

May 4, 2007

Mr. John White
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

**SUBJECT: REVISED INTERIM REPORT FOR COMPLETED ANALYSES FOR
TWELVE SOIL SAMPLES FROM OYSTER CREEK GENERATING
STATION IN LACEY TOWNSHIP, NEW JERSEY
[INSPECTION REPORT NO. 50-219/2006-05] [RFTA NO. 06-001]**

Dear Mr. White:

The Oak Ridge Institute for Science and Education (ORISE) received 12 soil samples on December 18, 2006 associated with the Oyster Creek Generating Station in Lacey Township, New Jersey. Sample analysis was initiated based on your instruction received by phone on December 18, 2006. Sample identifications and collection data for the samples addressed in this report are presented in Table 1. The gamma spectroscopy data are provided in Table 2. The pertinent procedure reference is provided in the table.

ORISE's Quality Control (QC) requirements were met for these analyses. The QC files are available for your review upon request. Additional reports will follow after the completion of the requested analyses.

The sample receiving date of December 15, 2006 was incorrect in the letter report dated December 21, 2006. The receiving date has been corrected in this report. I apologize for any confusion or inconvenience this error may have caused.

My contact information is listed below. You may also contact Wade Ivey at 865.576.9184 with any questions or comments.

Sincerely,



Dale Condra, Manager
Laboratory

RDC:WPI:bf

Enclosures

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TABLE 1

**SAMPLE IDENTIFICATIONS
AND COLLECTION DATA
OYSTER CREEK GENERATING STATION
LACEY TOWNSHIP, NEW JERSEY**

ORISE Sample ID	NRC Region I Sample ID	Collection Date	Collection Time
1729S0001	Sample Pt. 13-9 (0-5cm)	12/14/2006	11:10
1729S0002	BNE-01 (5-30cm)	12/14/2006	10:35
1729S0003	BNE-01 (0-5cm)	12/14/2006	10:20
1729S0004	Sample Pt. 13-9 (5-30cm)	12/14/2006	11:25
1729S0005	Sample Pt. 906 SAS (0-5cm)	12/13/2006	16:48
1729S0006	Sample Pt. 906 SAS (5-30cm)	12/13/2006	17:05
1729S0007	Sample Pt. 12-4 (0-5cm)	12/13/2006	16:15
1729S0008	Sample Pt. 12-4 (5-30cm)	12/13/2006	16:30
1729S0009	Hallock East (0-5cm)	12/14/2006	13:25
1729S0010	Hallock East (5-30cm)	12/14/2006	13:30
1729S0011	Hallock West (0-5cm)	12/14/2006	13:45
1729S0012	Hallock West (5-30cm)	12/14/2006	13:50

TABLE 2

**CONCENTRATIONS OF SELECTED
GAMMA EMITTING RADIONUCLIDES
BY GAMMA SPECTROSCOPY CP1, REVISION 15
OYSTER CREEK GENERATING STATION
LACEY TOWNSHIP, NEW JERSEY**

ORISE Sample ID	NRC Region I Sample ID	Radionuclide Concentrations, TPUs, and MDCs ^a (pCi/g)			
		Co-58	Co-60	Cs-134	Cs-137
1729S0001	Sample Pt. 13-9 (0-5cm)	-0.01 ± 0.02 ^b	0.01 ± 0.02	0.01 ± 0.02	0.70 ± 0.06
1729S0002	BNE-01 (5-30cm)	0.00 ^c ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.24 ± 0.03
1729S0003	BNE-01 (0-5cm)	-0.01 ± 0.01	0.00 ± 0.01	0.01 ± 0.01	0.69 ± 0.06
1729S0004	Sample Pt. 13-9 (5-30cm)	-0.01 ± 0.01	0.01 ± 0.01	0.01 ± 0.01	0.13 ± 0.02
1729S0005	Sample Pt. 906 SAS (0-5cm)	0.00 ± 0.01	-0.01 ± 0.01	0.00 ± 0.01	1.16 ± 0.08
1729S0006	Sample Pt. 906 SAS (5-30cm)	0.00 ± 0.01	0.01 ± 0.01	0.01 ± 0.02	0.47 ± 0.04
1729S0007	Sample Pt. 12-4 (0-5cm)	0.00 ± 0.01	0.01 ± 0.01	0.00 ± 0.01	0.71 ± 0.06
1729S0008	Sample Pt. 12-4 (5-30cm)	0.00 ± 0.01	0.00 ± 0.01	0.01 ± 0.01	0.15 ± 0.02
1729S0009	Hallock East (0-5cm)	0.00 ± 0.02	-0.01 ± 0.02	0.03 ± 0.02	0.09 ± 0.03
1729S0010	Hallock East (5-30cm)	-0.01 ± 0.02	-0.02 ± 0.02	0.00 ± 0.03	0.08 ± 0.03
1729S0011	Hallock West (0-5cm)	0.00 ± 0.01	0.00 ± 0.02	0.04 ± 0.02	0.09 ± 0.02
1729S0012	Hallock West (5-30cm)	-0.01 ± 0.02	0.05 ± 0.02	0.03 ± 0.03	0.11 ± 0.04

^aThe range of MDCs for the selected radionuclides is 0.01 pCi/g to 0.04 pCi/g.

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

^cZero values are due to rounding.