

NF-040
106349 01

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for
Niagara Falls Storage Site



United States Government

106349

93-547

Department of Energy
Oak Ridge Field Office

memorandum

DATE: July 20, 1993

REPLY TO

ATTN OF: EW-93:Hartman

SUBJECT: NIAGARA FALLS STORAGE SITE - TERMINATION OF SITE ENVIRONMENTAL REPORT

TO: Peter J. Gross, Director, Environmental Protection Division, SE-31

The Niagara Falls Storage Site (NFSS) is part of the Formerly Utilized Sites Remedial Action Program. Based upon our surveillance efforts at NFSS since 1982, the data for all media sampled support the conclusion that radiological exposures from the site are not significantly different from natural background radiation (see attached figures) and are below applicable Derived Concentration Guides. In addition, no discernable trends have been identified, with the exception of reduction of external gamma rates since construction of the NFSS Waste Containment Structure (WCS) in 1985.

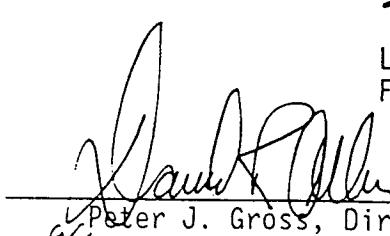
We have determined that preparation of an annual Site Environmental Report for NFSS is not necessary and should be terminated. We believe this determination is appropriate and meets the requirements of DOE Order 5400.1 (see the April 9, 1993, memorandum from Gary S. Hartman to William M. Seay for details). We plan to continue collecting and interpreting annual environmental data at an appropriate level. Distribution to the public of summaries of the results of environmental data collection would also continue as part of our ongoing community relations activities. This determination was reached in consultation with members of your staff.

Your concurrence with this determination may be indicated in the space provided below. If you have any questions, please call Gary Hartman at 576-0273.



Lester K. Price, Director
Former Sites Restoration Division

Concurrence:


Peter J. Gross, Director, ENVPD

7-20 93
Date

Attachments

cc w/attachments:

L. M. Griffin, EH-221, FORS
R. L. Natoli, EH-222, FORS
J. W. Wagoner II, EM-421, TREV
W. D. Adams, EW-90, ORO
J. G. Hart, EW-93, ORO
R. E. Kirk, EW-93, ORO
S. K. Oldham, EW-93, ORO
J. P. Donnelly, SE-312, ORO
W. M. Seay, EW-93, ORO

Niagara Falls Storage Site (NFSS)

Radon-222 in Air

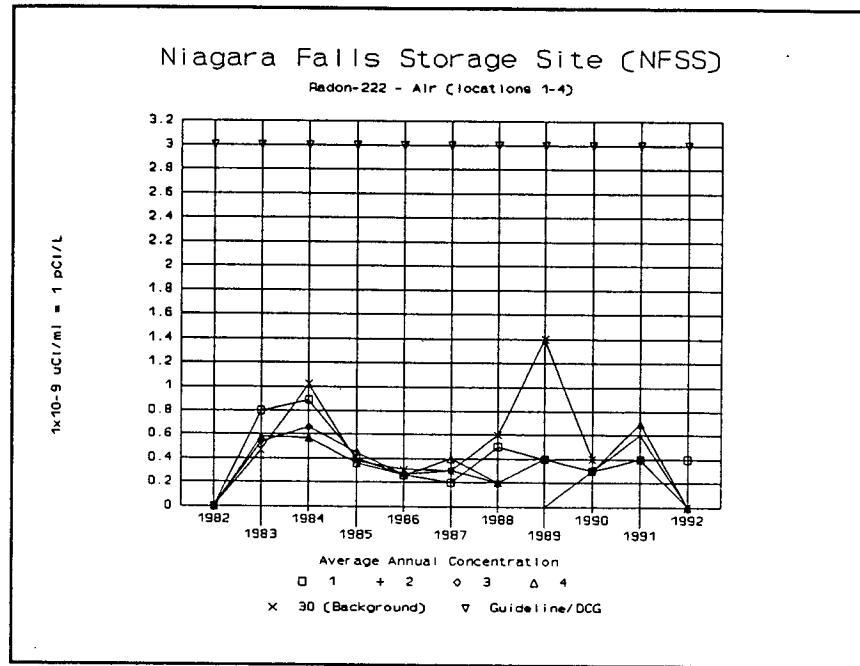


Figure 1 - Locations 1-4

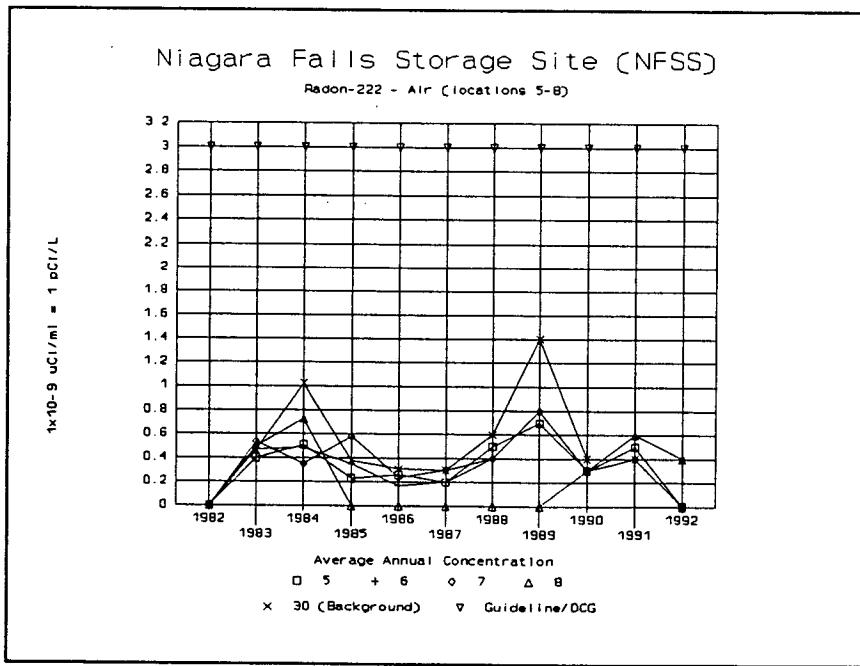


Figure 2 - Locations 5-8

Niagara Falls Storage Site (NFSS)

Radon-222 in Air (continued)

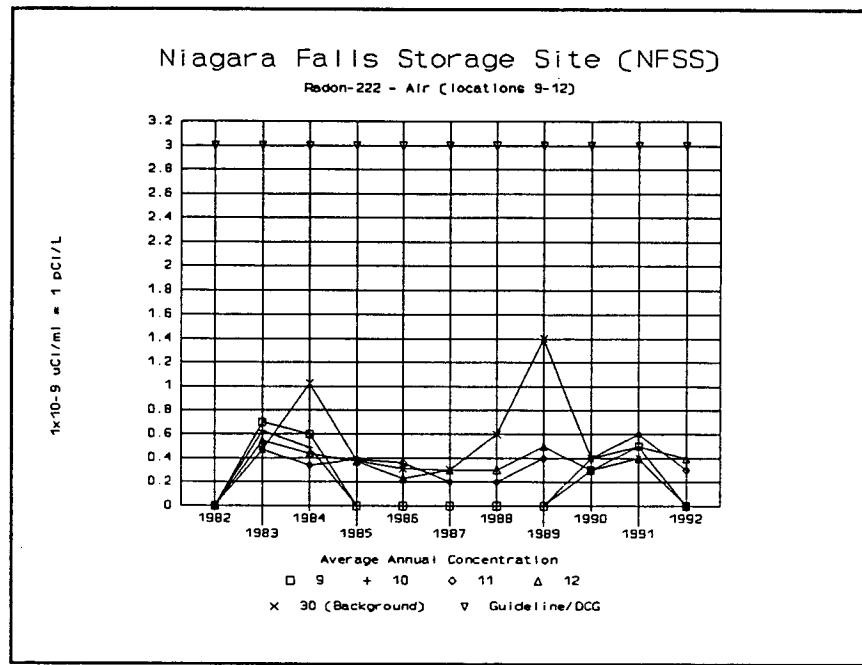


Figure 3 - Locations 9-12

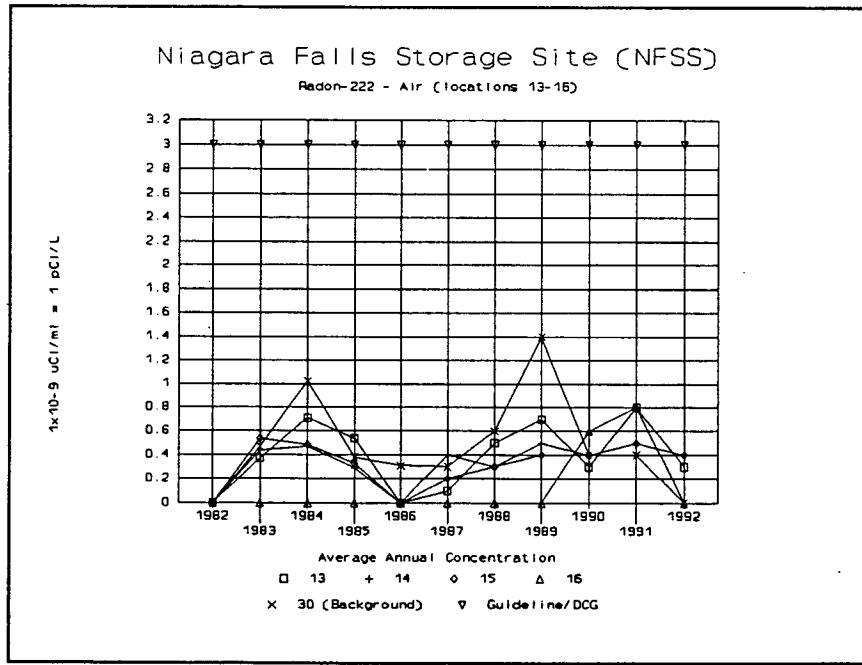


Figure 4 - Locations 13-16

Niagara Falls Storage Site (NFSS)
Radon-222 in Air (continued)

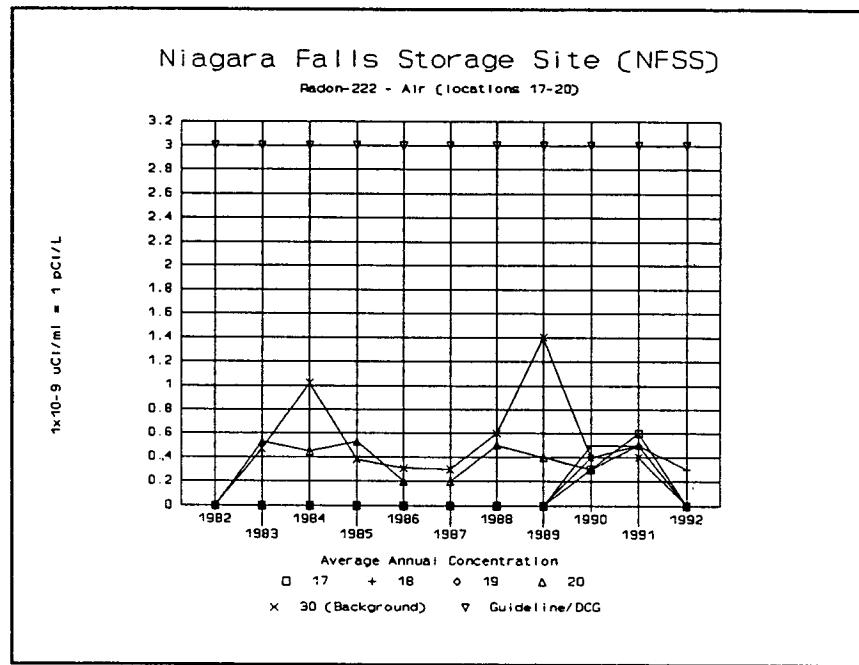


Figure 5 - Locations 17-20

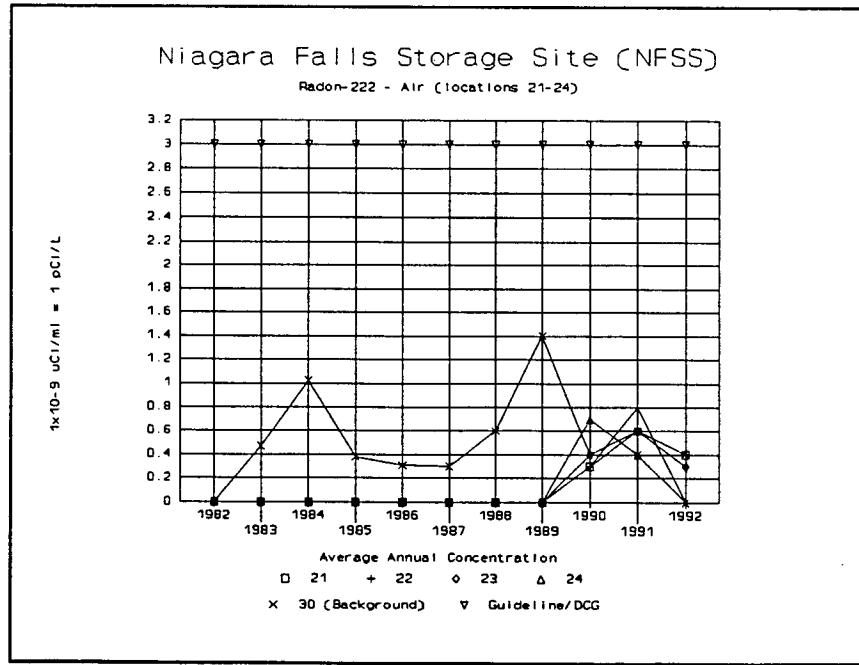


Figure 6 - Locations 21-24

Niagara Falls Storage Site (NFSS)

Radon-222 in Air (continued)

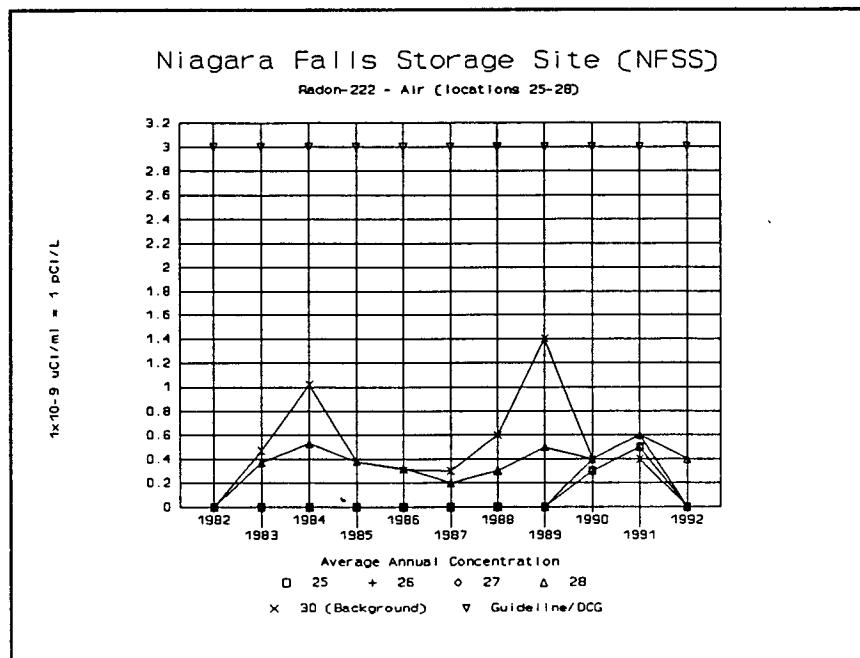


Figure 7 - Locations 25-28

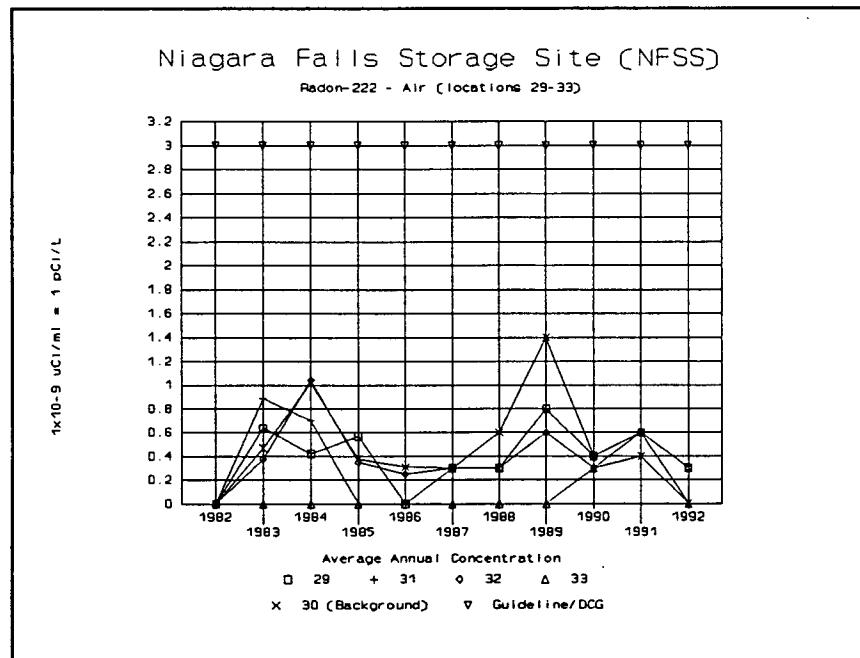


Figure 8 - Locations 29-33

Niagara Falls Storage Site (NFSS)
Radium-226 in Air (continued)

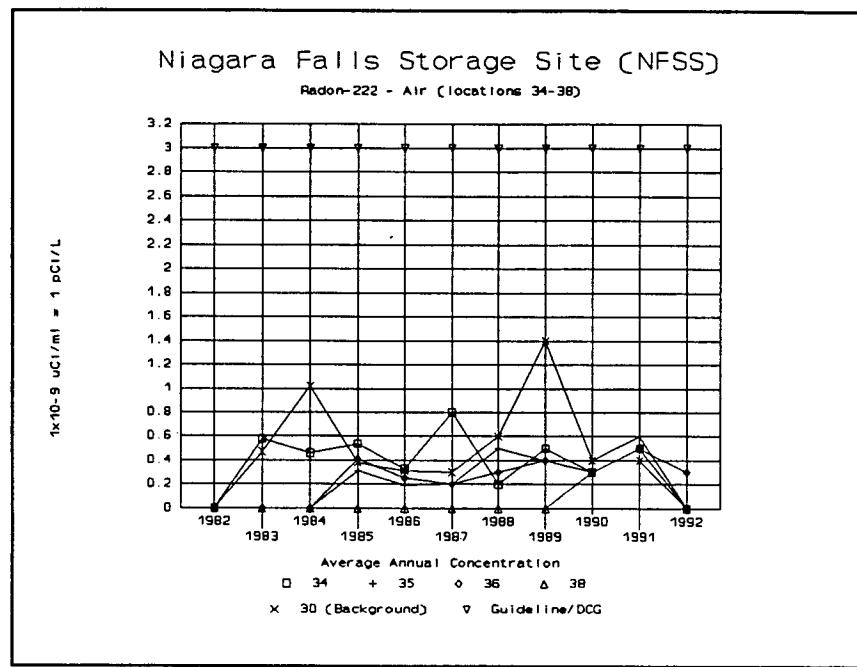


Figure 9 - Locations 34-38

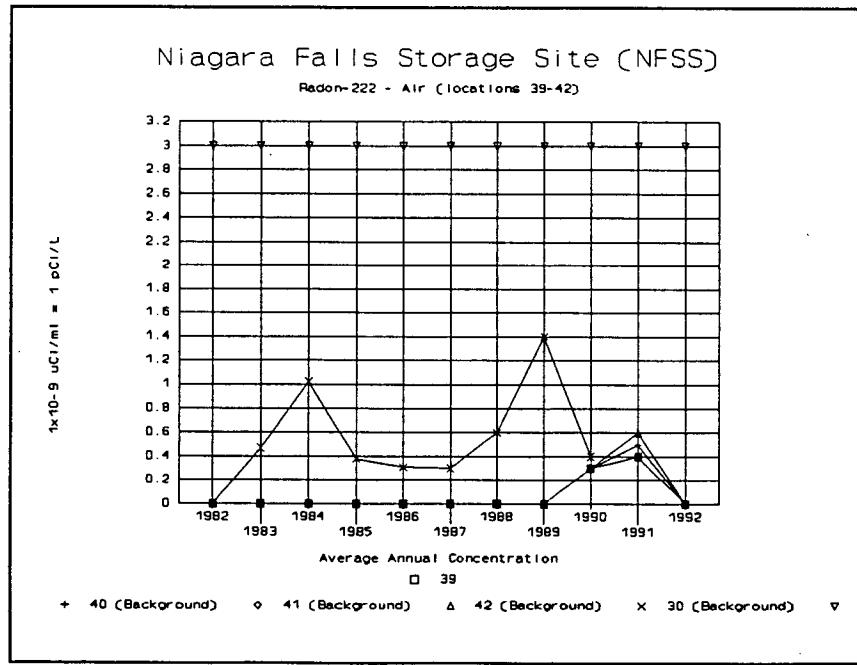


Figure 10 - Locations 39-42

Niagara Falls Storage Site (NFSS)
Radon-222 in Air (continued)

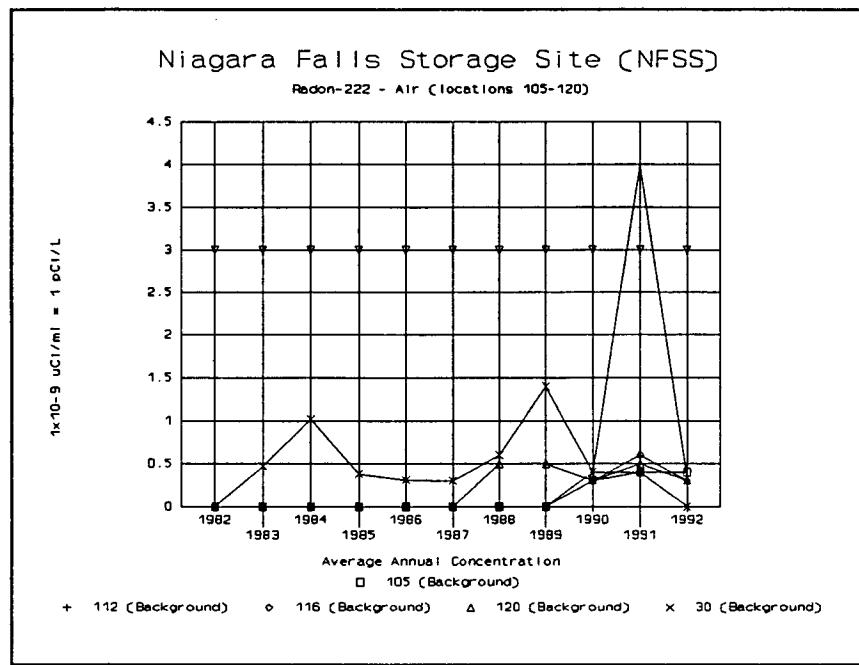


Figure 11 - Locations 105-120

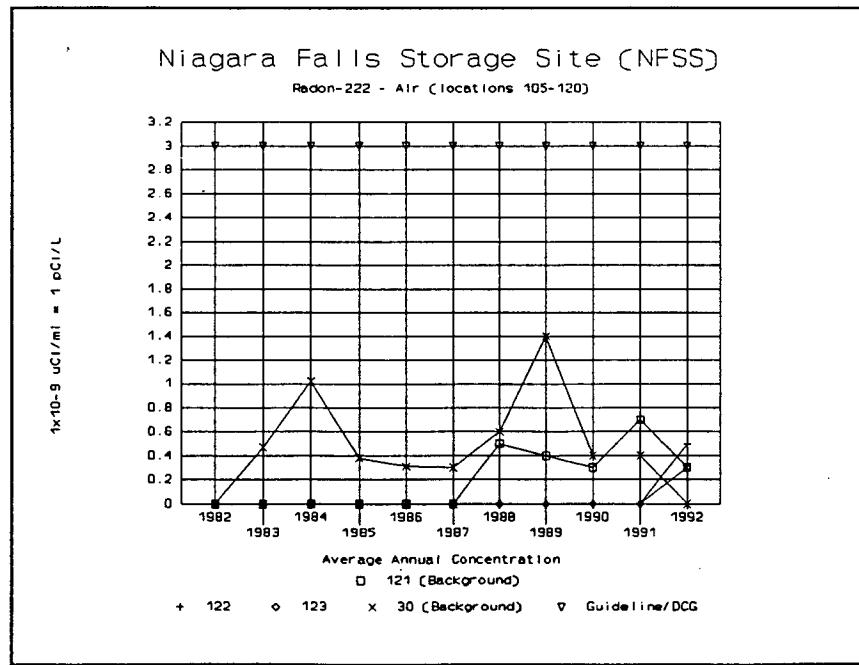


Figure 12 - Locations 121-123

Niagara Falls Storage Site (NFSS)

External Gamma

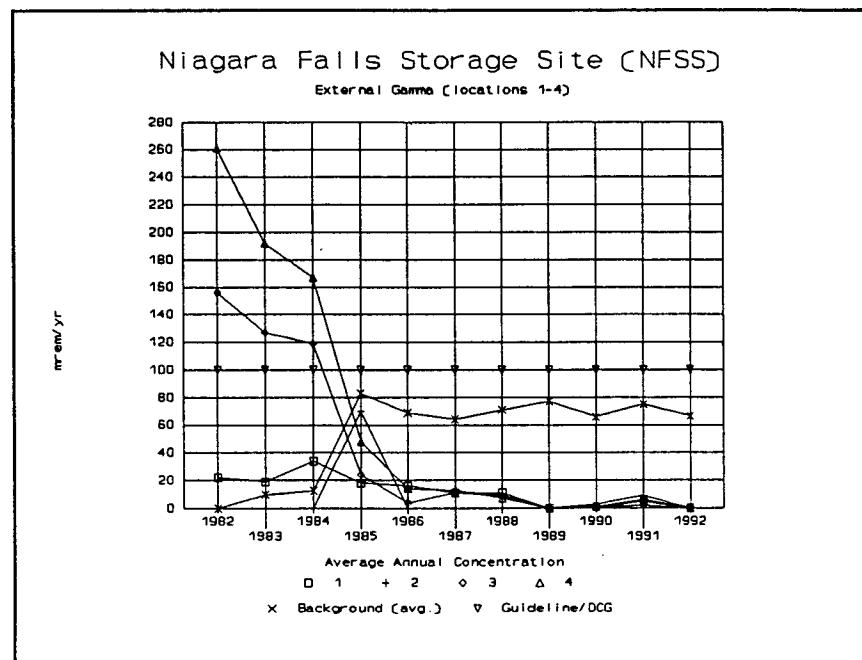


Figure 13 - Locations 1-4

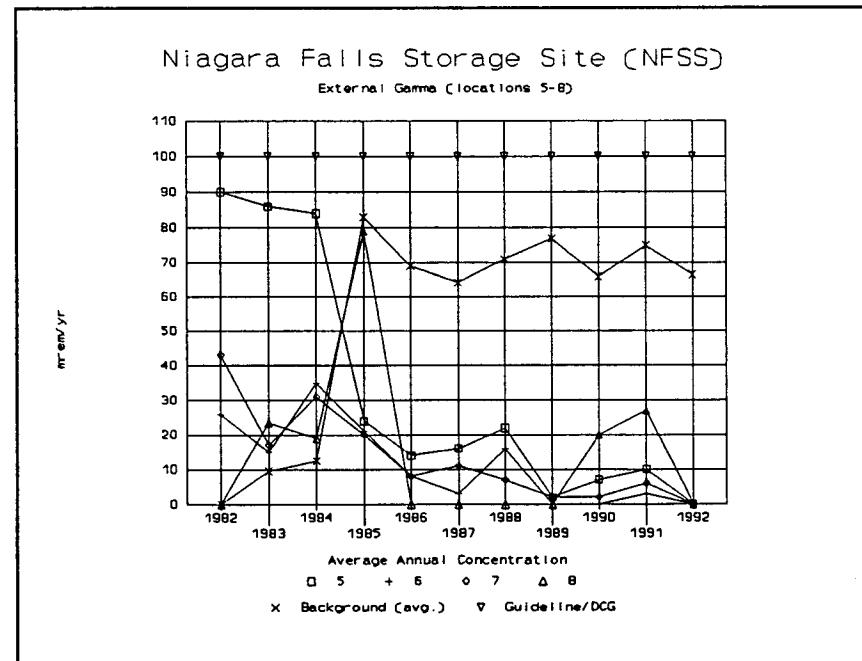


Figure 14 - Locations 5-8

Niagara Falls Storage Site (NFSS)

External Gamma (continued)

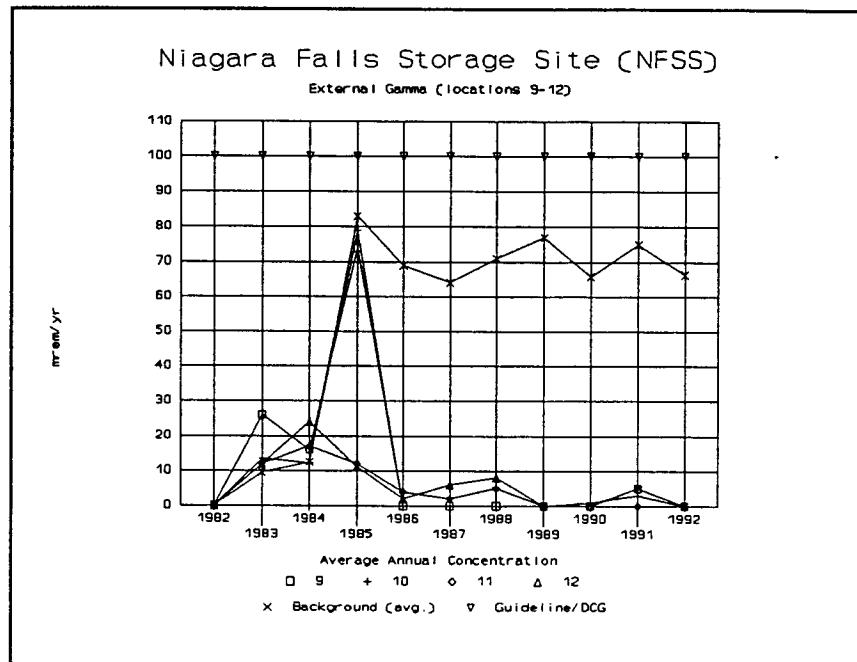


Figure 15 - Locations 9-12

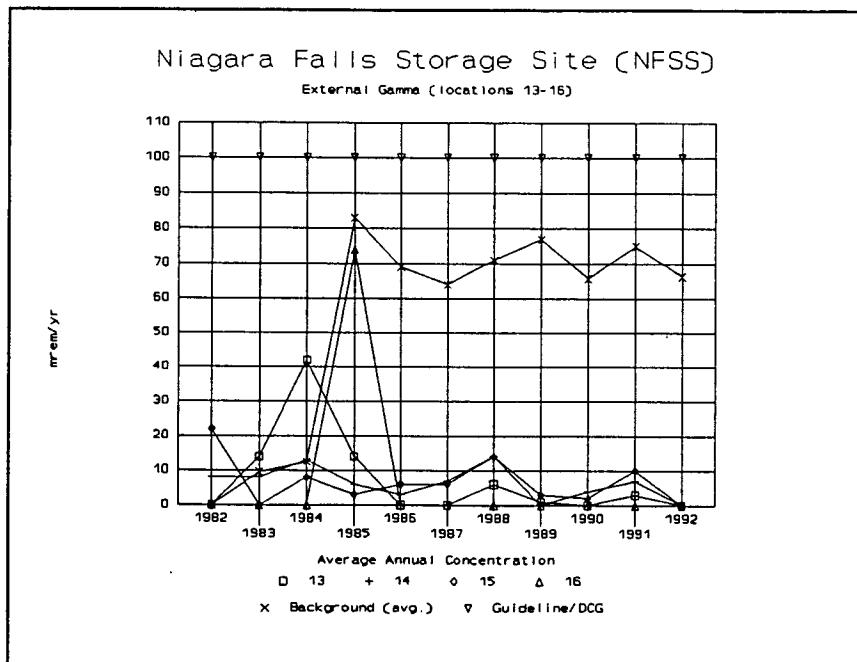


Figure 16 - Locations 13-16

Niagara Falls Storage Site (NFSS)

External Gamma (continued)

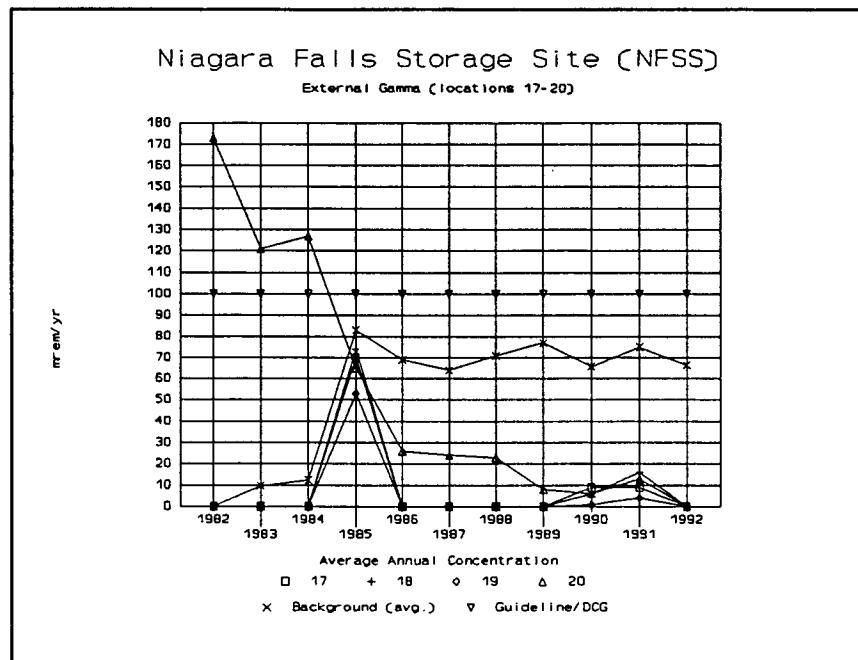


Figure 17 - Locations 17-20

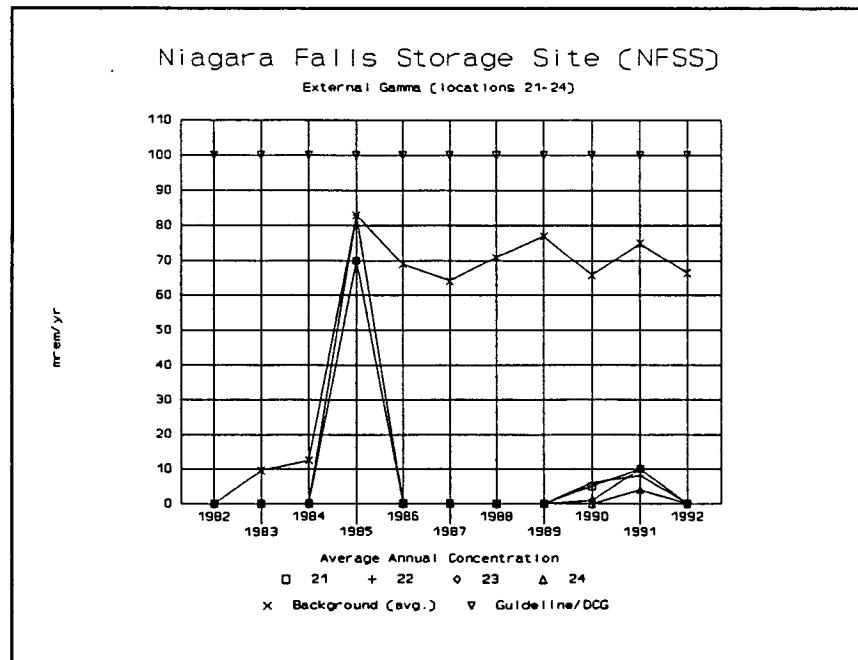


Figure 18 - Locations 21-24

Niagara Falls Storage Site (NFSS)

External Gamma (continued)

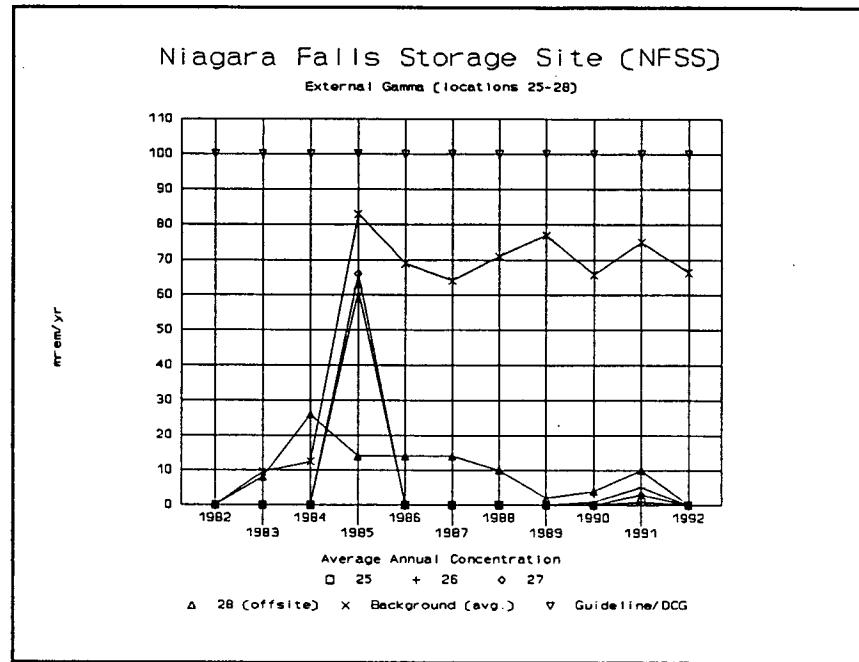


Figure 19 - Locations 25-28

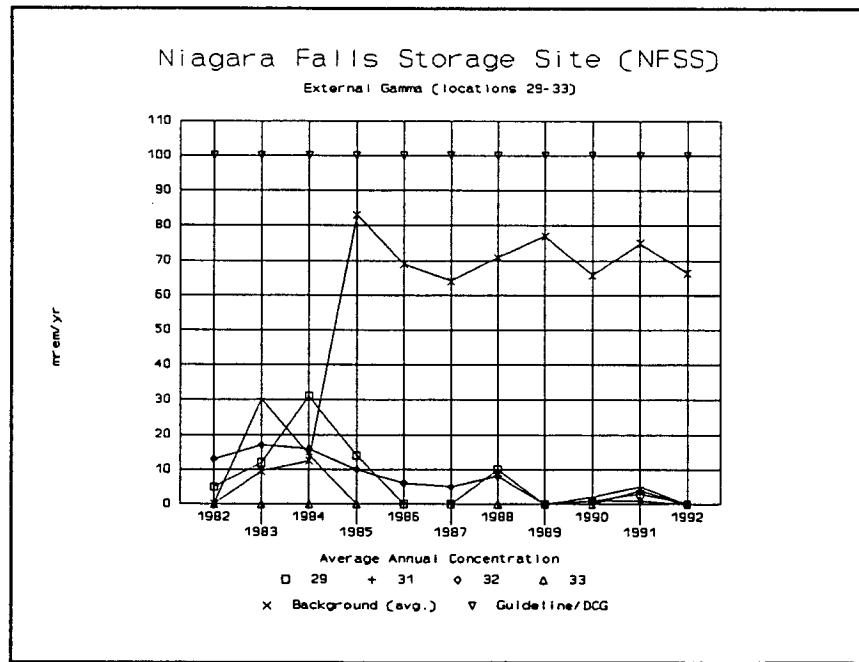


Figure 20 - Locations 29-33

Niagara Falls Storage Site (NFSS)

External Gamma (continued)

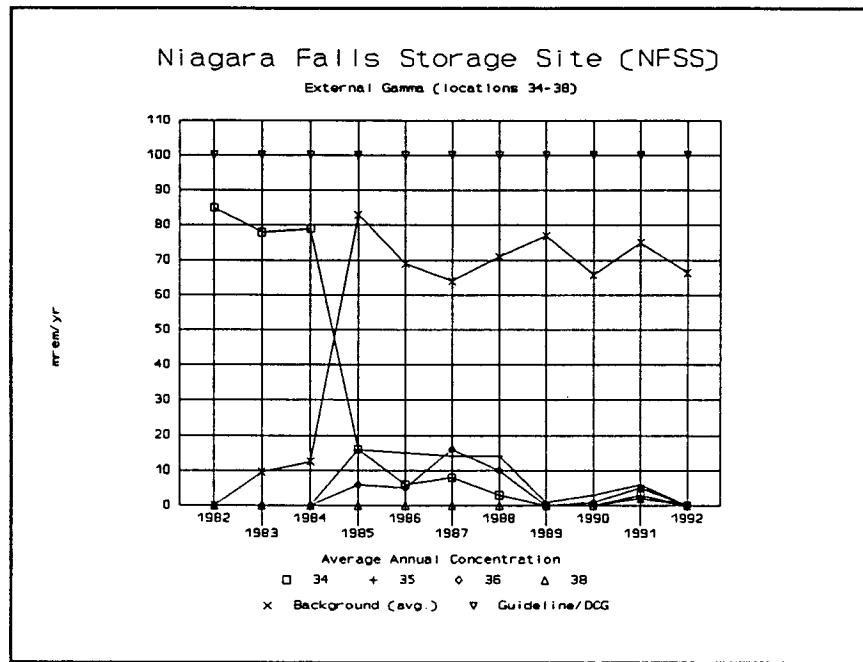


Figure 21 - Locations 34-38

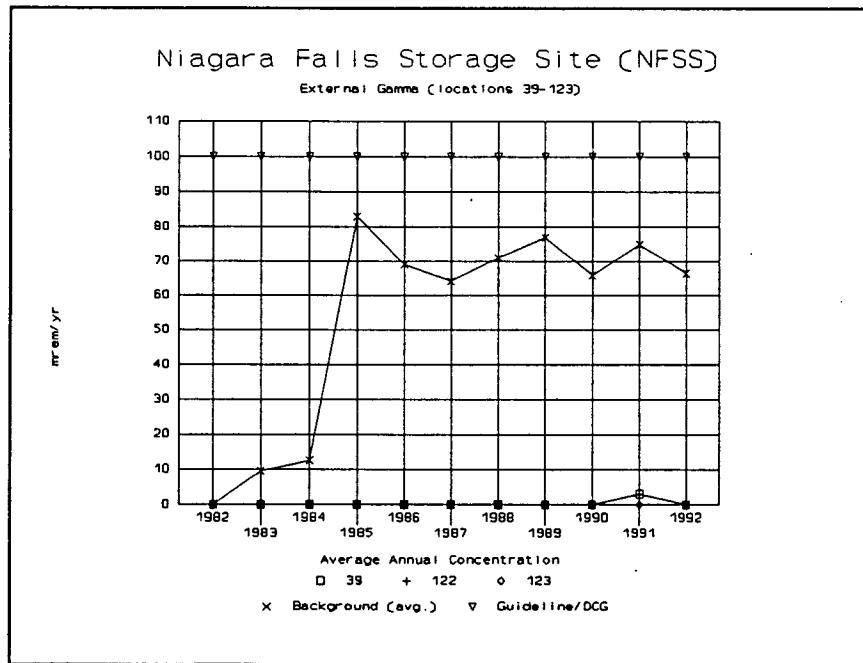


Figure 22 - Locations 39-123

Niagara Falls Storage Site (NFSS)
Total Uranium / Radium-226 in Sediment

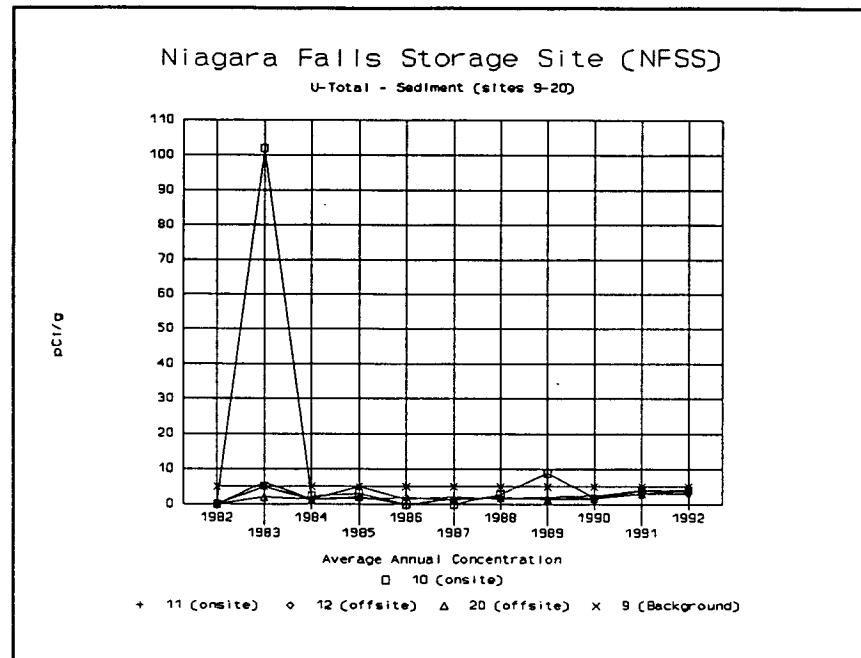


Figure 23 - Total Uranium / Locations 9-20

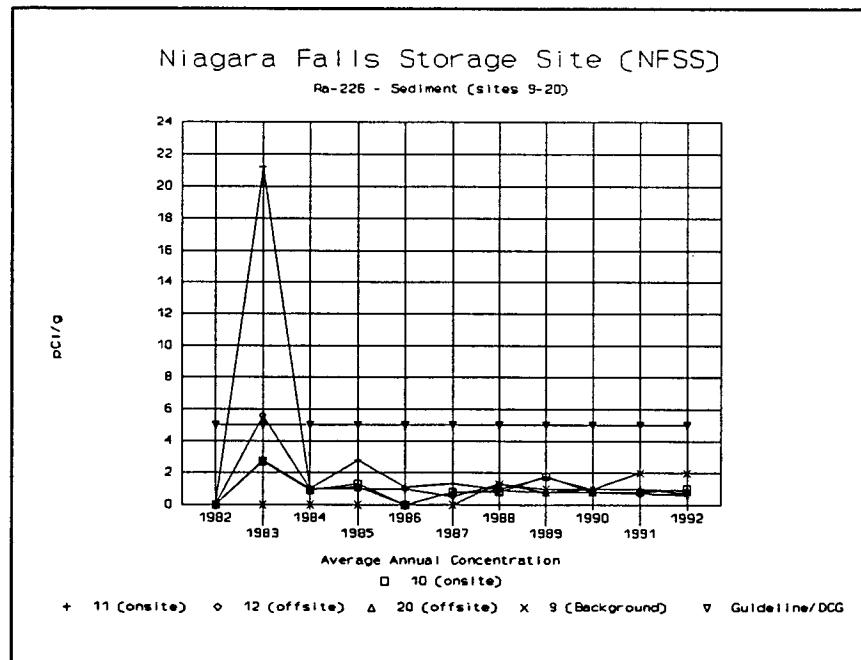


Figure 24 - Radium-226 / Locations 9-20

Niagara Falls Storage Site (NFSS)
Total Uranium / Radium-226 in Surface Water

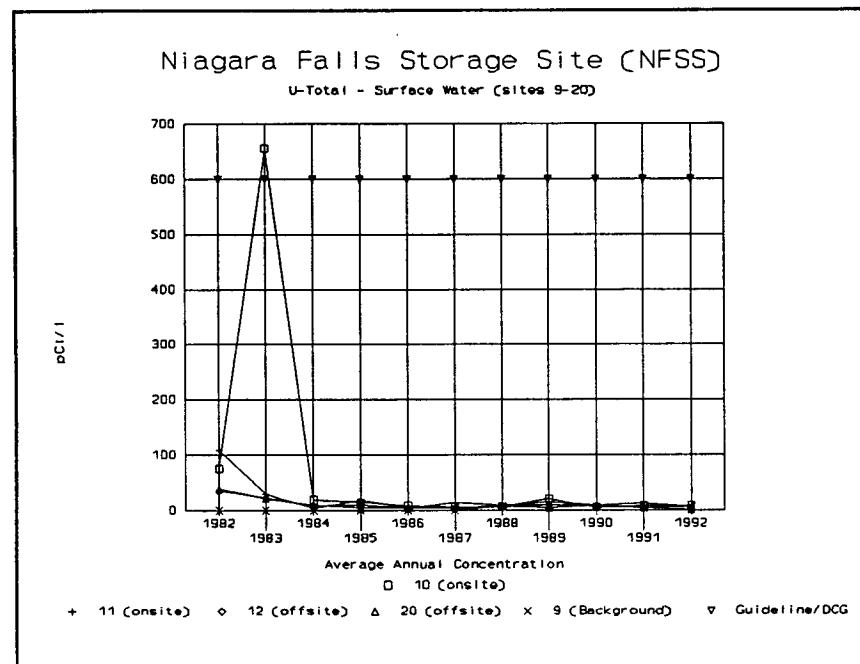


Figure 25 - Total Uranium / Locations 9-20

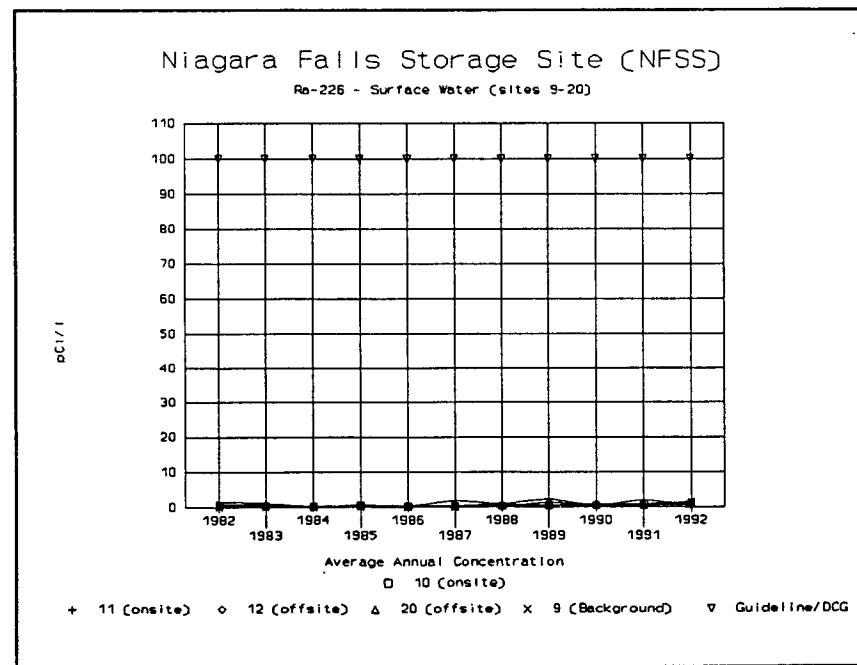


Figure 26 - Radium-226 / Locations 9-20

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

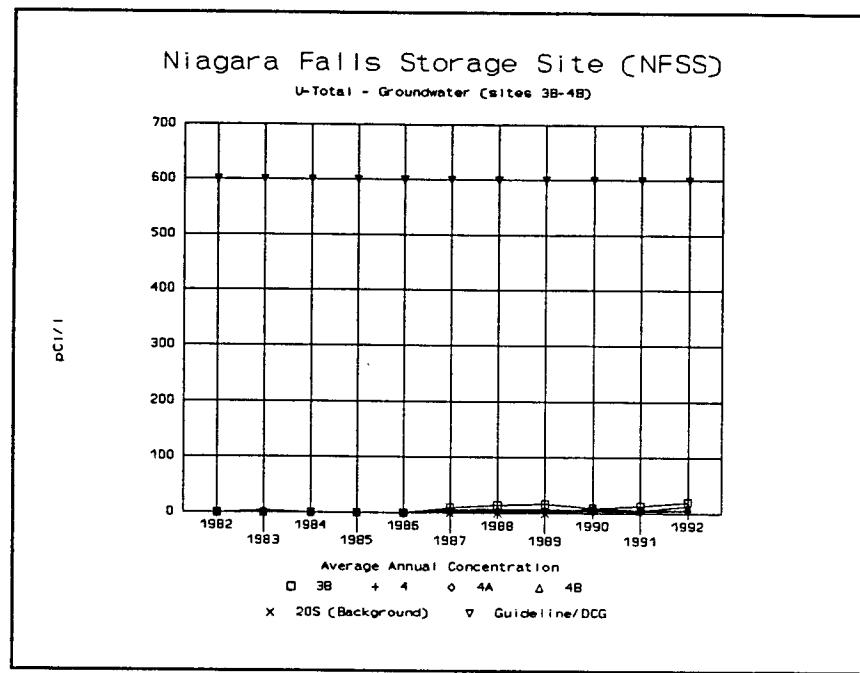


Figure 29 - Locations 3B-4B

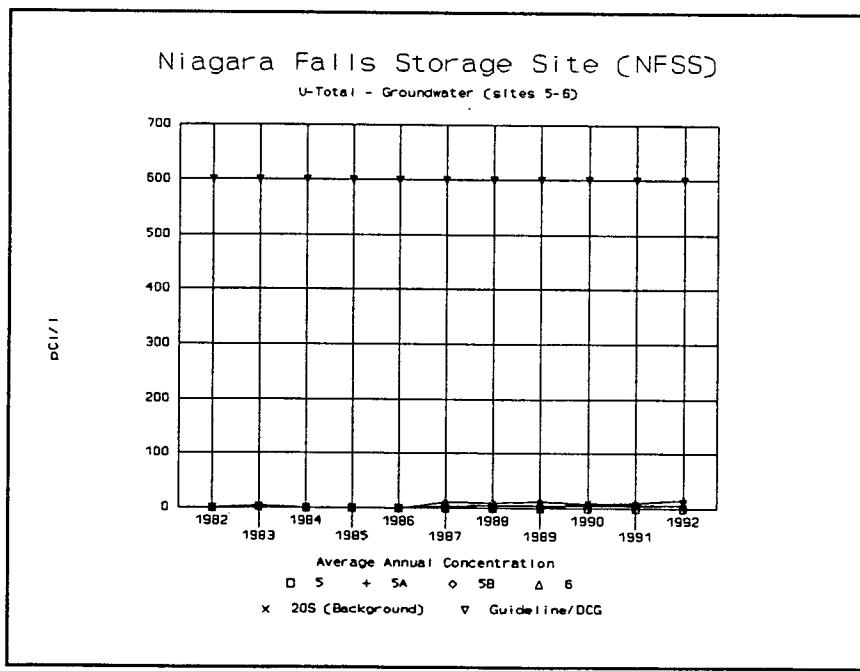


Figure 30 - Locations 5-6

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

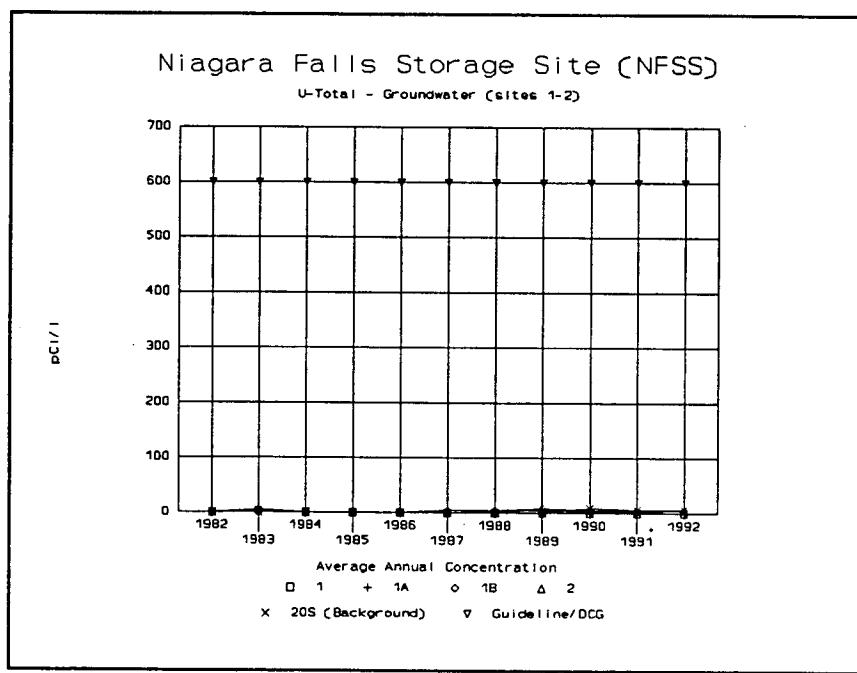


Figure 27 - Locations 1-2

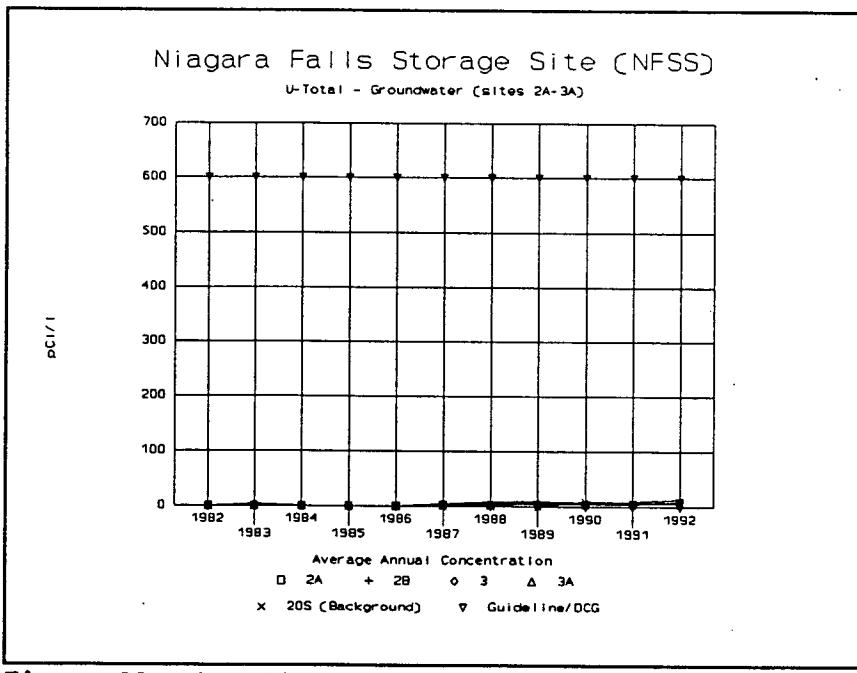


Figure 28 - Locations 2A-3A

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

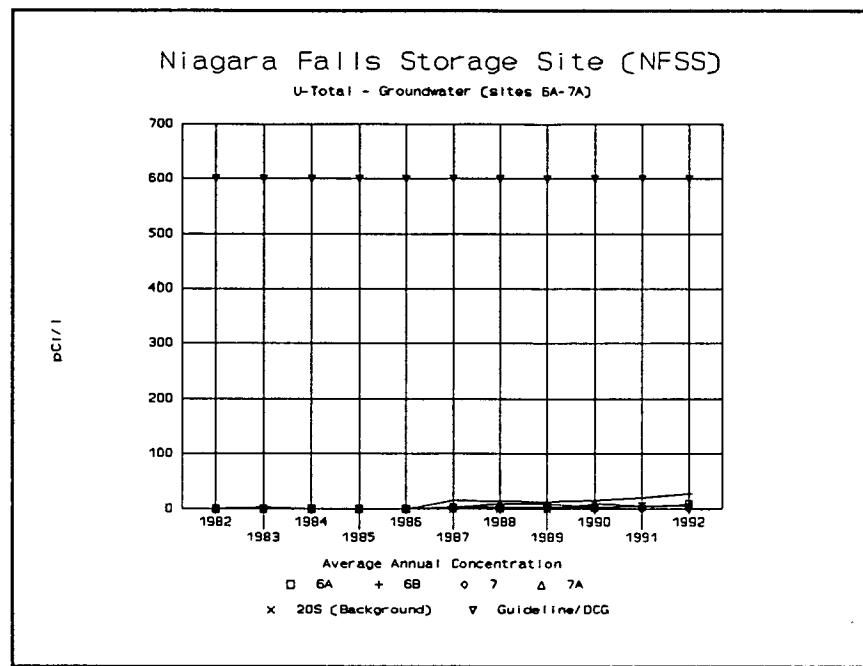


Figure 31 - Locations 6A-7A

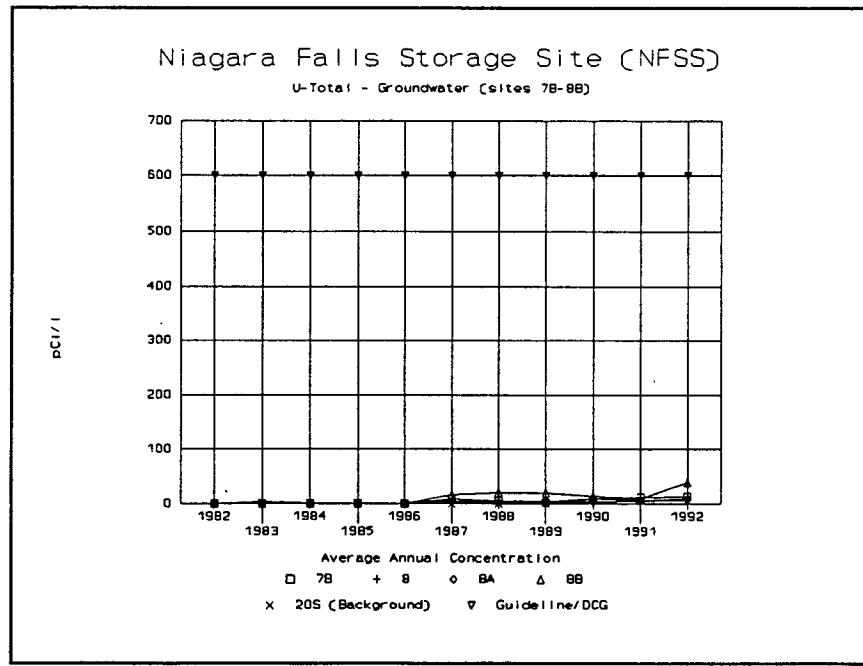


Figure 32 - Locations 7B-8B

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

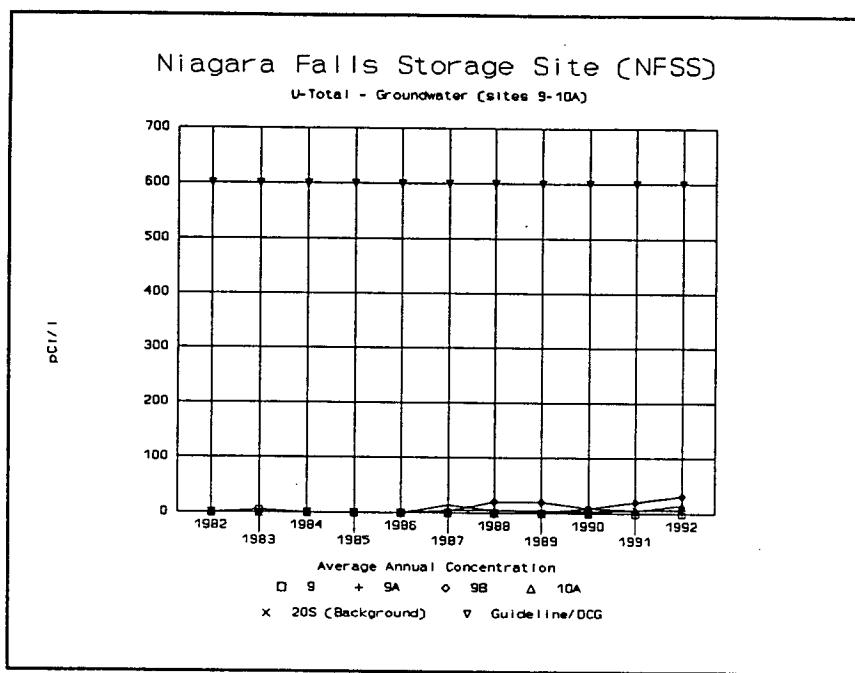


Figure 33 - Locations 9-10A

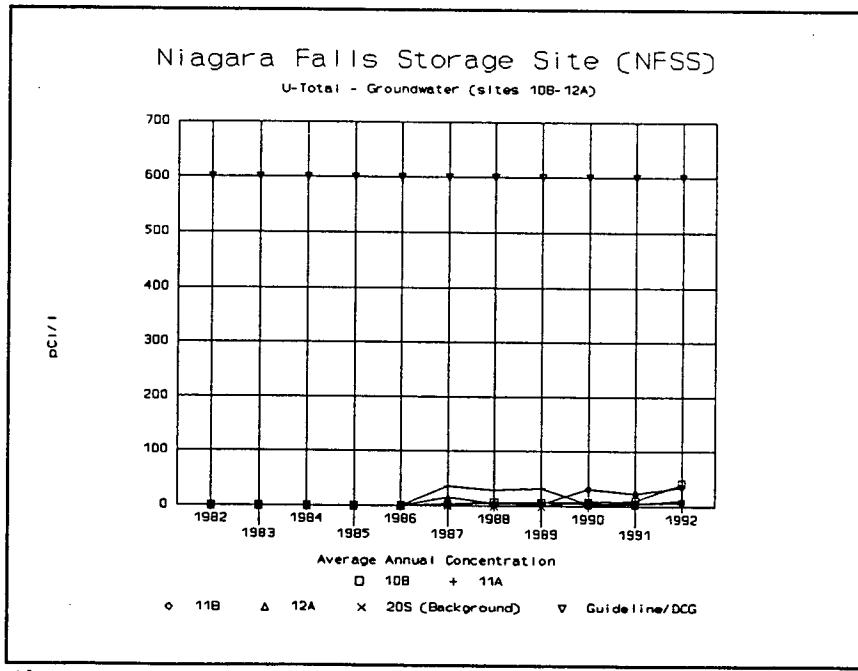


Figure 34 - Locations 10B-12A

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

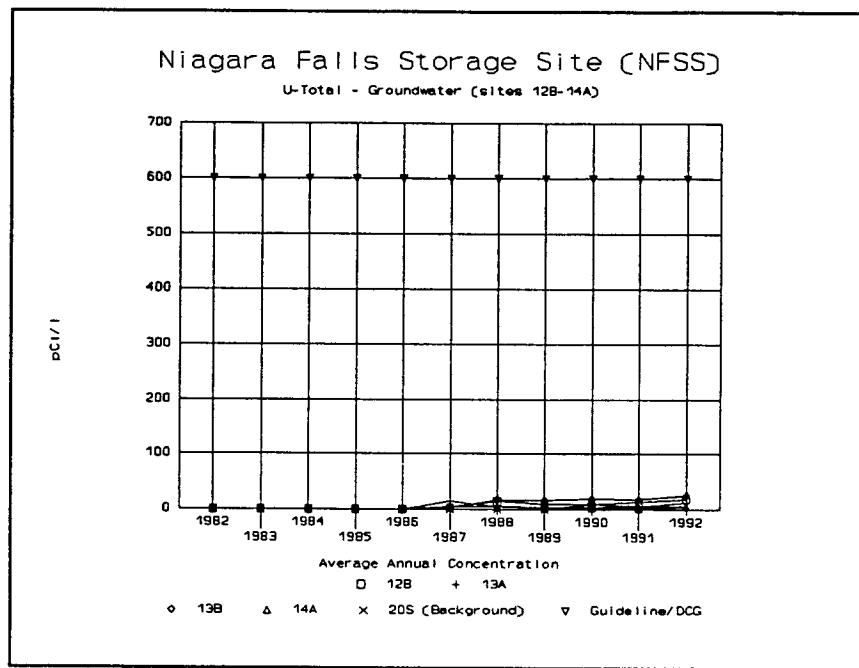


Figure 35 - Locations 12B-14A

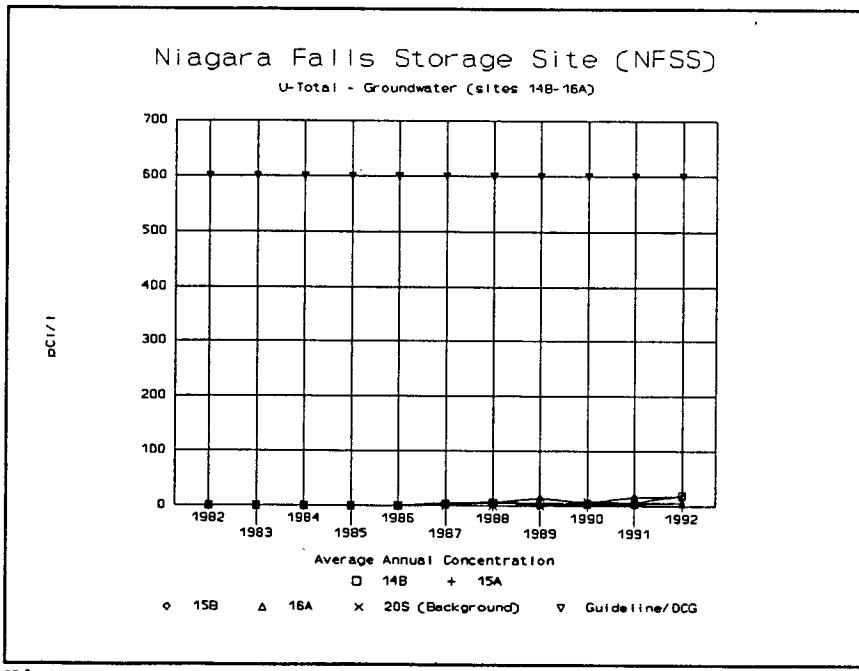


Figure 36 - Locations 14B-16A

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

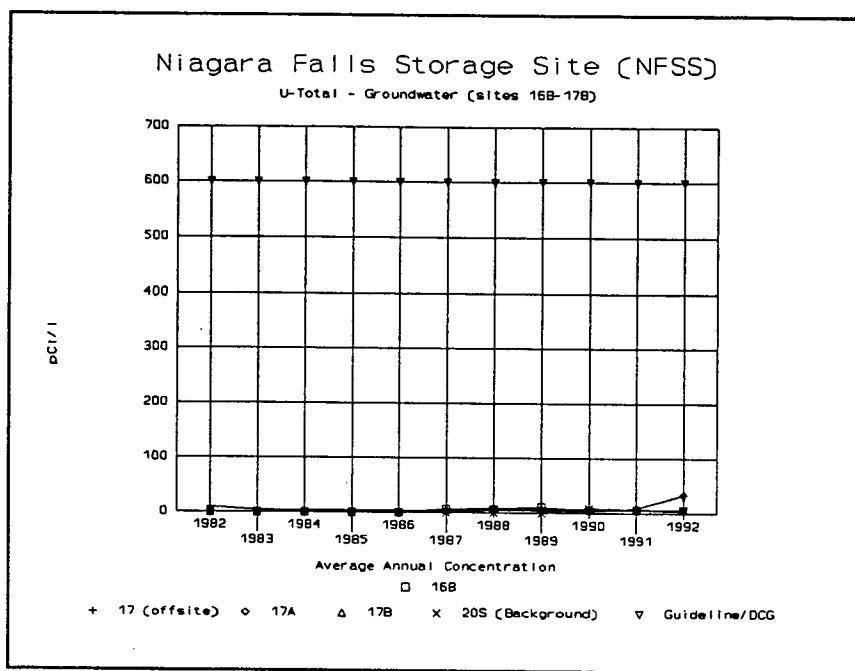


Figure 37 - Locations 16B-17B

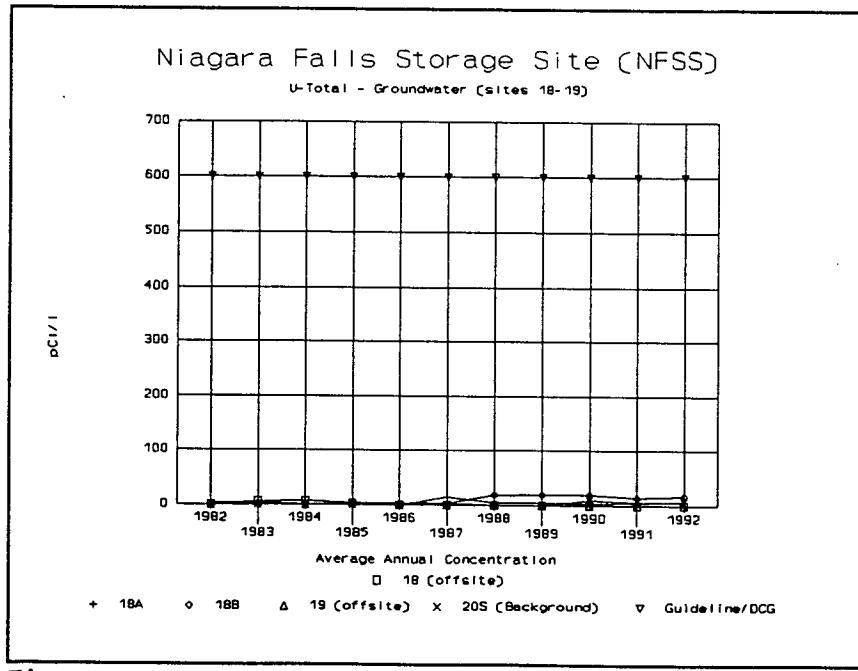


Figure 38 - Locations 18-19

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

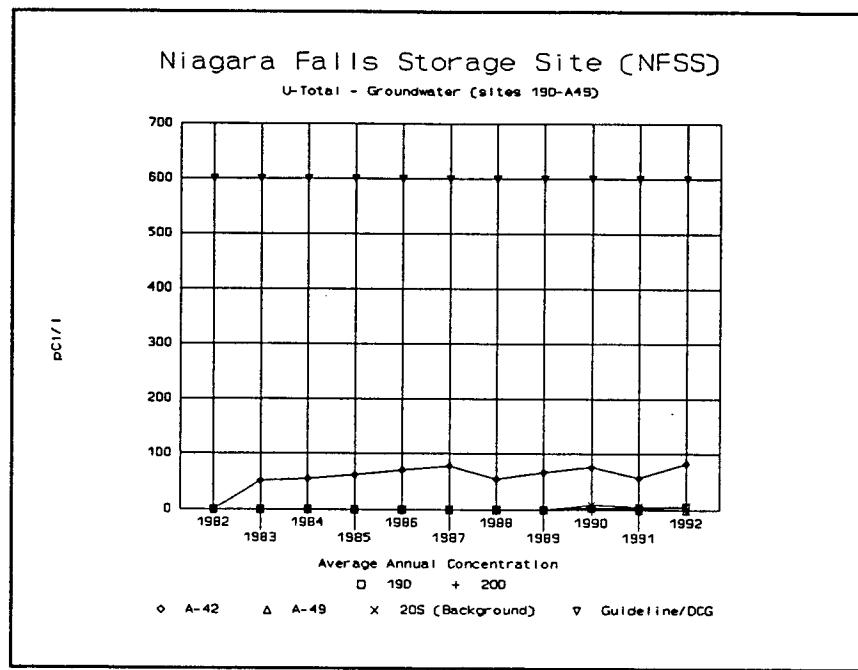


Figure 39 - Locations 19D-A49

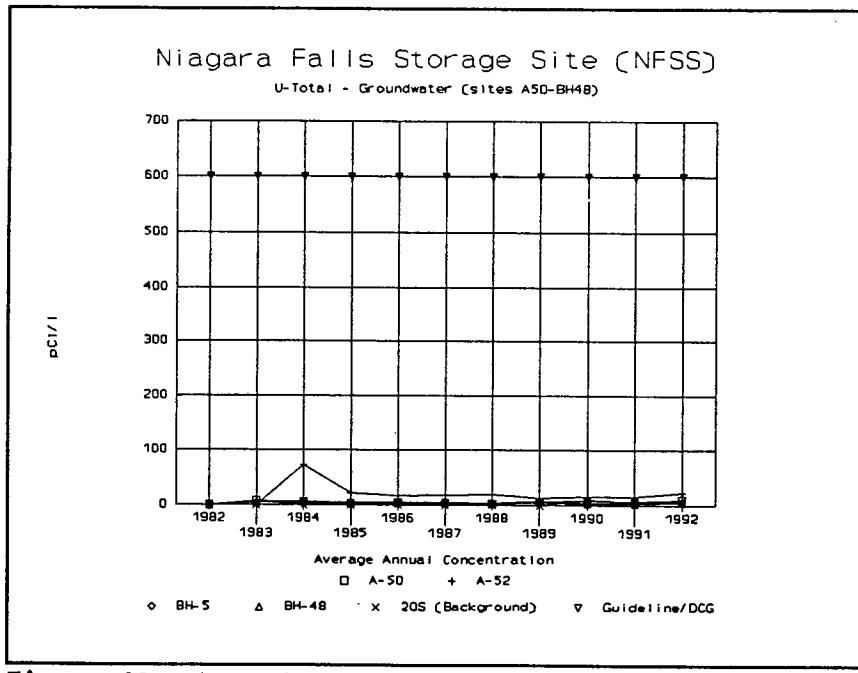


Figure 40 - Locations A50-BH48

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

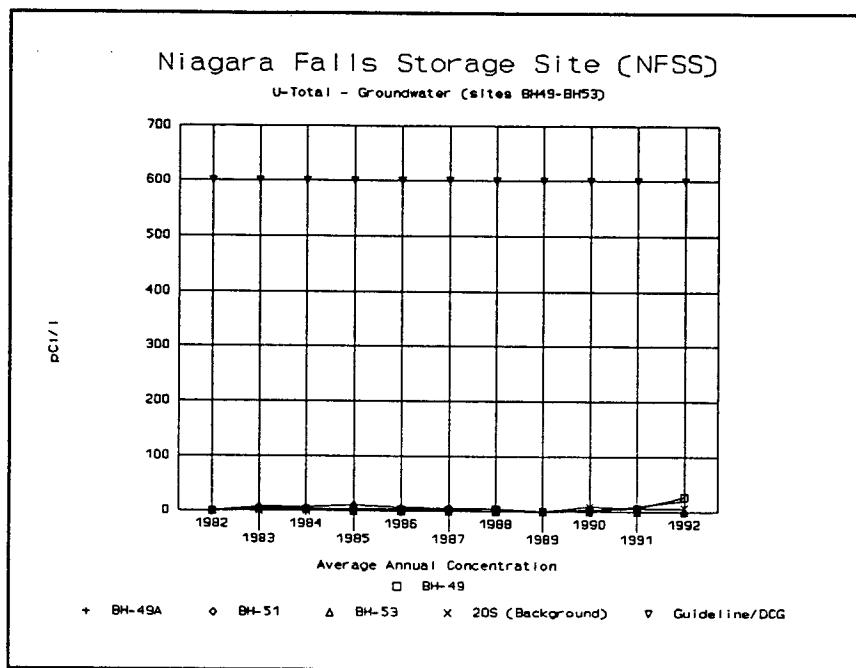


Figure 41 - Locations BH49-BH53

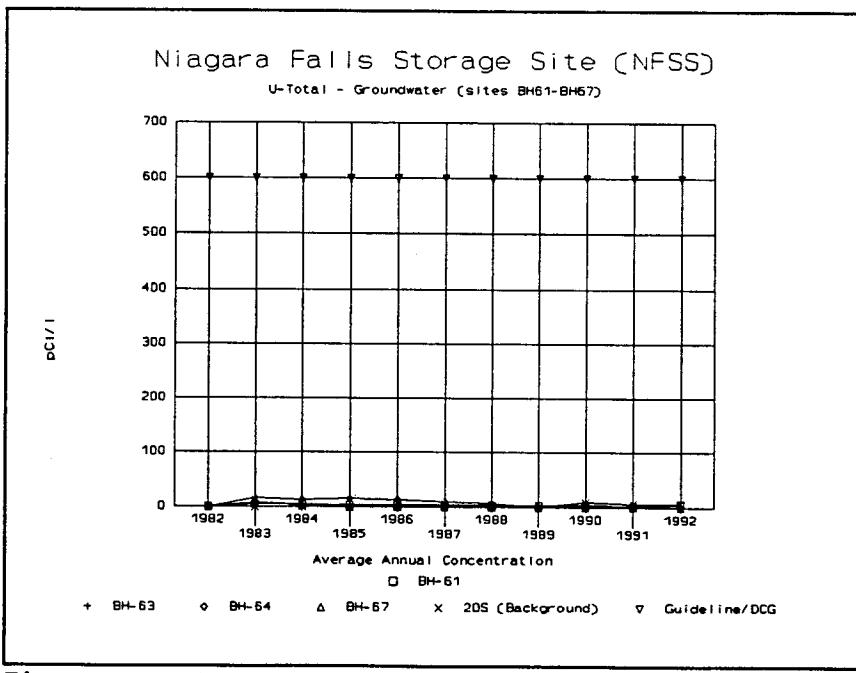


Figure 42 - Locations BH61-BH67

Niagara Falls Storage Site (NFSS)

Total Uranium in Groundwater

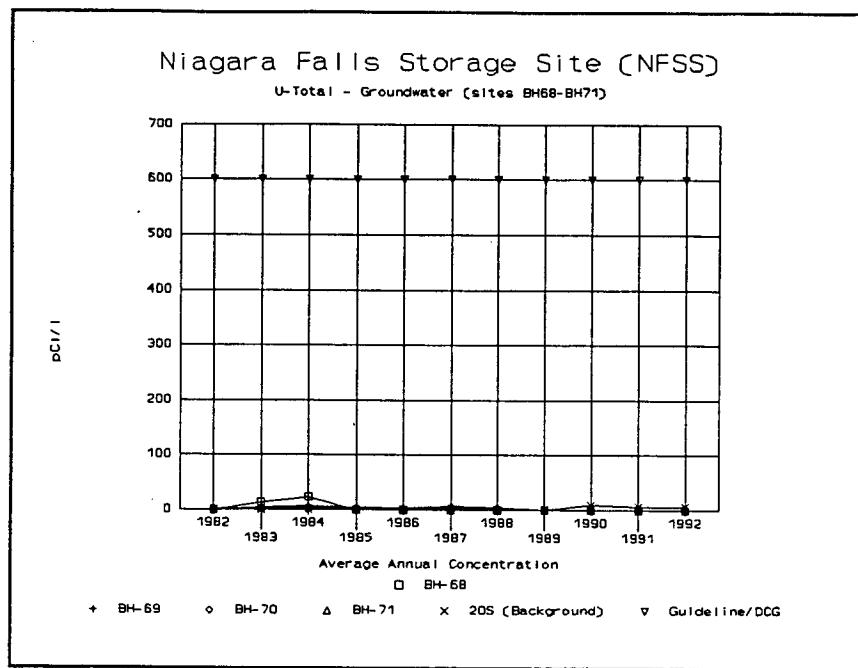


Figure 43 - Locations BH68-BH71

Niagara Falls Storage Site (NFSS)

Radium-226 in Groundwater

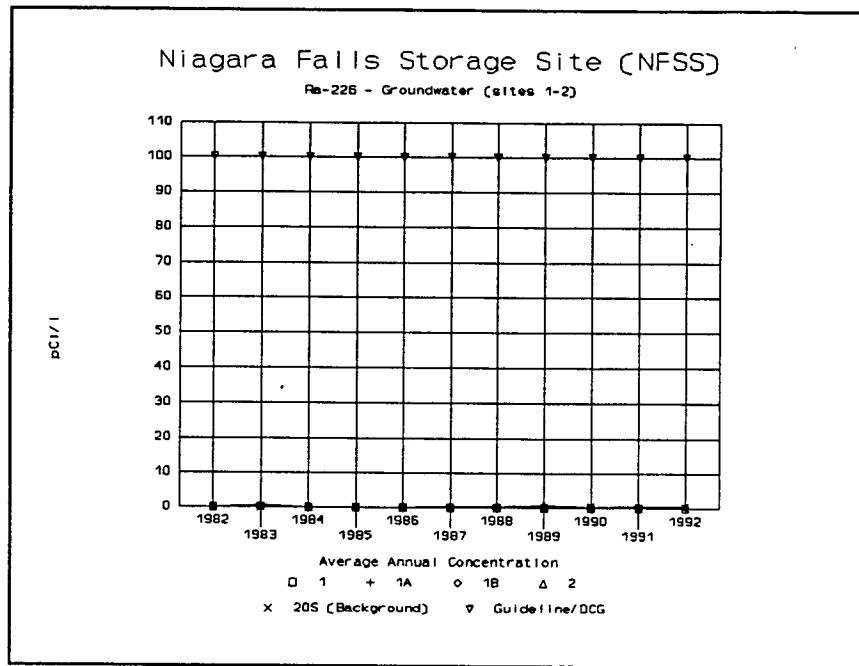


Figure 44 - Locations 1-2

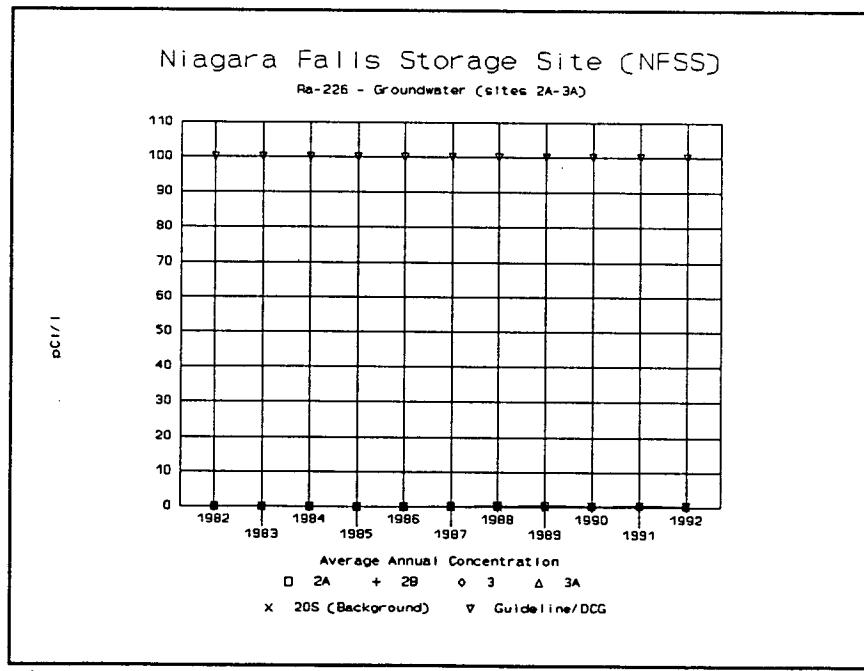


Figure 45 - Locations 2A-3A

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

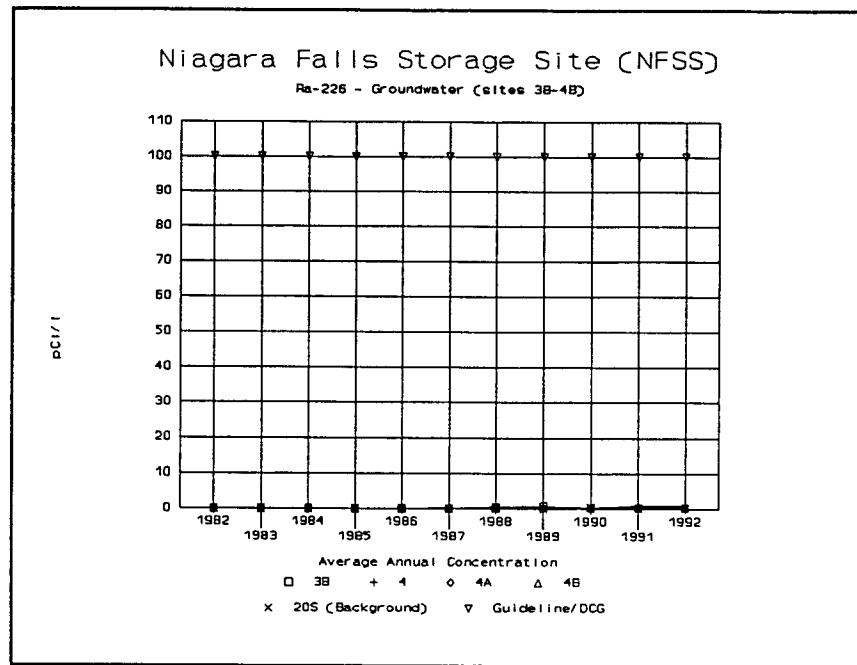


Figure 46 - Locations 3B-4B

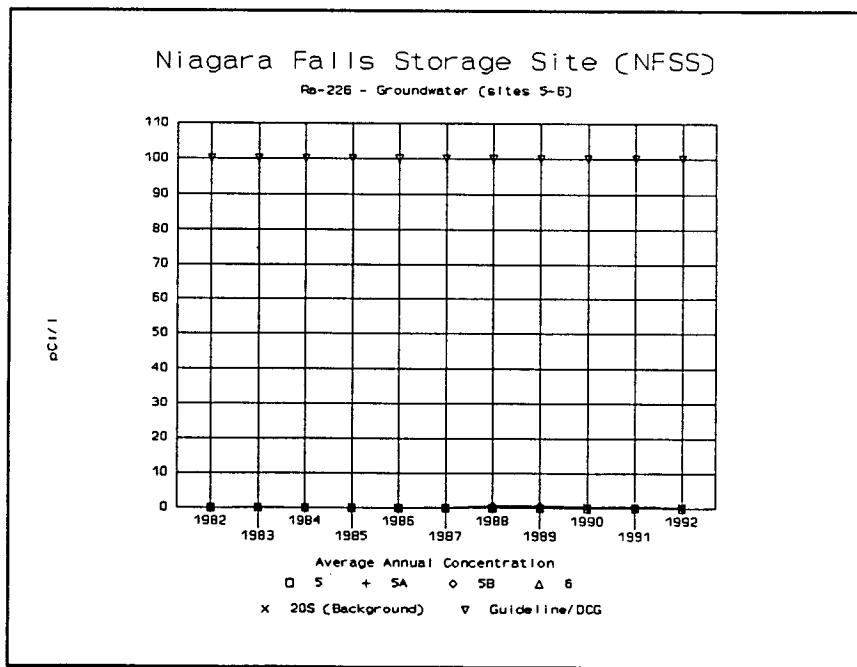


Figure 47 - Locations 5-6

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

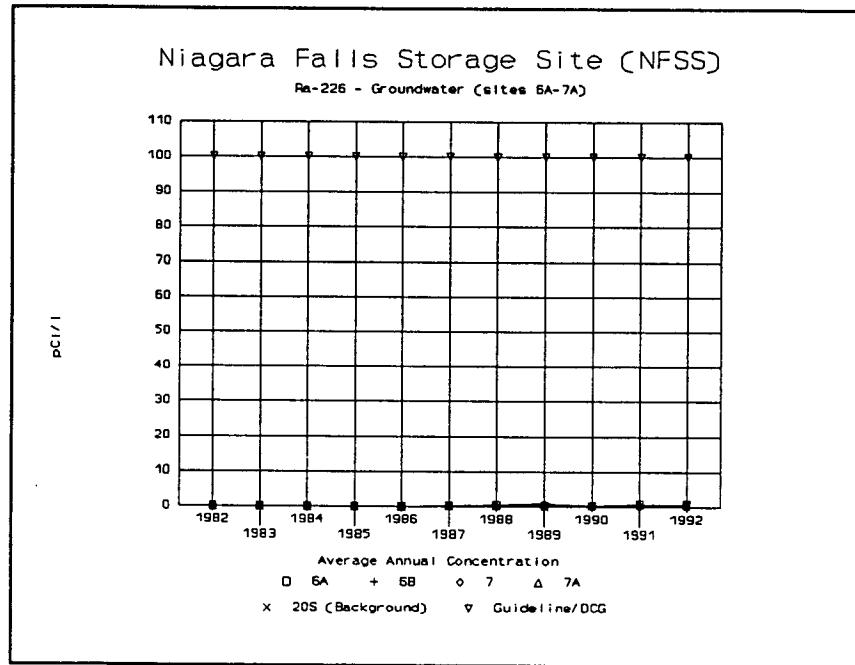


Figure 48 - Locations 6A-7A

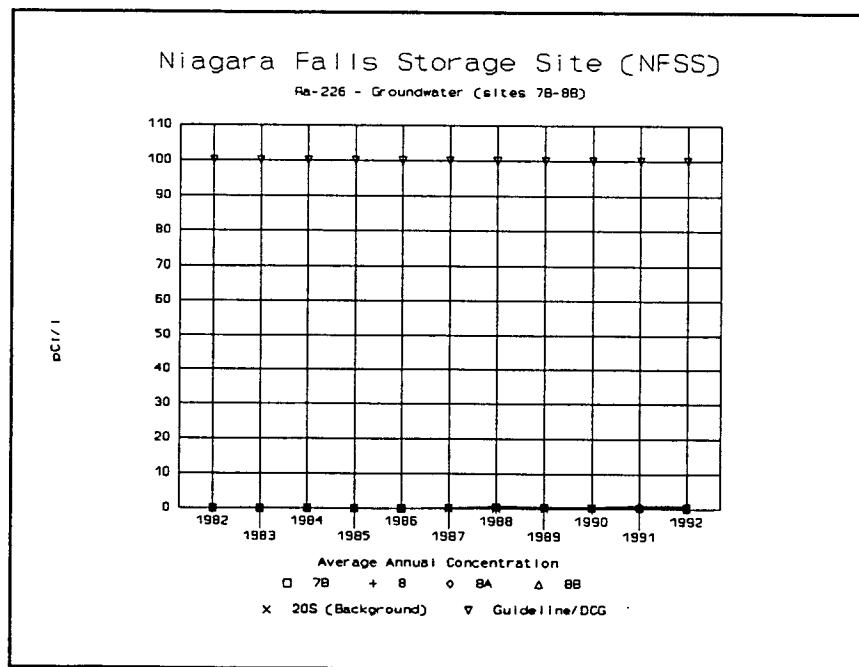


Figure 49 - Locations 7B-8B

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

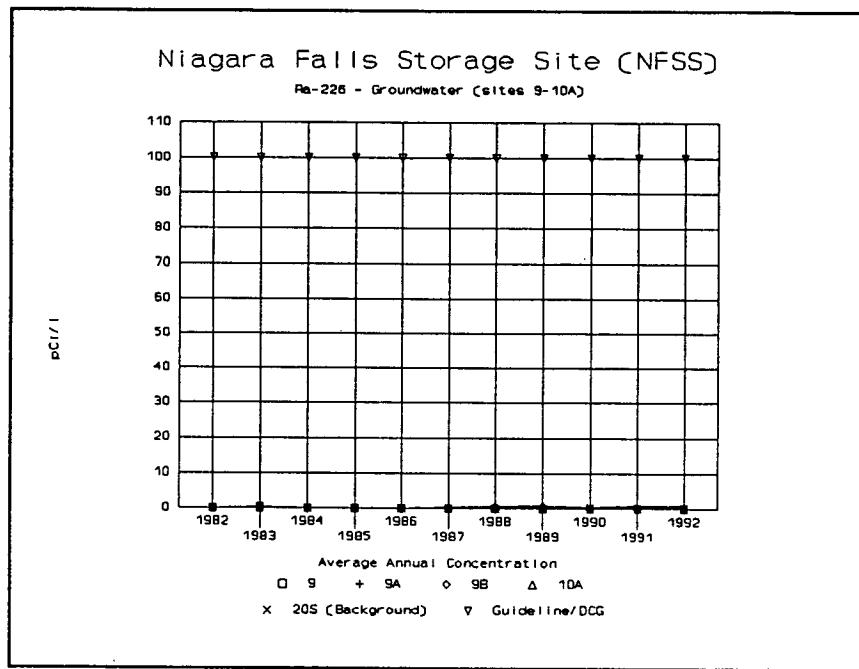


Figure 50 - Locations 9-10A

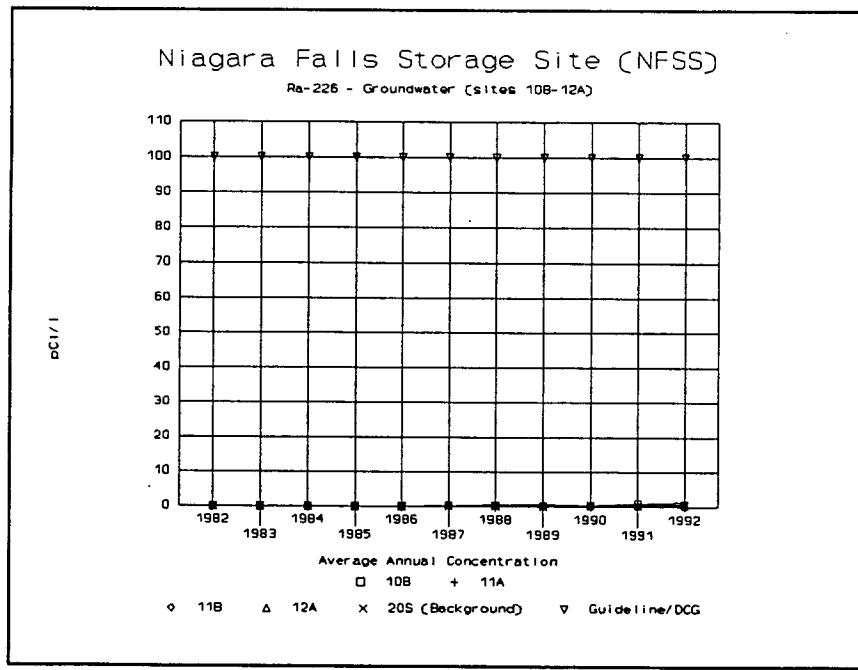


Figure 51 - Locations 10B-12A

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

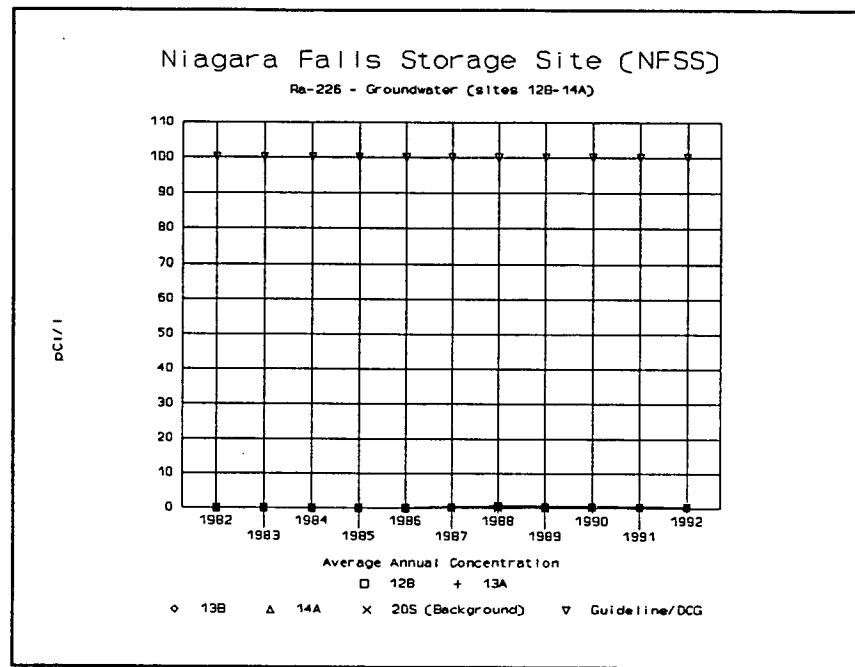


Figure 52 - Locations 12B-14A

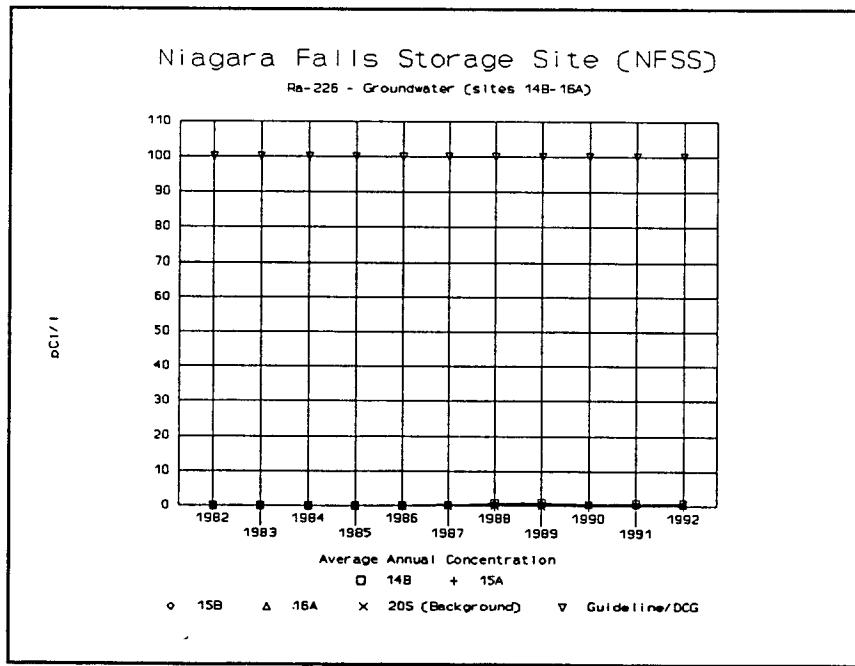


Figure 53 - Locations 14B-16A

Niagara Falls Storage Site (NFSS)

Radium-226 in Groundwater (continued)

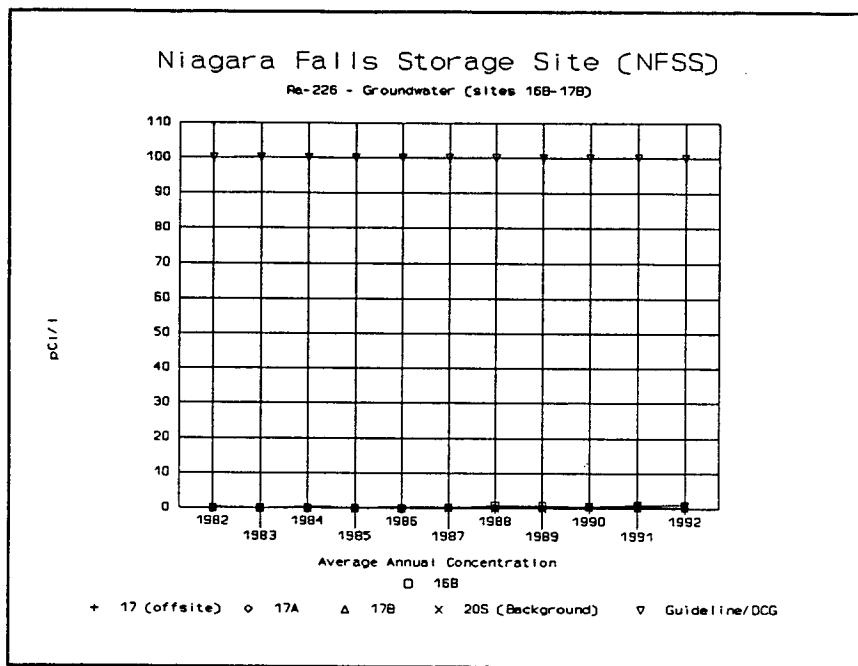


Figure 54 - Locations 16B-17B

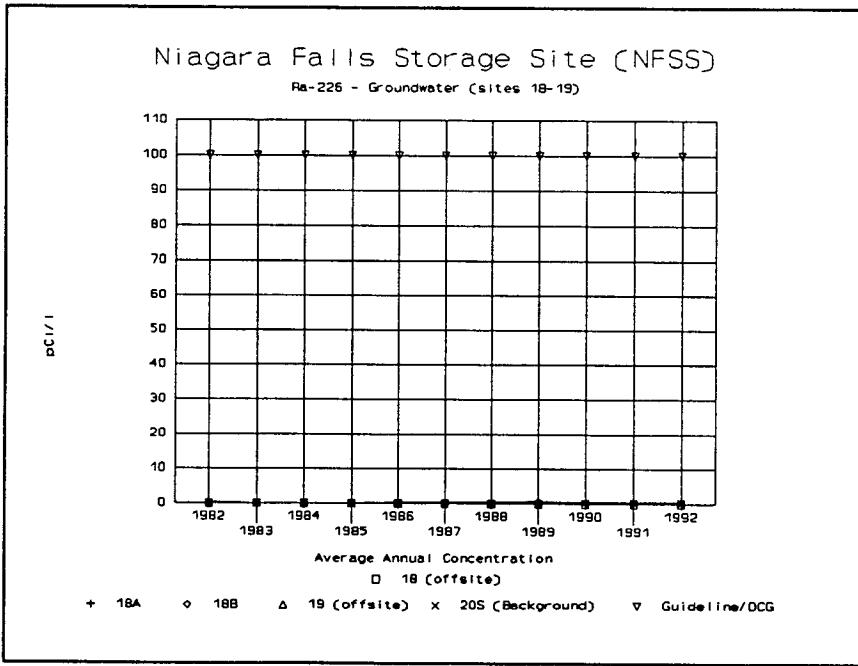


Figure 55 - Locations 18-19

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

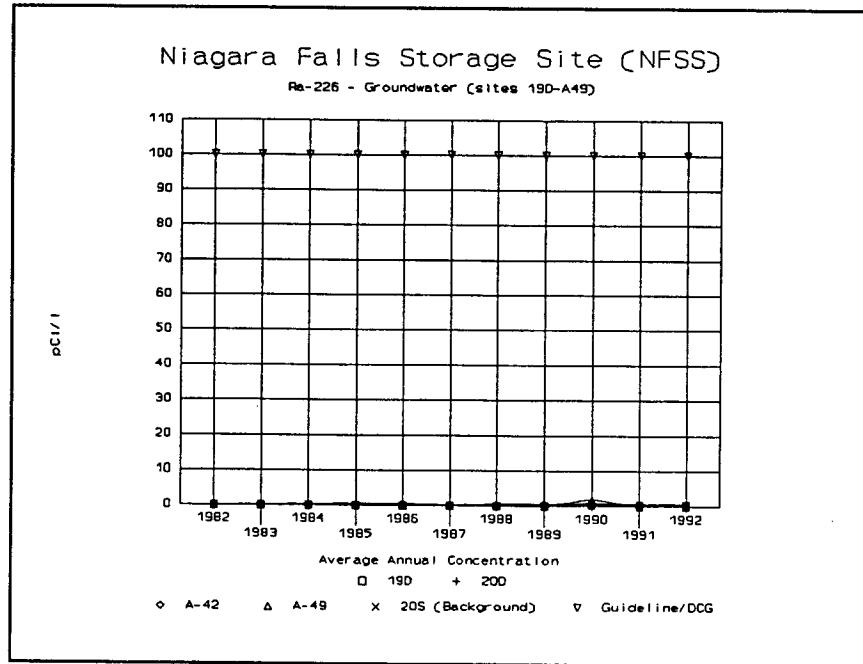


Figure 56 - Locations 19D-A49

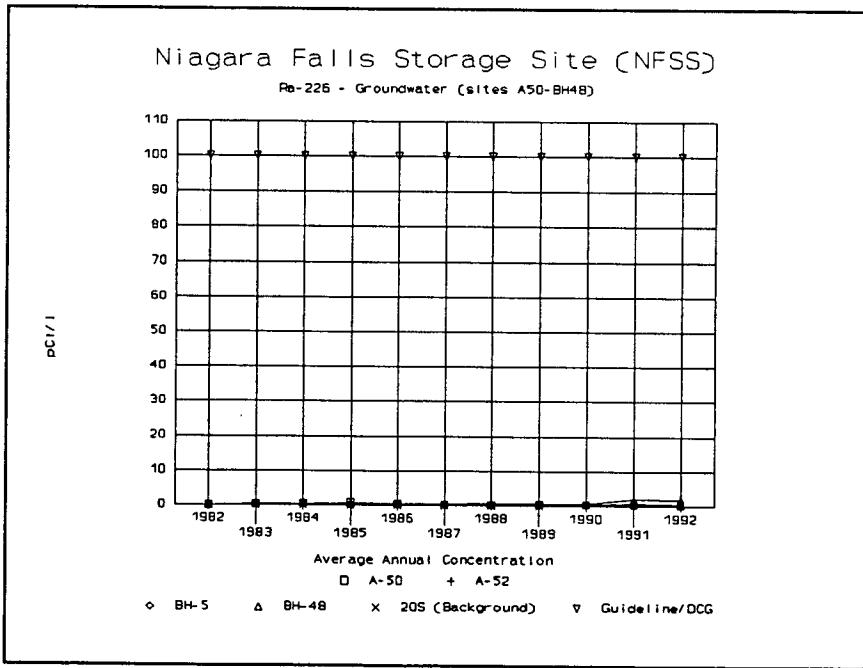


Figure 57 - Locations A50-BH48

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

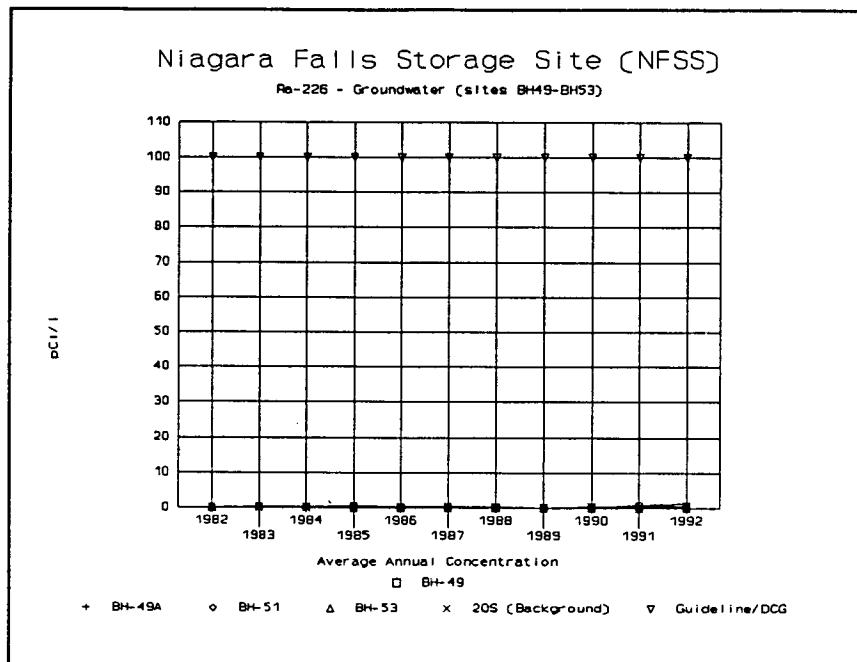


Figure 58 - Locations BH49-BH53

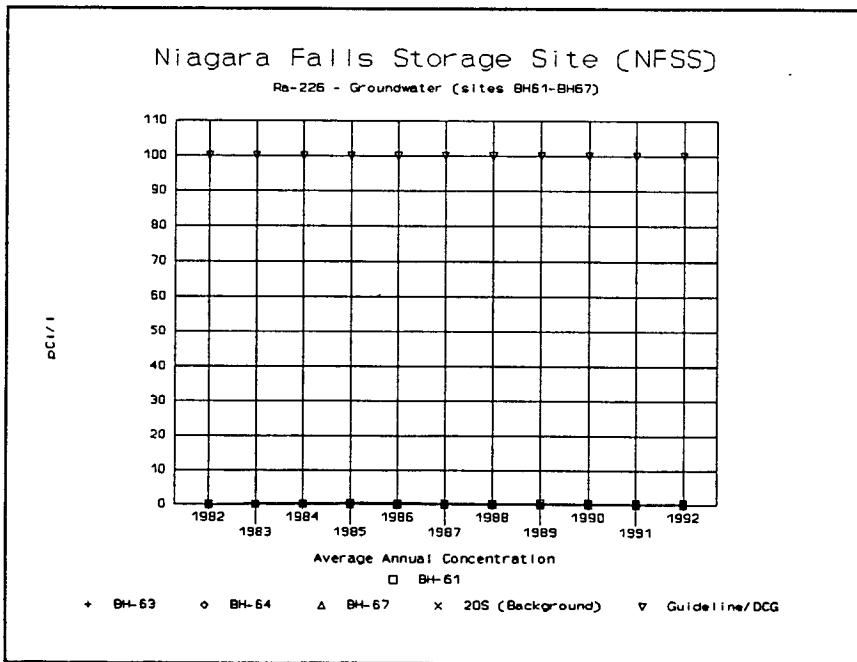


Figure 59 - Locations BH61-BH67

Niagara Falls Storage Site (NFSS)
Radium-226 in Groundwater (continued)

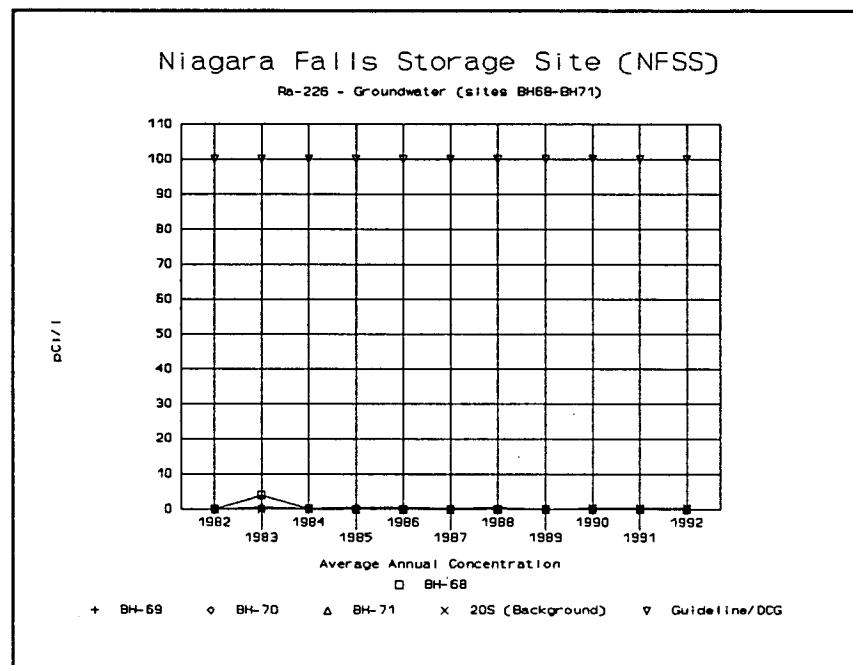


Figure 60 - Locations BH68-BH71