50-54
70-687

CINTICHEM, INC.
P.O. BOX 816
TUXEDO, NEW YORK 10987 (914) 351-2131

November 20, 1997

New York State Dep't Of Environmental Conservation
50 Wolfe Rd.
Albany, NY 12233
Att: Ms. Barbara Youngberg

Dear Ms. Youngberg:

The decommissioning of the Reactor and Radiochemical Production facilities and associated land areas is nearing completion. All of the planned remediation tasks and final surveys have been completed per the Decommissioning Plan. Confirmation Surveys were conducted by ORISE for the NRC.

Two tasks were added to the original task list as a result of information gained during the final surveys, namely: the characterization and remediation of the landfill and the survey and remediation of the 001 outfall. The report on the landfill, "Characterization Report for Union Carbide Spoils Area in Tuxedo, NY" was forwarded on Oct. 22, 1997.

Surveys of the 001 outfall area revealed traces of radionuclides above background levels in the riprap below the 001 pipe discharge. This area was cleaned up by moving the large rocks from the riprap and excavating soil and small rocks until residual radionuclide levels were measured to be within the acceptance criteria for soils under the D&D Plan. The results of the last samples taken from this area that meet the acceptance criteria are presented in the enclosed table. Some of the samples were taken from the surface where no remediation was required while others were removed from the surface after some soil had been removed. The results presented have not been corrected for Cs-137 enhanced background (~1.25 uCi/g) due to fallout.

These areas are ready for any confirmation surveys that you wish to perform.

Very truly yours

James J. McGovern

cc: T. Dragoun, NRC
D. Orlando, NRC
R. Aldrich, NYDOL
C. Warren
K. Magar, Tuxedo

NL10

Recaps:
NRR/DOND
NMSS/LLDP

100013

RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES
CINTICHEM, INC.
TUXEDO, NEW YORK

001 OUTFALL -

		RADIONUCLIDE CONCENTRATIONS (pCi/g)							
SAMPLE NUMBER	LOCATION	Sr-90	Ce-144	Eu-152	Cs-134	Ag-110m	Cs-137	Co-60	Ag-108m
71111A08	A	*	<0.38	<0.14	<0.07	<0.10	<0.09	<0.05	<0.06
71031A13	B	*	<0.28	<0.21	<0.08	<0.11	1.17+/-0.15	<0.12	<0.09
71031A14	C	*	<0.51	<0.18	<0.09	<0.16	3.25+/-0.22	<0.05	<0.08
71112A03	D1	*	<0.33	<0.19	<0.05	<0.03	<0.11	<0.2	<0.03
71031A18	D2	*	<0.38	<0.18	<0.06	<0.04	0.94+/-0.12	<0.10	<0.06
71112A05	D3	*	<0.3	<0.14	<0.04	<0.04	0.64+/-0.08	<0.10	<0.05
71031A21	E	*	<0.22	<0.16	<0.07	<0.04	3.08+/-0.27	0.19+/-0.07	0.19+/-0.08
71031A22	F	*	<0.26	<0.10	<0.05	<0.11	0.65+/-0.12	<0.09	<0.07
71112A04	G	*	<0.45	<0.12	<0.07	<0.14	0.29+/-0.09	<0.04	<0.03
71111A07	H	*	<0.29	<0.15	<0.06	<0.05	0.62+/-0.12	<0.05	<0.02
70925A20	I	*	<0.17	<0.16	<0.05	<0.04	1.37+/-0.13	0.17+/-0.06	<0.06
70925A19	J	*	<0.19	<0.16	<0.1	<0.10	2.29+/-0.18	0.13+/-0.06	0.13+/-0.05
70925A21	K	*	<0.39	<0.24	<0.07	<0.13	1.46+/-0.16	0.24+/-0.09	<0.08

SAMPLE NUMBER	LOCATION	Sr-90	Ce-144	Eu-152	Cs-134	Ag-110m	Cs-137	Co-60	Ag-108m
70925A18	L	*	<0.14	<0.14	<0.06	<0.11	1.44+/-0.13	<0.09	<0.04
71003A18	M	*	<0.21	<0.18	<0.17	<0.11	1.89/-0.16	<0.05	<0.09
71003A11	N	*	<0.34	<0.13	<0.06	<0.08	1.07+/-0.11	<0.10	<0.07
71003A12	O	*	<0.45	<0.17	<0.08	<0.16	0.72+/-0.11	<0.16	0.49+/-0.07
71003A13	P	*	<0.35	<0.10	<0.08	<0.07	1.76+/-0.16	<0.07	<0.11
71003A14	Q	*	<0.36	<0.17	<0.06	<0.04	0.61+/-0.09	<0.09	<0.07
71003A15	R	*	<0.38	<0.06	<0.13	<0.08	0.56+/-0.10	<0.04	0.07+/-0.03
71003A16	S	*	<0.35	<0.07	<0.05	<0.04	1.32+/-0.11	0.11+/-0.05	<0.03
71003A17	T	*	<0.33	<0.20	<0.07	<0.10	2.35+/-0.19	0.53+/-0.12	<0.14
71107A18	ROAD	*	<0.38	<0.12	<0.04	<0.07	0.39+/-0.09	<0.07	<0.03
71107A20	PILE	*	<0.47	<0.19	<0.15	<0.11	<0.08	<0.03	<0.02

* Sr-90 Composite results pernding