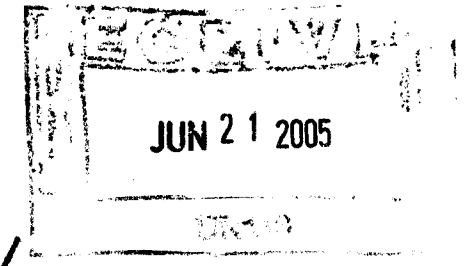
DOCKET NO.: 030-28641/
LIC. NO.: 42-23539-01AF

ORISE

OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

June 16, 2005



Mr. Robert Evans
U.S. Nuclear Regulatory Commission
Region IV: DNMS: NMLB
Suite 400
611 Ryan Plaza Drive
Arlington, TX 76011

ORIGINAL

SUBJECT: ANALYTICAL RESULTS FOR FIVE SOIL SAMPLES AND TWO SWIPE SAMPLES COLLECTED MAY 16-17, 2005 FROM EGLIN AIR FORCE BASE, FLORIDA (INSPECTION REPORT #030-28641/05-002) [RFTA NO. 05-001]

Dear Mr. Evans:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received five soil samples and two swipe samples from Eglin Air Force Base, Florida on May 18, 2005 that were collected May 16-17, 2005. The soil samples were analyzed for total uranium by gamma spectroscopy (GS) (Procedure CP1, Revision 14). The swipe samples were analyzed by gas-flow proportional counting (Procedure CP3, Revision 2). The GS data are reported in Table 1. The measured alpha Minimum Detectable Concentration (MDC) for each smear was 8.9 dpm/100cm^2 which was below the requested criterion of 9.9 dpm/100cm^2.

ESSAP's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request.

Please contact me at (865) 241-3242 or Wade Ivey at (865) 576-9184 with any questions or comments.

Sincerely,

Dale Condra

Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC/WPI:ar

Enclosure

cc: T. McLaughlin, NRC/NMSS/T-7E18
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Distribution approval and concurrence:	Initials
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ORISE TABLE 1

CONCENTRATIONS OF TOTAL URANIUM IN SOIL SAMPLES BY GAMMA SPECTROSCOPY CP1, REVISION 14 EGLIN AIR FORCE BASE EGLIN AIR FORCE BASE, FLORIDA

ESSAP Sample ID	NRC Region IV Sample ID	Radionuclide Concentrations[a] (pCi/g)			
		U-234[b]	U-235	U-238 by Th-234	Total U[c]
1660S0001	NRC05-02-01	16.3 ± 3.3[d]	0.75 ± 0.15	49.0 ± 2.4	66.0 ± 4.0
1660S0002	NRC05-02-02	37.8 ± 4.6	1.74 ± 0.21	124.0 ± 5.1	163.5 ± 6.7
1660S0003	NRC05-02-03	18.2 ± 3.0	0.84 ± 0.14	60.8 ± 4.1	79.9 ± 5.0
1660S0004	NRC05-02-04	27.1 ± 4.3	1.25 ± 0.20	88.5 ± 3.7	116.9 ± 5.6
1660S0005	NRC05-02-05	23.2 ± 3.9	1.07 ± 0.18	76.1 ± 3.5	100.4 ± 5.1

[a]The average MDC for U-235 is 0.16 pCi/g and for U-238 by Th-234 is 0.97 pCi/g.

[b]The U-234 concentration is calculated by U-235 · 21.7.

[c]Total U is the sum of U-234 + U-235 + U-238.

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