

ORISE TABLE 1

PERCENT SOLIDS IN SOIL SAMPLES
SP3, REVISION 1
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA

ESSAP Sample ID	NRC Region I Sample ID	Percent Solids ^a
840S006	11T	62.3
840S007	12T	75.7
840S008	13B	85.6
840S009	13E	85.5
840S010	13N	84.3
840S011	13S	85.3
840S012	13T	81.3
840S013	13W	83.2
840S014	14T	77.2
840S015	15B	80.7
840S016	15E	86.6
840S017	15N	78.4
840S018	15S	83.8
840S019	15T	74.8
840S020	15W	85.0
840S021	16B	88.4
840S022	16E	84.7
840S023	16N	82.9
840S024	16S	83.9
840S025	16T	75.0
840S026	16W	81.7

^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 13; CP4, REVISION 2
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Carbon-14^a Concentrations (pCi/g-wet weight)
840S006	11T	0.21 ± 0.75 ^b
840S007	12T	-0.60 ± 0.69
840S008	13B	-0.96 ± 0.71
840S009	13E	-0.21 ± 0.71
840S010	13N	-0.26 ± 0.75
840S011	13S	-0.36 ± 0.77
840S012	13T	-0.43 ± 0.74
840S013	13W	-0.17 ± 0.61
840S014	14T	-0.25 ± 0.70
840S015	15B	0.41 ± 0.78
840S016	15E	-0.64 ± 0.63
840S017	15N	-0.13 ± 0.79
840S018	15S	0.40 ± 0.68
840S019	15T	0.25 ± 0.70
840S020	15W	0.13 ± 0.69
840S021	16B	0.05 ± 0.80
840S022	16E	0.15 ± 0.62
840S023	16N	1.09 ± 0.84
840S024	16S	0.68 ± 0.74
840S025	16T	0.78 ± 0.69
840S026	16W	1.16 ± 0.86

^aThe average MDC for carbon-14 for a 60 minute count using ~1 g of sample is 1.2 pCi/g.

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

ORISE TABLE 3

**CONCENTRATIONS OF TRITIUM
IN SOIL SAMPLES
BY LIQUID SCINTILLATION ANALYSIS
AP6, REVISION 13; CP4, REVISION 2
USDA- NATIONAL ANIMAL DISEASE CENTER
AMES, IOWA**

ESSAP Sample ID	NRC Region I Sample ID	Tritium^a Concentrations (pCi/g-wet weight)
840S006	11T	-0.6 ± 1.3 ^b
840S007	12T	0.4 ± 1.2
840S008	13B	-0.2 ± 1.2
840S009	13E	-0.2 ± 1.2
840S010	13N	-0.2 ± 1.3
840S011	13S	-0.2 ± 1.3
840S012	13T	-0.2 ± 1.3
840S013	13W	0.8 ± 1.3
840S014	14T	1.1 ± 1.5
840S015	15B	1.4 ± 1.6
840S016	15E	0.4 ± 1.3
840S017	15N	3.9 ± 1.8
840S018	15S	0.5 ± 1.4
840S019	15T	0.7 ± 1.4
840S020	15W	0.3 ± 1.3
840S021	16B	-0.2 ± 1.5
840S022	16E	0.7 ± 1.3
840S023	16N	1.1 ± 1.6
840S024	16S	0.0 ^c ± 1.4
840S025	16T	0.5 ± 1.4
840S026	16W	0.5 ± 1.1

^aThe average MDC for tritium for a 60 minute count using ~1 g of sample is 2.3 pCi/g.

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

^cZero value due to rounding.

ORISE TABLE 4

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

ESSAP Sample ID	NRC Region I Sample ID	Ni-63^a Concentrations (pCi/g-dry weight)
840S006	11T	2.1 ± 2.1 ^b
840S007	12T	3.4 ± 2.2
840S008	13B	4.8 ± 2.2
840S009	13E	4.3 ± 2.2
840S010	13N	3.9 ± 2.2
840S011	13S	1.9 ± 2.1
840S012	13T	3.3 ± 2.2
840S013	13W	1.9 ± 2.2
840S014	14T	3.6 ± 2.2
840S015	15B	4.3 ± 2.3
840S016	15E	2.8 ± 2.2
840S017	15N	1.2 ± 2.1
840S018	15S	2.8 ± 2.2
840S019	15T	2.1 ± 2.3
840S020	15W	1.4 ± 2.2
840S021	16B	0.6 ± 2.2
840S022	16E	1.0 ± 2.2
840S023	16N	1.4 ± 2.2
840S024	16S	0.7 ± 2.2
840S025	16T	-0.5 ± 2.2
840S026	16W	1.5 ± 2.3

^aThe average MDC for a 60 minute count for ~0.5 g sample is 3.6 pCi/g.

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

