	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .01620000000000	CI	1962	1962	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00171000000000	CI	1962	1962	N			See continuation page.
Pu-241	Unknown.	Unknown.	T 1.7700000000000	CI	1962	1962	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00810100000000	CI	1962	1962	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00810100000000	CI	1962	1962	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cm-244	Unknown.	Unknown.	T .00750100000000	CI	1962	1962	N			See continuation page.
H-3	Unknown.	Unknown.	T 8203.0000000000	CI	1963	1963	N			See continuation page.
C-14	Unknown.	Unknown.	T 1100.0000000000	CI	1963	1963	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 190100.00000000	CI	1963	1963	N			See continuation page.
Ni-59	Unknown.	Unknown.	T 57.020000000000	CI	1963	1963	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 32010.000000000	CI	1963	1963	N			See continuation page.
Co-60	Unknown.	Unknown.	T 67030.000000000	CI	1963	1963	N			See continuation page.
Sr-90	Unknown.	Unknown.	T 92.040000000000	CI	1963	1963	N			See continuation page.
Tc-99	Unknown.	Unknown.	T 18.010000000000	CI	1963	1963	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
I-129	Unknown.	Unknown.	T .00468180000000	CI	1963	1963	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 20010.000000000	CI	1963	1963	N			See continuation page.
Ce-144	Unknown.	Unknown.	T 470.20000000000	CI	1963	1963	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .29010000000000	CI	1963	1963	N			See continuation page.
Eu-155	Unknown.	Unknown.	T 940.40000000000	CI	1963	1963	N			See continuation page.
U-234	Unknown.	Unknown.	T .21010000000000	CI	1963	1963	N			See continuation page.
U-235	Unknown.	Unknown.	T .00450200000000	CI	1963	1963	N			See continuation page.
U-236	Unknown.	Unknown.	T .08003000000000	CI	1963	1963	N			See continuation page.
Np-237	Unknown.	Unknown.	T .13010000000000	CI	1963	1963	N			See continuation page.

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Pu-238	Unknown.	Unknown.	T 5.4020000000000	CI	1963	1963	N			See continuation page.
Pu-239	Unknown.	Unknown.	T 5.4020000000000	CI	1963	1963	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .57020000000000	CI	1963	1963	N			See continuation page.
Pu-241	Unknown.	Unknown.	T 590.20000000000	CI	1963	1963	N			See continuation page.
Am-241	Unknown.	Unknown.	T 2.7010000000000	CI	1963	1963	N			See continuation page.
Cm-242	Unknown.	Unknown.	T 2.7010000000000	CI	1963	1963	N			See continuation page.
Cm-244	Unknown.	Unknown.	T 2.5010000000000	CI	1963	1963	N			See continuation page.
H-3	Unknown.	Unknown.	T .74520000000000	CI	1964	1964	N			See continuation page.
C-14	Unknown.	Unknown.	T .09997000000000	CI	1964	1964	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Fe-55	Unknown.	Unknown.	T 17.270000000000	CI	1964	1964	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00518000000000	CI	1964	1964	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 2.9080000000000	CI	1964	1964	N			See continuation page.
Co-60	Unknown.	Unknown.	T 6.0890000000000	CI	1964	1964	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00836100000000	CI	1964	1964	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00163600000000	CI	1964	1964	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000042534000	CI	1964	1964	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 1.8180000000000	CI	1964	1964	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .04271000000000	CI	1964	1964	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-154	Unknown.	Unknown.	T .00002636000000	CI	1964	1964	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .08543000000000	CI	1964	1964	N			See continuation page.
U-234	Unknown.	Unknown.	T .00001908000000	CI	1964	1964	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000040900000	CI	1964	1964	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000727000000	CI	1964	1964	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00001181000000	CI	1964	1964	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00049080000000	CI	1964	1964	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00049080000000	CI	1964	1964	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00005180000000	CI	1964	1964	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-241	Unknown.	Unknown.	T .05362000000000	CI	1964	1964	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00024540000000	CI	1964	1964	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00024540000000	CI	1964	1964	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00022720000000	CI	1964	1964	N			See continuation page.
H-3	Unknown.	Unknown.	T 2.3210000000000	CI	1965	1965	N			See continuation page.
C-14	Unknown.	Unknown.	T .31130000000000	CI	1965	1965	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 53.770000000000	CI	1965	1965	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .01613000000000	CI	1965	1965	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 9.0560000000000	CI	1965	1965	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Unknown.	Unknown.	T 18.960000000000	CI	1965	1965	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .02604000000000	CI	1965	1965	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00509400000000	CI	1965	1965	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000132480000	CI	1965	1965	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 5.6600000000000	CI	1965	1965	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .01330000000000	CI	1965	1965	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00008207000000	CI	1965	1965	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .26600000000000	CI	1965	1965	N			See continuation page.
U-234	Unknown.	Unknown.	T .00005943000000	CI	1965	1965	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
U-235	Unknown.	Unknown.	T .00000127300000	CI	1965	1965	N			See continuation page.
U-236	Unknown.	Unknown.	T .00002264000000	CI	1965	1965	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00003679000000	CI	1965	1965	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00152800000000	CI	1965	1965	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00152800000000	CI	1965	1965	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00016130000000	CI	1965	1965	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .16700000000000	CI	1965	1965	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00076410000000	CI	1965	1965	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00076410000000	CI	1965	1965	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cm-244	Unknown.	Unknown.	T .00070570000000	CI	1965	1965	N			See continuation page.
H-3	Unknown.	Unknown.	T .22650000000000	CI	1966	1966	N			See continuation page.
C-14	Unknown.	Unknown.	T .03039000000000	CI	1966	1966	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 5.2490000000000	CI	1966	1966	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00157500000000	CI	1966	1966	N			See continuation page.
Ni-63	Unknown.	Unknown.	T .88400000000000	CI	1966	1966	N			See continuation page.
Co-60	Unknown.	Unknown.	T 1.8510000000000	CI	1966	1966	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00254100000000	CI	1966	1966	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00049720000000	CI	1966	1966	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
I-129	Unknown.	Unknown.	T .00000012924000	CI	1966	1966	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .55250000000000	CI	1966	1966	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .01298000000000	CI	1966	1966	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000801100000	CI	1966	1966	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .02597000000000	CI	1966	1966	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000580100000	CI	1966	1966	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000012430000	CI	1966	1966	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000221000000	CI	1966	1966	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000359100000	CI	1966	1966	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-238	Unknown.	Unknown.	T .00014920000000	CI	1966	1966	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00014920000000	CI	1966	1966	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00001575000000	CI	1966	1966	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .01630000000000	CI	1966	1966	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00007459000000	CI	1966	1966	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00007459000000	CI	1966	1966	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00006906000000	CI	1966	1966	N			See continuation page.
H-3	Unknown.	Unknown.	T .66560000000000	CI	1967	1967	N			See continuation page.
C-14	Unknown.	Unknown.	T .08929000000000	CI	1967	1967	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Fe-55	Unknown.	Unknown.	T 15.420000000000	CI	1967	1967	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00462700000000	CI	1967	1967	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 2.5970000000000	CI	1967	1967	N			See continuation page.
Co-60	Unknown.	Unknown.	T 5.4380000000000	CI	1967	1967	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00746800000000	CI	1967	1967	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00146100000000	CI	1967	1967	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000037989000	CI	1967	1967	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 1.6230000000000	CI	1967	1967	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .03815000000000	CI	1967	1967	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-154	Unknown.	Unknown.	T .00002354000000	CI	1967	1967	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .07630000000000	CI	1967	1967	N			See continuation page.
U-234	Unknown.	Unknown.	T .00001705000000	CI	1967	1967	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000036530000	CI	1967	1967	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000649400000	CI	1967	1967	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00001055000000	CI	1967	1967	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00043830000000	CI	1967	1967	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00043830000000	CI	1967	1967	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00004627000000	CI	1967	1967	N			See continuation page.

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Pu-241	Unknown.	Unknown.	T .04789000000000	CI	1967	1967	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00021920000000	CI	1967	1967	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00021920000000	CI	1967	1967	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00020290000000	CI	1967	1967	N			See continuation page.
H-3	Unknown.	Unknown.	T .26760000000000	CI	1968	1968	N			See continuation page.
C-14	Unknown.	Unknown.	T .03589000000000	CI	1968	1968	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 6.1990000000000	CI	1968	1968	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00186000000000	CI	1968	1968	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 1.0440000000000	CI	1968	1968	N			See continuation page.

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Co-60	Unknown.	Unknown.	T 2.1860000000000	CI	1968	1968	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00300200000000	CI	1968	1968	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00058730000000	CI	1968	1968	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000015273000	CI	1968	1968	N			See continuation page.
Cs-137	Unknown.	Unknown.	T .65260000000000	CI	1968	1968	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .01534000000000	CI	1968	1968	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00000946200000	CI	1968	1968	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .03067000000000	CI	1968	1968	N			See continuation page.
U-234	Unknown.	Unknown.	T .00000685200000	CI	1968	1968	N			See continuation page.

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U-235	Unknown.	Unknown.	T .00000014680000	CI	1968	1968	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000261000000	CI	1968	1968	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000424200000	CI	1968	1968	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00017620000000	CI	1968	1968	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00017620000000	CI	1968	1968	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00001860000000	CI	1968	1968	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .01925000000000	CI	1968	1968	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00008810000000	CI	1968	1968	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00008810000000	CI	1968	1968	N			See continuation page.

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Cm-244	Unknown.	Unknown.	T .00008157000000	CI	1968	1968	N			See continuation page.
H-3	Unknown.	Unknown.	T .59090000000000	CI	1969	1969	N			See continuation page.
C-14	Unknown.	Unknown.	T .07927000000000	CI	1969	1969	N			See continuation page.
Fe-55	Unknown.	Unknown.	T 13.690000000000	CI	1969	1969	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00410800000000	CI	1969	1969	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 2.3060000000000	CI	1969	1969	N			See continuation page.
Co-60	Unknown.	Unknown.	T 4.8280000000000	CI	1969	1969	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .00663000000000	CI	1969	1969	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00129700000000	CI	1969	1969	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
I-129	Unknown.	Unknown.	T .00000033723000	CI	1969	1969	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 1.4410000000000	CI	1969	1969	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .03387000000000	CI	1969	1969	N			See continuation page.
Eu-154	Unknown.	Unknown.	T .00002090000000	CI	1969	1969	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .06774000000000	CI	1969	1969	N			See continuation page.
U-234	Unknown.	Unknown.	T .00001513000000	CI	1969	1969	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000032430000	CI	1969	1969	N			See continuation page.
U-236	Unknown.	Unknown.	T .00000576500000	CI	1969	1969	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00000936800000	CI	1969	1969	N			See continuation page.

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Pu-238	Unknown.	Unknown.	T .00038910000000	CI	1969	1969	N			See* continuation page.
Pu-239	Unknown.	Unknown.	T .00038910000000	CI	1969	1969	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00004108000000	CI	1969	1969	N			See continuation page.
Pu-241	Unknown.	Unknown.	T .04252000000000	CI	1969	1969	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00019460000000	CI	1969	1969	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00019460000000	CI	1969	1969	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00018020000000	CI	1969	1969	N			See continuation page.
H-3	Unknown.	Unknown.	T 1.3120000000000	CI	1970	1970	N			See continuation page.
C-14	Unknown.	Unknown.	T .17600000000000	CI	1970	1970	N			See continuation page.

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If not, mark N and give the minimum value and maximum value.
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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Fe-55	Unknown.	Unknown.	T 30.400000000000	CI	1970	1970	N			See continuation page.
Ni-59	Unknown.	Unknown.	T .00911900000000	CI	1970	1970	N			See continuation page.
Ni-63	Unknown.	Unknown.	T 5.1200000000000	CI	1970	1970	N			See continuation page.
Co-60	Unknown.	Unknown.	T 10.720000000000	CI	1970	1970	N			See continuation page.
Sr-90	Unknown.	Unknown.	T .01472000000000	CI	1970	1970	N			See continuation page.
Tc-99	Unknown.	Unknown.	T .00288000000000	CI	1970	1970	N			See continuation page.
I-129	Unknown.	Unknown.	T .00000074871000	CI	1970	1970	N			See continuation page.
Cs-137	Unknown.	Unknown.	T 3.2000000000000	CI	1970	1970	N			See continuation page.
Ce-144	Unknown.	Unknown.	T .07519000000000	CI	1970	1970	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error).

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-154	Unknown.	Unknown.	T .00004640000000	CI	1970	1970	N			See continuation page.
Eu-155	Unknown.	Unknown.	T .15040000000000	CI	1970	1970	N			See continuation page.
U-234	Unknown.	Unknown.	T .00003360000000	CI	1970	1970	N			See continuation page.
U-235	Unknown.	Unknown.	T .00000071990000	CI	1970	1970	N			See continuation page.
U-236	Unknown.	Unknown.	T .00001280000000	CI	1970	1970	N			See continuation page.
Np-237	Unknown.	Unknown.	T .00002080000000	CI	1970	1970	N			See continuation page.
Pu-238	Unknown.	Unknown.	T .00086390000000	CI	1970	1970	N			See continuation page.
Pu-239	Unknown.	Unknown.	T .00086390000000	CI	1970	1970	N			See continuation page.
Pu-240	Unknown.	Unknown.	T .00009119000000	CI	1970	1970	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error).

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-241	Unknown.	Unknown.	T .09439000000000	CI	1970	1970	N			See continuation page.
Am-241	Unknown.	Unknown.	T .00043200000000	CI	1970	1970	N			See continuation page.
Cm-242	Unknown.	Unknown.	T .00043200000000	CI	1970	1970	N			See continuation page.
Cm-244	Unknown.	Unknown.	T .00040000000000	CI	1970	1970	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error).

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-603-18H

1. Type of source of information:
(check box)

[X] RWMIS [ ] other database
[ ] sample analysis data
[ ] operating records [X] interview
[ ] expert judgment [ ] reports
[ ] other

2. Details concerning source (names, report no., dates, etc.)
Interviewees wish to remain anonymous.

3. Do the estimates of contaminant quantities in Part C and D represent:
[X] best estimate
[ ] worst case
[ ] other

4. If other than best estimate, explain why:

5. Do the data conflict with RWMIS?
(Historical or Present Data Only)
[ ] no
[X] yes

6. If yes, explain why:
A portion of, or all of the measurements, were assumed to be taken using a G-M detector which only measures gamma emitters; beta emitters have been added to the RWMIS activity based on scaling factors. Therefore, the total activity will be greater than that in RWMIS.

7. Major unknowns in inventories of contaminants:
MAP and MFP radionuclides were unidentified.

8. Key assumptions used to deal with the unknowns:
MAP radionuclides were chosen based on the cross sections and half lives. MFP radionuclides were chosen based on their fissionable product and half lives. On part D, no G-M counter correction is needed to entries for which upper and lower bounds are given. The presence of such bounds indicates that the estimate was based on weight, laboratory analysis, spectrometry, and/or mathematical calculations. The G-M counter correction is needed for entries for which no bounds are given, because such estimates were originally made using the G-M counter method.

Continuation of Part D Column or Question Number or Title Uncertainty basis.

A Geiger-Mueller counter was probably used to measure this item. Therefore, the true uncertainty is not known.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 201

1. Preparer: Amaro, C.

2. Date prepared: 08/30/93

3. Generator: TRA
(area or contractor - use code from attached list)

4. Particular facility: 603
(building number - use code from attached list)

5. Number of waste stream from this facility:
19H

6. Waste stream:
Concrete, metals and wood.

7. Type of radioactive waste (check box):
[ ] TRU or suspect TRU
[X] LLW
[ ] non-radioactive

8. Actual years disposed of at SDA:
Starting year 1975 Ending year 1981

9. Waste stream volume:
Amount 1685.6200 Units Cubic feet.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):

1. General physical form (see attached list)
Concrete, brick, and asphalt.
[X] other (specify)
10.

2. Details on physical form(particularly confinement related)
Waste is 50% concrete, 30% metals, 20% wood and miscellaneous materials.

3. Chemical form:
Exact form is unknown.

4. Inner packaging: [ ] plastic bag [X] plastic liner
[ ] metal liner [ ] none [ ] other (specify)

5. Waste container type (see attached list)
Cardboard box*.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BXW.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed. to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
None.										

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Solid.	Unknown.	T .06499000000000	CI	1975	1975	N			See continuation page.
C-14	Solid.	Unknown.	T .00871800000000	CI	1975	1975	N			See continuation page.
Fe-55	Solid.	Unknown.	T 1.5060000000000	CI	1975	1975	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00045180000000	CI	1975	1975	N			See continuation page.
Ni-63	Solid.	Unknown.	T .25360000000000	CI	1975	1975	N			See continuation page.
Co-60	Solid.	Unknown.	T .53100000000000	CI	1975	1975	N			See continuation page.
Sr-90	Solid.	Unknown.	T .00072920000000	CI	1975	1975	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00014270000000	CI	1975	1975	N			See continuation page.
I-129	Solid.	Unknown.	T .00000003709000	CI	1975	1975	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Solid.	Unknown.	T .15850000000000	CI	1975	1975	N			See continuation page.
Ce-144	Solid.	Unknown.	T .00372500000000	CI	1975	1975	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00000229800000	CI	1975	1975	N			See continuation page.
Eu-155	Solid.	Unknown.	T .00745000000000	CI	1975	1975	N			See continuation page.
U-234	Solid.	Unknown.	T .00000166400000	CI	1975	1975	N			See continuation page.
U-235	Solid.	Unknown.	T .00000003570000	CI	1975	1975	N			See continuation page.
U-236	Solid.	Unknown.	T .00000063410000	CI	1975	1975	N			See continuation page.
Np-237	Solid.	Unknown.	T .00000103000000	CI	1975	1975	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00004280000000	CI	1975	1975	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Solid.	Unknown.	T .00004280000000	CI	1975	1975	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00000451800000	CI	1975	1975	N			See continuation page.
Pu-241	Solid.	Unknown.	T .00467600000000	CI	1975	1975	N			See continuation page.
Am-241	Solid.	Unknown.	T .00002140000000	CI	1975	1975	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00002140000000	CI	1975	1975	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00001981000000	CI	1975	1975	N			See continuation page.
Co-58	Solid.	Unknown.	T .05000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Co-60	Solid.	Unknown.	T .55000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Cr-51	Solid.	Unknown.	T .20000000000000	CI	1975	1975	N	-20%	+20%	See comment below.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-134	Solid.	Unknown.	T .13000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Cs-137	Solid.	Unknown.	T .08000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Fe-59	Solid.	Unknown.	T .03000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Hf-181	Solid.	Unknown.	T .05000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
I-131	Solid.	Unknown.	T .01000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
La-140	Solid.	Unknown.	T .03000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Mn-54	Solid.	Unknown.	T .67000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Nb-95	Solid.	Unknown.	T .02000000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Zr-95	Solid.	Unknown.	T .01000000000000	CI	1975	1975	N	-20%	+20%	See comment below.

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Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Solid.	Unknown.	T 1.4330000000000	CI	1976	1976	N			See continuation page.
C-14	Solid.	Unknown.	T .19230000000000	CI	1976	1976	N			See continuation page.
Fe-55	Solid.	Unknown.	T 33.210000000000	CI	1976	1976	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00996300000000	CI	1976	1976	N			See continuation page.
Ni-63	Solid.	Unknown.	T 5.5930000000000	CI	1976	1976	N			See continuation page.
Co-60	Solid.	Unknown.	T 11.710000000000	CI	1976	1976	N			See continuation page.
Sr-90	Solid.	Unknown.	T .01608000000000	CI	1976	1976	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00314600000000	CI	1976	1976	N			See continuation page.
I-129	Solid.	Unknown.	T .00000081801000	CI	1976	1976	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Solid.	Unknown.	T 3.4960000000000	CI	1976	1976	N			See continuation page.
Ce-144	Solid.	Unknown.	T .08215000000000	CI	1976	1976	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00005069000000	CI	1976	1976	N			See continuation page.
Eu-155	Solid.	Unknown.	T .16430000000000	CI	1976	1976	N			See continuation page.
U-234	Solid.	Unknown.	T .00003671000000	CI	1976	1976	N			See continuation page.
U-235	Solid.	Unknown.	T .00000078660000	CI	1976	1976	N			See continuation page.
U-236	Solid.	Unknown.	T .00001398000000	CI	1976	1976	N			See continuation page.
Np-237	Solid.	Unknown.	T .00002272000000	CI	1976	1976	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00094390000000	CI	1976	1976	N			See continuation page.

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Pu-239	Solid.	Unknown.	T .00094390000000	CI	1976	1976	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00009963000000	CI	1976	1976	N			See continuation page.
Pu-241	Solid.	Unknown.	T .10310000000000	CI	1976	1976	N			See continuation page.
Am-241	Solid.	Unknown.	T .00047190000000	CI	1976	1976	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00047190000000	CI	1976	1976	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00043700000000	CI	1976	1976	N			See continuation page.
H-3	Solid.	Unknown.	T 1.9440000000000	CI	1977	1977	N			See continuation page.
C-14	Solid.	Unknown.	T .26070000000000	CI	1977	1977	N			See continuation page.
Fe-55	Solid.	Unknown.	T 45.030000000000	CI	1977	1977	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
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Additional information or explanations (indicate pertinent contaminant)
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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-59	Solid.	Unknown.	T .01351000000000	CI	1977	1977	N			See continuation page.
Ni-63	Solid.	Unknown.	T 7.5850000000000	CI	1977	1977	N			See continuation page.
Co-60	Solid.	Unknown.	T 15.880000000000	CI	1977	1977	N			See continuation page.
Sr-90	Solid.	Unknown.	T .02181000000000	CI	1977	1977	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00426600000000	CI	1977	1977	N			See continuation page.
I-129	Solid.	Unknown.	T .00000110970000	CI	1977	1977	N			See continuation page.
Cs-137	Solid.	Unknown.	T 4.7410000000000	CI	1977	1977	N			See continuation page.
Ce-144	Solid.	Unknown.	T .11140000000000	CI	1977	1977	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00006874000000	CI	1977	1977	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-155	Solid.	Unknown.	T .11180000000000	CI	1977	1977	N			See continuation page.
U-234	Solid.	Unknown.	T .00004978000000	CI	1977	1977	N			See continuation page.
U-235	Solid.	Unknown.	T .00000106700000	CI	1977	1977	N			See continuation page.
U-236	Solid.	Unknown.	T .00001869000000	CI	1977	1977	N			See continuation page.
Np-237	Solid.	Unknown.	T .00003081000000	CI	1977	1977	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00128000000000	CI	1977	1977	N			See continuation page.
Pu-239	Solid.	Unknown.	T .00128000000000	CI	1977	1977	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00013510000000	CI	1977	1977	N			See continuation page.
Pu-241	Solid.	Unknown.	T .13980000000000	CI	1977	1977	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Am-241	Solid.	Unknown.	T .00064000000000	CI	1977	1977	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00064000000000	CI	1977	1977	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00059260000000	CI	1977	1977	N			See continuation page.
Cs-134	Solid.	Unknown.	T .00169490000000	CI	1978	1978	N	-20%	+20%	See comment below.
Cs-137	Solid.	Unknown.	T .02000000000000	CI	1978	1978	N	-20%	+20%	See continuation page.
H-3	Solid.	Unknown.	T .34880000000000	CI	1978	1978	N			See continuation page.
C-14	Solid.	Unknown.	T .04679000000000	CI	1978	1978	N			See continuation page.
Fe-55	Solid.	Unknown.	T 8.0820000000000	CI	1978	1978	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00242500000000	CI	1978	1978	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-63	Solid.	Unknown.	T 1.3610000000000	CI	1978	1978	N			See continuation page.
Co-60	Solid.	Unknown.	T 2.8500000000000	CI	1978	1978	N			See continuation page.
Sr-90	Solid.	Unknown.	T .00391300000000	CI	1978	1978	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00076570000000	CI	1978	1978	N			See continuation page.
I-129	Solid.	Unknown.	T .00000019908000	CI	1978	1978	N			See continuation page.
Cs-137	Solid.	Unknown.	T .85070000000000	CI	1978	1978	N			See continuation page.
Ce-144	Solid.	Unknown.	T .01999000000000	CI	1978	1978	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00001234000000	CI	1978	1978	N			See continuation page.
Eu-155	Solid.	Unknown.	T .03999000000000	CI	1978	1978	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
U-234	Solid.	Unknown.	T .00000893300000	CI	1978	1978	N			See continuation page.
U-235	Solid.	Unknown.	T .00000019140000	CI	1978	1978	N			See continuation page.
U-236	Solid.	Unknown.	T .00000340300000	CI	1978	1978	N			See continuation page.
Np-237	Solid.	Unknown.	T .00000553000000	CI	1978	1978	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00022970000000	CI	1978	1978	N			See continuation page.
Pu-239	Solid.	Unknown.	T .00022970000000	CI	1978	1978	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00002425000000	CI	1978	1978	N			See continuation page.
Pu-241	Solid.	Unknown.	T .02510000000000	CI	1978	1978	N			See continuation page.
Am-241	Solid.	Unknown.	T .00011490000000	CI	1978	1978	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cm-242	Solid.	Unknown.	T .00011490000000	CI	1978	1978	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00010630000000	CI	1978	1978	N			See continuation page.
H-3	Solid.	Unknown.	T 1.0110000000000	CI	1979	1979	N			See continuation page.
C-14	Solid.	Unknown.	T .13560000000000	CI	1979	1979	N			See continuation page.
Fe-55	Solid.	Unknown.	T 23.430000000000	CI	1979	1979	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00702900000000	CI	1979	1979	N			See continuation page.
Ni-63	Solid.	Unknown.	T 3.9460000000000	CI	1979	1979	N			See continuation page.
Co-60	Solid.	Unknown.	T 8.2620000000000	CI	1979	1979	N			See continuation page.
Sr-90	Solid.	Unknown.	T .01134000000000	CI	1979	1979	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Tc-99	Solid.	Unknown.	T .00222000000000	CI	1979	1979	N			See continuation page.
I-129	Solid.	Unknown.	T .00000057708000	CI	1979	1979	N			See continuation page.
Cs-137	Solid.	Unknown.	T 2.4660000000000	CI	1979	1979	N			See continuation page.
Ce-144	Solid.	Unknown.	T .05795000000000	CI	1979	1979	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00003576000000	CI	1979	1979	N			See continuation page.
Eu-155	Solid.	Unknown.	T .11590000000000	CI	1979	1979	N			See continuation page.
U-234	Solid.	Unknown.	T .00002589000000	CI	1979	1979	N			See continuation page.
U-235	Solid.	Unknown.	T .00000055490000	CI	1979	1979	N			See continuation page.
U-236	Solid.	Unknown.	T .00000986500000	CI	1979	1979	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Np-237	Solid.	Unknown.	T .00001603000000	CI	1979	1979	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00066590000000	CI	1979	1979	N			See continuation page.
Pu-239	Solid.	Unknown.	T .00066590000000	CI	1979	1979	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00007029000000	CI	1979	1979	N			See continuation page.
Pu-241	Solid.	Unknown.	T .07175000000000	CI	1979	1979	N			See continuation page.
Am-241	Solid.	Unknown.	T .00033290000000	CI	1979	1979	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00033290000000	CI	1979	1979	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00030830000000	CI	1979	1979	N			See continuation page.
Th-232	Solid.	Unknown.	T .00018010000000	CI	1979	1979	N	-20%	+20%	See comment below.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Solid.	Unknown.	T .80020000000000	CI	1980	1980	N			See continuation page.
C-14	Solid.	Unknown.	T .10730000000000	CI	1980	1980	N			See continuation page.
Fe-55	Solid.	Unknown.	T 18.540000000000	CI	1980	1980	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00556200000000	CI	1980	1980	N			See continuation page.
Ni-63	Solid.	Unknown.	T 3.1230000000000	CI	1980	1980	N			See continuation page.
Co-60	Solid.	Unknown.	T 6.5380000000000	CI	1980	1980	N			See continuation page.
Sr-90	Solid.	Unknown.	T .00897800000000	CI	1980	1980	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00175700000000	CI	1980	1980	N			See continuation page.
I-129	Solid.	Unknown.	T .00000045666000	CI	1980	1980	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Solid.	Unknown.	T 1.9520000000000	CI	1980	1980	N			See continuation page.
Ce-144	Solid.	Unknown.	T .04587000000000	CI	1980	1980	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00002830000000	CI	1980	1980	N			See continuation page.
Eu-155	Solid.	Unknown.	T .09173000000000	CI	1980	1980	N			See continuation page.
U-234	Solid.	Unknown.	T .00002049000000	CI	1980	1980	N			See continuation page.
U-235	Solid.	Unknown.	T .00000043910000	CI	1980	1980	N			See continuation page.
U-236	Solid.	Unknown.	T .00000780700000	CI	1980	1980	N			See continuation page.
Np-237	Solid.	Unknown.	T .00001269000000	CI	1980	1980	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00052700000000	CI	1980	1980	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Solid.	Unknown.	T .00052700000000	CI	1980	1980	N			See continuation page.
Pu-240	Solid.	Unknown.	T .00005562000000	CI	1980	1980	N			See continuation page.
Pu-241	Solid.	Unknown.	T .05758000000000	CI	1980	1980	N			See continuation page.
Am-241	Solid.	Unknown.	T .00026350000000	CI	1980	1980	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00026350000000	CI	1980	1980	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00014400000000	CI	1980	1980	N			See continuation page.
U-235	Solid.	Unknown.	T .00005992000000	CI	1980	1980	N	-20%	+20%	See comment below.
U-238	Solid.	Unknown.	T .00006460000000	CI	1980	1980	N	-20%	+20%	See comment below.
H-3	Solid.	Unknown.	T .57860000000000	CI	1981	1981	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
C-14	Solid.	Unknown.	T .07762000000000	CI	1981	1981	N			See continuation page.
Fe-55	Solid.	Unknown.	T 13.410000000000	CI	1981	1981	N			See continuation page.
Ni-59	Solid.	Unknown.	T .00402200000000	CI	1981	1981	N			See continuation page.
Ni-63	Solid.	Unknown.	T 2.2580000000000	CI	1981	1981	N			See continuation page.
Co-60	Solid.	Unknown.	T 4.7280000000000	CI	1981	1981	N			See continuation page.
Sr-90	Solid.	Unknown.	T .00649200000000	CI	1981	1981	N			See continuation page.
Tc-99	Solid.	Unknown.	T .00127000000000	CI	1981	1981	N			See continuation page.
I-129	Solid.	Unknown.	T .00000033021000	CI	1981	1981	N			See continuation page.
Cs-137	Solid.	Unknown.	T 1.4110000000000	CI	1981	1981	N			See continuation page.

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Ce-144	Solid.	Unknown.	T .03316000000000	CI	1981	1981	N			See continuation page.
Eu-154	Solid.	Unknown.	T .00002046000000	CI	1981	1981	N			See continuation page.
Eu-155	Solid.	Unknown.	T .06633000000000	CI	1981	1981	N			See continuation page.
U-234	Solid.	Unknown.	T .00001482000000	CI	1981	1981	N			See continuation page.
U-235	Solid.	Unknown.	T .00000031750000	CI	1981	1981	N			See continuation page.
U-236	Solid.	Unknown.	T .00000564500000	CI	1981	1981	N			See continuation page.
Np-237	Solid.	Unknown.	T .00000917300000	CI	1981	1981	N			See continuation page.
Pu-238	Solid.	Unknown.	T .00038100000000	CI	1981	1981	N			See continuation page.
Pu-239	Solid.	Unknown.	T .00038100000000	CI	1981	1981	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-240	Solid.	Unknown.	T .00004022000000	CI	1981	1981	N			See continuation page.
Pu-241	Solid.	Unknown.	T .04163000000000	CI	1981	1981	N			See continuation page.
Am-241	Solid.	Unknown.	T .00019050000000	CI	1981	1981	N			See continuation page.
Cm-242	Solid.	Unknown.	T .00019050000000	CI	1981	1981	N			See continuation page.
Cm-244	Solid.	Unknown.	T .00017640000000	CI	1981	1981	N			See continuation page.

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1. Type of source of information:
(check box)

[X] RWMIS [ ] other database
[ ] sample analysis data
[ ] operating records [X] interview
[ ] expert judgment [ ] reports
[ ] other

2. Details concerning source (names, report no., dates, etc.)
Interviewees wish to remain anonymous.

3. Do the estimates of contaminant quantities in Part C and D represent:
[X] best estimate
[ ] worst case
[ ] other

4. If other than best estimate, explain why:

5. Do the data conflict with RWMIS?
(Historical or Present Data Only)
[ ] no
[X] yes

6. If yes, explain why:
A portion of, or all of the measurements, were assumed to be taken using a G-M detector which only measures gamma emitters; beta emitters have been added to the RWMIS activity based on scaling factors. Therefore, the total activity will be greater than that in RWMIS.

7. Major unknowns in inventories of contaminants:
MAP and MFP radionuclides were unidentified.

8. Key assumptions used to deal with the unknowns:
MAP radionuclides were chosen based on their cross sections and half lives. MFP radionuclides were chosen based on their fissionable products and half lives. On part D, no G-M counter correction is needed to entries for which upper and lower bounds are given. The presence of such bounds indicates that the estimate was based on weight, laboratory analysis, spectrometry, and/or mathematical calculations. The G-M counter correction is needed for entries for which no bounds are given, because such estimates were originally made using the G-M counter method.

Continuation of Part D Column or Question Number or Title Uncertainty basis.

The method of analysis is not known. Radionuclide information was probably obtained using one or more of the following instruments: a Geiger-Mueller counter, a NaI detector, and a Germanium detector. Therefore, the true uncertainty is not known.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 200

1. Preparer: Amaro, C.

2. Date prepared: 08/28/93

3. Generator: TRA
(area or contractor - use code from attached list)

4. Particular facility: 603
(building number - use code from attached list)

5. Number of waste stream from this facility:
20H

6. Waste stream:
Wood.

7. Type of radioactive waste (check box):
[ ] TRU or suspect TRU
[X] LLW
[ ] non-radioactive

8. Actual years disposed of at SDA:
Starting year 1960 Ending year 1977

9. Waste stream volume:
Amount 1051.0130 Units Cubic feet.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. Also 642, 670 and 632.

1. General physical form (see attached list)
Combustibles (paper, cloth, wood, etc.).
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Wood.

3. Chemical form:
Unknown.

4. Inner packaging: [ ] plastic bag [X] plastic liner
[ ] metal liner [ ] none [ ] other (specify)

5. Waste container type (see attached list)
Cardboard box*.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
4. Because of multiple containers, some were probably lined with plastic.
5. BLM, "Other", and BXW. "Other" cannot be defined by the preparer of this report.

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Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
None.										

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If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Particulate.	Unknown.	T 1.4640000000000	CI	1960	1960	N			See continuation page.
C-14	Particulate.	Unknown.	T .19630000000000	CI	1960	1960	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 33.910000000000	CI	1960	1960	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .01017000000000	CI	1960	1960	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 5.7120000000000	CI	1960	1960	N			See continuation page.
Co-60	Particulate.	Unknown.	T 11.960000000000	CI	1960	1960	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .01642000000000	CI	1960	1960	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00321300000000	CI	1960	1960	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000083538000	CI	1960	1960	N			See continuation page.

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