ORISE TABLE 1

GROSS ALPHA AND BETA ACTIVITIES
IN A WATER SAMPLE
BY LOW BACKGROUND ALPHA AND BETA COUNTING
AP1, REVISION 13; CP3, REVISION 1
ER SQUIBB
NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Concentrations (pCi/L)	
		Gross Alpha[a]	Gross Beta[b]
834W001	Building 124 Tank #1	-0.35 ± 0.75[c]	51.1 ± 5.3

[a]The average MDC for gross alpha for a 100 minute count using a 0.25 L sample is 1.7 pCi/L.

[b]The average MDC for gross beta for a 100 minute count using a 0.25 L sample is 2.2 pCi/L.

[c]Uncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 2

CONCENTRATION OF TRITIUM
IN A WATER SAMPLE
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 12; CP4, REVISION 1
ER SQUIBB
NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Concentration (pCi/L)
		Tritium[a]
834W001	Building 124 Tank #1	370 ± 220[b]

[a]The average MDC for tritium for a 60 minute count using a 0.01 L sample is 370pCi/L.

[b]Uncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 3

CONCENTRATION OF CARBON -14
IN A WATER SAMPLE
BY LIQUID SCINTILLATION ANALYSIS
NON-ROUTINE AP9, REVISION 0; CP4, REVISION1
ER SQUIBB
NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Concentration (pCi/L)
		Carbon-14[a]
834W001	Building 124 Tank #1	-5 ± 18[b]

[a]The average MDC for tritium for a 60 minute count using a 0.01 L sample is 30pCi/L.

[b]Uncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 4

CONCENTRATIONS OF SELECTED
GAMMA EMITTING RADIONUCLIDES
IN A WATER SAMPLE
BY GAMMA SPECTROSCOPY CP1, REVISION 11
ER SQUIBB
NORTH BRUNSWICK, NEW JERSEY

ESSAP Sample ID	NRC Region I Sample ID	Radionuclide Concentrations[a] (pCi/L)		
		Co-57	Cs-137	Co-60
834W001	Building 124 Tank #1	16.7 ± 2.7[b]	10.4 ± 6.5	7.4 ± 3.5

[a]Typical MDCs for the isotopes in this table ranged from 3 to 7 pCi/L.

[b]Uncertainties represent the 95% confidence level, based on total propagated uncertainties.