

ORISE
OAK RIDGE INSTITUTE FOR SCIENCE AND EDUCATION

November 23, 2005

Mr. Gene Bonano
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Lisle, IL 60532-4351

SUBJECT: REVISED LETTER REPORT FOR ANALYTICAL RESULTS FOR FIVE SOIL SAMPLES FROM DOW CHEMICAL COMPANY IN BAY CITY, MICHIGAN [INSPECTION REPORT NO. 040-00017/05-001] (RFTA NO. 05-001)

Dear Mr. Bonano:

The Environmental Survey and Site Assessment Program (ESSAP) of the Oak Ridge Institute for Science and Education (ORISE) received five soil samples on October 5, 2005, that were collected at the Dow Chemical Company in Bay City, Michigan. The samples were analyzed by gamma spectroscopy (Procedure SP3, Revision 4 & Procedure CP1, Revision 15). The gamma spectroscopy results are presented in Table 1. This is a revision to a letter report dated October 25, 2005. The NRC sample ID column in Table 1 was changed from NRC Region IV to NRC Region III.

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

If you have any questions, please call me at (865) 241-3242 or Wade Ivey at (865) 576-9184.

Sincerely,

Wade P. Ivey for
Dale Condra
Laboratory Manager
Environmental Survey and
Site Assessment Program

RDC:WPI:db

Enclosure

cc: T. McLaughlin, NRC/NMSS/T-7E18
E. Knox-Davin, NRC/NMSS/TWFN T8A23
File 1675

E. Abelquist, ORISE/ESSAP
S. Kirk, ORISE/ESSAP

Distribution approval and concurrence:	Initials
Technical Management Team Member	<i>gbb</i>
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ORISE TABLE 1

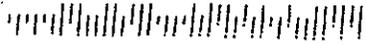
**CONCENTRATIONS OF SELECTED GAMMA EMITTING
RADIONUCLIDES IN SOIL SAMPLES
BY SAMPLE PREPARATION SP3, REVISION 4
AND GAMMA SPECTROSCOPY CP1, REVISION 15
DOW CHEMICAL COMPANY
BAY CITY, MICHIGAN**

ESSAP Sample ID	NRC Region III Sample ID	Radionuclide Concentrations (pCi/g dry weight) ^a			
		Th-230	Th-228 by Pb-212	Th-232 by Ac-228	Total Th ^b
1675S0001	NRC-1	30.5 ± 9.3 ^c	8.13 ± 0.49	8.39 ± 0.75	16.52 ± 0.90
1675S0002	NRC-2	13.5 ± 6.6	3.87 ± 0.25	3.96 ± 0.39	7.83 ± 0.46
1675S0003	NRC-3	31.0 ± 8.9	8.33 ± 0.47	8.50 ± 0.71	16.83 ± 0.85
1675S0004	NRC-4	13.8 ± 6.0	4.50 ± 0.27	4.56 ± 0.42	9.06 ± 0.50
1675S0005	NRC-5	10.2 ± 4.1	3.10 ± 0.22	3.15 ± 0.31	6.25 ± 0.38

^aThe average MDCs for these radionuclides range from 0.06 pCi/g for Th-228 by Pb-212 to 7.9 pCi/g for Th-230.

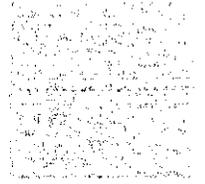
^bTotal thorium is the sum of Th-228 and Th-232.

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



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17



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