

ORISE TABLE 1

**PERCENT SOLIDS IN SOIL SAMPLES
SP3, REVISION 0
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Percent Solids^a
840S001	#1 Soil	84.7
840S002	#2 Soil	85.7
840S003	#3 Soil	85.4
840S004	#4 Soil	81.1
840S005	#5 Soil	85.0

^aPercent solids was calculated by:

$$\text{Percent Solids} = \left(\frac{\text{dry weight}}{\text{wet weight}} \right) \times 100$$

ORISE TABLE 2

**CONCENTRATIONS OF CARBON-14
IN SOIL SAMPLES
BY LIQUID SCINTILLATION COUNTING
AP6, REVISION 12; CP4, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Carbon-14^a Concentrations (pCi/g-wet weight)
840S001	#1 Soil	-0.60 ± 0.81 ^b
840S002	#2 Soil	-0.27 ± 0.86
840S003	#3 Soil	-0.57 ± 0.75
840S004	#4 Soil	-0.07 ± 0.70
840S005	#5 Soil	-0.34 ± 0.81

^aThe average MDC for carbon-14 for a 60 minute count using ~1 g of sample is 1.4 pCi/g.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 3

**CONCENTRATION OF CARBON-14
IN A WATER SAMPLE
BY LIQUID SCINTILLATION COUNTING
NON-ROUTINE AP9, REVISION 0; CP4, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Carbon-14^a Concentration (pCi/L)
840W001	#1 Water	-2 ± 18^b

^aThe average MDC for carbon-14 for a 60 minute count using a 0.05 L sample is 30 pCi/L.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 4

**CONCENTRATIONS OF TRITIUM
IN SOIL SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP6, REVISION 12; CP4, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Tritium^a Concentrations (pCi/g-wet weight)
840S001	#1 Soil	0.3 ± 1.3^b
840S002	#2 Soil	-1.2 ± 1.5
840S003	#3 Soil	-0.5 ± 1.4
840S004	#4 Soil	-1.2 ± 1.4
840S005	#5 Soil	0.3 ± 1.4

^aThe average MDC for tritium for a 60 minute count using ~1 g of sample is 2.4 pCi/g.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 5

**CONCENTRATION OF TRITIUM
IN A WATER SAMPLE
BY LIQUID SCINTILLATION ANALYSIS
AP2, REVISION 12; CP4, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Tritium^a Concentration (pCi/L)
840W001	#1 Water	0 ^b ± 220 ^c

^aThe average MDC for tritium for a 60 minute count using a 0.01 L sample is 370 pCi/L.

^bZero value due to rounding.

^cUncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 6

**CONCENTRATIONS OF NICKEL-63
IN SOIL SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
NON-ROUTINE AP12, REVISION 2; CP4, REVISION 1
USDA - NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Ni-63 Concentrations (pCi/g-dry weight)
840S001	#1 Soil	-0.6 ± 2.2 ^b
840S002	#2 Soil	-0.7 ± 2.2
840S003	#3 Soil	2.5 ± 2.3
840S004	#4 Soil	-2.0 ± 2.2
840S005	#5 Soil	0.3 ± 2.2

^aThe average MDC for a 60 minute count using ~0.5 g sample is 3.8 pCi/g.

^bUncertainties represent the 95% confidence level, based on total propagated uncertainties.

ORISE TABLE 7

**CONCENTRATION OF NICKEL-63
IN A WATER SAMPLE
BY LIQUID SCINTILLATION ANALYSIS
NON-ROUTINE AP12, REVISION 2; CP4, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Ni-63^{a,b} Concentration (pCi/L)
840W001	#1 Water	-30 ± 20 ^c

^aThe average MDC for a 60 minute count for a 0.05 L sample is 35 pCi/L.

^bAnalysis performed on filtered portion of sample.

^cUncertainties represent the 95% confidence level, based on total propagated uncertainties.