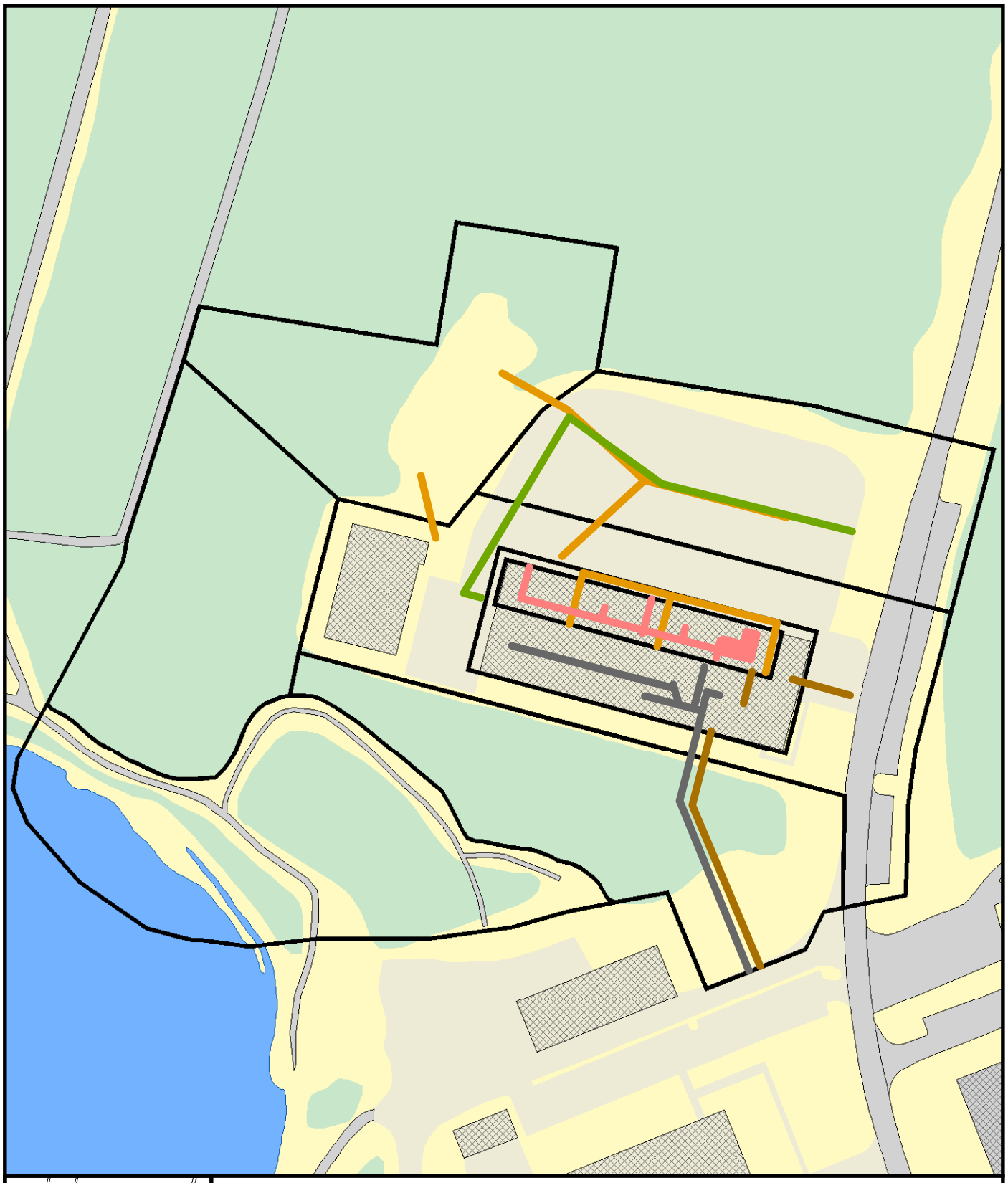
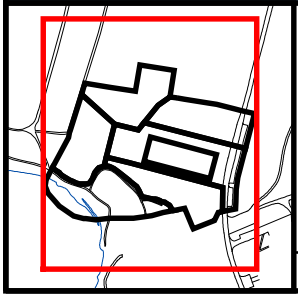
APPENDIX J

TRENCH RESULTS AND DATA EVALUATION





CT State Plane NAD 27 Feet:

Legend

- Survey Unit
- Former Building
- Former Paved Areas
- Sanitary Trench
- Hot Waste Trench
- Industrial Trench
- Storm Line Trench (New)
- Storm Line Trench (Old)

N

0 75 150 Feet

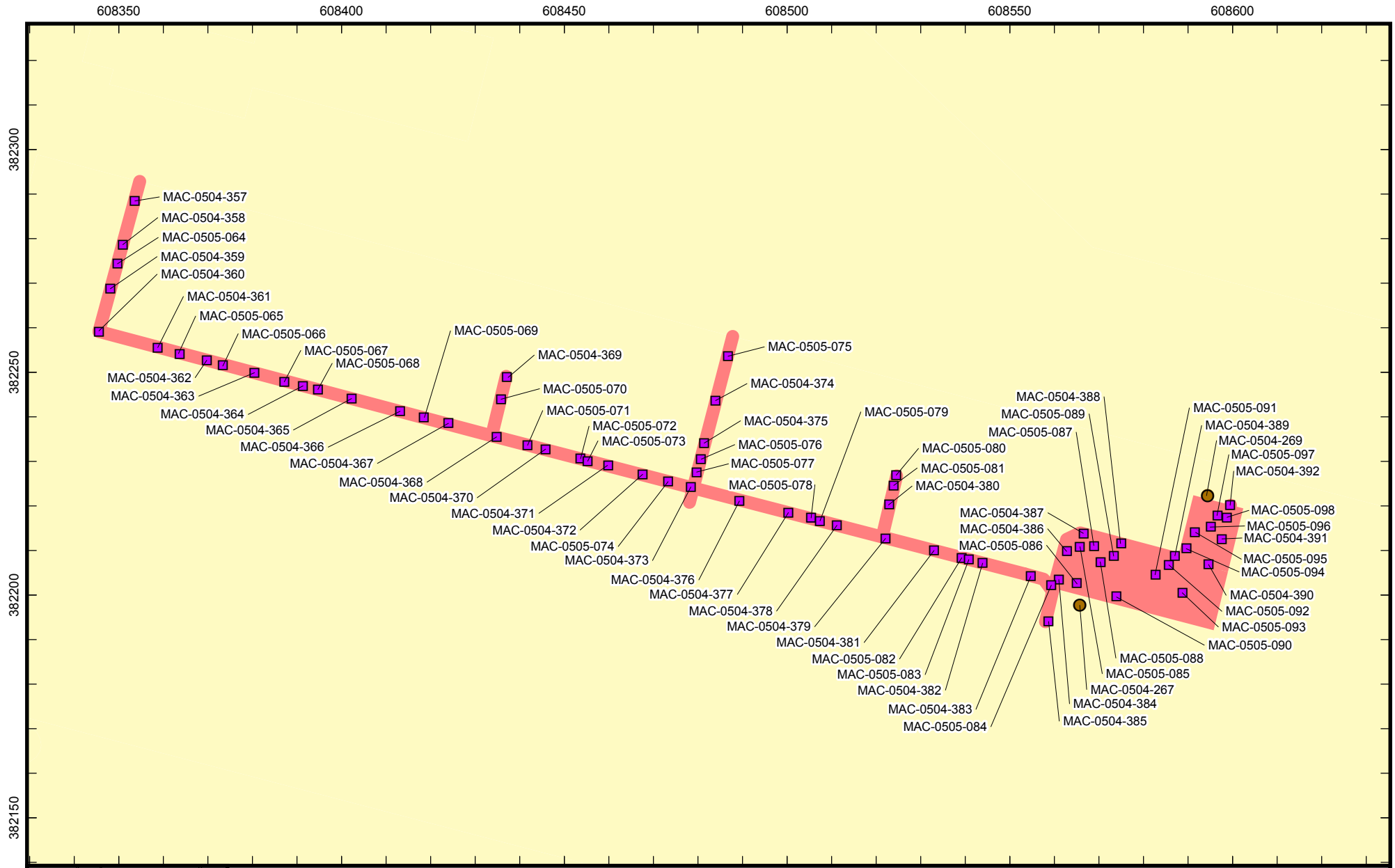
Prepared by BRP | Checked by HTD

Building 17 Complex Trench Overview

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABB\WIN\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Trench_Overview.pdf 02/01/2006 3:34 PM brpeters



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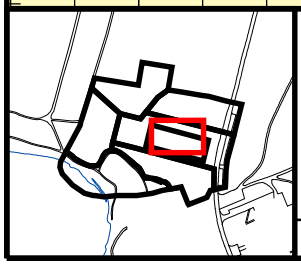


N

0 15 30 Feet

Legend

Hot Waste Line:

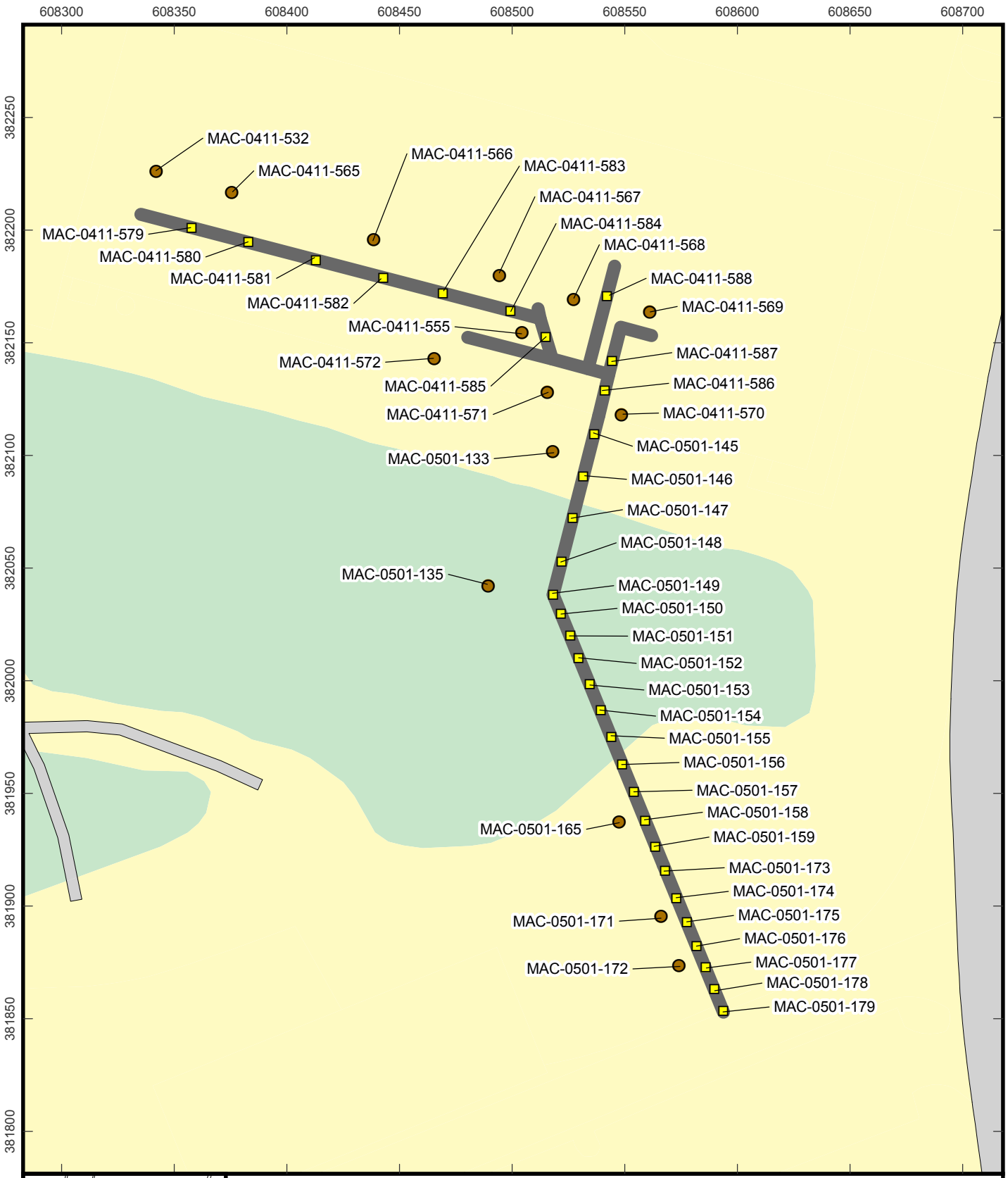
- Trench
- Trench Sample
- Spoils Pile Sample

Prepared by BRP | Checked by HTD

Sample Locations
Building 17 Complex
Hot Waste Line
Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11LS.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_HotWaste_Trench.pdf 02/01/2006 3:47 PM brpeters



CT State Plane NAD 27 Feet:

Legend

Industrial Waste Line:

- Trench
- Spoils Pile Sample
- Trench Sample

N

0 30 60 Feet

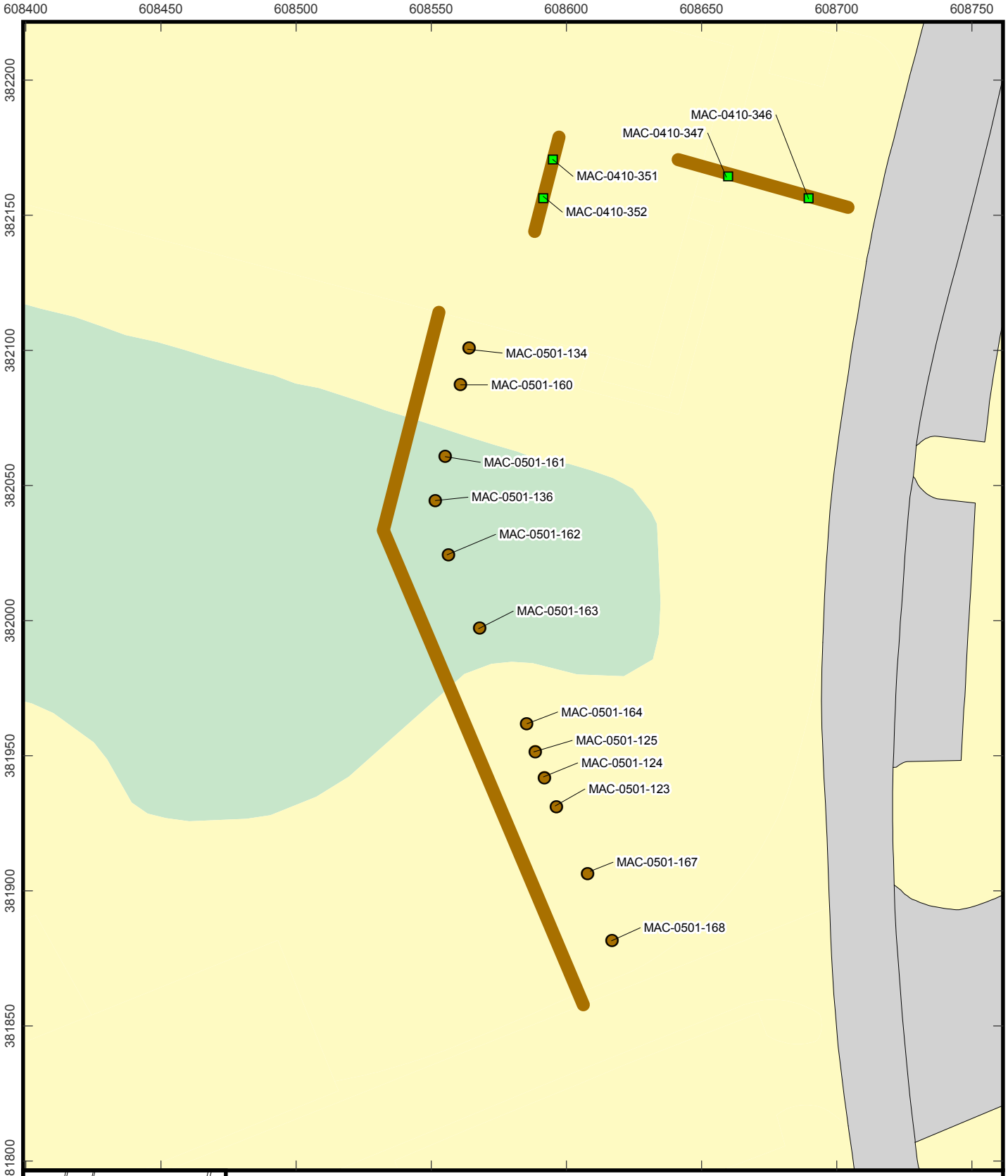
Prepared by BRP | Checked by HTD

Sample Locations
Building 17 Complex
Industrial Waste Line

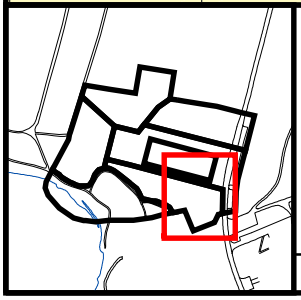
Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_IndWaste_Trench.pdf 01/19/2006 4:32 PM brpeters



CT State Plane NAD 27 Feet:



Legend

Sanitary Line:

Trench

Spoils Pile Sample

Trench Sample

N

0 25 50 Feet

Prepared by BRP | Checked by HTD

Sample Locations
Building 17 Complex
Sanitary Line

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Sanitary_Trench.pdf 01/19/2006 4:29 PM brpeters

CT State Plane NAD 27 Feet:

Legend

Storm Line (Old):

- Trench
- Spoils Pile Sample
- Trench Sample

N

0 35 70 Feet

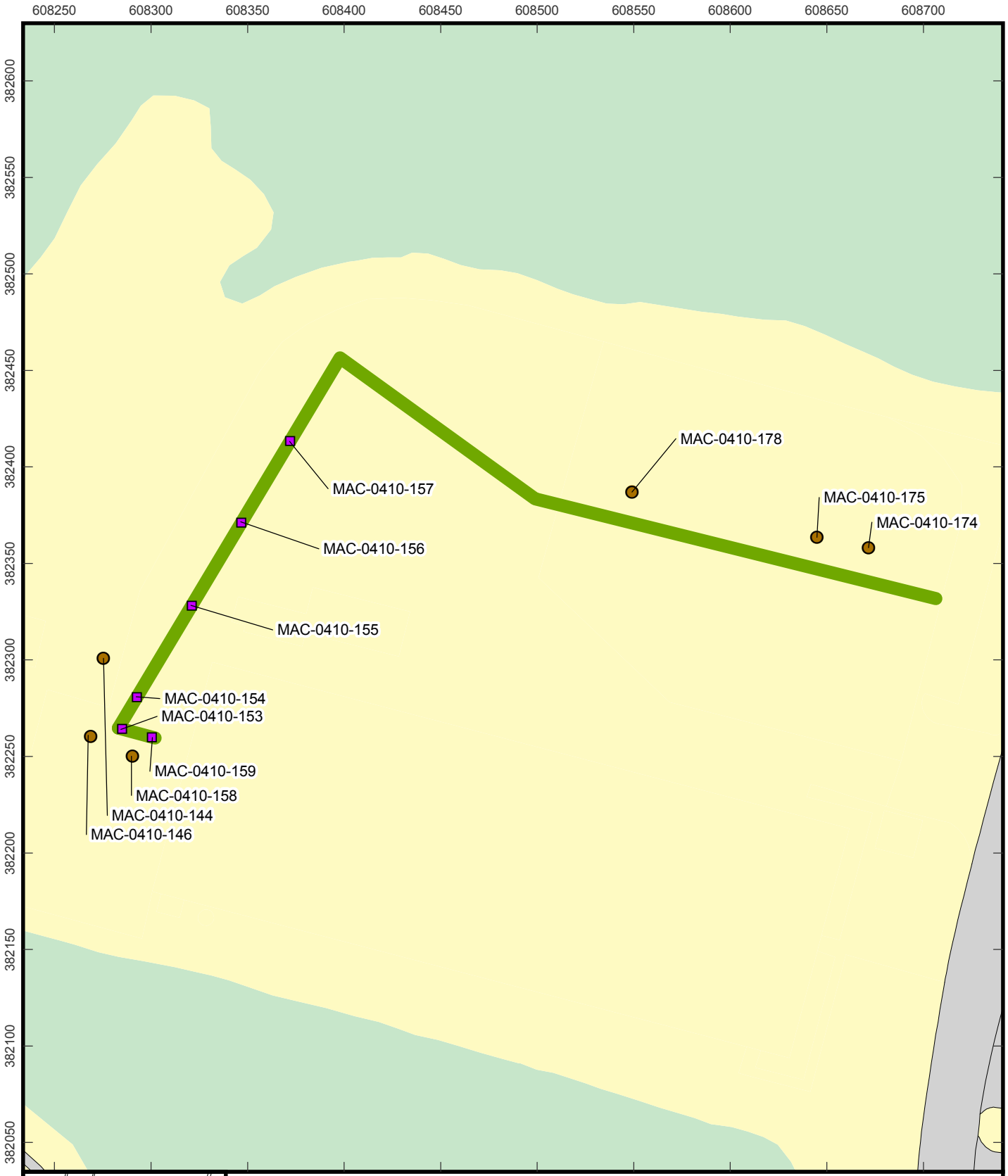
Prepared by BRP | Checked by HTD

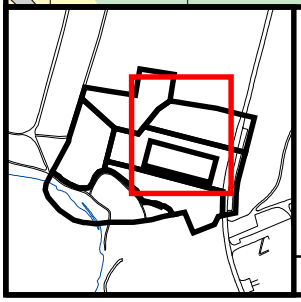
Sample Locations
Building 17 Complex
Storm Line - Old

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABB\WIN\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Storm_Old_Trench.pdf 02/01/2006 3:29 PM brpeters





CT State Plane NAD 27 Feet:

Legend

Storm Line (New):

- Trench
- Spoils Pile Sample
- Trench Sample

N

0 35 70 Feet

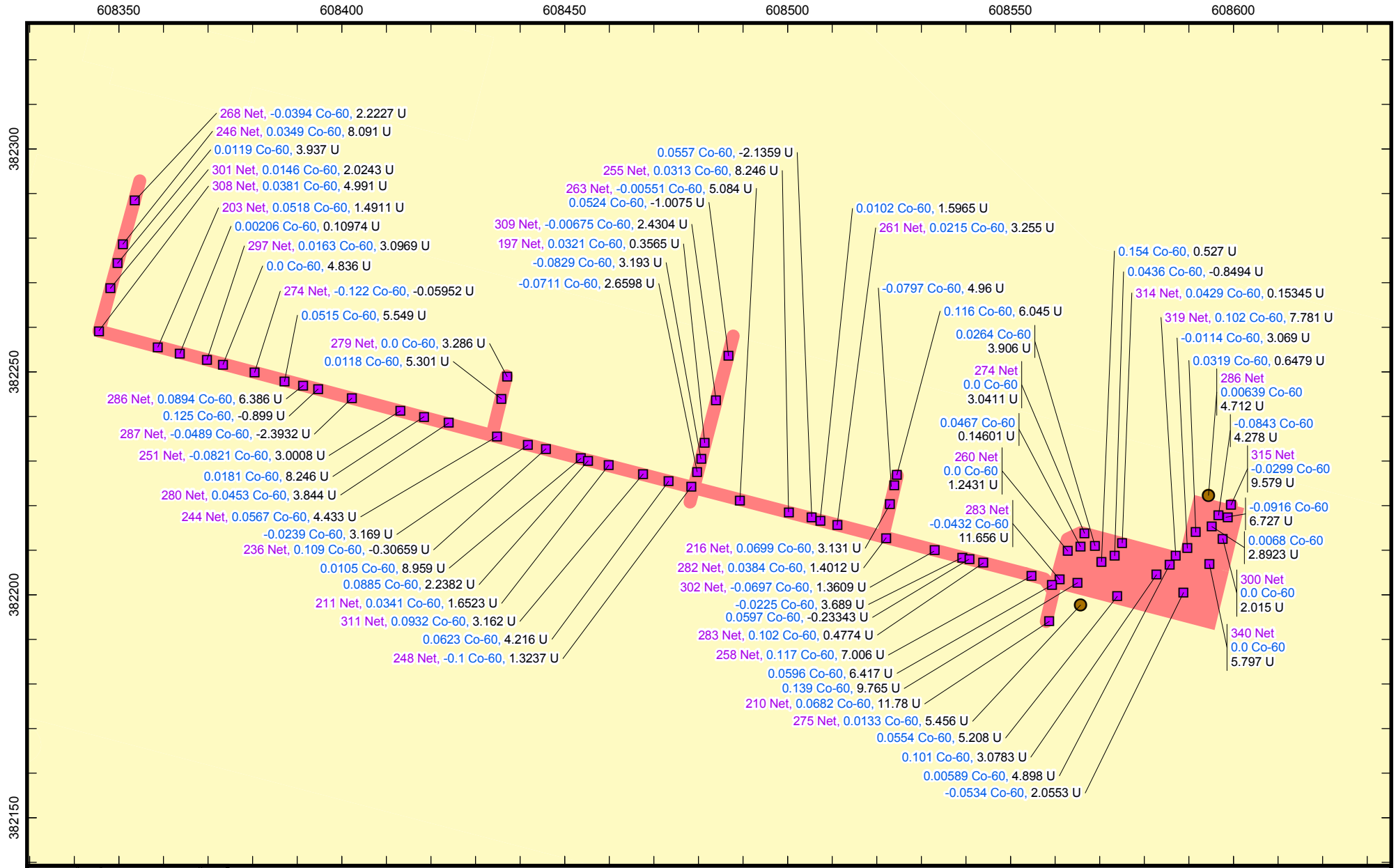
Prepared by BRP | Checked by HTD

Sample Locations
Building 17 Complex
Storm Line - New

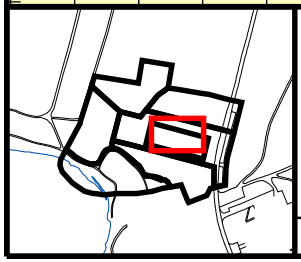
Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABBWIN\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Storm_New_Trench.pdf 02/01/2006 3:31 PM brpeters



CT State Plane NAD 27 Feet:



N

0 15 30 Feet

Prepared by BRP | Checked by HTD

Legend

Hot Waste Line:

Trench

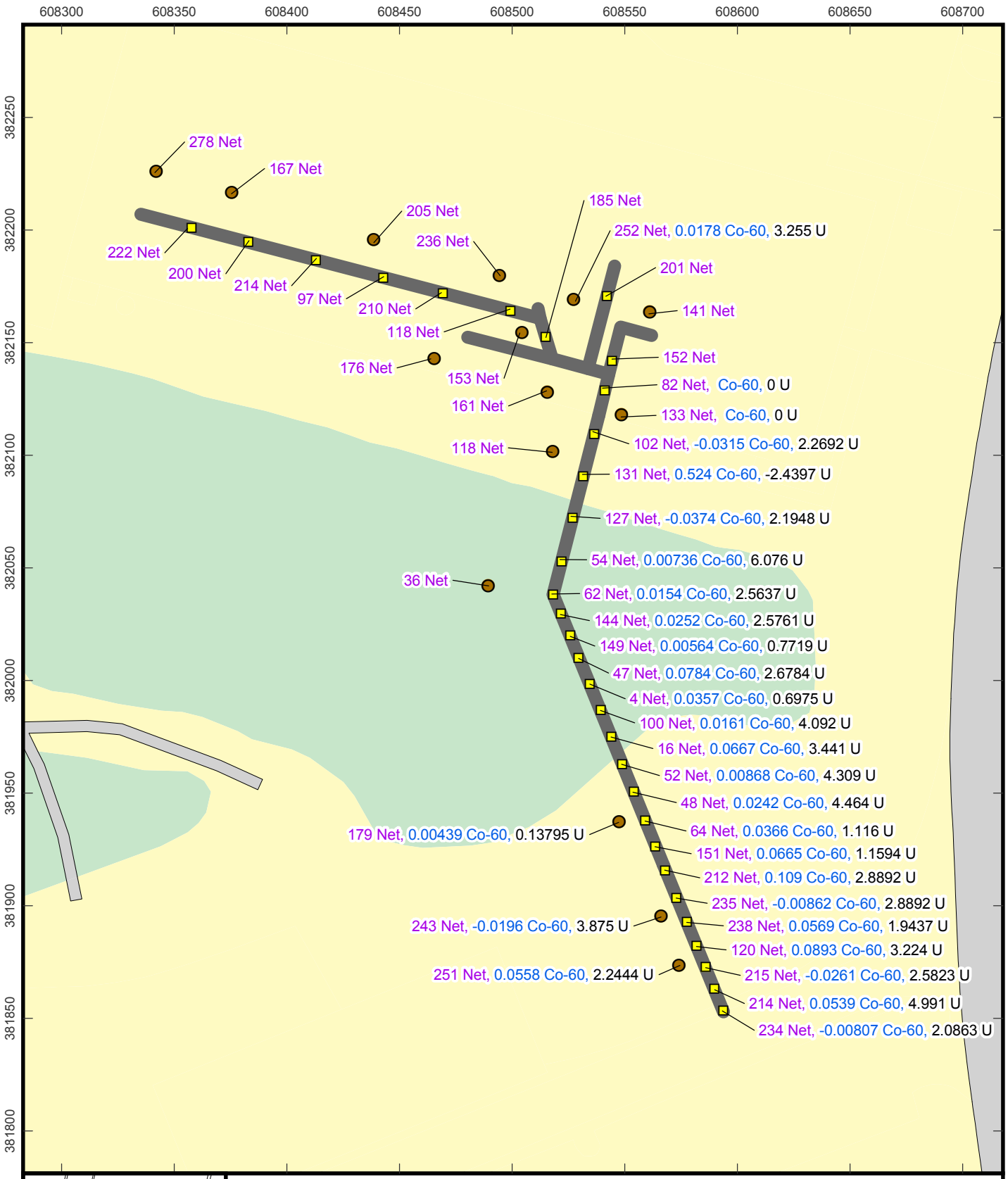
Trench Sample

Spoils Pile Sample

Net (cpm)
Co-60 (pCi/g)
Total U (pCi/g)

Sample Results
Building 17 Complex
Hot Waste Line
Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC



CT State Plane NAD 27 Feet:

Legend

Industrial Waste Line:
- Trench
- Spoils Pile Sample
- Trench Sample

Net (cpm)
Co-60 (pCi/g)
Total U (pCi/g)

N

0 30 60 Feet

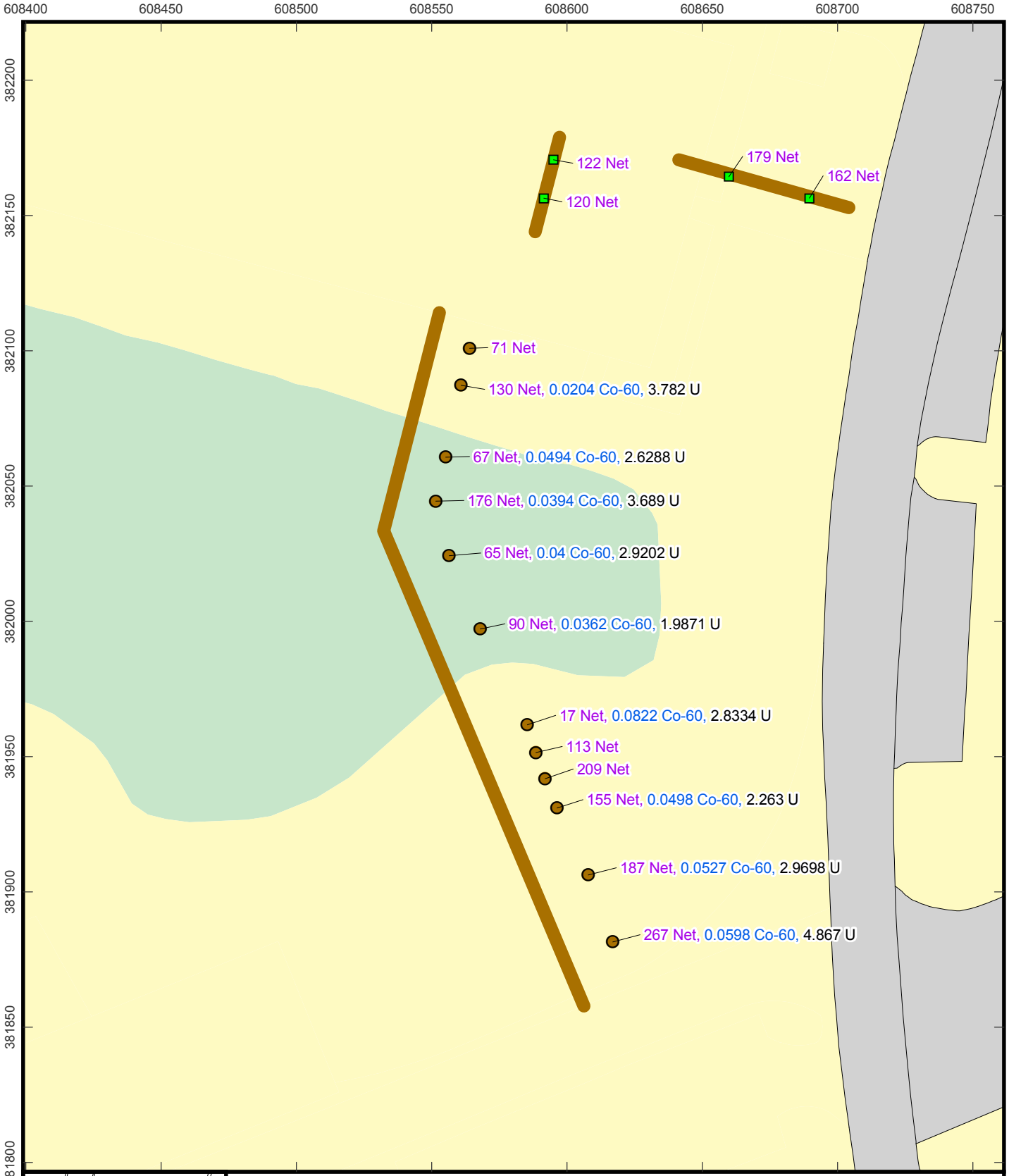
Prepared by BRP | Checked by HTD

Sample Results
Building 17 Complex
Industrial Waste Line

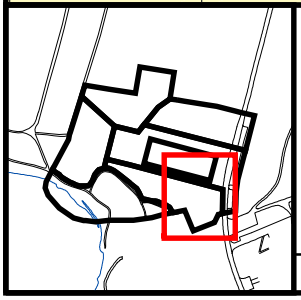
Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_IndWaste_Trench_Data.pdf 01/19/2006 4:31 PM brpeters



CT State Plane NAD 27 Feet:



Legend

Sanitary Line:
- Trench
- Spoils Pile Sample
- Trench Sample

Net (cpm)
Co-60 (pCi/g)
Total U (pCi/g)

N

0 25 50 Feet

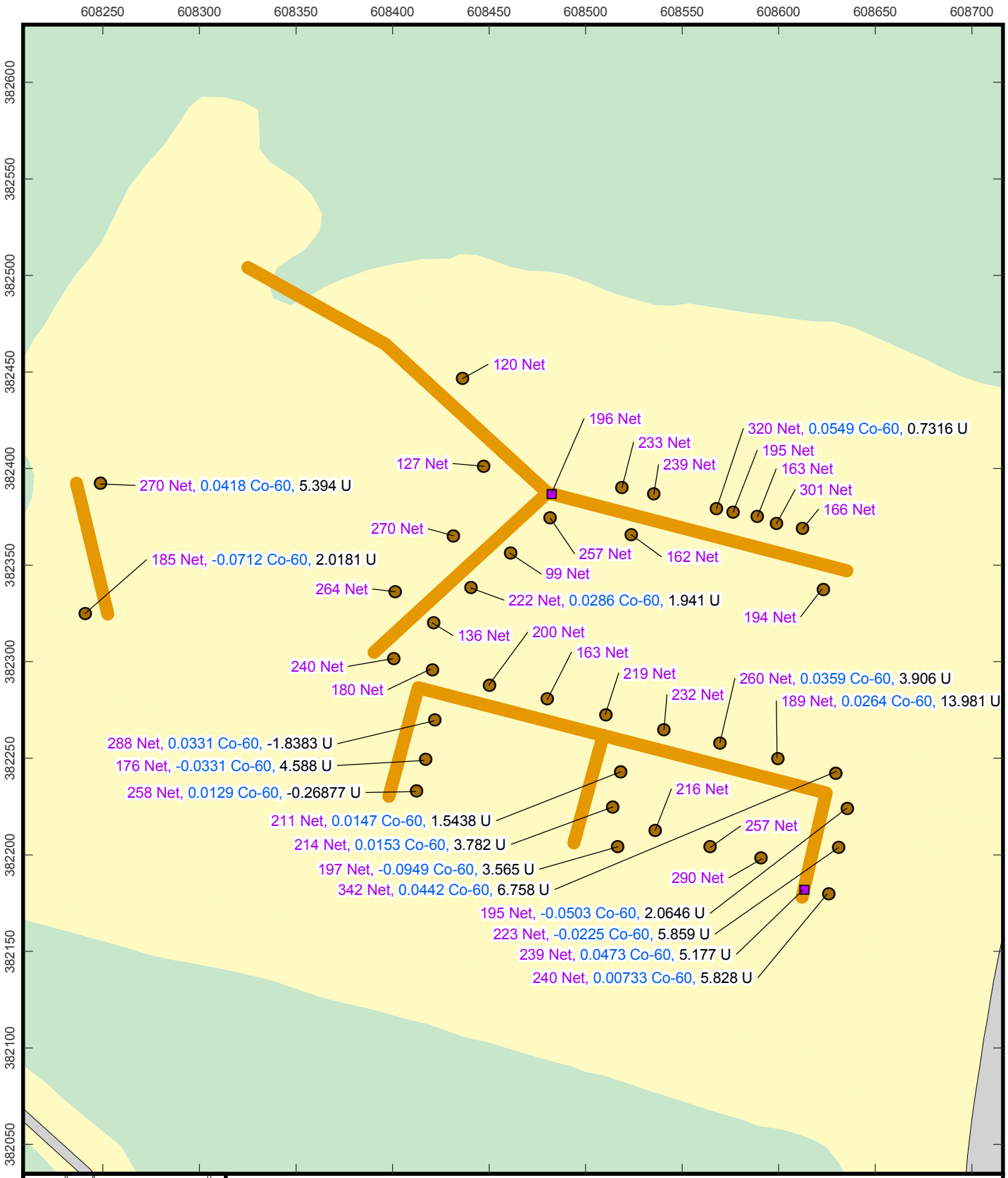
Prepared by BRP | Checked by HTD

Sample Results
Building 17 Complex
Sanitary Line

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\abbwin\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Sanitary_Trench_Data.pdf 01/19/2006 4:30 PM brpeters



CT State Plane NAD 27 Feet:

Legend

Storm Line (Old):
- Trench
- Spoils Pile Sample
- Trench Sample

Net (cpm)
Co-60 (pCi/g)
Total U (pCi/g)

N

0 35 70 Feet

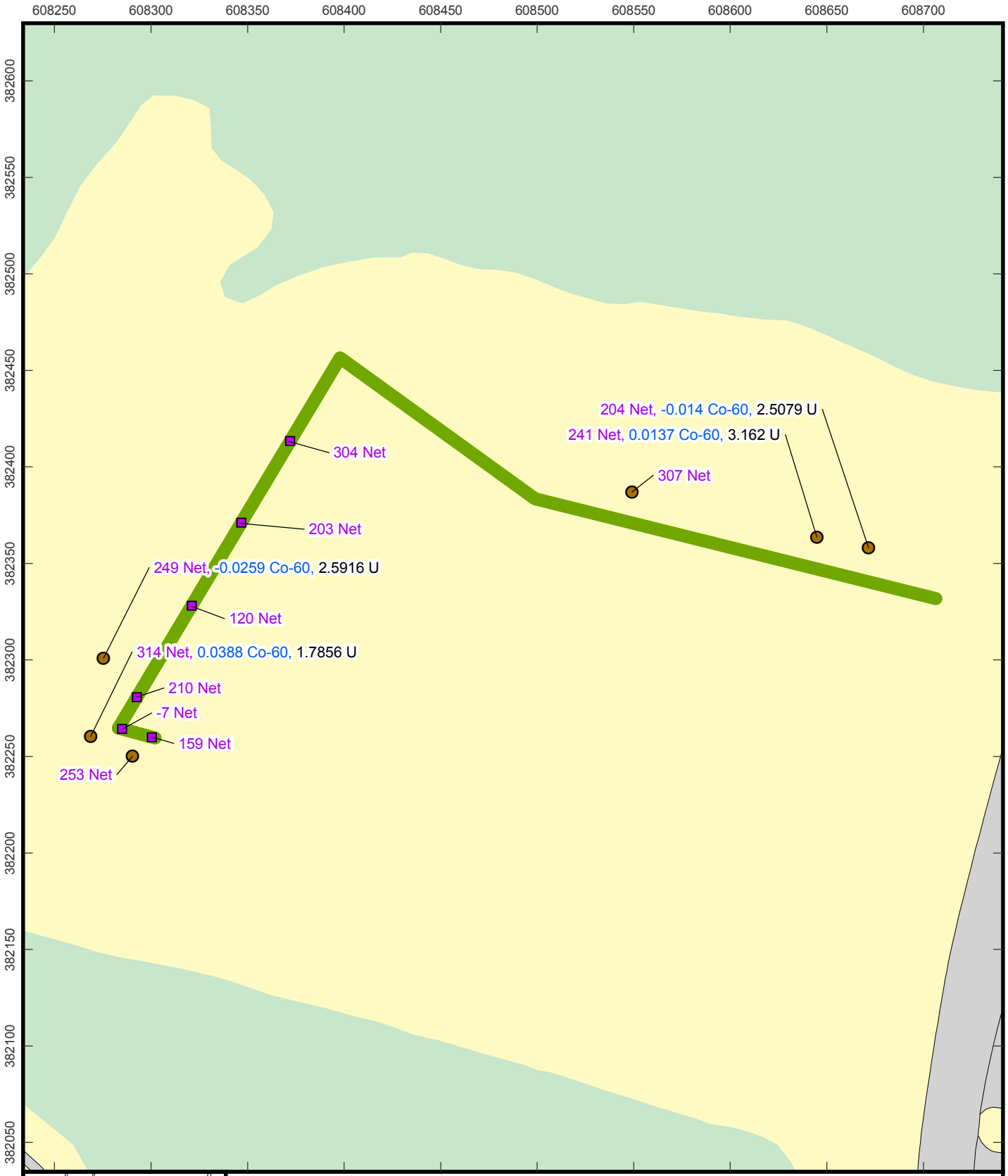
Prepared by BRP | Checked by HTD

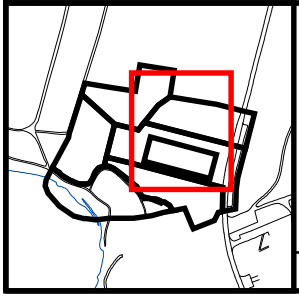
Sample Results
Building 17 Complex
Storm Line - Old

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABB\WIN\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Storm_Old_Trench_Data.pdf 02/01/2006 3:30 PM brpeters





CT State Plane NAD 27 Feet:

Legend

Storm Line (New):

Trench

Spoils Pile Sample

Trench Sample

Net (cpm)
Co-60 (pCi/g)
Total U (pCi/g)

N

0 35 70 Feet

Prepared by BRP | Checked by HTD

Sample Results
Building 17 Complex
Storm Line - New

Final Status Survey
CE Windsor Site
Windsor, Connecticut

MACTEC

Document: P:\Projects\ABBWIN\GIS-Av8\MapDocuments\FSS\B17_Complex_FSS_8x11P.mxd PDF: P:\Projects\abbwin\GIS-Av8\Figures\FSS\B17_Complex\B17_Storm_New_Trench_Data.pdf 02/01/2006 3:31 PM brpeters

Building 17 Complex Trench Surveys

Volumetric Soil Sample Results

Sample ID	Utility Type	Location	Co-60 (pCi/g)				U-235 (pCi/g)				Total U (pCi/g)	Sum of Fraction
			Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier		
MAC-0410-144	Storm	SP	-2.59E-02	-7.66E-02	1.33E-01	U	8.36E-02	9.65E-02	1.86E-01	U	2.6	-0.001
MAC-0410-146	Storm	SP	3.88E-02	7.25E-02	1.63E-02	U	5.76E-02	9.88E-02	1.83E-01	U	1.8	0.011
MAC-0410-174	Storm	SP	-1.40E-02	8.08E-02	1.43E-01	U	8.09E-02	8.34E-02	1.60E-01	U	2.5	0.002
MAC-0410-175	Storm	SP	1.37E-02	7.57E-02	1.52E-01	U	1.02E-01	9.16E-02	1.74E-01	U	3.2	0.008
MAC-0410-226	Storm	SP	5.49E-02	7.73E-02	1.87E-01	U	2.36E-02	1.14E-01	2.05E-01	U	0.7	0.012
MAC-0411-196	Storm	SP	4.18E-02	7.11E-02	1.49E-01	U	1.74E-01	8.38E-02	1.63E-01		5.4	0.018
MAC-0411-197	Storm	SP	-7.12E-02	6.47E-02	1.01E-01	U	6.51E-02	7.58E-02	1.41E-01	U	2.0	-0.011
MAC-0411-218	Storm	SP	2.86E-02	8.87E-02	1.84E-01	U	6.26E-02	1.18E-01	2.18E-01	U	1.9	0.009
MAC-0411-502	Storm	SP	2.64E-02	4.63E-02	9.06E-02	U	4.51E-01	2.28E-01	1.34E-01	U	14.0	0.030
MAC-0411-512	Storm	SP	3.59E-02	6.75E-02	1.50E-01	U	1.26E-01	9.59E-02	1.84E-01	U	3.9	0.014
MAC-0411-516	Storm	SP	4.42E-02	9.12E-02	1.95E-01	U	2.18E-01	3.04E-01	2.57E-01	U	6.8	0.021
MAC-0411-568	Indust	SP	1.78E-02	7.26E-02	1.48E-01	U	1.05E-01	9.35E-02	1.75E-01	U	3.3	0.009
MAC-0411-581	Indust	TB	9.70E-02	7.05E-02	1.67E-01	U	5.01E-01	1.02E-01	2.67E-01		15.5	0.047
MAC-0501-123	Sanitary	SP	4.98E-02	7.77E-02	1.76E-01	U	7.30E-02	1.15E-01	2.16E-01	U	2.3	0.014
MAC-0501-136	Sanitary	SP	3.94E-02	8.21E-02	1.74E-01	U	1.19E-01	7.92E-02	1.92E-01	U	3.7	0.015
MAC-0501-145	Indust	TB	-3.15E-02	1.50E-01	1.74E-01	U	7.32E-02	1.59E-01	3.08E-01	U	2.3	-0.002
MAC-0501-146	Indust	TB	5.24E-01	1.09E-01	2.41E-01		-7.87E-02	1.51E-01	2.63E-01	U	-2.4	0.100
MAC-0501-147	Indust	TB	-3.74E-02	1.17E-01	2.15E-01	U	7.08E-02	1.37E-01	2.64E-01	U	2.2	-0.004
MAC-0501-148	Indust	TB	7.36E-03	6.16E-02	1.45E-01	U	1.96E-01	1.24E-01	2.42E-01	U	6.1	0.012
MAC-0501-149	Indust	TB	1.54E-02	8.48E-02	1.80E-01	U	8.27E-02	9.56E-02	1.86E-01	U	2.6	0.008
MAC-0501-150	Indust	TB	2.52E-02	8.29E-02	1.78E-01	U	8.31E-02	1.02E-01	1.94E-01	U	2.6	0.010
MAC-0501-151	Indust	TB	5.64E-03	8.49E-02	1.76E-01	U	2.49E-02	1.08E-01	2.01E-01	U	0.8	0.003
MAC-0501-152	Indust	TB	7.84E-02	6.93E-02	1.78E-01	U	8.64E-02	1.05E-01	2.01E-01	U	2.7	0.020
MAC-0501-153	Indust	TB	3.57E-02	1.10E-01	2.27E-01	U	2.25E-02	1.12E-01	2.07E-01	U	0.7	0.008
MAC-0501-154	Indust	TB	1.61E-02	7.19E-02	1.57E-01	U	1.32E-01	1.19E-01	2.29E-01	U	4.1	0.011
MAC-0501-155	Indust	TB	6.67E-02	1.05E-01	2.48E-01	U	1.11E-01	1.26E-01	2.52E-01	U	3.4	0.020
MAC-0501-156	Indust	TB	8.68E-03	7.92E-02	1.56E-01	U	1.39E-01	1.28E-01	2.49E-01	U	4.3	0.009
MAC-0501-157	Indust	TB	2.42E-02	7.47E-02	1.65E-01	U	1.44E-01	1.05E-01	2.06E-01	U	4.5	0.013
MAC-0501-158	Indust	TB	3.66E-02	9.02E-02	2.01E-01	U	3.60E-02	1.10E-01	2.04E-01	U	1.1	0.009
MAC-0501-159	Indust	TB	6.65E-02	8.43E-02	1.84E-01	U	3.74E-02	1.06E-01	1.96E-01	U	1.2	0.015
MAC-0501-160	Sanitary	SP	2.04E-02	6.87E-02	1.53E-01	U	1.22E-01	7.98E-02	1.61E-01	U	3.8	0.011
MAC-0501-161	Sanitary	SP	4.94E-02	8.76E-02	1.78E-01	U	8.48E-02	1.03E-01	1.96E-01	U	2.6	0.015
MAC-0501-162	Sanitary	SP	4.00E-02	6.81E-02	1.54E-01	U	9.42E-02	1.12E-01	2.11E-01	U	2.9	0.013
MAC-0501-163	Sanitary	SP	3.62E-02	8.54E-02	1.90E-01	U	6.41E-02	1.32E-01	2.47E-01	U	2.0	0.011
MAC-0501-164	Sanitary	SP	8.22E-02	1.20E-01	2.65E-01	U	9.14E-02	1.32E-01	2.53E-01	U	2.8	0.022

Building 17 Complex Trench Surveys

Volumetric Soil Sample Results

Sample ID	Utility Type	Location	Co-60 (pCi/g)				U-235 (pCi/g)				Total U (pCi/g)	Sum of Fraction
			Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier		
MAC-0501-165	Indust	SP	4.39E-03	7.57E-02	1.52E-01	U	4.45E-03	1.24E-01	2.24E-01	U	0.1	0.001
MAC-0501-167	Sanitary	SP	5.27E-02	1.02E-01	2.18E-01	U	9.58E-02	1.23E-02	2.35E-01	U	3.0	0.016
MAC-0501-168	Sanitary	SP	5.98E-02	7.51E-02	1.87E-01	U	1.57E-01	1.26E-01	2.43E-01	U	4.9	0.021
MAC-0501-169	Sanitary	TB	3.65E-02	4.75E-02	1.05E-01	U	3.63E-02	7.33E-02	1.33E-01	U	1.1	0.009
MAC-0501-171	Indust	SP	-1.96E-02	1.15E-01	1.77E-01	U	1.25E-01	1.13E-01	2.20E-01	U	3.9	0.003
MAC-0501-172	Indust	SP	5.58E-02	8.07E-02	1.81E-01	U	7.24E-02	1.15E-01	2.15E-01	U	2.2	0.015
MAC-0501-173	Indust	TB	1.09E-01	9.64E-02	2.35E-01	U	9.32E-02	1.14E-01	2.18E-01	U	2.9	0.027
MAC-0501-174	Indust	TB	-8.62E-03	6.81E-02	1.29E-01	U	9.32E-02	9.56E-02	1.82E-01	U	2.9	0.003
MAC-0501-175	Indust	TB	5.69E-02	7.89E-02	1.79E-01	U	6.27E-02	1.04E-01	1.96E-01	U	1.9	0.015
MAC-0501-176	Indust	TB	8.93E-02	9.14E-02	2.09E-01	U	1.04E-01	1.11E-01	2.14E-01	U	3.2	0.024
MAC-0501-177	Indust	TB	-2.61E-02	6.80E-02	1.29E-01	U	8.33E-02	9.95E-02	1.90E-01	U	2.6	-0.001
MAC-0501-178	Indust	TB	5.39E-02	6.61E-02	1.61E-01	U	1.61E-01	1.19E-01	2.29E-01	U	5.0	0.020
MAC-0501-179	Indust	TB	-8.07E-03	5.09E-02	9.05E-02	U	6.73E-02	6.06E-02	1.12E-01	U	2.1	0.002
MAC-0504-267	Hot	SP	1.33E-02	1.12E-01	2.45E-01	U	1.76E-01	1.42E-01	2.88E-01	U	5.5	0.012
MAC-0504-269	Hot	SP	6.39E-03	9.07E-02	2.06E-01	U	1.52E-01	1.48E-01	2.92E-01	U	4.7	0.010
MAC-0504-357	Hot	TB	-3.94E-02	1.08E-01	2.01E-01	U	7.17E-02	1.38E-01	2.63E-01	U	2.2	-0.004
MAC-0504-358	Hot	TB	3.49E-02	1.31E-01	2.66E-01	U	2.61E-01	1.51E-01	3.15E-01	U	8.1	0.022
MAC-0504-359	Hot	TB	1.46E-02	1.30E-01	2.61E-01	U	6.53E-02	1.56E-01	2.94E-01	U	2.0	0.007
MAC-0504-360	Hot	TB	3.81E-02	9.87E-02	2.35E-01	U	1.61E-01	1.53E-01	3.04E-01	U	5.0	0.017
MAC-0504-361	Hot	TB	5.18E-02	1.21E-01	2.89E-01	U	4.81E-02	1.65E-01	3.04E-01	U	1.5	0.013
MAC-0504-362	Hot	TB	1.63E-02	8.65E-02	1.95E-01	U	9.99E-02	1.26E-01	2.56E-01	U	3.1	0.009
MAC-0504-363	Hot	TB	-1.22E-01	1.47E-01	1.68E-01	U	-1.92E-03	1.57E-01	2.87E-01	U	-0.1	-0.025
MAC-0504-364	Hot	TB	8.94E-02	1.21E-01	2.99E-01	U	2.06E-01	1.65E-01	3.26E-01	U	6.4	0.029
MAC-0504-365	Hot	TB	-4.89E-02	1.67E-01	3.36E-01	U	-7.72E-02	1.74E-01	3.00E-01	U	-2.4	-0.014
MAC-0504-366	Hot	TB	-8.21E-02	1.15E-01	1.99E-01	U	9.68E-02	1.56E-01	3.02E-01	U	3.0	-0.011
MAC-0504-367	Hot	TB	4.53E-02	1.04E-01	2.50E-01	U	1.24E-01	1.52E-01	2.95E-01	U	3.8	0.016
MAC-0504-368	Hot	TB	5.67E-02	1.98E-01	4.36E-01	U	1.43E-01	2.43E-01	4.82E-01	U	4.4	0.019
MAC-0504-369	Hot	TB	0.00E+00	0.00E+00	1.06E-01	U	1.06E-01	1.94E-01	3.97E-01	U	3.3	0.006
MAC-0504-370	Hot	TB	1.09E-01	1.70E-01	3.98E-01	U	-9.89E-03	2.03E-01	3.63E-01	U	-0.3	0.021
MAC-0504-371	Hot	TB	3.41E-02	1.06E-01	2.45E-01	U	5.33E-02	1.62E-01	3.02E-01	U	1.7	0.010
MAC-0504-372	Hot	TB	9.32E-02	1.91E-01	4.31E-01	U	1.02E-01	1.63E-01	3.35E-01	U	3.2	0.024
MAC-0504-373	Hot	TB	-1.00E-01	2.07E-01	2.14E-01	U	4.27E-02	1.69E-01	3.19E-01	U	1.3	-0.018
MAC-0504-374	Hot	TB	-6.75E-03	1.57E-01	3.27E-01	U	7.84E-02	1.77E-01	3.49E-01	U	2.4	0.003
MAC-0504-375	Hot	TB	3.21E-02	1.08E-01	2.83E-01	U	1.15E-02	1.71E-01	3.20E-01	U	0.4	0.007
MAC-0504-376	Hot	TB	-5.51E-03	1.45E-01	2.63E-01	U	1.64E-01	1.51E-01	3.08E-01	U	5.1	0.008

Building 17 Complex Trench Surveys

Volumetric Soil Sample Results

Sample ID	Utility Type	Location	Co-60 (pCi/g)				U-235 (pCi/g)				Total U (pCi/g)	Sum of Fraction
			Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier		
MAC-0504-377	Hot	TB	3.13E-02	1.47E-01	3.34E-01	U	2.66E-01	1.90E-01	4.04E-01	U	8.2	0.021
MAC-0504-378	Hot	TB	2.15E-02	1.28E-01	2.89E-01	U	1.05E-01	1.71E-01	3.29E-01	U	3.3	0.010
MAC-0504-379	Hot	TB	3.84E-02	1.08E-01	2.38E-01	U	4.52E-02	1.41E-01	2.63E-01	U	1.4	0.010
MAC-0504-380	Hot	TB	6.99E-02	1.23E-01	2.96E-01	U	1.01E-01	1.61E-01	3.16E-01	U	3.1	0.020
MAC-0504-381	Hot	TB	-6.97E-02	1.39E-01	2.10E-01	U	4.39E-02	1.59E-01	3.05E-01	U	1.4	-0.011
MAC-0504-382	Hot	TB	1.02E-01	1.55E-01	4.01E-01	U	1.54E-02	1.73E-01	3.28E-01	U	0.5	0.021
MAC-0504-383	Hot	TB	1.17E-01	1.20E-01	3.03E-01	U	2.26E-01	1.53E-01	3.17E-01	U	7.0	0.036
MAC-0504-384	Hot	TB	-4.32E-02	2.19E-01	4.14.E-1	U	3.76E-01	2.24E-01	4.50E-01	U	11.7	0.012
MAC-0504-385	Hot	TB	6.82E-02	1.36E-01	5.02E-01	U	3.80E-01	2.48E-01	5.42E-01	U	11.8	0.035
MAC-0504-386	Hot	TB	0.00E+00	0.00E+00	1.99E-01	U	4.01E-02	2.38E-01	4.35E-01	U	1.2	0.002
MAC-0504-387	Hot	TB	0.00E+00	0.00E+00	1.60E-01	U	9.81E-02	2.27E-01	4.25E-01	U	3.0	0.005
MAC-0504-388	Hot	TB	4.29E-02	8.59E-02	3.16E-01	U	4.95E-03	1.88E-01	3.29E-01	U	0.2	0.009
MAC-0504-389	Hot	TB	1.02E-01	1.45E-01	4.75E-01	U	2.51E-01	1.97E-01	4.08E-01	U	7.8	0.034
MAC-0504-390	Hot	TB	0.00E+00	0.00E+00	1.05E-01	U	1.87E-01	2.03E-01	3.91E-01	U	5.8	0.010
MAC-0504-391	Hot	TB	0.00E+00	0.00E+00	1.59E-01	U	6.50E-02	2.58E-01	4.75E-01	U	2.0	0.004
MAC-0504-392	Hot	TB	-2.99E-02	2.37E-01	3.71E-01	U	3.09E-01	1.98E-01	4.08E-01	U	9.6	0.011
MAC-0505-064	Hot	TB	1.19E-02	1.62E-01	2.82E-01	U	1.27E-01	1.69E-01	3.28E-01	U	3.9	0.009
MAC-0505-065	Hot	TB	2.06E-03	1.43E-01	2.97E-01	U	3.54E-03	1.81E-01	3.34E-01	U	0.1	0.001
MAC-0505-066	Hot	TB	0.00E+00	0.00E+00	6.09E-02	U	1.56E-01	1.66E-01	3.30E-01	U	4.8	0.009
MAC-0505-067	Hot	TB	5.15E-02	1.13E-01	2.71E-01	U	1.79E-01	1.74E-01	3.48E-01	U	5.5	0.020
MAC-0505-068	Hot	TB	1.25E-01	1.31E-01	3.39E-01	U	-2.90E-02	1.71E-01	3.09E-01	U	-0.9	0.023
MAC-0505-069	Hot	TB	1.81E-02	1.39E-01	2.87E-01	U	2.66E-01	1.64E-01	3.39E-01	U	8.2	0.018
MAC-0505-070	Hot	TB	1.18E-02	1.43E-01	3.02E-01	U	1.71E-01	1.77E-01	3.51E-01	U	5.3	0.012
MAC-0505-071	Hot	TB	-2.39E-02	1.32E-01	1.90E-01	U	1.05E-01	1.74E-01	3.32E-01	U	3.3	0.001
MAC-0505-072	Hot	TB	1.05E-02	1.37E-01	2.84E-01	U	2.89E-01	1.39E-01	2.82E-01		9.0	0.018
MAC-0505-073	Hot	TB	8.85E-02	1.27E-01	3.03E-01	U	7.22E-02	1.72E-01	3.24E-01	U	2.2	0.022
MAC-0505-074	Hot	TB	6.23E-02	1.32E-01	2.98E-01	U	1.36E-01	1.59E-01	3.10E-01	U	4.2	0.020
MAC-0505-075	Hot	TB	5.24E-02	1.00E-01	2.47E-01	U	-3.25E-02	1.70E-01	3.02E-01	U	-1.0	0.009
MAC-0505-076	Hot	TB	-8.29E-02	9.50E-02	1.37E-01	U	1.03E-01	1.45E-01	2.82E-01	U	3.2	-0.011
MAC-0505-077	Hot	TB	-7.11E-02	1.64E-01	2.56E-01	U	8.58E-02	1.60E-01	3.07E-01	U	2.7	-0.009
MAC-0505-078	Hot	TB	5.57E-02	1.24E-01	2.75E-01	U	-6.89E-02	1.36E-01	2.27E-01	U	-2.1	0.007
MAC-0505-079	Hot	TB	1.02E-02	9.07E-02	2.13E-01	U	5.15E-02	1.63E-01	3.04E-01	U	1.6	0.005
MAC-0505-080	Hot	TB	1.16E-01	1.26E-01	3.08E-01	U	1.95E-01	1.59E-01	3.21E-01	U	6.0	0.034
MAC-0505-081	Hot	TB	-7.97E-02	1.44E-01	2.48E-01	U	1.60E-01	1.53E-01	3.02E-01	U	5.0	-0.007
MAC-0505-082	Hot	TB	-2.25E-02	1.32E-01	2.54E-01	U	1.19E-01	1.39E-01	2.77E-01	U	3.7	0.002

Building 17 Complex Trench Surveys

Volumetric Soil Sample Results

Sample ID	Utility Type	Location	Co-60 (pCi/g)				U-235 (pCi/g)				Total U (pCi/g)	Sum of Fraction
			Activity	Uncert.	MDC	Qualifier	Activity	Uncert.	MDC	Qualifier		
MAC-0505-084	Hot	TB	5.96E-02	1.43E-01	3.10E-01	U	2.07E-01	1.56E-01	3.15E-01	U	6.4	0.023
MAC-0505-085	Hot	TB	4.67E-02	6.84E-02	1.91E-01	U	4.71E-03	1.48E-01	2.71E-01	U	0.1	0.010
MAC-0505-086	Hot	TB	1.39E-01	1.36E-01	3.48E-01	U	3.15E-01	1.90E-01	3.87E-01	U	9.8	0.045
MAC-0505-087	Hot	TB	2.64E-02	1.35E-01	2.99E-01	U	1.26E-01	1.56E-01	3.12E-01	U	3.9	0.012
MAC-0505-088	Hot	TB	1.54E-01	1.25E-01	3.37E-01	U	1.70E-02	1.64E-01	3.00E-01	U	0.5	0.032
MAC-0505-089	Hot	TB	4.36E-02	1.34E-01	2.91E-01	U	-2.74E-02	1.75E-01	3.13E-01	U	-0.8	0.007
MAC-0505-090	Hot	TB	5.54E-02	1.29E-01	2.93E-01	U	1.68E-01	1.53E-01	3.03E-01	U	5.2	0.020
MAC-0505-091	Hot	TB	1.01E-01	1.14E-01	2.95E-01	U	9.93E-02	1.67E-01	3.18E-01	U	3.1	0.026
MAC-0505-092	Hot	TB	5.89E-03	1.22E-01	2.57E-01	U	1.58E-01	1.77E-01	3.46E-01	U	4.9	0.010
MAC-0505-093	Hot	TB	-5.34E-02	1.42E-01	2.41E-01	U	6.63E-02	1.68E-01	3.18E-01	U	2.1	-0.007
MAC-0505-094	Hot	TB	-1.14E-02	1.40E-01	2.89E-01	U	9.90E-02	1.95E-01	3.70E-01	U	3.1	0.003
MAC-0505-095	Hot	TB	3.19E-02	1.19E-01	2.51E-01	U	2.09E-02	1.60E-01	2.94E-01	U	0.6	0.008
MAC-0505-096	Hot	TB	6.80E-03	1.09E-01	2.47E-01	U	9.33E-02	1.90E-01	3.59E-01	U	2.9	0.007
MAC-0505-097	Hot	TB	-8.43E-02	1.45E-01	2.33E-01	U	1.38E-01	1.65E-01	3.23E-01	U	4.3	-0.009
MAC-0505-098	Hot	TB	-9.16E-02	1.26E-01	1.97E-01	U	2.17E-01	1.58E-01	3.20E-01	U	6.7	-0.006
MAC-0505-156	Storm	SP	3.31E-02	1.12E-01	2.60E-01	U	-5.93E-02	1.58E-01	2.77E-01	U	-1.8	0.003
MAC-0505-157	Storm	SP	-3.31E-02	1.43E-01	2.80E-01	U	1.48E-01	1.62E-01	3.25E-01	U	4.6	0.002
MAC-0505-158	Storm	SP	1.29E-02	1.59E-01	3.29E-01	U	-8.67E-03	1.81E-01	3.26E-01	U	-0.3	0.002
MAC-0505-159	Storm	SP	1.47E-02	1.23E-01	2.61E-01	U	4.98E-02	1.45E-01	2.76E-01	U	1.5	0.006
MAC-0505-160	Storm	SP	1.53E-02	1.82E-01	3.43E-01	U	1.22E-01	1.72E-01	3.30E-01	U	3.8	0.010
MAC-0505-161	Storm	SP	-9.49E-02	1.44E-01	2.50E-01	U	1.15E-01	1.62E-01	3.12E-01	U	3.6	-0.013
MAC-0505-162	Storm	SP	-5.03E-02	1.43E-01	2.65E-01	U	6.66E-02	1.91E-01	3.60E-01	U	2.1	-0.006
MAC-0505-163	Storm	SP	-2.25E-02	1.33E-01	2.70E-01	U	1.89E-01	1.77E-01	3.52E-01	U	5.9	0.006
MAC-0505-164	Storm	SP	7.33E-03	8.35E-02	2.04E-01	U	1.88E-01	2.03E-01	3.87E-01	U	5.8	0.012
MAC-0505-165	Storm	TB	4.73E-02	1.11E-01	2.54E-01	U	1.67E-01	1.46E-01	2.92E-01	U	5.2	0.019

Building 17 Complex Trench Surveys

Volumetric Sample Location Scan Survey

Sample ID	Utility Type	Scan Location	Trench/Spoils Scan Instrument				Trench/Spoils Scan Result	
			Inst Model	Serial #	Dect Model	Serial #	Bkgd (cpm)	Scan Result (cpm)
MAC-0411-196	Storm	SP	2224	183077	43-93	212501	270	Bkgd
MAC-0411-197	Storm	SP	2224	183077	43-93	212501	270	Bkgd
MAC-0411-247	Storm	SP	2224	183077	43-93	212501	349	Bkgd
MAC-0411-248	Storm	SP	2224	183077	43-93	212501	349	Bkgd
MAC-0411-249	Storm	SP	2224	183077	43-93	212501	349	Bkgd
MAC-0411-579	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-580	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-581	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-582	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-583	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-584	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-585	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-586	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-587	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0411-588	Indust	TB	2224	183077	43-93	212501	415	Bkgd
MAC-0501-145	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-146	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-147	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-148	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-149	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-150	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-151	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-152	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-153	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-154	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-155	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-156	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-157	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-158	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-159	Indust	TB	2221	117651	44-10	192589	3700-4200	3700-4200
MAC-0501-160	Sanitary	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-161	Sanitary	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-162	Sanitary	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-163	Sanitary	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-164	Sanitary	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-165	Indust	SP	2221	117651	44-10	192589	2800-3400	2800-3400
MAC-0501-169	Sanitary	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-173	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-174	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-175	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-176	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-177	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-178	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0501-179	Indust	TB	2221	97833	44-10	0534	4000	Bkgd
MAC-0505-156	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-157	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-158	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-159	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-160	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900

Building 17 Complex Trench Surveys

Volumetric Sample Location Scan Survey

Sample ID	Utility Type	Scan Location	Trench/Spoils Scan Instrument				Trench/Spoils Scan Result	
			Inst Model	Serial #	Dect Model	Serial #	Bkgd (cpm)	Scan Result (cpm)
MAC-0505-161	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-162	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-163	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-164	Storm	SP	2350-1	186175	44-10	199144	2500-2800	2800-3900
MAC-0505-165	Storm	TB	2350-1	186175	44-10	199144	2500-2800	5000

Building 17 Complex Trench Surveys

Volumetric Sample Screening

Sample ID	Utility Type	Location	2x2 NaI Counting Volumetric Sample Gross (cpm)	Bkgd (cpm)	Net (cpm)
MAC-0410-144	Storm	SP	585	336	249
MAC-0410-146	Storm	SP	583	269	314
MAC-0410-153	Storm	TB	465	472	-7
MAC-0410-154	Storm	TB	560	350	210
MAC-0410-155	Storm	TB	470	350	120
MAC-0410-156	Storm	TB	459	256	203
MAC-0410-157	Storm	TB	560	256	304
MAC-0410-158	Storm	SP	624	371	253
MAC-0410-159	Storm	TB	474	315	159
MAC-0410-174	Storm	SP	521	317	204
MAC-0410-175	Storm	SP	558	317	241
MAC-0410-178	Storm	SP	624	317	307
MAC-0410-181	Storm	SP	598	297	301
MAC-0410-182	Storm	SP	492	297	195
MAC-0410-207	Storm	SP	530	368	162
MAC-0410-210	Storm	TB	546	350	196
MAC-0410-216	Storm	SP	499	379	120
MAC-0410-222	Storm	SP	575	342	233
MAC-0410-223	Storm	SP	581	342	239
MAC-0410-224	Storm	SP	508	342	166
MAC-0410-225	Storm	SP	549	386	163
MAC-0410-226	Storm	SP	706	386	320
MAC-0410-227	Storm	SP	528	334	194
MAC-0410-235	Storm	SP	523	266	257
MAC-0410-237	Storm	SP	463	336	127
MAC-0410-346	Sanitary	TB	465	303	162
MAC-0410-347	Sanitary	TB	482	303	179
MAC-0410-351	Sanitary	TB	514	392	122
MAC-0410-352	Sanitary	TB	512	392	120
MAC-0411-196	Storm	SP	640	370	270
MAC-0411-197	Storm	SP	555	370	185
MAC-0411-217	Storm	SP	440	341	99
MAC-0411-218	Storm	SP	553	341	212
MAC-0411-219	Storm	SP	477	341	136
MAC-0411-247	Storm	SP	536	266	270
MAC-0411-248	Storm	SP	530	266	264
MAC-0411-249	Storm	SP	506	266	240
MAC-0411-502	Storm	SP	505	316	189
MAC-0411-509	Storm	SP	526	363	163
MAC-0411-510	Storm	SP	582	363	219
MAC-0411-511	Storm	SP	595	363	232
MAC-0411-512	Storm	SP	623	363	260
MAC-0411-516	Storm	SP	594	252	342
MAC-0411-517	Storm	SP	500	300	200
MAC-0411-519	Storm	SP	480	300	180
MAC-0411-532	Indust	SP	622	344	278
MAC-0411-534	Storm	SP	560	344	216
MAC-0411-535	Storm	SP	601	344	257

Building 17 Complex Trench Surveys

Volumetric Sample Screening

Sample ID	Utility Type	Location	2x2 NaI Counting Volumetric Sample		
			Gross (cpm)	Bkgd (cpm)	Net (cpm)
MAC-0411-536	Storm	SP	634	344	290
MAC-0411-555	Indust	SP	523	370	153
MAC-0411-565	Indust	SP	537	370	167
MAC-0411-566	Indust	SP	575	370	205
MAC-0411-567	Indust	SP	606	370	236
MAC-0411-568	Indust	SP	622	370	252
MAC-0411-569	Indust	SP	511	370	141
MAC-0411-570	Indust	SP	503	370	133
MAC-0411-571	Indust	SP	531	370	161
MAC-0411-572	Indust	SP	546	370	176
MAC-0411-579	Indust	TB	566	344	222
MAC-0411-580	Indust	TB	544	344	200
MAC-0411-581	Indust	TB	558	344	214
MAC-0411-582	Indust	TB	441	344	97
MAC-0411-583	Indust	TB	554	344	210
MAC-0411-584	Indust	TB	462	344	118
MAC-0411-585	Indust	TB	529	344	185
MAC-0411-586	Indust	TB	426	344	82
MAC-0411-587	Indust	TB	496	344	152
MAC-0411-588	Indust	TB	545	344	201
MAC-0501-123	Sanitary	SP	522	367	155
MAC-0501-124	Sanitary	SP	576	367	209
MAC-0501-125	Sanitary	SP	480	367	113
MAC-0501-133	Indust	SP	484	366	118
MAC-0501-134	Sanitary	SP	437	366	71
MAC-0501-135	Indust	SP	402	366	36
MAC-0501-136	Sanitary	SP	542	366	176
MAC-0501-145	Indust	TB	466	364	102
MAC-0501-146	Indust	TB	495	364	131
MAC-0501-147	Indust	TB	491	364	127
MAC-0501-148	Indust	TB	418	364	54
MAC-0501-149	Indust	TB	426	364	62
MAC-0501-150	Indust	TB	478	364	144
MAC-0501-151	Indust	TB	513	364	149
MAC-0501-152	Indust	TB	411	364	47
MAC-0501-153	Indust	TB	368	364	4
MAC-0501-154	Indust	TB	464	364	100
MAC-0501-155	Indust	TB	380	364	16
MAC-0501-156	Indust	TB	461	364	52
MAC-0501-157	Indust	TB	412	364	48
MAC-0501-158	Indust	TB	428	364	64
MAC-0501-159	Indust	TB	515	364	151
MAC-0501-160	Sanitary	SP	494	364	130
MAC-0501-161	Sanitary	SP	431	364	67
MAC-0501-162	Sanitary	SP	429	364	65
MAC-0501-163	Sanitary	SP	454	364	90
MAC-0501-164	Sanitary	SP	381	364	17
MAC-0501-165	Indust	SP	543	364	179

Building 17 Complex Trench Surveys

Volumetric Sample Screening

Sample ID	Utility Type	Location	2x2 NaI Counting Volumetric Sample		
			Gross (cpm)	Bkgd (cpm)	Net (cpm)
MAC-0501-167	Sanitary	SP	388	201	187
MAC-0501-168	Sanitary	SP	468	201	267
MAC-0501-169	Sanitary	TB	467	201	266
MAC-0501-171	Indust	SP	444	201	243
MAC-0501-172	Indust	SP	452	201	251
MAC-0501-173	Indust	TB	413	201	212
MAC-0501-174	Indust	TB	436	201	235
MAC-0501-175	Indust	TB	439	201	238
MAC-0501-176	Indust	TB	321	201	120
MAC-0501-177	Indust	TB	416	201	215
MAC-0501-178	Indust	TB	415	201	214
MAC-0501-179	Indust	TB	435	201	234
MAC-0504-267	Hot	SP	580	305	275
MAC-0504-269	Hot	SP	591	305	286
MAC-0504-357	Hot	TB	585	317	268
MAC-0504-358	Hot	TB	563	317	246
MAC-0504-359	Hot	TB	618	317	301
MAC-0504-360	Hot	TB	625	317	308
MAC-0504-361	Hot	TB	520	317	203
MAC-0504-362	Hot	TB	614	317	297
MAC-0504-363	Hot	TB	591	317	274
MAC-0504-364	Hot	TB	603	317	286
MAC-0504-365	Hot	TB	604	317	287
MAC-0504-366	Hot	TB	568	317	251
MAC-0504-367	Hot	TB	597	317	280
MAC-0504-368	Hot	TB	561	317	244
MAC-0504-369	Hot	TB	596	317	279
MAC-0504-370	Hot	TB	553	317	236
MAC-0504-371	Hot	TB	528	317	211
MAC-0504-372	Hot	TB	628	317	311
MAC-0504-373	Hot	TB	565	317	248
MAC-0504-374	Hot	TB	626	317	309
MAC-0504-375	Hot	TB	514	317	197
MAC-0504-376	Hot	TB	580	317	263
MAC-0504-377	Hot	TB	572	317	255
MAC-0504-378	Hot	TB	578	317	261
MAC-0504-379	Hot	TB	599	317	282
MAC-0504-380	Hot	TB	533	317	216
MAC-0504-381	Hot	TB	619	317	302
MAC-0504-382	Hot	TB	600	317	283
MAC-0504-383	Hot	TB	575	317	258
MAC-0504-384	Hot	TB	600	317	283
MAC-0504-385	Hot	TB	527	317	210
MAC-0504-386	Hot	TB	577	317	260
MAC-0504-387	Hot	TB	591	317	274
MAC-0504-388	Hot	TB	631	317	314
MAC-0504-389	Hot	TB	636	317	319
MAC-0504-390	Hot	TB	657	317	340

Building 17 Complex Trench Surveys

Volumetric Sample Screening

Sample ID	Utility Type	Location	2x2 NaI Counting Volumetric Sample		
			Gross (cpm)	**Bkgd** (cpm)	**Net** (cpm)
MAC-0504-391	Hot	TB	617	317	300
MAC-0504-392	Hot	TB	632	317	315
MAC-0505-156	Storm	SP	581	293	288
MAC-0505-157	Storm	SP	469	293	176
MAC-0505-158	Storm	SP	551	293	258
MAC-0505-159	Storm	SP	504	293	211
MAC-0505-160	Storm	SP	507	293	214
MAC-0505-161	Storm	SP	490	293	197
MAC-0505-162	Storm	SP	488	293	195
MAC-0505-163	Storm	SP	516	293	223
MAC-0505-164	Storm	SP	533	293	240
MAC-0505-165	Storm	TB	532	293	239

Descriptive Statistics Report

Summary Section of Co-60

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
131	2.548695E-02	6.801333E-02	5.942352E-03	-0.122	0.524	0.646

Counts Section of Co-60

Rows	Sum of Frequencies	Sum of Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
131	131	0	122	3.33879	0.6864511	0.6013556

Means Section of Co-60

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	2.548695E-02	0.0252	3.533969E-02	4.275685E-02	3.33879	0
Std Error	5.942352E-03				0.778448	
95% LCL	1.373072E-02	0.0137	0.0291986	2.793509E-02	1.798724	
95% UCL	3.724318E-02	0.0359	4.277239E-02	9.108412E-02	4.878856	
T-Value	4.2890					
Prob Level	0.000035					
Count	131		93	125		6

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of Co-60

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	4.625812E-03	6.801333E-02	6.814424E-02	5.942352E-03	0.0539	0.646
Std Error	1.917957E-03	1.994022E-02		1.742185E-03		
95% LCL	3.67907E-03	6.065534E-02		5.299482E-03		
95% UCL	5.993701E-03	0.077419		6.764129E-03		

Skewness and Kurtosis Section of Co-60

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient % UCL
Value	2.822007	23.52024	2.8548	21.37278	2.668555	1.71756
Std Error	1.192688	4.145954			0.5314146	

Trimmed Section of Co-60

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	2.311022E-02	2.385248E-02	2.415153E-02	2.512542E-02	2.479272E-02	2.463053E-02
Trim-Std Dev	4.100936E-02	3.147348E-02	2.473852E-02	1.645733E-02	1.050833E-02	5.524347E-03
Count	117.9	104.8	91.7	65.5	39.3	13.1

Mean-Deviation Section of Co-60

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	4.328471E-02	4.328252E-02	4.590501E-03	8.777041E-04	4.956349E-04
Std Error	3.580414E-03		1.903316E-03	8.906513E-04	4.564189E-04

Descriptive Statistics Report

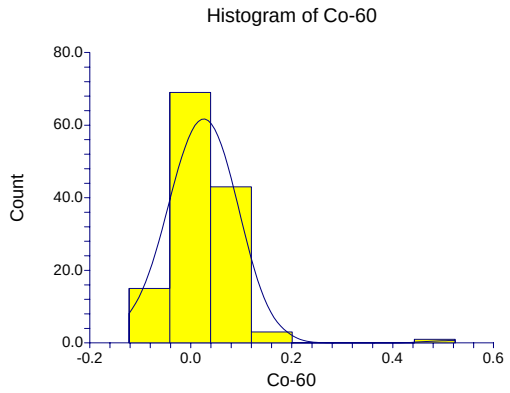
Quartile Section of Co-60

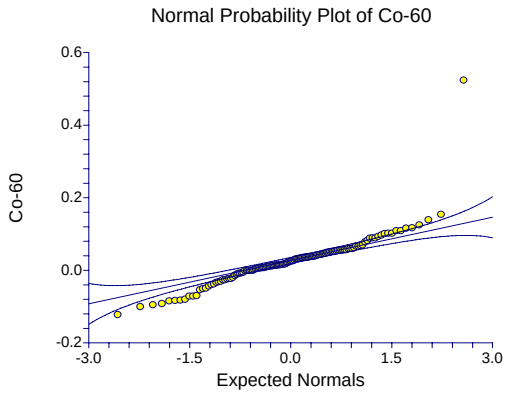
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	-0.05002	0	0.0252	0.0539	0.09244
95% LCL	-0.0821	-0.0239	0.0137	0.0442	0.0667
95% UCL	-0.0261	0.00639	0.0359	0.0623	0.109

Normality Test Section of Co-60

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.7988995	0.000000			Reject normality
Anderson-Darling	3.129658	0.000000			Reject normality
Martinez-Iglewicz	1.750736		1.040198	1.063074	Reject normality
Kolmogorov-Smirnov	0.1313808		0.071	0.077	Reject normality
D'Agostino Skewness	8.1563	0.000000	1.645	1.960	Reject normality
D'Agostino Kurtosis	7.1058	0.000000	1.645	1.960	Reject normality
D'Agostino Omnibus	117.0174	0.000000	4.605	5.991	Reject normality

Plots Section of Co-60





Percentile Section of Co-60

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	0.4056			
95.0	0.1118	0.097	0.154	95.8726
90.0	0.09244	0.0667	0.109	96.0054
85.0	0.06854	0.0567	0.097	95.0639
80.0	0.05852	0.0518	0.0784	95.1400
75.0	0.0539	0.0442	0.0623	95.6600
70.0	0.04814	0.0381	0.0557	95.3713
65.0	0.04144	0.0349	0.0524	95.6016
60.0	0.03652	0.0264	0.0453	95.0650
55.0	0.0327	0.0178	0.0394	95.6998
50.0	0.0252	0.0137	0.0359	95.5115
45.0	0.01618	0.00868	0.0313	95.3955
40.0	0.01322	0.00589	0.0215	95.0650
35.0	0.007624	0	0.0153	95.6016
30.0	0.003458	-0.00862	0.0118	95.4765
25.0	0	-0.0239	0.00639	95.6600
20.0	-0.01736	-0.0331	0	95.1400
15.0	-0.03022	-0.0534	-0.0114	95.0639
10.0	-0.05002	-0.0821	-0.0261	96.0054
5.0	-0.08242	-0.1	-0.0534	95.8726
1.0	-0.11496			

Percentile Formula: Ave X(p[n+1])

Stem-Leaf Plot Section of Co-60

Depth	Stem	Leaves
Low		-12,-10,-9,-9,-8,-8,-8
11	S	7776
15	F	5544
25	T	3333222222
35	-0*	1110000000
62	0*	00000000000011111111111111
(22)	T	2222222333333333333333
47	F	44444444445555555555555
23	S	666667
17	.	888899
11	1*	0000011
4	T	2
High		13, 15, 52

Unit = .01 Example: 1 |2 Represents 0.12

Summary Section of Total U

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
131	3.38626	2.99242	0.261449	-2.4	15.5	17.9

Counts Section of Total U

Rows	Sum of Frequencies	Sum of Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
131	131	0	77	443.6	2666.24	1164.095

Means Section of Total U

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	3.38626	3	2.839811	2.151989	443.6	2.6
Std Error	0.261449				34.24982	
95% LCL	2.869014	2.6	2.409833	1.264941	375.8409	
95% UCL	3.903505	3.3	3.346509	7.203477	511.3592	
T-Value	12.9519					
Prob Level	0.000000					
Count	131		120	131		5

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of Total U

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	8.954579	2.99242	2.99818	0.261449	3.2	17.9
Std Error	1.690807	0.3995365		3.490767E-02		
95% LCL	7.12189	2.668687		0.2331643		
95% UCL	11.60252	3.406247		0.2976052		

Skewness and Kurtosis Section of Total U

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient % UCL
Value	1.123541	5.67056	1.136597	2.822603	0.8836949	0.7022901
Std Error	0.2977216	1.000764			0.0753933	

Trimmed Section of Total U

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	3.212426	3.145229	3.121865	3.074046	3.018193	3.030534
Trim-Std Dev	2.023206	1.583117	1.284174	0.8128415	0.4417651	0.1120014
Count	117.9	104.8	91.7	65.5	39.3	13.1

Mean-Deviation Section of Total U

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	2.143943	2.10687	8.886224	29.76218	447.7756
Std Error	0.1575295		1.6779	13.77993	180.9137

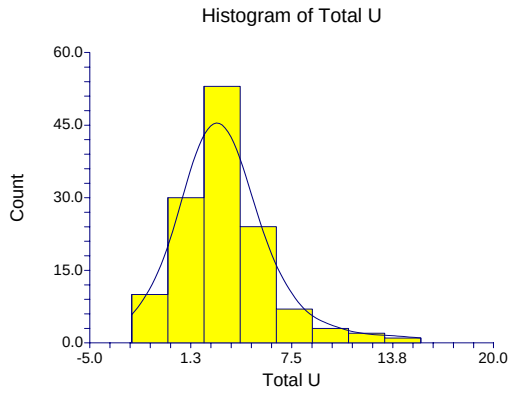
Quartile Section of Total U

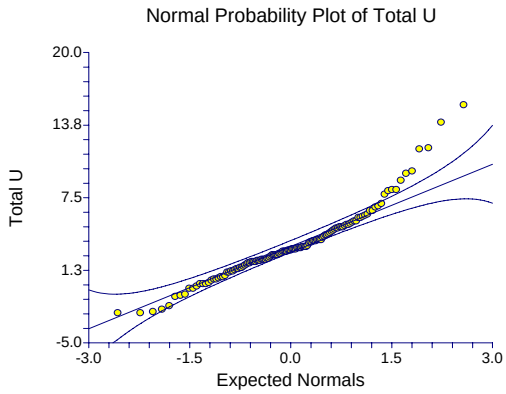
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	0.1	1.7	3	4.9	6.78
95% LCL	-0.9	1.1	2.6	3.9	5.8
95% UCL	0.7	2.1	3.3	5.5	9

Normality Test Section of Total U

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.9309395	0.000005			Reject normality
Anderson-Darling	2.119054	0.000022			Reject normality
Martinez-Iglewicz	1.406702		1.040198	1.063074	Reject normality
Kolmogorov-Smirnov	0.1112336		0.071	0.077	Reject normality
D'Agostino Skewness	4.6055	0.000004	1.645	1.960	Reject normality
D'Agostino Kurtosis	3.5780	0.000346	1.645	1.960	Reject normality
D'Agostino Omnibus	34.0128	0.000000	4.605	5.991	Reject normality

Plots Section of Total U





Percentile Section of Total U

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	15.02			
95.0	9.24	7	14	95.8726
90.0	6.78	5.8	9	96.0054
85.0	5.82	5.1	7	95.0639
80.0	5.2	4.6	6	95.1400
75.0	4.9	3.9	5.5	95.6600
70.0	4.3	3.7	5	95.3713
65.0	3.88	3.3	4.7	95.6016
60.0	3.44	3.1	4.1	95.0650
55.0	3.2	2.9	3.8	95.6998
50.0	3	2.6	3.3	95.5115
45.0	2.84	2.2	3.1	95.3955
40.0	2.6	2.1	3	95.0650
35.0	2.2	1.9	2.7	95.6016
30.0	2	1.4	2.4	95.4765
25.0	1.7	1.1	2.1	95.6600
20.0	1.24	0.5	1.9	95.1400
15.0	0.68	0.1	1.4	95.0639
10.0	0.1	-0.9	0.7	96.0054
5.0	-0.94	-2.4	0.1	95.8726
1.0	-2.4			

Percentile Formula: Ave X(p[n+1])

Stem-Leaf Plot Section of Total U

Depth	Stem	Leaves
4	-2	4431
6	-1	80
11	-0	98331
22	0	11124556778
36	1	11223445567899
63	2	000011122223345666667789999
(26)	3	00011112222333346778889999
42	4	12334567899
31	5	0001223455889
18	6	014478
12	7	08
10	8	122
7	9	0
High		96, 98, 117, 118, 140, 155

Unit = .1 Example: 1 |2 Represents 1.2

Summary Section of SOF

Count	Mean	Standard Deviation	Standard Error	Minimum	Maximum	Range
131	1.114504E-02	1.428454E-02	1.248046E-03	-0.025	0.1	0.125

Counts Section of SOF

Rows	Sum of Frequencies	Sum of Values	Distinct Values	Sum	Total Sum Squares	Adjusted Sum Squares
131	131	0	46	1.46	0.042798	2.652624E-02

Means Section of SOF

Parameter	Mean	Median	Geometric Mean	Harmonic Mean	Sum	Mode
Value	1.114504E-02	0.01	0.0107321	1.127836E-02	1.46	0.009
Std Error	1.248046E-03				0.163494	
95% LCL	8.675928E-03	0.009	9.154917E-03	7.675678E-03	1.136547	
95% UCL	1.361415E-02	0.012	0.012581	2.125442E-02	1.783453	
T-Value	8.9300					
Prob Level	0.000000					
Count	131		112	131		10

The geometric mean confidence interval assumes that the ln(y) are normally distributed.
The harmonic mean confidence interval assumes that the 1/y are normally distributed.

Variation Section of SOF

Parameter	Variance	Standard Deviation	Unbiased Std Dev	Std Error of Mean	Interquartile Range	Range
Value	2.04048E-04	1.428454E-02	1.431203E-02	1.248046E-03	0.016	0.125
Std Error	6.300697E-05	3.118942E-03		2.725033E-04		
95% LCL	1.622865E-04	1.273917E-02		1.113027E-03		
95% UCL	2.643866E-04	1.625997E-02		1.42064E-03		

Skewness and Kurtosis Section of SOF

Parameter	Skewness	Kurtosis	Fisher's g1	Fisher's g2	Coefficient of Variation	Coefficient % UCL
Value	1.807624	13.49061	1.828629	10.94954	1.281695	0.9419847
Std Error	0.9682135	4.085033			0.175097	

Trimmed Section of SOF

Parameter	5% Trimmed	10% Trimmed	15% Trimmed	25% Trimmed	35% Trimmed	45% Trimmed
Trim-Mean	1.053732E-02	1.060305E-02	1.069466E-02	1.049618E-02	0.0102112	0.01
Trim-Std Dev	9.032595E-03	6.973447E-03	5.708319E-03	3.540188E-03	1.543512E-03	5.821022E-04
Count	117.9	104.8	91.7	65.5	39.3	13.1

Mean-Deviation Section of SOF

Parameter	|X-Mean|	|X-Median|	(X-Mean)^2	(X-Mean)^3	(X-Mean)^4
Average	9.509586E-03	9.419847E-03	2.024904E-04	5.208524E-06	5.531469E-07
Std Error	7.519787E-04		6.2526E-05	4.940972E-06	4.6023E-07

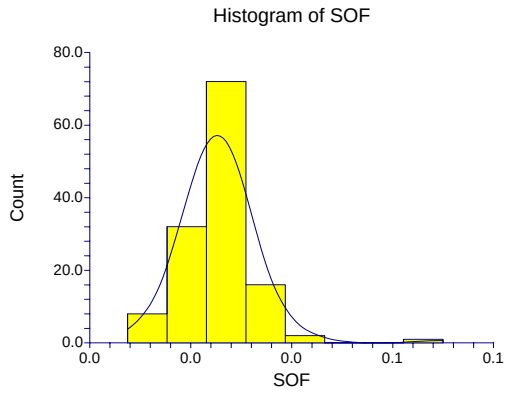
Quartile Section of SOF

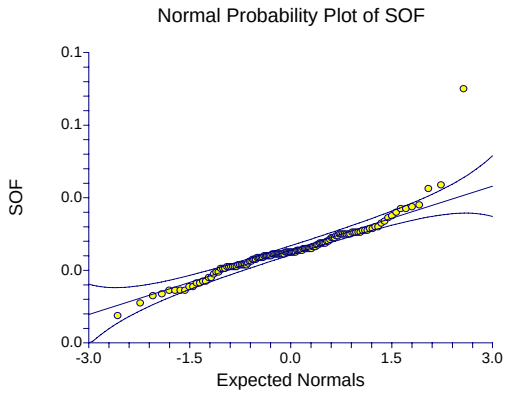
Parameter	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Value	-0.006	0.003	0.01	0.019	0.024
95% LCL	-0.011	0.002	0.009	0.015	0.021
95% UCL	0.001	0.007	0.012	0.021	0.034

Normality Test Section of SOF

Test Name	Test Value	Prob Level	10% Critical Value	5% Critical Value	Decision (5%)
Shapiro-Wilk W	0.8761932	0.000000			Reject normality
Anderson-Darling	2.443476	0.000004			Reject normality
Martinez-Iglewicz	1.554351		1.040198	1.063074	Reject normality
Kolmogorov-Smirnov	0.1020909		0.071	0.077	Reject normality
D'Agostino Skewness	6.3563	0.000000	1.645	1.960	Reject normality
D'Agostino Kurtosis	6.0320	0.000000	1.645	1.960	Reject normality
D'Agostino Omnibus	76.7875	0.000000	4.605	5.991	Reject normality

Plots Section of SOF





Percentile Section of SOF

Percentile	Value	95% LCL	95% UCL	Exact Conf. Level
99.0	0.08304			
95.0	0.034	0.026	0.047	95.8726
90.0	0.024	0.021	0.034	96.0054
85.0	0.0212	0.02	0.026	95.0639
80.0	0.02	0.018	0.022	95.1400
75.0	0.019	0.015	0.021	95.6600
70.0	0.0154	0.012	0.02	95.3713
65.0	0.0138	0.011	0.018	95.6016
60.0	0.012	0.01	0.015	95.0650
55.0	0.011	0.009	0.013	95.6998
50.0	0.01	0.009	0.012	95.5115
45.0	0.009	0.008	0.01	95.3955
40.0	0.009	0.007	0.01	95.0650
35.0	0.008	0.004	0.009	95.6016
30.0	0.006	0.003	0.008	95.4765
25.0	0.003	0.002	0.007	95.6600
20.0	0.002	-0.001	0.005	95.1400
15.0	0.0006	-0.007	0.002	95.0639
10.0	-0.006	-0.011	0.001	96.0054
5.0	-0.011	-0.018	-0.007	95.8726
1.0	-0.02276			

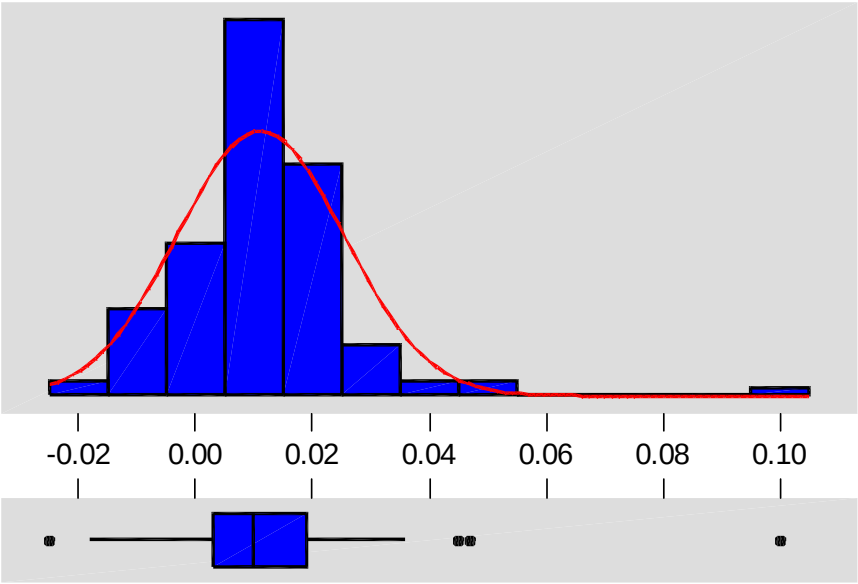
Percentile Formula: Ave X(p[n+1])

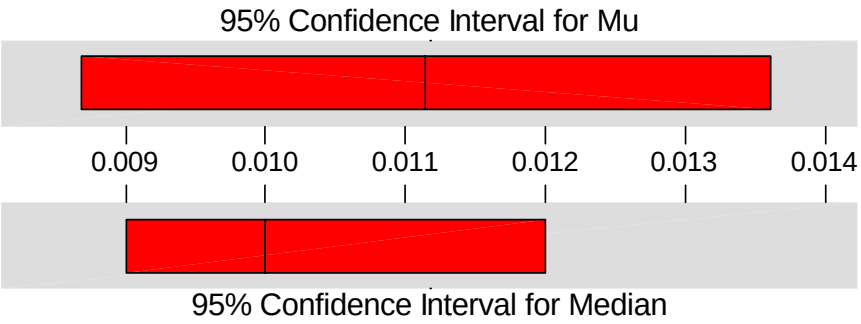
Stem-Leaf Plot Section of SOF

Depth	Stem	Leaves
Low		-25
2	-1.	8
8	-1*	431111
14	.	997766
19	-0*	44211
35	0*	1112222223333334
61	.	556667777788888899999999999
(26)	1*	00000000011111222222233344
44	.	5555566788899
31	2*	0000000111112223344
12	.	679
9	3*	0244
5	.	56
High		45, 47, 100

Unit = .001 Example: 1 |2 Represents 0.012

Descriptive Statistics





Variable: Trench SOF

Anderson-Darling Normality Test

A-Squared:	2.443
P-Value:	0.000
Mean	1.11E-02
StDev	1.43E-02
Variance	2.04E-04
Skewness	1.82863
Kurtosis	10.9495
N	131
Minimum	-2.5E-02
1st Quartile	0.003000
Median	0.010000
3rd Quartile	0.019000
Maximum	0.100000

95% Confidence Interval for Mu

0.008676	0.013614

95% Confidence Interval for Sigma

0.012739	0.016260

95% Confidence Interval for Median

0.009000	0.012000

One-Sample T-Test Report

Page 1
Variable SOF

Descriptive Statistics Section

Variable	Count	Mean	Standard Deviation	Standard Error	95% LCL of Mean	95% UCL of Mean
SOF	131	1.114504E-02	1.428454E-02	1.248046E-03	8.675928E-03	1.361415E-02

T for Confidence Limits = 1.9784

Tests of Assumptions Section

Assumption	Value	Probability	Decision(5%)
Skewness Normality	6.3563	0.000000	Reject normality
Kurtosis Normality	6.0320	0.000000	Reject normality
Omnibus Normality	76.7875	0.000000	Reject normality
Correlation Coefficient			

T-Test For Difference Between Mean and Value Section

Alternative Hypothesis	T-Value	Prob Level	Decision (5%)	Power (Alpha=.05)	Power (Alpha=.01)
SOF<>1	-792.3226	0.000000	Reject Ho	1.000000	1.000000
SOF<1	-792.3226	0.000000	Reject Ho	1.000000	1.000000
SOF>1	-792.3226	1.000000	Accept Ho	0.000000	0.000000

Nonparametric Tests Section

Quantile (Sign) Test

Hypothesized Value	Quantile	Number Lower	Number Higher	Prob Lower	Prob Higher	Prob Both
1	0.5	131	0	1.000000	0.000000	0.000000

Wilcoxon Signed-Rank Test for Difference in Medians

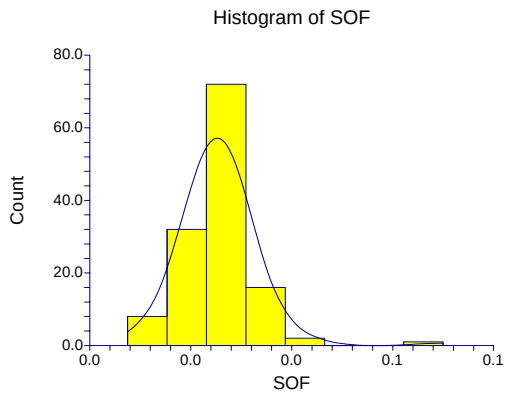
W Sum Ranks	Mean of W	Std Dev of W	Number of Zeros	Number Sets of Ties	Multiplicity Factor
0	4323	435.2166	0	29	3744

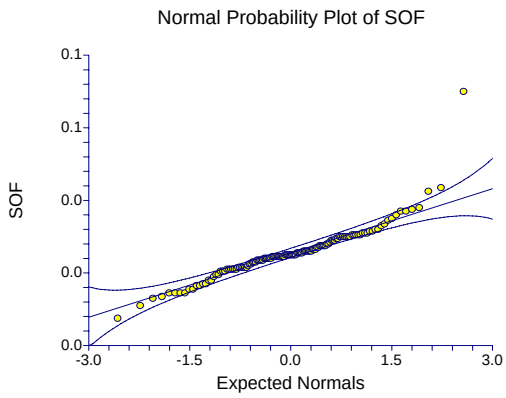
	Exact Probability		Approximation Without Continuity Correction			Approximation With Continuity Correction		
Alternative Hypothesis	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)	Z-Value	Prob Level	Decision (5%)
Median<>1			9.9330	0.000000	Reject Ho	9.9318	0.000000	Reject Ho
Median<1			-9.9330	0.000000	Reject Ho	-9.9318	0.000000	Reject Ho
Median>1			-9.9330	1.000000	Accept Ho	-9.9341	1.000000	Accept Ho

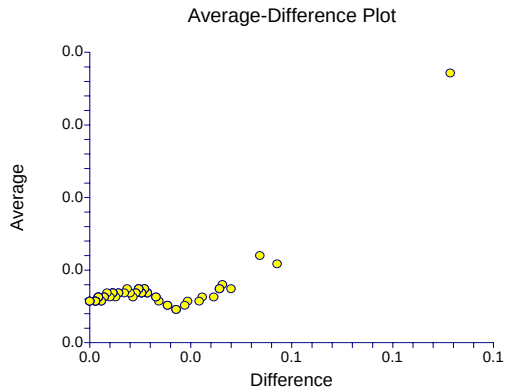
One-Sample T-Test Report

Page 2
Variable SOF

Plots Section



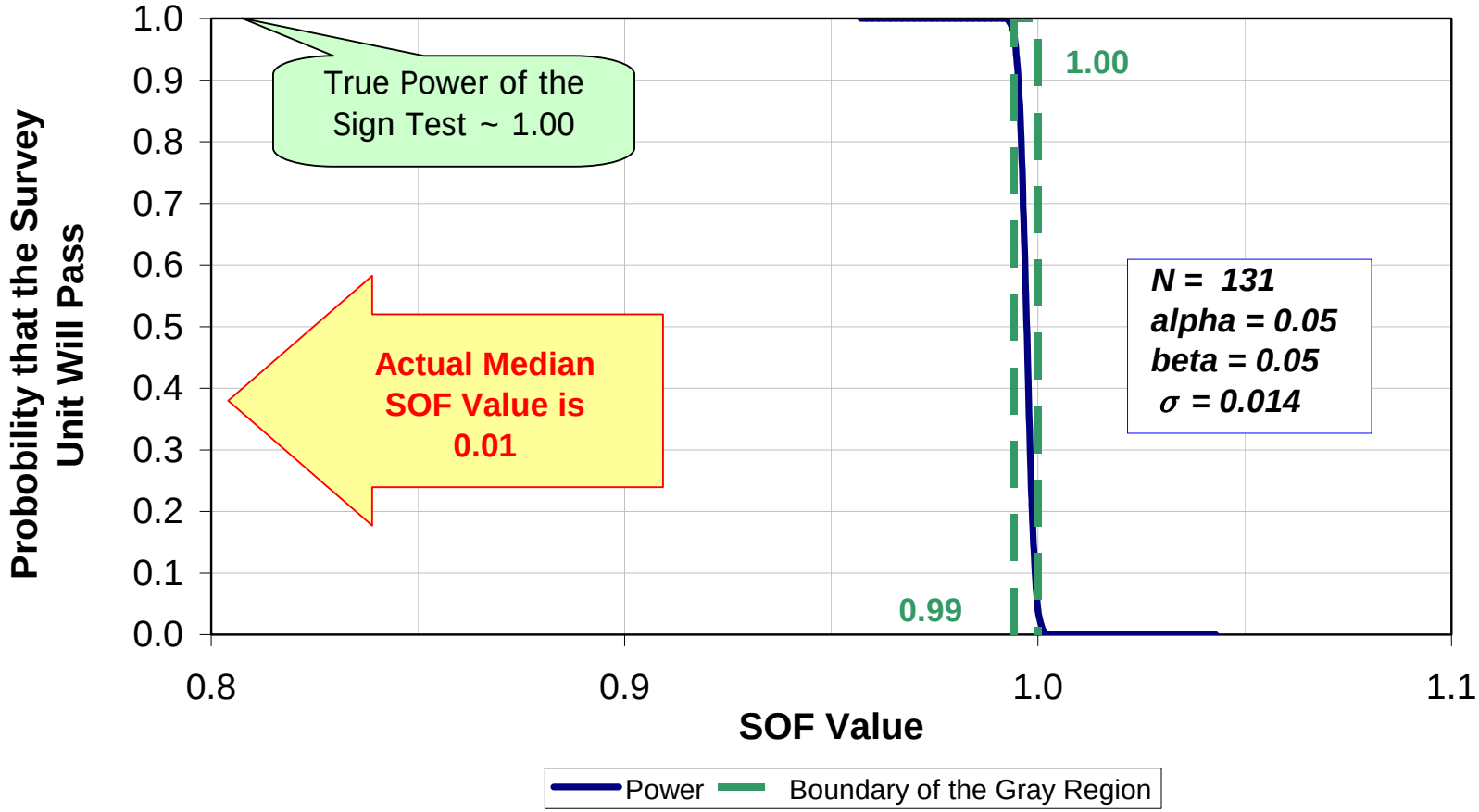




Retrospective Power of the Sign Test

Soil Volumetric Measurements SOF Values

B17 Trench Surveys



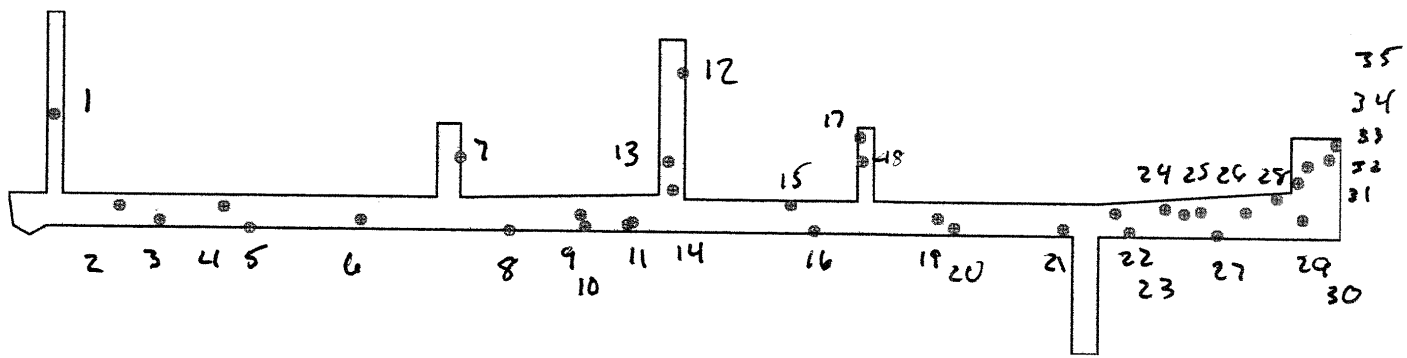
RADIOLOGICAL SURVEY MAP

Survey Unit No:	Surveyor Team (print names):	Page of

Location	Static Count

USP sample for B-17 HW trench

1-MAC 0505-64
through
35 MAC 0505-98



Comments

Instrument:	Ser. No:	Background (cpm):	Key
Volumetric Sampler ONLY	—	—	≈≈ - Direct Scan
Technician Signature & Date: M Flaysla 5/9/05	Technician Signature & Date: 5/9/05	Radiation Safety Supervisor Review & Date: 5/18/05	⊛ - Volumetric Sample

PROCEDURE NO RPP-4	REVISION 1	ATTACHMENT 1 PAGE 1 OF 1

2X2 Soil Counting

Location / Description

5/9/05

B-17 - FSS

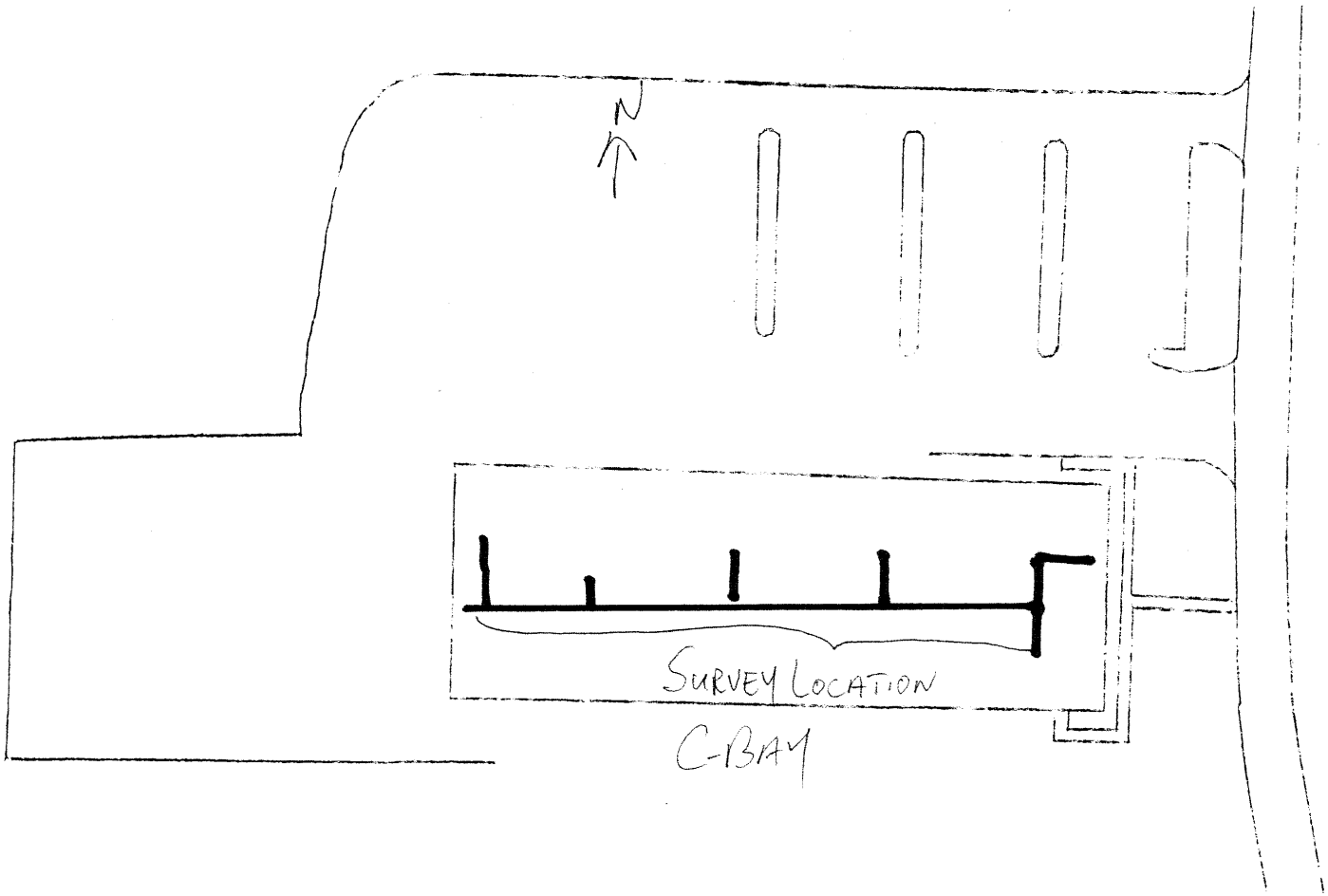
Instrument	Serial #	Probe	Serial #	Cal Due	Background

Sample ID #	Gross CPM	Background CPM	Net CPM
MAC- 0505-064			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC- 0505-098			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			

Counted By: N/A All sample to γ spec RK Date: 5/9/05

Reviewed By: _____ Date: _____

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data.

Comments: SURVEY #0405-025

Surveyed By: T. HIRSCHE Date: 25 APR 05

Reviewed By: _____ Date: _____

MAY 17 2005

RADIOLOGICAL SURVEY MAP

Map # NA | Location: BLDG 17 C-BAY | Date: NA | Page 2 of 2

Smear Results

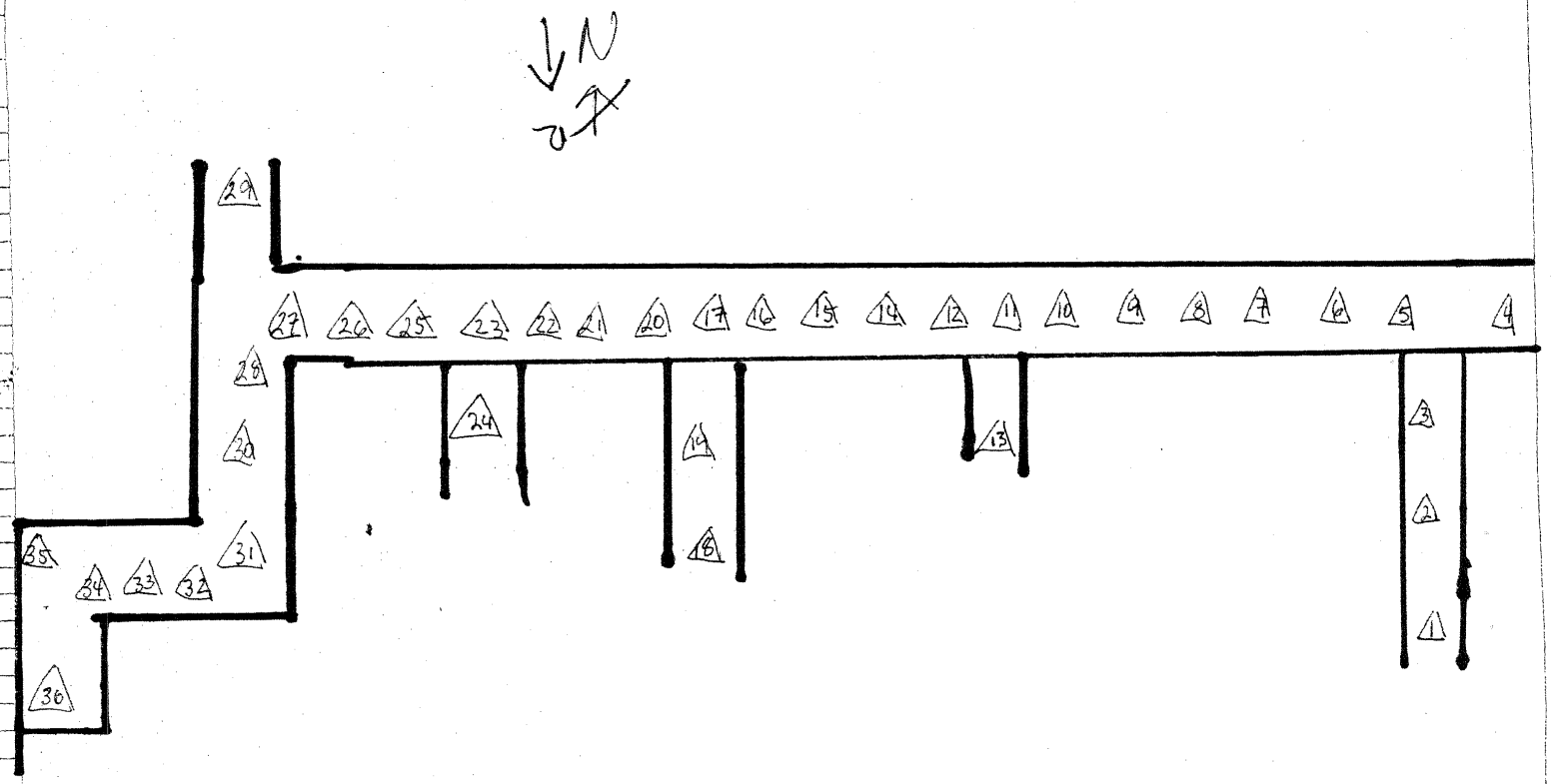
DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments:

UNBIASED SAMPLE LOCATIONS

SURVEY #0405-025



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal. Due	Key
T. HIRSCHE	2221	97833	NA	NA	NA	317	9 Nov 2005	O - Smear # & Location
								✱ - Dose rate mrem/hr
								Ω - Direct Reading
								Δ - Volumetric Sample

Reviewed By / Date: MAY 17 2005

2X2 Soil Counting

Location / Description
BLDG 17 UNBIAGED SAMPLES C-BAY 1-36
SURVEY #0405-025

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	97883	44-10	12534	9 Nov 2005	317

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC- 0504-357	585	317	268
	MAC- -358	563		246
	MAC- -359	618		301
	MAC- -360	625		308
5	MAC- 0504-361	520		203
	MAC- -362	614		297
	MAC- -363	~~603~~ 591		~~286~~ 274
	MAC- -364	603		286
	MAC- -365	604		287
10	MAC- 0504-366	~~568~~		251
	MAC- -367	597		280
	MAC- -368	561		244
	MAC- -369	596		279
	MAC- -370	553		236
15	MAC- 0504-371	528		211
	MAC- -372	628		311
	MAC- -373	565		248
	MAC- -374	626		309
	MAC- -375	514		197
20	MAC- 0504-376	580		263
	MAC- -377	572		255
	MAC- -378	578	317	261

Counted By: [signature] Date: 21 Apr 05

Reviewed By: MAY 17 2005 Date:

2X2 Soil Counting

Location / Description

BLDG 17 UNBIASED SAMPLES C-BAY 1-36

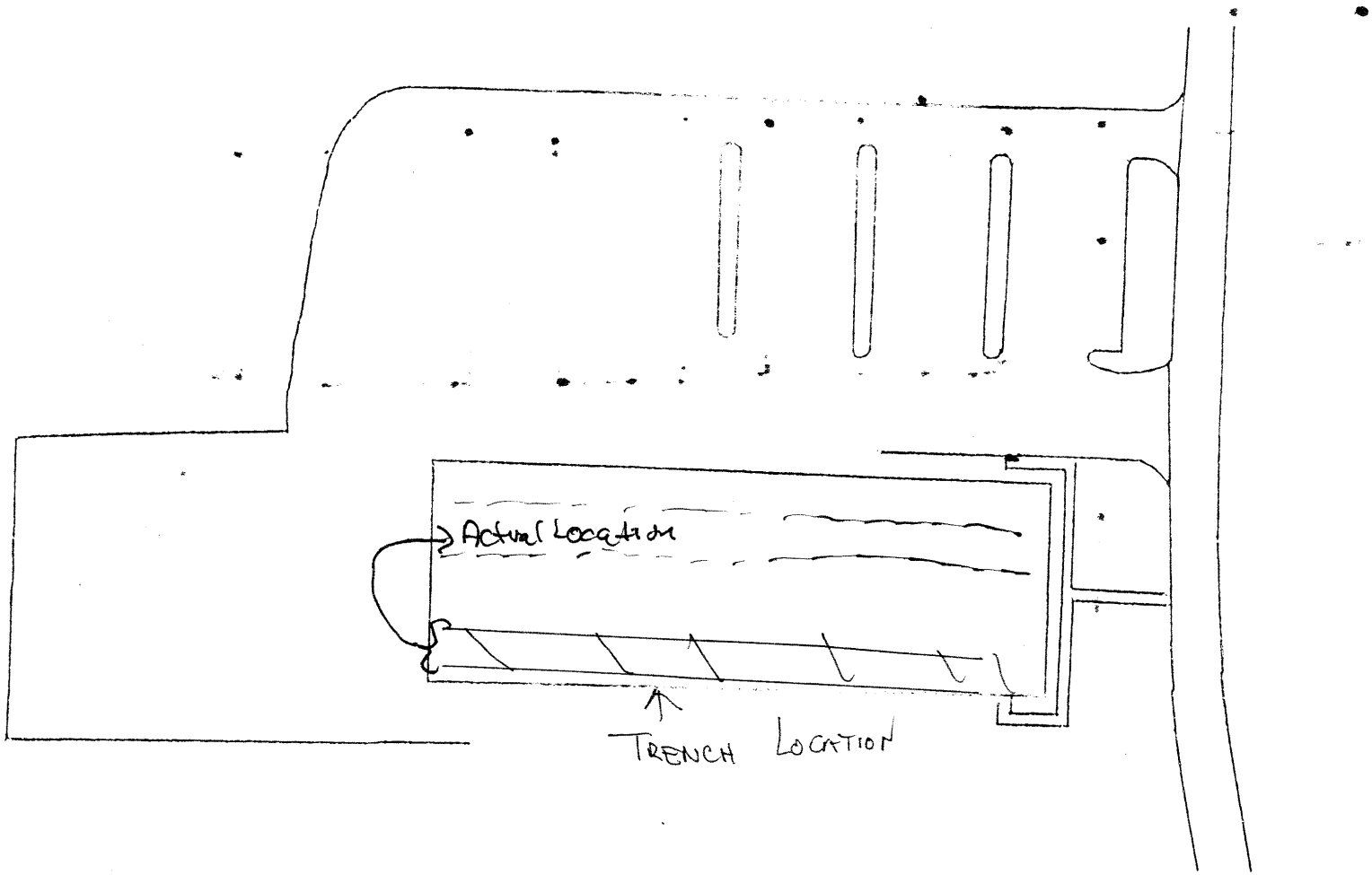
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	97833	44-10	12534	9NOV05	317

	Sample ID #	Gross CPM	Background CPM	Net CPM
	MAC- 0504-379	599	317	282
	MAC- -380	533		216
65	MAC- -381	619		299
	MAC- -382	600		283
	MAC- -383	575		258
	MAC- -384	600		~~283~~ 283
	MAC- -385	527		210
60	MAC- 0504-386	577		260
	MAC- -387	591		274
	MAC- -388	631		314
	MAC- -390	657		340
35	MAC- -391	617		300
36	MAC- -392	632	317	315
33	MAC- 0504-389	636	317	319
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: [signature] Date: 21 Apr 05

Reviewed By: MAY 17 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: SURVEY # 0405 - 024

Surveyed By: T. HIRSCHE Date: 15 APR 2005

Reviewed By: MAY 17 2005 Date:

RADIOLOGICAL SURVEY MAP

Map # NA | Location TRENCH & SPOILS B17 CBAY | RWP # NA | Page 2 of 2

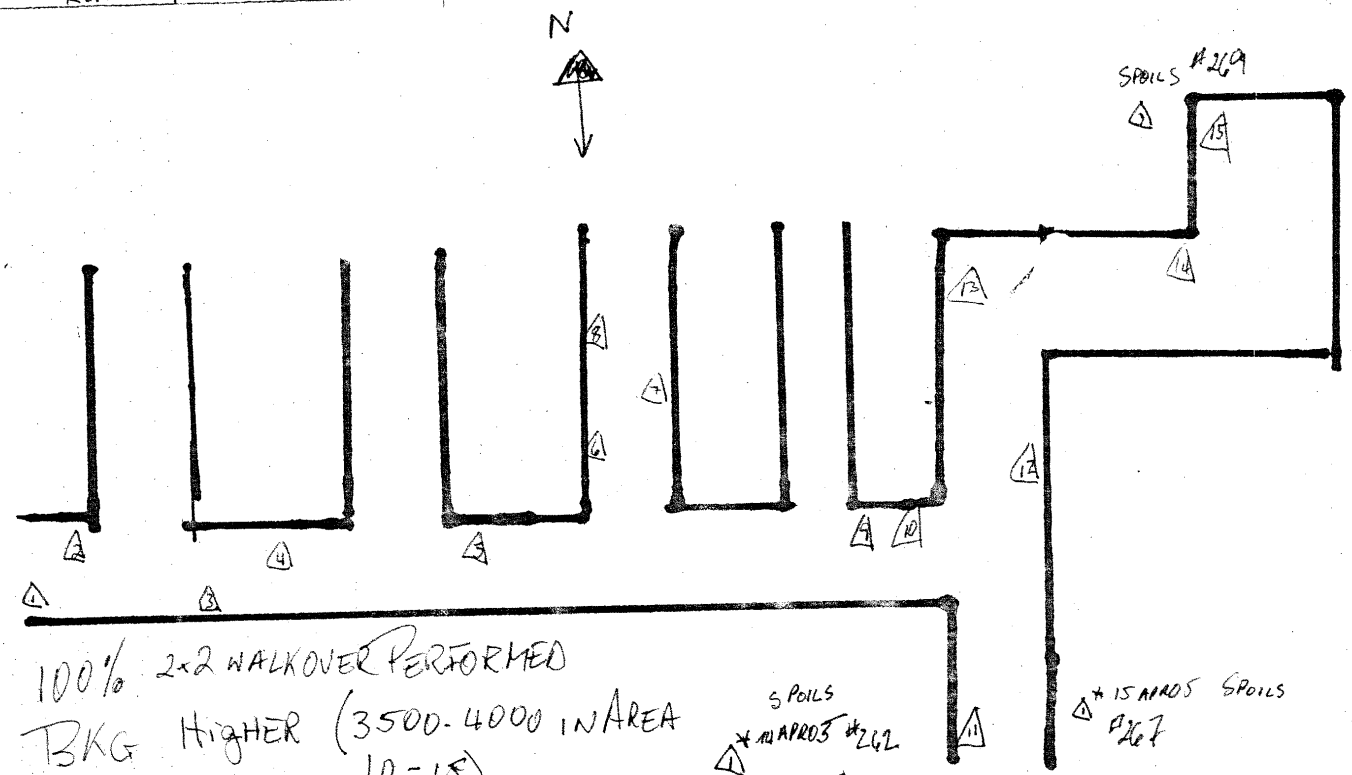
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

SURVEY # 0405-024



100% 2x2 WALKOVER PERFORMED

BKG HIGHER (3500-4000 IN AREA 10-15)

ALL AREAS ≤ BKG UNLESS NOTED IN BIAS SAMPLE LOCATIONS

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By T. HILSCHE Date 15APR05	2350	186175	NA	NA	NA	2900-3700	16 AUG 2005	O - Smear # & Location
								" " - Dose rate mrem/hr
								Ω - Direct Reading
Reviewed By Date								Δ - Volumetric Sample

MAY 17 2005

2X2 Soil Counting

Location / Description
BLDG 17 C-BAY EXPOSED TRENCHES

SURVEY # 0405-024

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	97833	4410	0534	11-9-05	303

	Sample ID #	Gross CPM	Background CPM	Net CPM
4	MAC- 0504-238 785.3	572	303	269
	MAC- 0504 -239 707.3	617	303	314
	MAC- 0504 -240 736	683	303	380
	MAC- 0504-241 737.8	620	303	317
5	MAC- 0504-242 800.6	677	303	376
	MAC- 0504-243 764.3	588	303	285
	MAC- 0504- 244 769.2	613	303	310
	MAC- 0504-245 855.9	606	303	303
	MAC- 0504-246 971.6	714	303	411
10	MAC- 0504- 247 833.8	~~677 374~~ 809	303	506 ~~374~~
	MAC- 0504-248 806	694	303	391
	MAC- 0504-249 896.3	683	303	380
	MAC- 0504- 250 835.1	649	303	346
	MAC- 0504-251 770.2	630	303	327
15	MAC- 0504-252 ~~775~~.2	603	303	300
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: T. HIRSCHE Date: 14 APR 05

Reviewed By: [signature] Date:

MAY 17 2005

2X2 Soil Counting

Location / Description

B17 C BAY SPOILS 4

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	97833	44-10	0534	11-9-05	303

	Sample ID #	Gross CPM	Background CPM	Net CPM
4	MAC- 0504-262	2366	303	2063
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: T. HIRCHE Date: 14 APR 05

Reviewed By: [signature] Date: MAY 17 2005

2X2 Soil Counting

Location / Description
B17 CBAY SPOILS PILE

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	97833	44-10	0534	9NOV05	305

Sample ID #	Gross CPM	Background CPM	Net CPM
MAC- 0504-267	580	305	275
MAC- -268	30937	↓	30632
MAC- -269	591	305	286
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			

Counted By: T. HRSCHE Date: 15 Apr 05

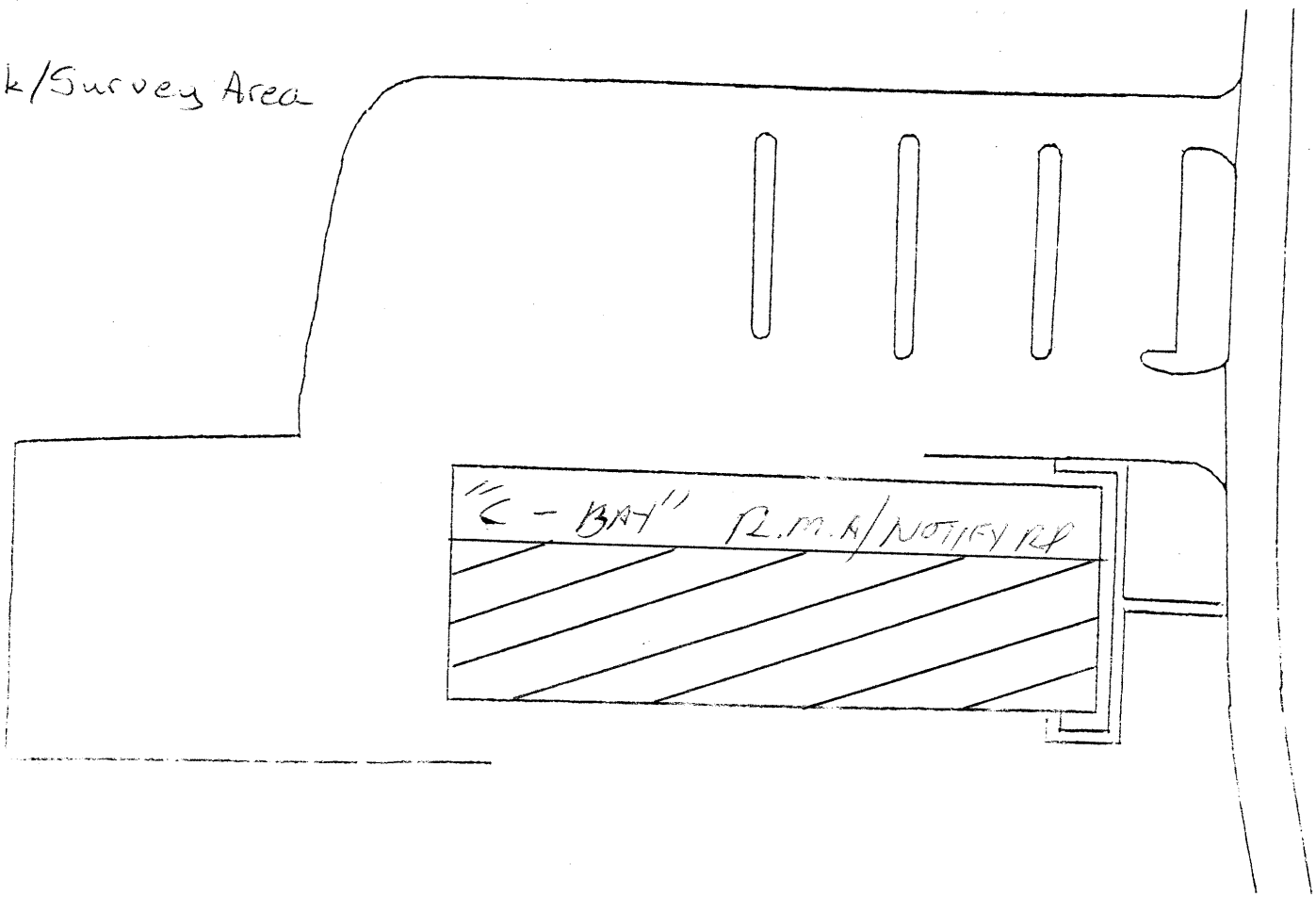
Reviewed By: [signature] Date:

MAY 17 2005

Utility Excavation Survey Map
Building 17

* 11-22-04
Work Location

= Work/Survey Area



SURVEY # 1104-051

Page 1 of __ see attached sheets for Radiological Survey Data:

1104-050 11/23/04

Comments: Evolution consisting of volumetric sampling and direct frisking of 4" ID cast IW lines and 5" ID cast storm sewer lines.
Volumetric samples identify trace cesium-137 gram in ID cast iron lines 11/22/04

Surveyed By: THORKLOSEN Date: 11/22/04
Reviewed By: _____ Date: _____

JAN 14 2005

RADIOLOGICAL SURVEY MAP

Map #	Location B-17	RWP #	Page of

Smear Results

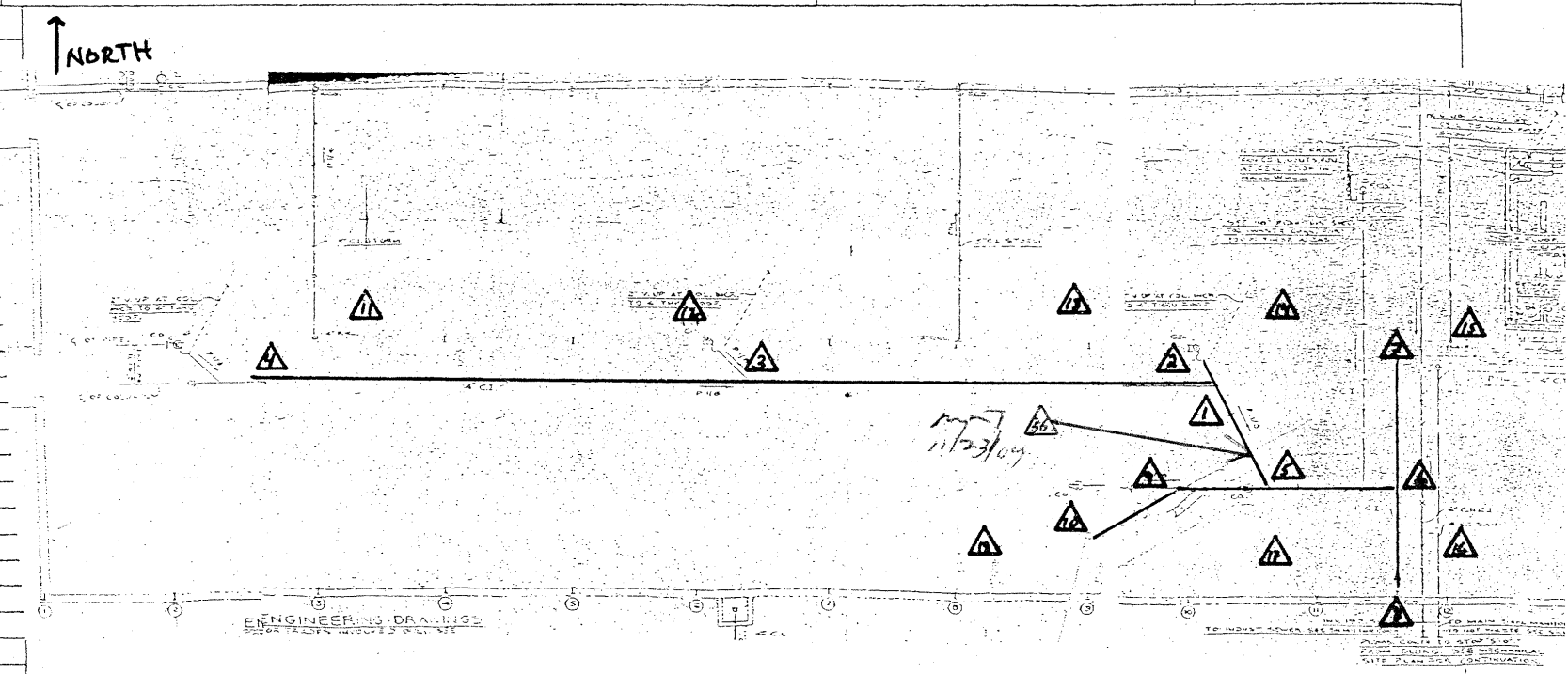
DPM/100 cm²

No.	α	β	No.	α
1	Ø	Ø	26	
2	Ø	53	27	
3	Ø	37	28	
4	Ø	15	29	
5	Ø	68	30	
6	Ø	75	31	
7	Ø	Ø	32	
8	Ø	Ø	33	
9	Ø	37	34	
10	Ø	22	35	
11	Ø	Ø	36	
12	Ø	159	37	
13	Ø	83	38	
14	Ø	68	39	
15	Ø	143	40	
16	Ø	45	41	
17	Ø	37	42	
18	Ø	68	43	
19	Ø	51	44	
20	Ø	47	45	
21			46	
22			47	
23			48	
24			49	
25			50	

Comments

Took volumetric samples from Inside Industrial waste pipe and Spoils Piles.

Took Smears on I/W Pipe Inside and out and Also Spoils Pile.



#1104-051

Surveyed By J. Wilson
Date
Reviewed By
Date

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Ludlum 3030	195417	32.6%	13.2%	1.4 dpm	32.6 dpm	08-16-05	O - Smear # & Location
Ludlum 2224-1	129463	11.5%	8.3%	2	375	10-11-05	" " - Dose rate mrem/hr
Ludlum 2224	183077	14.5%	19.3%	2	414	6-29-05	Ω - Direct Reading
							Δ - Volumetric Sample

JAN 14 2005

2X2 Soil Counting

Location / Description B17 Samples of Industrial Waste Pipe + Spoils Piles

#1104-051

Instrument	Serial #	Probe	Serial #	Cal Due	Background
Lud 2221	117651	44-10 NaI	192589	01-19-05	

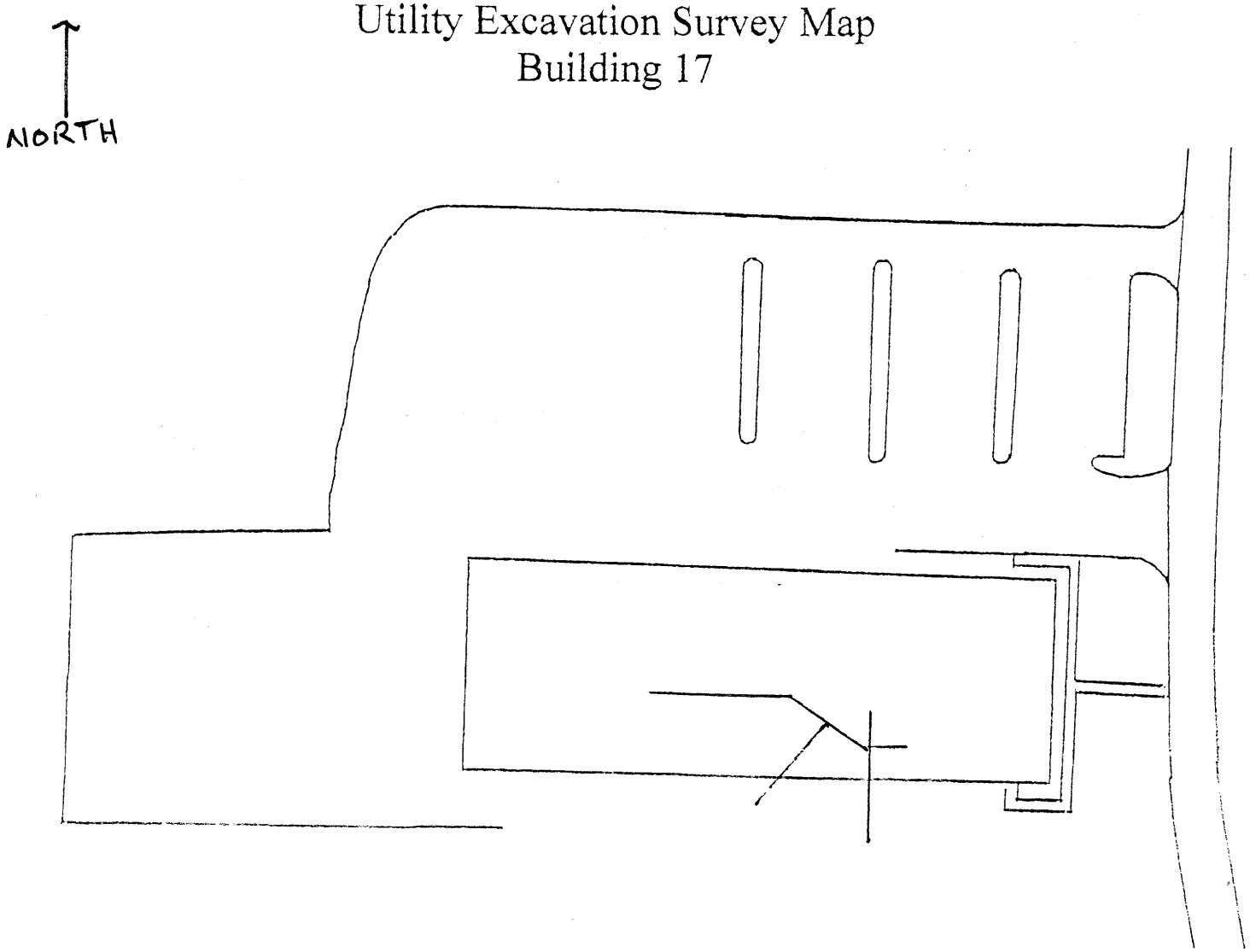
	Sample ID #	Gross CPM	Background CPM	Net CPM
Spoils Pile	1 MAC- 4011- 555	523	370	153
Inside I/w Pipe	2 MAC- 4011- 556	573	468	105
2-10	3 MAC- 4011- 557	469	370	99
	4 MAC- 4011- 558	472	468	4
	5 MAC- 4011- 559	538	468	70
	6 MAC- 4011- 560	545	468	77
	7 MAC- 4011- 561	425	370	55
	8 MAC- 4011- 562	436	370	66
	9 MAC- 4011- 563	599	370	229
	10 MAC- 4011- 564	431	370	61
	11 MAC- 4011- 565	537	370	167
Spoils Pile	12 MAC- 4011- 566	575 JC ~~[illegible]~~ ~~606~~ JC	370	205
11-18	13 MAC- 4011- 567	606 ~~622~~ JC	370	236
	14 MAC- 4011- 568	622 ~~609.5~~ JC	370	252
	15 MAC- 4011- 569	511	370	141
	16 MAC- 4011- 570	503	370	133
	17 MAC- 4011- 571	531	370	161
	18 MAC- 4011- 572	546	370	176
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: WILSON/THUNKHOSE Date: 11/22/4

Reviewed By: [signature] Date:

JAN 14 2005

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

#1104-051

Comments: Took volumetric samples of I/W Pipe and Spoils Piles at B-17

Surveyed By: J. Wilson Date: 11-22-04 11/22/04

Reviewed By: JAN 14 2005 Date:

SURVEY # 1104-051

RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page of
N/A	BLDG 17	N/A	

Smear Results

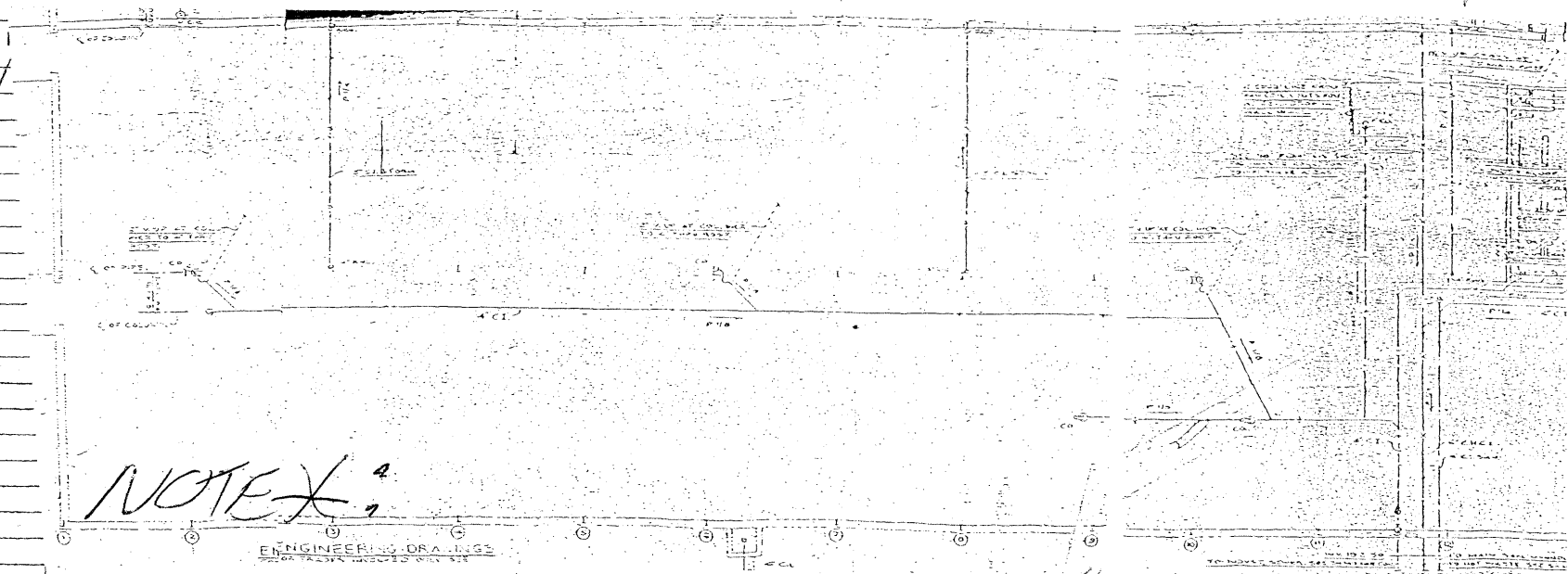
DPM/100 cm²

No.	α	β	No.	α
1			26	
2			27	
3			28	
4			29	
5			30	
6			31	
7			32	
8			33	
9			34	
10			35	
11			36	
12			37	
13			38	
14			39	
15			40	
16			41	
17			42	
18			43	
19			44	
20			45	
21			46	
22			47	
23			48	
24			49	
25			50	

N/A

Comments

SEE TO RIGHT



EVOLUTION CONSISTING OF 5" CAST STORM SEWER AND 4" CAST I/W LINES. DIRECT FRISK RESULTS ≤ R_B (E-600) AND ≤ R_B (MDL12/44-9) @ 400CPM AND 100CPM MAX R_B OBSERVED; RESPECTIVELY. VOLUMETRIC INTERNAL WERE OBSERVED AND RESULTED IN 1pCi/g OF I/W LINE. NUMEROUS PVC CONDUIT ENCOUNTERED DURING DIG ALL NDA DIRECT FRISK W/NO INTERNAL VOLUMETRICS OBSERVED.

MMT 11/23/04

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
MMT 11/22/04	E-600	02327	10.9%	14.7%	N/A	N/A	10/21/05	O - Smear # & Location
	MDL12	175485	N/A	4.0%	N/A	N/A	10/05/05	" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
								Δ - Volumetric Sample

JAN 14 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

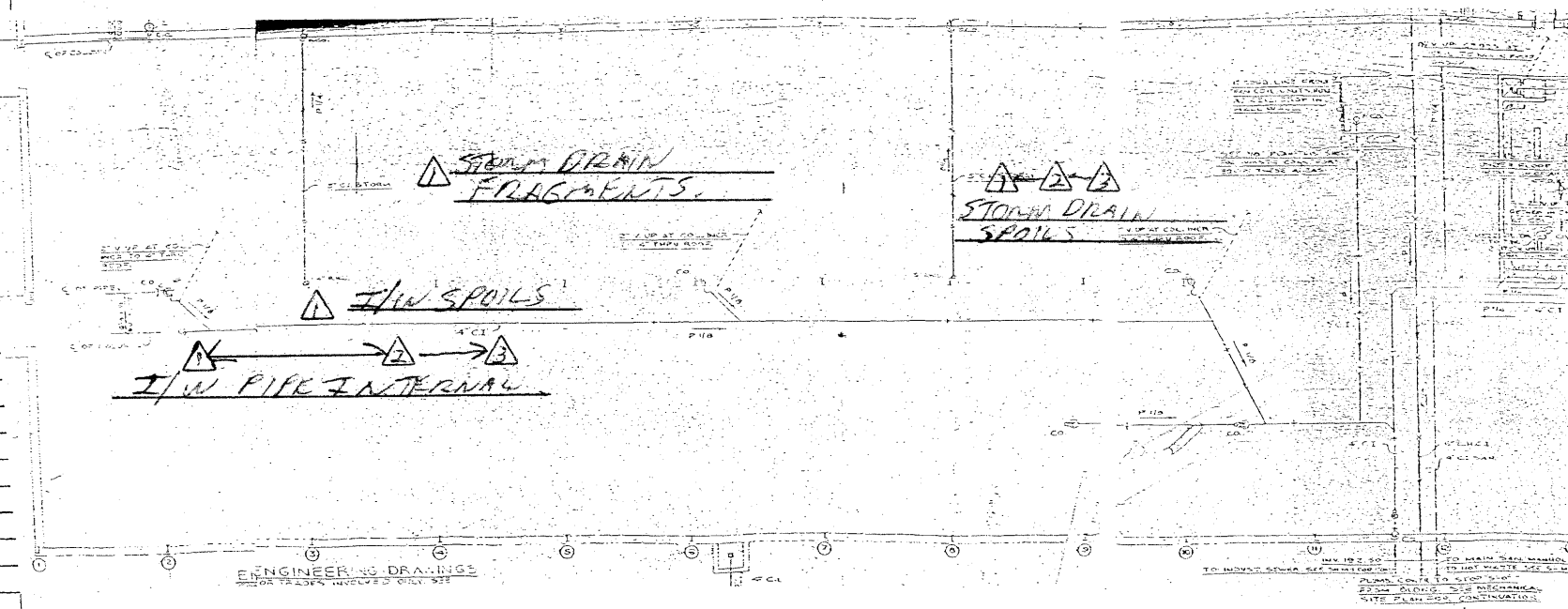
RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page of
N/A	BLD 17	N/A	

Smear Results

DPM/100 cm²

No.	α	β	No.	α
1			26	
2			27	
3			28	
4			29	
5			30	
6			31	
7			32	
8			33	
9			34	
10			35	
11			36	
12			37	
13			38	
14			39	
15			40	
16			41	
17			42	
18			43	
19			44	
20			45	
21			46	
22			47	
23			48	
24			49	
25			50	



* THIS EVOLUTION IDENTIFIED .9 pCi/g VOLUMETRIC IN SAMPLE # 1. NDA > R_B (410 MAX CPM OBSERVED) DIRECT FRISK INTERNAL/EXTERNAL AND SOIL/SPOILS IN AREA.

MMT 11/23/04

Comments

VOLUMETRIC SAMPLING OF 5" CAST STORM AND 4" CAST I/W LINES

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
MMT 11/22/04	2221	117651	N/A	N/A	N/A	N/A	1/19/05	O - Smear # & Location
								" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
MMT 11/23/04								Δ - Volumetric Sample

JAN 14 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description
B17 B BAY STORM SEWER AND I/W LINE

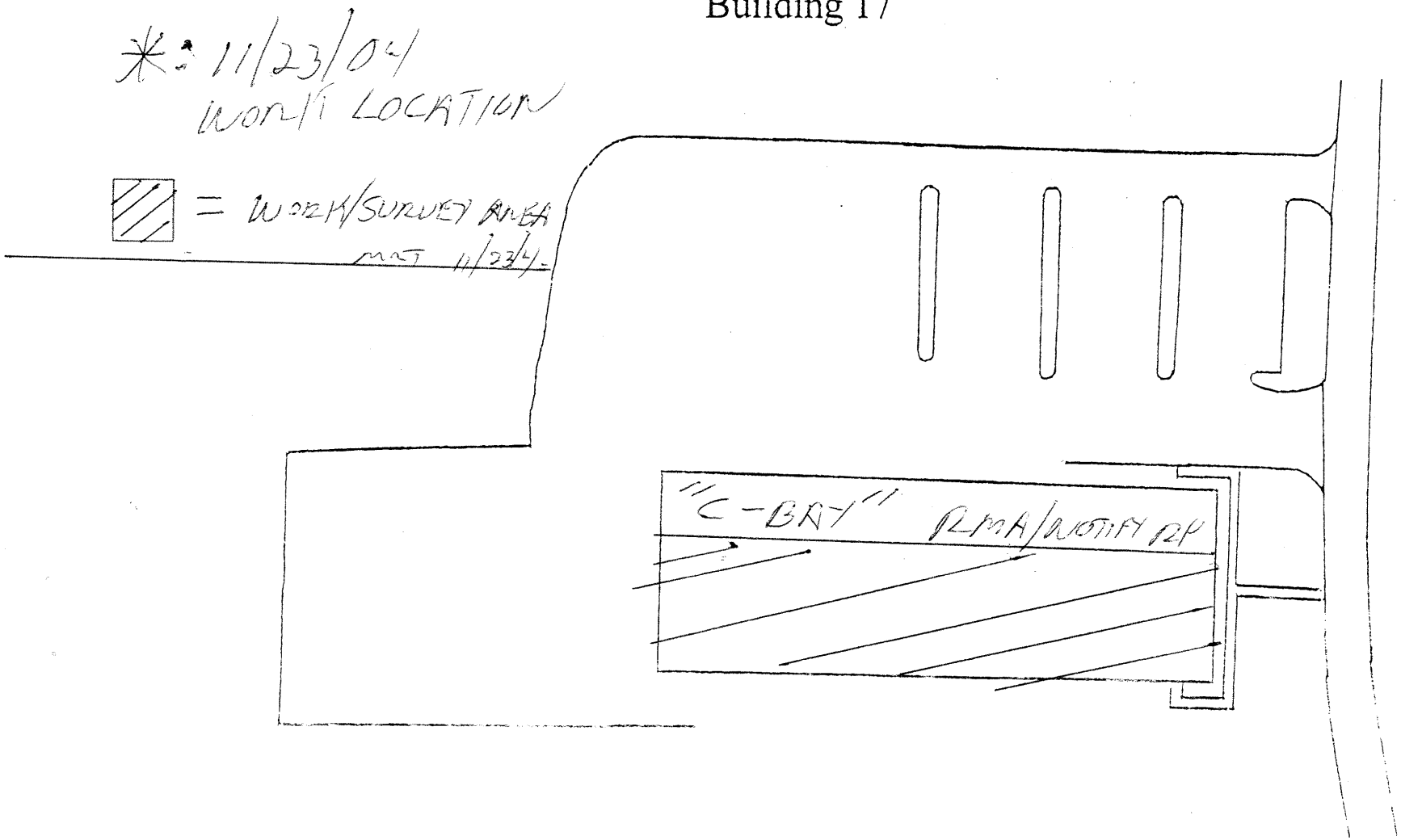
Instrument	Serial #	Probe	Serial #	Cal Due	Background
Lud 2221	117651	44-10 NaI	192589	01-19-05	344

	Sample ID #	Gross CPM	Background CPM	Net CPM
I/W PIPE 1 —	MAC-0411- 529	689	344	345
I/W PIPE 2 —	MAC-0411- 530	583	344	239
I/W PIPE 3 —	MAC-0411- 531	466	344	122
I/W SPOOL 1 —	MAC-0411- 532	622	344	278
STORM DRAIN A —	MAC-0411- 533	324	344	0
STORM DRAIN 1	MAC-0411- 534	560	344	216
" 2	MAC-0411- 535	601	344	257
" 3	MAC-0411- 536	634	344	290
	MAC-			
	MAC-			
COMPOSITE (BUCKLAND) FROM INSIDE VARIOUS PIECES OF I/W	MAC-0411-554	N/A	N/A	N/A (SEE ATTACHED)
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: THOMPSON Date: 11/22/04

Reviewed By: JAN 14 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

1104-049

Comments: Survey-Frisking and volumetric sampleing. Area identified as 1.0pCi volumetric rda direct frisk. 4" ID cast iron industrial waste line trench. Frisking and sampling done after lead flange and pipe removal. MNT 11/23/04

Surveyed By: THOMPSON/[illegible]RMAN Date: 11/23/04

Reviewed By: _____ Date: _____

JAN 14 2005

RADIOLOGICAL SURVEY MAP

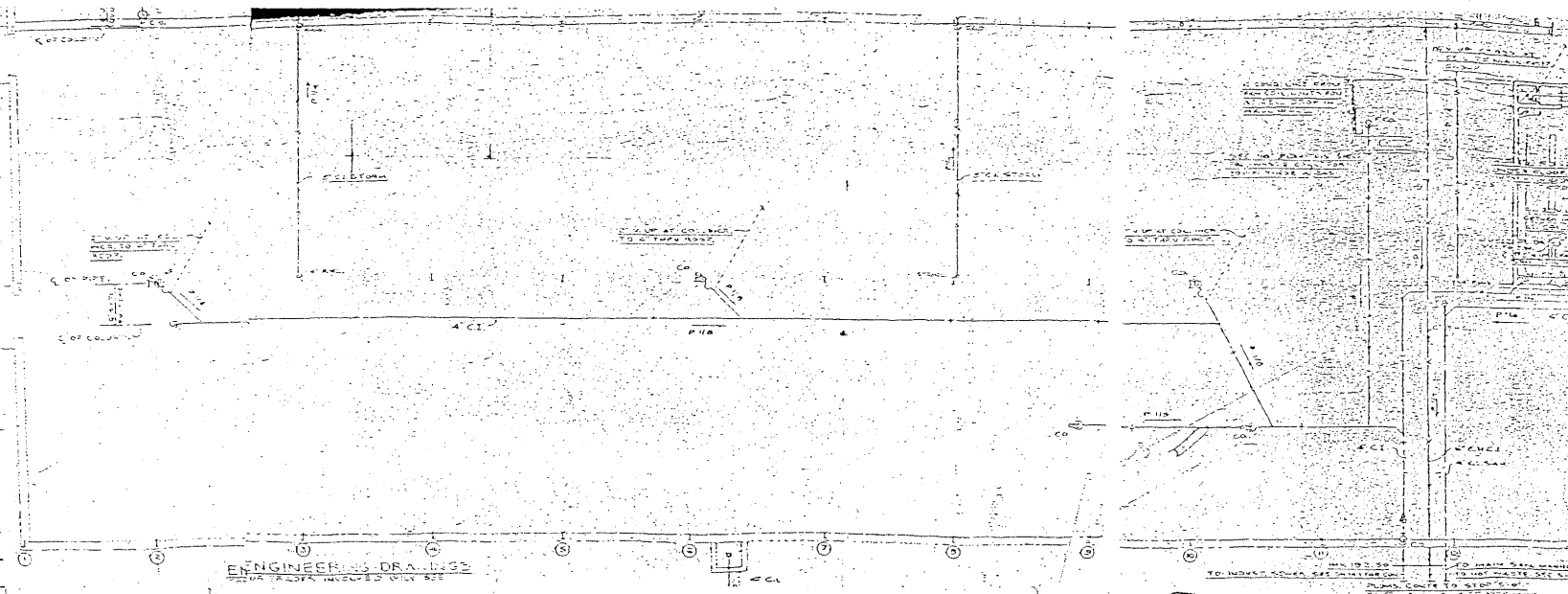
Map #	Location	RWP #	Page of
N/A	B617	N/A	

Smear Results

DPM/100 cm²

No.	α	β	No.	α
1			26	
2			27	
3			28	
4			29	
5			30	
6			31	
7			32	
8			33	
9			34	
10			35	
11			36	
12			37	
13			38	
14			39	
15			40	
16			41	
17			42	
18			43	
19			44	
20			45	
21			46	
22			47	
23			48	
24			49	
25			50	

Comments



NOTE* DIRECT FRISK OF TRENCH BOTTOM AND SIDES. FRISK PERFORMED POST Pb REMEDIATION (PIPE FLANGE) AND POST PIPE (4" I.D. CAST I/W LINE) REMOVAL. DIRECT FRISK RESULTS ≤ R_B @ 415 CPM (MAX OBSERVED).

#1104-049 [illegible] 11/23/04

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By LP JW								
Date	22241	124466	11.5%	8.3%	N/A	N/A	10/11/05	O - Smear # & Location
11/23/04	2224	183077	14.5%	19.3%	N/A	N/A	6/29/05	" " - Dose rate mrem/hr
Reviewed By [illegible]								Ω - Direct Reading
Date								Δ - Volumetric Sample

JAN 14 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

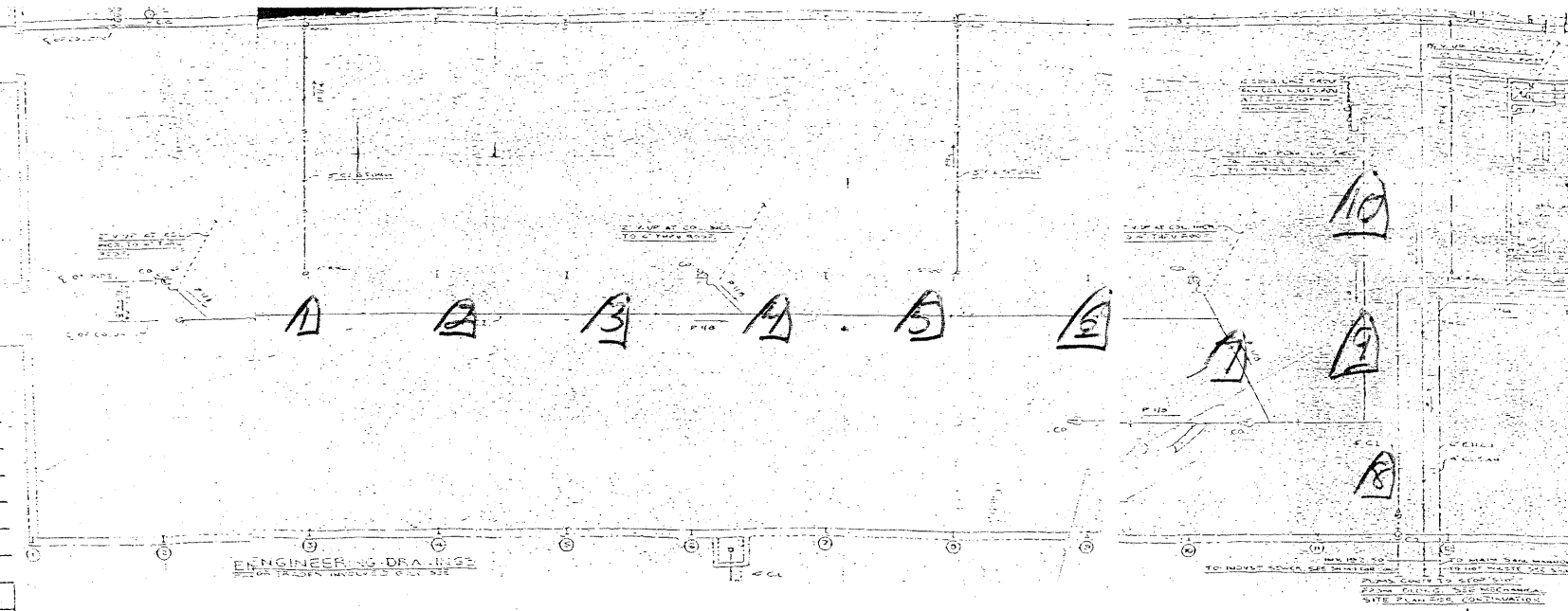
Map #	Location	RWP #	Page of
N/A	BLD 17	N/A	

Smear Results

DPM/100 cm²

No.	α	β	No.	α
1			26	
2			27	
3			28	
4			29	
5			30	
6			31	
7			32	
8			33	
9			34	
10			35	
11			36	
12			37	
13			38	
14			39	
15			40	
16			41	
17			42	
18			43	
19			44	
20			45	
21			46	
22			47	
23			48	
24			49	
25			50	

N/A



Comments

VOLUMETRIC SAMPLING LOCATIONS. SAMPLING PERFORMED POST PLUG FLANGE AND PIPE REMOVAL.

MJT 11/23/04

#1104-049

Surveyed By	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
MJT	2221	117651	N/A	N/A	N/A	N/A	1/19/05	O - Smear # & Location
Date 11/23/04								" " - Dose rate mrem/hr
Reviewed								Ω - Direct Reading
Date								Δ - Volumetric Sample

JAN 14 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description B-BAY "PCE" I-W 4" CAST PIPE TRENCH BOTTOM SAMPLES.

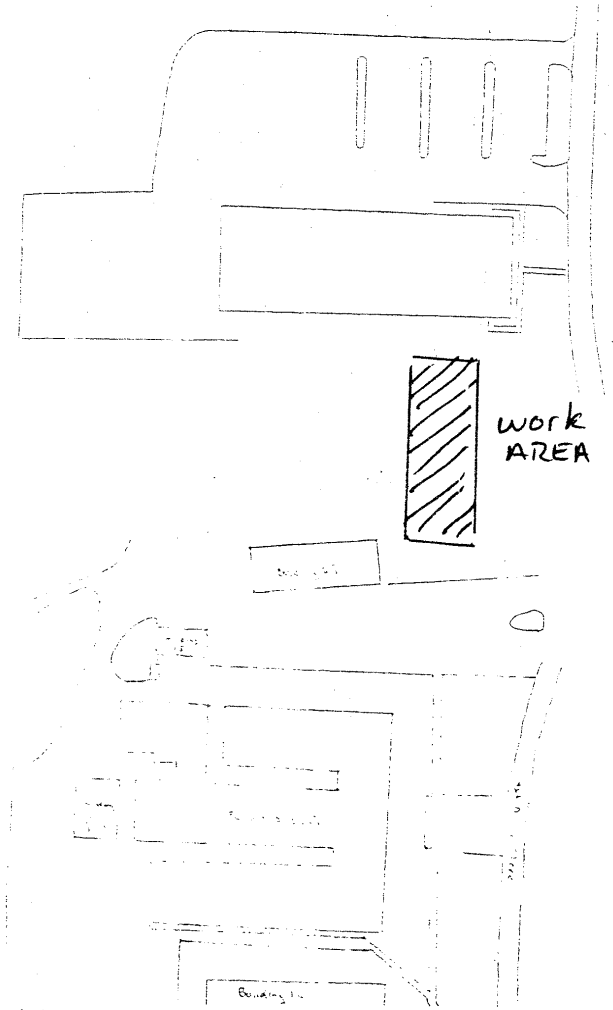
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	4440 (PL)	192589	1/19/01	344

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC-0411-579	566	344	222
2	MAC-0411-580	544	344	200
3	MAC-0411-581	598	344	254
4	MAC-0411-582 n/2	~~35~~ 441	344	97
5	MAC-0411-583	564	344	220
6	MAC-0411-584	462	344	118
7	MAC-0411-585	529	344	185
8	MAC-0411-586	426	344	82
9	MAC-0411-587	496	344	152
10	MAC-0411-588	545	344	201
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: THOMPKOSKI Date: 11/23/01

Reviewed By: [signature] Date:

JAN 14 2005



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: Excavation of Sanitary + I/W Running N to S, Between B5 complex + B17 complex

Surveyed By: J. Wilson
Reviewed By: _____ Date: 01-19-05

JUL 2 7 20[illegible]

Date: _____

RADIOLOGICAL SURVEY MAP

Map #	Location B-5	RWP #	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	12	0	26		
2	6	32	27		
3	0	0	28		
4	6	0	29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

I/w = Industrial waste

BKG = Backround

B-17 -> B5 Iw line pieces

I/w Pipes Pieces Survey

* - Direct frisk 100% Scan No Detectable Activity above BKG was found

O - Smears as noted

I/w line from Hillside of 6A

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
2-2-05	Ludlo 30	185405	31.9%	18.3%	1.2	41.6	8-16-05	O - Smear # & Location
[illegible]	Lud 2224	190224	12%	14.9%	1	156	8-4-05	" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
								Δ - Volumetric Sample

AUG 15 2005

RADIOLOGICAL SURVEY MAP

Map # | Location | MWP # | Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	0	25		
2	0	0	26		
3	3	0	27		
4	3	0	28		
5	0	0	29		
6	3	0	30		
7	0	0	31		
8	0	0	32		
9			33		
10			34		
11			35		
12			36		
13			37		
14			38		
15			39		
16			40		
17			41		
18			42		
19			43		
20			44		
21			45		
22			46		
23			47		
24			48		
25			49		

N/A

N/A

Excavation of Sanitary + I/W lines

22.1 NaI Bkg

Spoils - 2.8-3.4k

Trench 3.7 - 4.2k

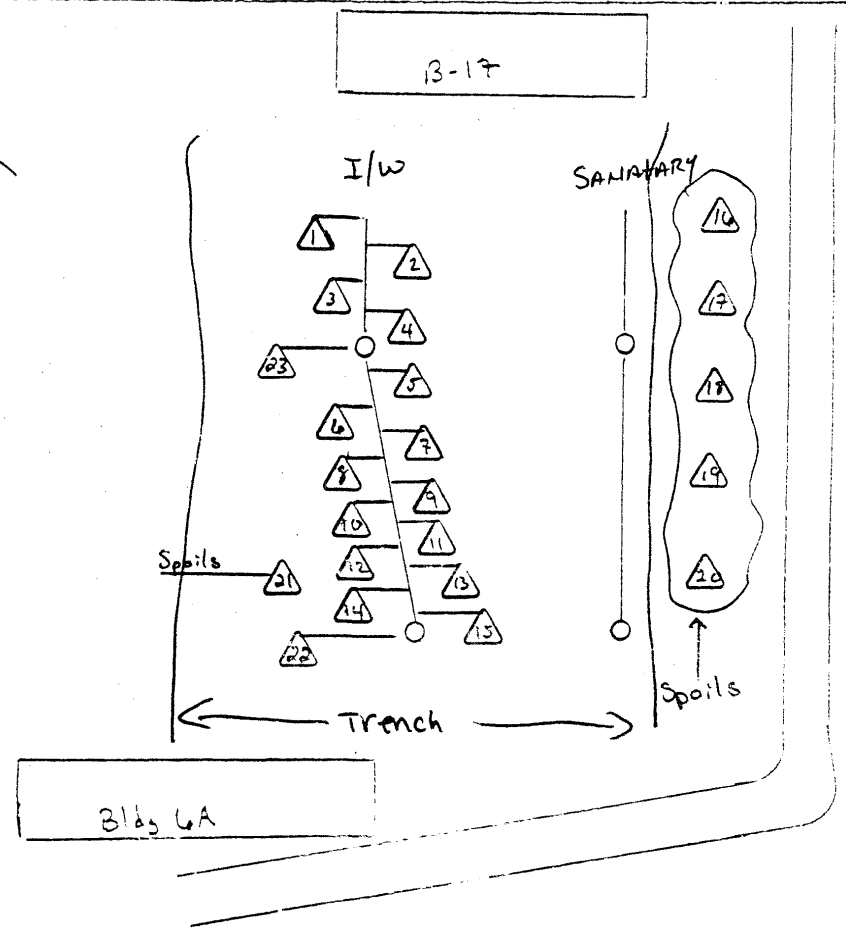
Smearable: 1-8 sanitary Pipe

volumetrics: 1-28 on trench bottom

Direct Frisk: 10% of sanitary
No Activity Above Bkg
Detected.

Sludge
~~Sploge~~ found in I/W line
North of North manhole
No Activity Detected w/Frisker
See Next page for ~~sploge~~ sludge
samples locations.

NaI walkover: Spoils: 2.8k - 3.4k
Trench: 3.7k - 4.2k



Surveyed By	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Type
Date J. Wilson M. Thompkins	Lud 2224	183074	9.9%	15.6%	N/A	N/A	10-11-04	Gas Smear & Loose
01-19-05	Lud 2221	117651	N/A	N/A	N/A	N/A	01-19-05	Contaminated
Reviewed By [illegible]	3030	185405	31.9%	18.3%	1.2 dpm	41.6 dpm	08-14-05	Direct Reading
Date	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Air Sample

JUL 27 2005

PROCEDURE NO RPP-4	REVISION NO 1	ATTACHMENT 1 PAGE NO 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # | Location | RWP # | Page of

Smear Results
DPM/100 cm²

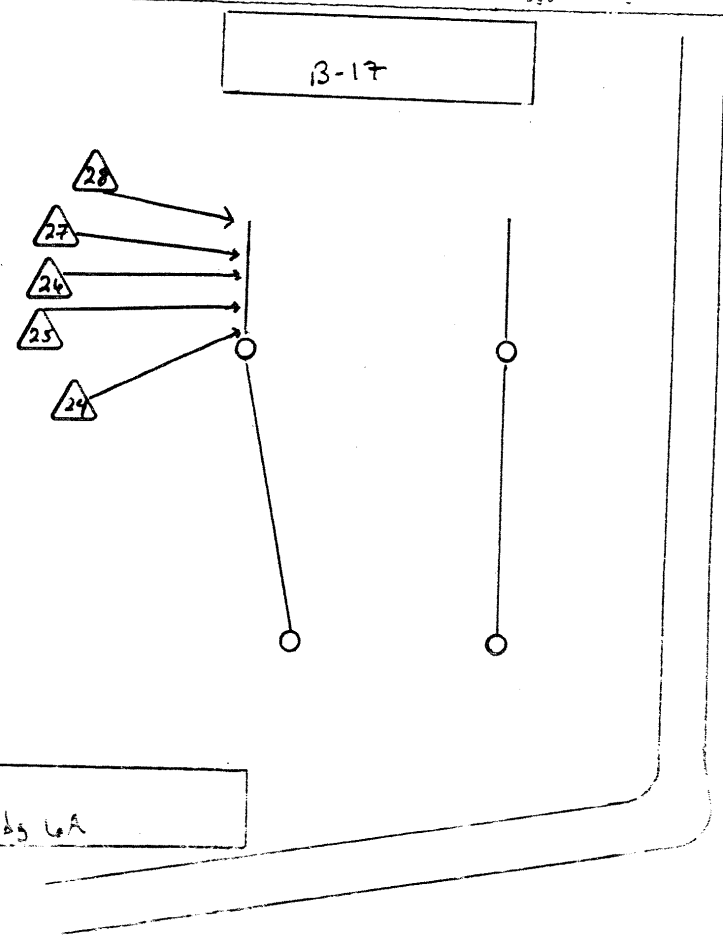
No.	α	β	No.	α	β
1			25		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

NA NA

NA

B5/B17 ~~Sploudge~~ Sludge
Sample locations
From I/W line

JW 02/21



Surveyed By, Date	Instrument	Serial #	α Efficiency	β Efficiency	Bkg CPM	Bkg CPM	Cal Date	Key
James Wilson, M. Thorkildsen, 01-19-05	NA		NA		NA		NA	S - Smear # & Location C - Contaminated Area D - Direct Reading A - Volumetric Sample

JUL 27 2005

PROCEDURE NO. RPP-4	REVISION NO. 1	ATTACHMENT 1 PAGE NO. 1 OF 1

2X2 Soil Counting

Location / Description: B5/B17
SANITARY + I/W lines running
from B5 to B17, N→S

Instrument	Serial #	Probe	Serial #	Cal Due	Background
Ludlum 2221	117651	44-10 NaI	192589	01-19-05	364

		Sample ID #	Gross CPM	Background CPM	Net CPM
I/W Trench Bottom	1	MAC 0501-145	466	364	102
	2	MAC 0501-146	495		131
	3	MAC 0501-147	491		127
	4	MAC 0501-148	418		54
	5	MAC 0501-149	426		62
	6	MAC 0501-150	478		114
	7	MAC 0501-151	513		149
	8	MAC 0501-152	411		47
	9	MAC 0501-153	368		4
	10	MAC 0501-154	464		100
	11	MAC 0501-155	380		16
	12	MAC 0501-156	461		52
	13	MAC 0501-157	412		48
	14	MAC 0501-158	428		64
	15	MAC 0501-159	515		151
W spoils / Sanitary Spoils	16	MAC 0501-160	494		130
	17	MAC 0501-161	431		67
	18	MAC 0501-162	429		65
	19	MAC 0501-163	454		90
	20	MAC 0501-164	381		17
	21	MAC 0501-165	543		179
I/W Inside South Manhole	22	MAC 0501-166	364		0

Counted By: James [signature] Date: 01-19-05

Reviewed By: JUL 27 2005 Date:

2X2 Soil Counting

Location / Description: B5/B17
Sanitary + I/W lines running
N→S, B5 to B17

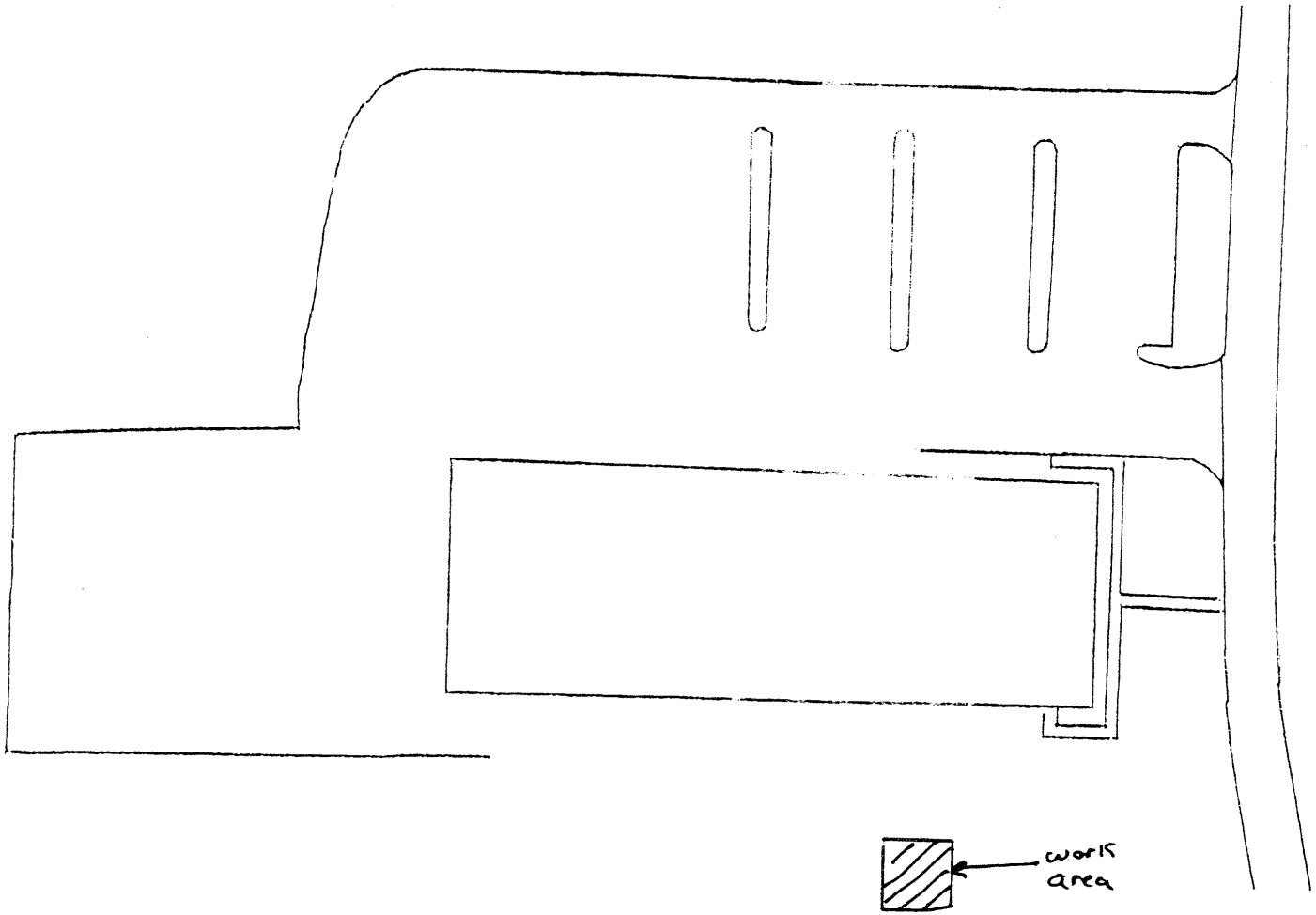
Instrument	Serial #	Probe	Serial #	Cal Due	Background
Ludlum 2221	117651	44-10 Na7	192589	01-19-05	364

	Sample ID #	Gross CPM	Background CPM	Net CPM
North manhole "Inside"	23 MAC 0501-139	398	364	34
I/W line	24 MAC 0501-140	337		-27
	25 MAC 0501-141	431		67
	26 MAC 0501-142	475		111
	27 MAC 0501-143	457		93
	28 MAC 0501-144	511		147
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			
	MAC			

Counted By: Date:

Reviewed By: JUL 27 20 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Survey # 0105-019

Comments: Sanitary Line Removal

Surveyed By: [illegible] Date: 1-17-05

Reviewed By: _____ Date: _____

AUG

RADIOLOGICAL SURVEY MAP

Map #	Location B-17 Hillside	RWP # NA	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	6	26		
2	0	0	27		
3	0	0	28		
4	12	0	29		
5	0	44	30		
6	0	0	31		
7	0	76	32		
8	0	0	33		
9	0	36	34		
10	0	0	35		
11	0	0	36		
12	6	0	37		
13	0	0	38		
14	0	87	39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
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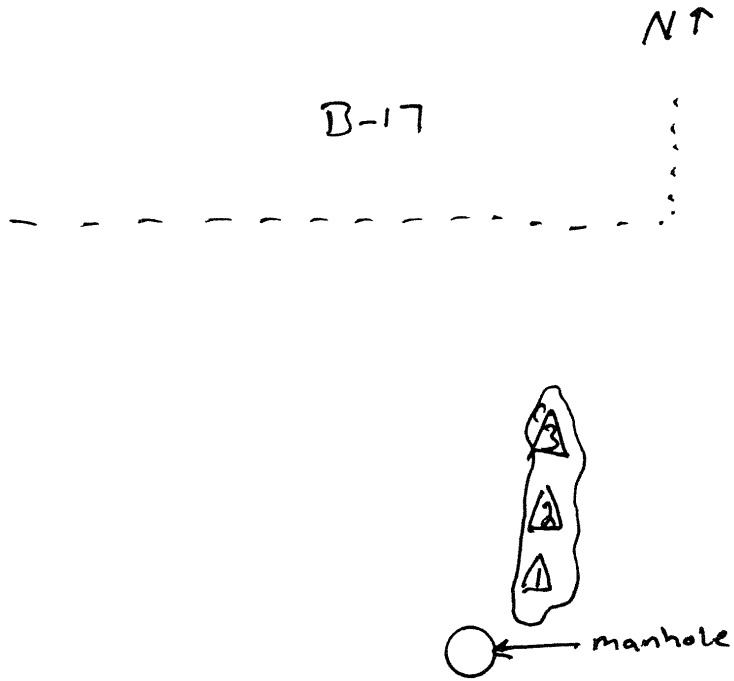
22			47		
23			48		
24			49		
25			50		



* Direct frisk all pipe ends NDA above BKG was found

Comments

O - Smears in Pipe ends as noted

Δ - Volumetrics Taken Results Attached

NDA = No Detectable Activity

Survey # 0105-019

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
1-17-05	Lod 2224	190224	12 %	14.8%	1	126	8-4-05	O - Smear # & Location
	Lod 3030	185405	31.9%	18.3%	1.2	41.6	8-7-05	" " - Dose rate mrem/hr
Reviewed By / Date	Lod 2221	117651	NA	NA	NA	367	1-19-05	Ω - Direct Reading
								Δ - Volumetric Sample

AUG 15 2005

2X2 Soil Counting

Location / Description B-17
Between B-17-6A Hillside
Sanitary Spoils Pile

Survey # 0105-019

Instrument	Serial #	Probe	Serial #	Cal Due	Background
Ludlum 2221	117651	44-10	192589	1-19-05	367

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC-0501-123	522	367	155
2	MAC-0501-124	576	367	209
3	MAC-0501-125	480	367	113
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
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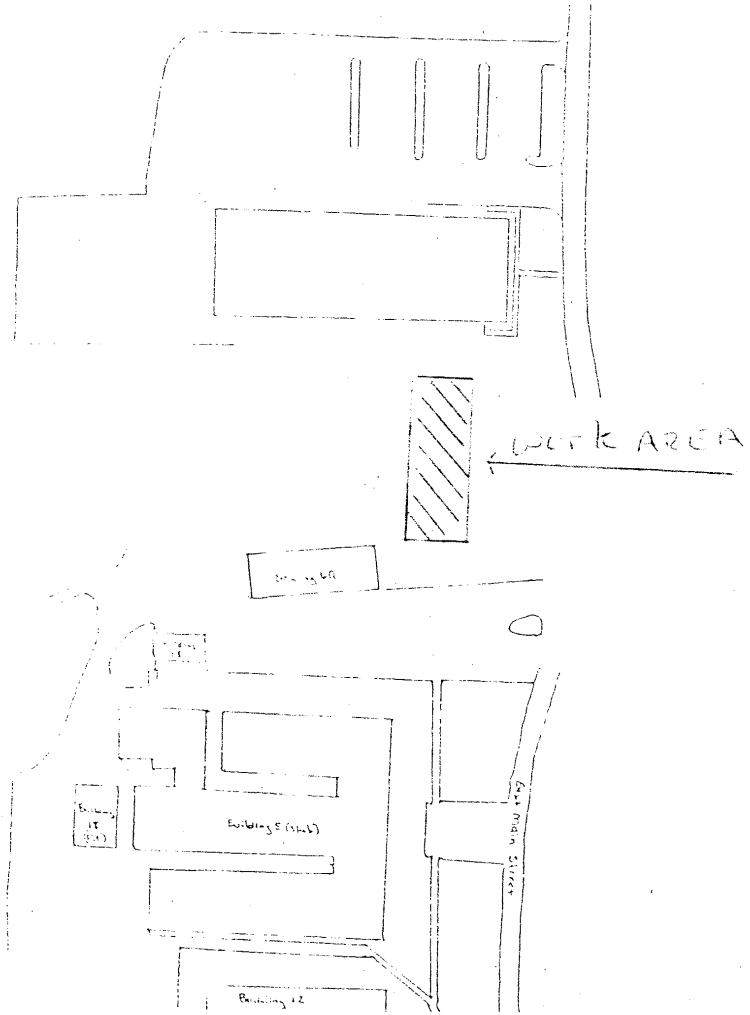
Counted By: Michael Sweet Date: 1-17-05

Reviewed By: [signature] Date:

AUG 15 2005



Page 1 of __ see attached sheets for [illegible] Data

Comments: Excavated soil Between B5 & B17
IW & SANITARY lines

Survey # 0105-021

Surveyed By: J. Wilson / M. Thorkildsen
Reviewed By: _____ Date: 01-18-05
Date: _____

AUG 15 2005

RADIOLOGICAL SURVEY MAP

Survey # 0105-021

Map # | Location | W/P # | Page of

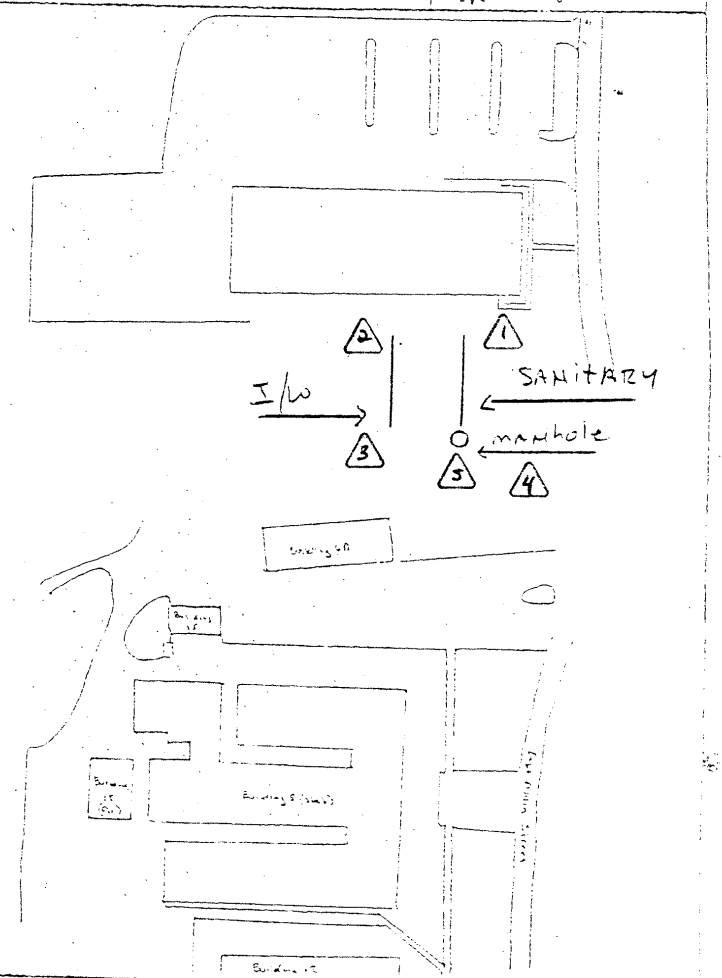
Smear Results

CPM/100 cm²

No.	α	β	No.	α	β
1			25		
2			26		
3			27		
4			28		
5			29		
6			30		
7			31		
8			32		
9			33		
10			34		
11			35		
12			36		
13			37		
14			38		
15			39		
16			40		
17			41		
18			42		
19			43		
20			44		
21			45		
22			46		
23			47		
24			48		
25			49		

Volumetrics 1-5 1-4 Spoils
5 Inside Sanitary manhole

Volumetrics only taken, Pipes were not exposed or Excavated.



Comments

Excavated Soil between B5 + B17 I/W + Sanitary Lines.

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
Surveyed By: J. Wilson, M. Thirlidsen; Date: 01-18-05	Ludl 2221	97833	N/A	N/A	N/A	N/A	11-9-05	S = Smear & Location
Reviewed By: [signature]; Date:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	M = Dose rate in mr/hr
								D = Direct Reading
								A = Volumetric Sample

AUG 15 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

Soil Counting Survey # 4105-021

Location / Description B5/B17
I/W + SANITARY lines
Running N to S from
B5 to B17

Instrument	Serial #	Probe	Serial #	Cal Due	Background
Lud 2221	9833	44-10 NaI	0534	11-9-05	366

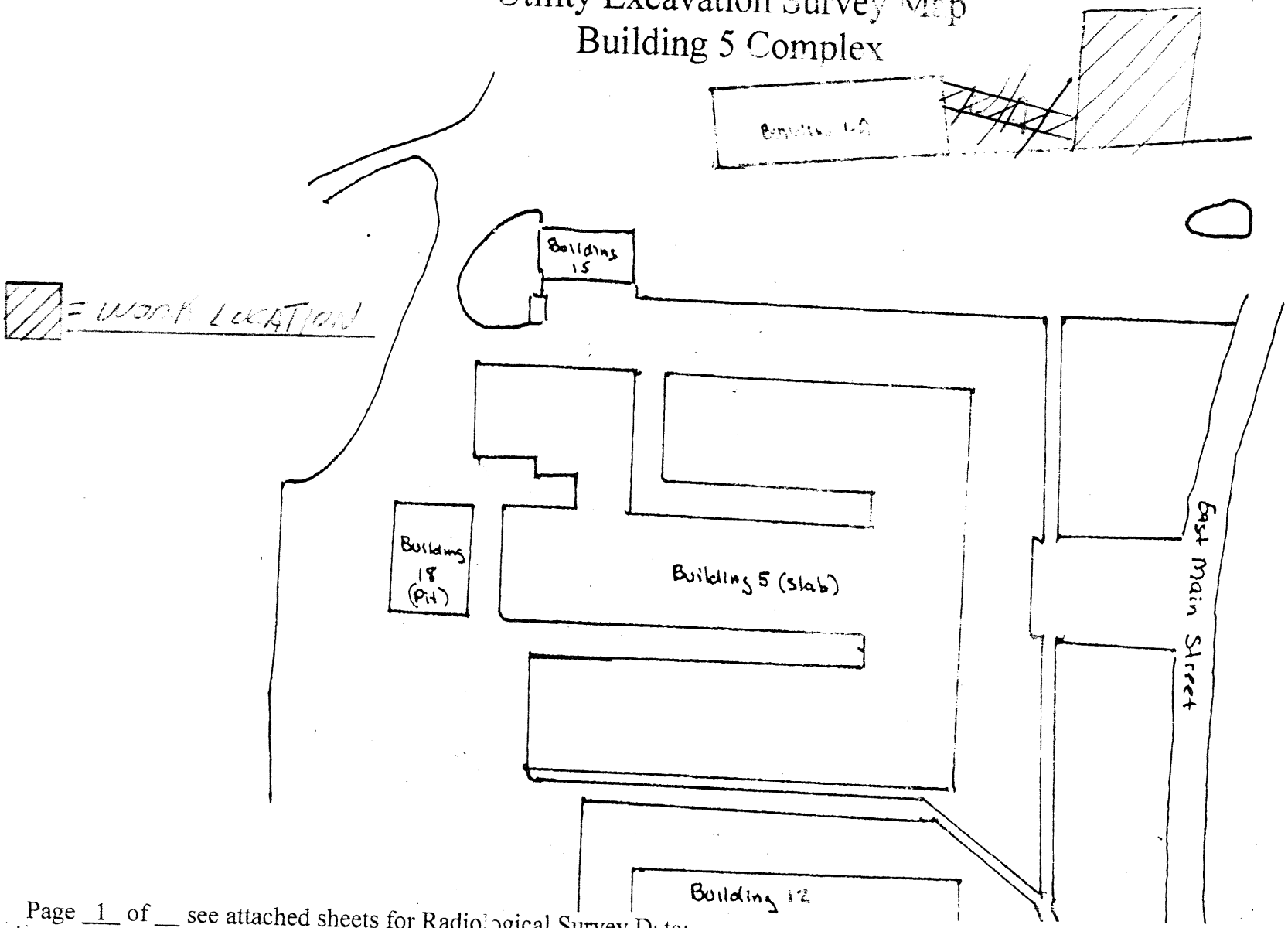
	Sample ID #	Gross CPM	Background CPM	Net CPM
Spoils	MAC-0501-134	437	366	71
	MAC-0501-133	484		118
	MAC-0501-135	402		36
	MAC-0501-136	542		176
... to manhole	MAC-0501-137	400		34
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: James W. Wood Date: 01-18-05

Reviewed By: Date:

AUG 15 2005

Utility Excavation Survey Map
Building 5 Complex



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: EXCAVATION/REMOVAL OF SANITARY AND INDUSTRIAL WASTE PIPING AND MANHOLES. LOCATED/REMOVED TOPSOIL TO SAMPLING AREA OF TRENCH MH #18

Surveyed By: [illegible] Date: 7/12/05

Reviewed By: JUL 27 2005 Date:

A0105-022

RADIOLOGICAL SURVEY MAP

Map # N/A	Location BLD 6A / HILL	RWP #	Page of

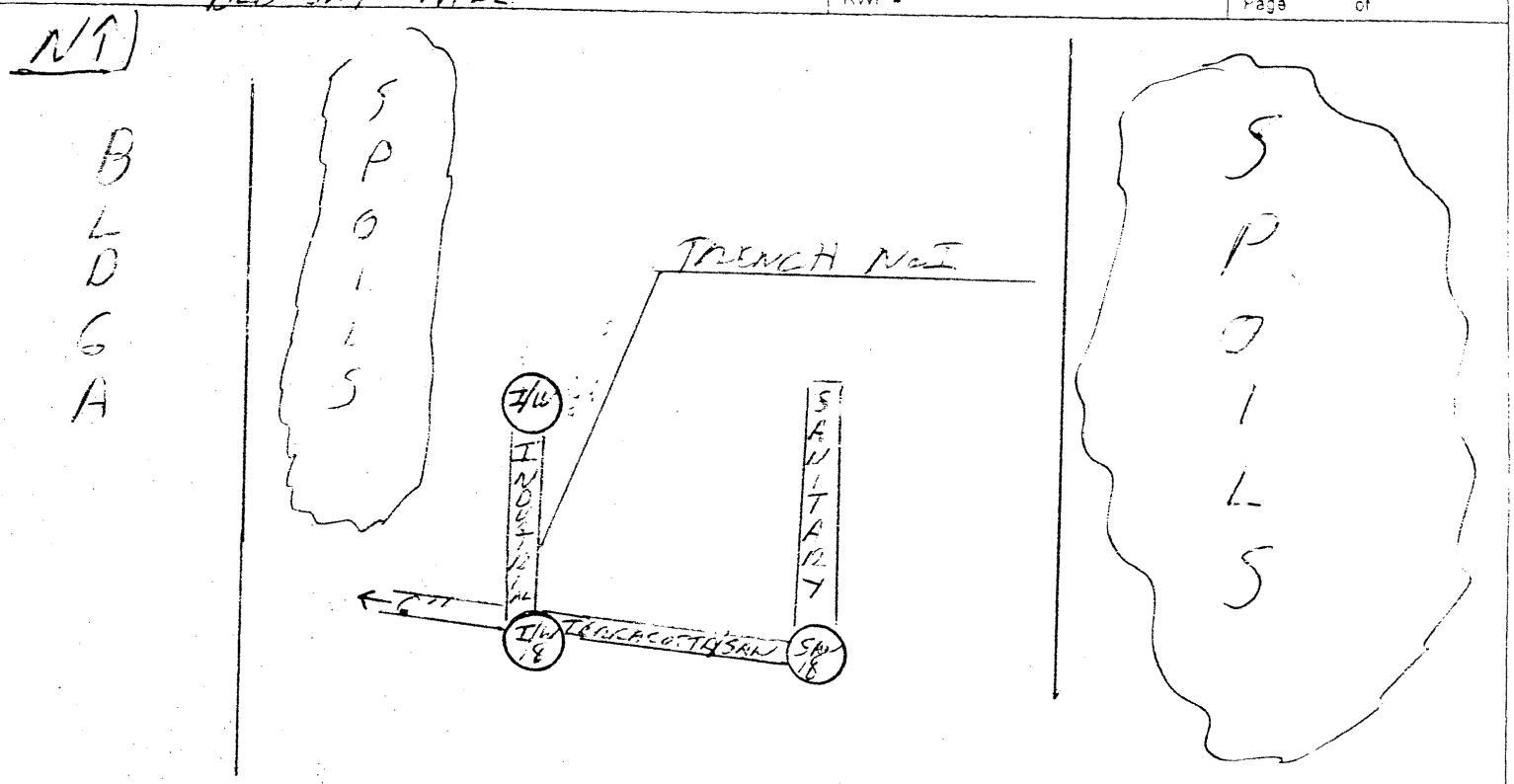
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

NOA → RAD 4 HOPA
IN I/W TRENCH
BOTTOM & MOST
TRENCH ACCESSIBLE
W/ CRANE & ESCAPE



ACCESS ROAD

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
1/20/05	KEGO	2177	7.1%	14.6%	N/A	N/A	11/11/05	O - Smear # & Location
Reviewed By / Date	2221	97833	N/A	N/A	N/A	N/A	11/08/05	" " - Dose rate mrem/hr
	2350-1	R6175					12/16/05	Ω - Direct Reading
								Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

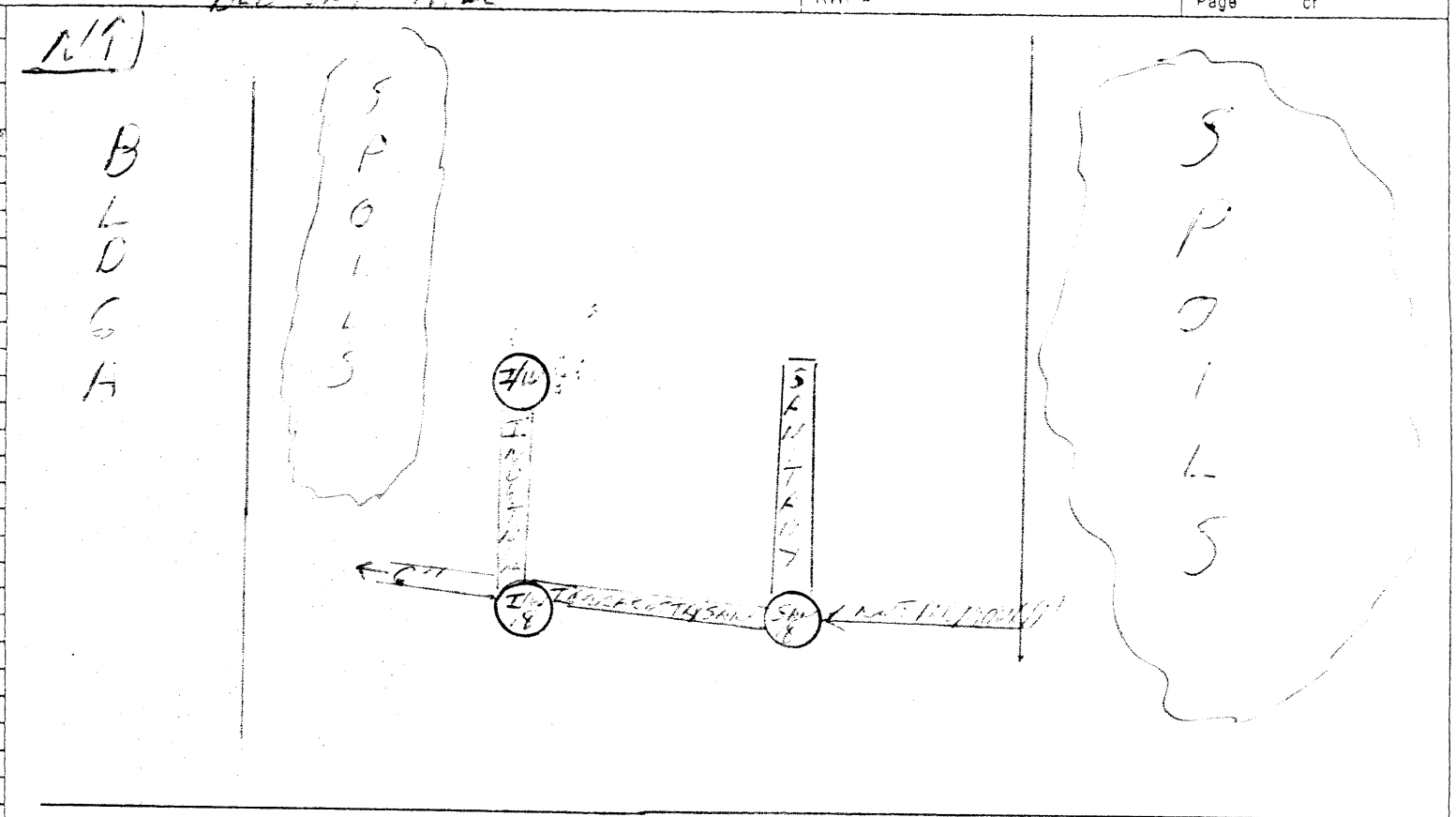
Map #	Location	RWP #	Page of
N/A	BLDG SAL HILL		

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α B-g (CPM)	βγ Bkg (CPM)	Cal Due	Key
[illegible] 1/20/05	KEG	2177	21%	14%	[illegible]	[illegible]	[illegible]	O - Smear # & Location
	2221	97853	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
								Δ - Volumetric Sample

JUL 27 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A	Location BLOCK 1 HILL	RWP #	Page of

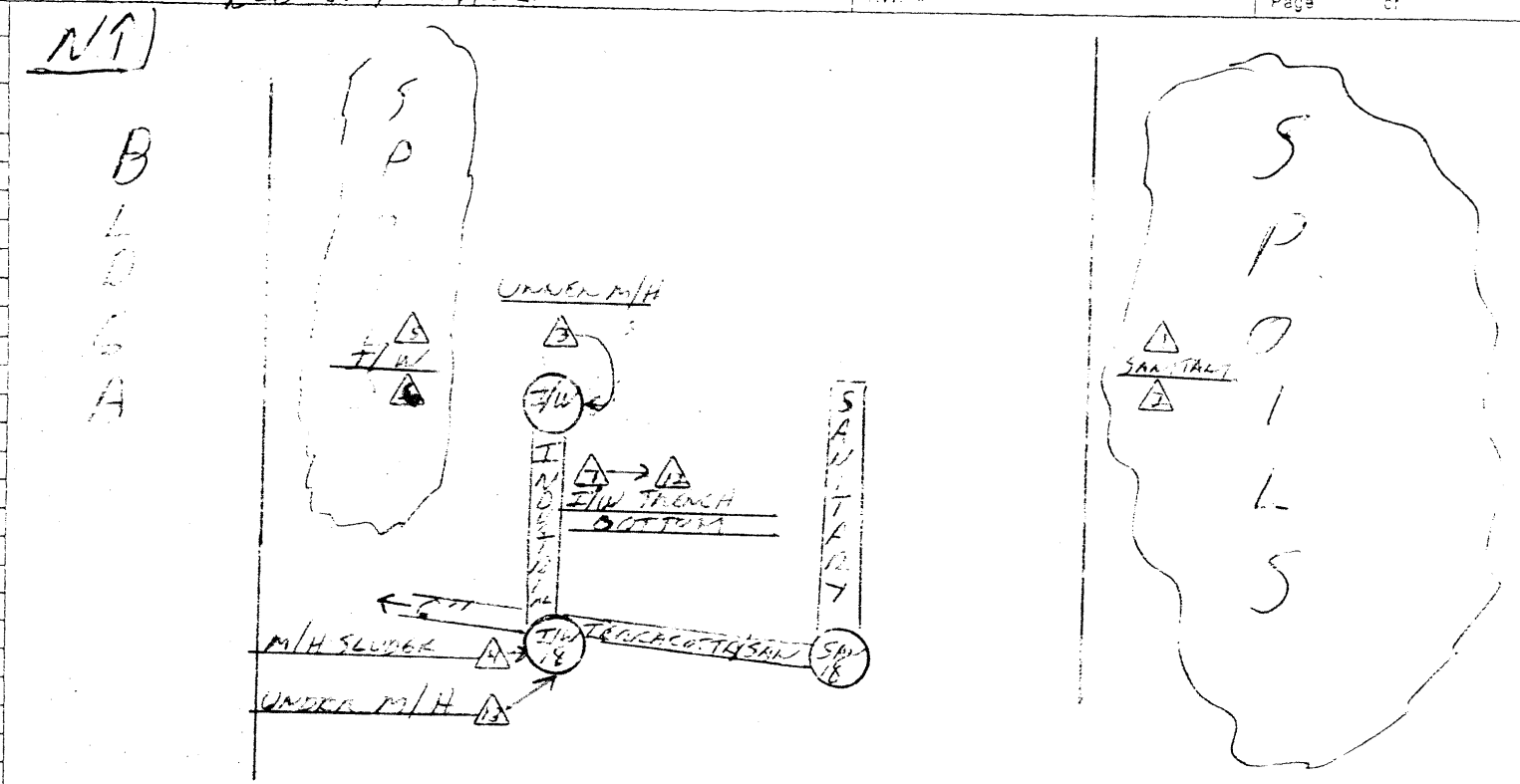
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

VOLUMETRICS OF SPOILS, TRENCH BOTTOM (I/W) AND UNDER MANHOLES (M/H) NO VOLUMETRIC IN PIPE.



ACCESS RECORD

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
1/20/05	KE00	2177	7.1%	14.6%	N/A	N/A	11/11/05	O - Smear # & Location
Reviewed By / Date	2221	97833	N/A	N/A	N/A	N/A	11/08/05	" " - Dose rate mrem/hr
	[illegible]	[illegible]					[illegible]	Ω - Direct Reading
								Δ - Volumetric Sample

JUL 27 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map #	Location B-5 NORTH OF B-5 FOOTPRINT	RWP # N/A	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	6	86	26		
2	0	0	27		
3	0	20	28		
4	6	54	29		
5	0	86	30		
6	0	54	31		
7	6	42	32		
8	6	42	33		
9	6	0	34		
10	6	54	35		X
11			36	N	
12			37		
13			38		
14			39		
15	N		40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25		A	50		

Comments

NONE

SANITARY WASTE MANHOLE
SMEAR SURVEY

- SMEARS 1-10 ON 1/5 OF MANHOLE SECTIONS THESE SECTIONS CAME FROM HILL BETWEEN B-17 & B-5.

* NOTE I/S INDICATES "INSIDE"

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	[illegible] (CPM)	βγ Bkg (CPM)	Cal Due	Key
R Como 1-20-05	L/3000	185405	Th-232 31.9	T-99 18.3	1.2	41.6	8-7-05	O - Smear # & Location
Reviewed By / Date								" " - Dose rate mrem/hr
								Ω - Direct Reading
								Δ - Volumetric Sample

JUL 27 2005

P 0105-022

RADIOLOGICAL SURVEY MAP

Map #	Location B 17 Bldg A Footprint	RWP # N A	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	32	26		
2	0	0	27		
3	0	0	28		
4	0	0	29		
5	0	0	30		
6	0	0	31		
7	0	20	32		
8	0	10	33		
9	0	0	34		
10	0	0	35		
11			36		
12			37	N	
13			38		
14			39		
15			40		
16			41		
17	N		42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

NONE

INDUSTRIAL WASTE MANHOLE

Smear Survey

- Smears 1-10 on 1/5 of manhole sections These sections came from hill between B-17 & B-5

Surveyed By Date	Instrument	Serial #	α Efficiency	β Efficiency	α bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
1-30-05	L/3050	185405	Th-232 31.9	Tc99 18.5	1.2	41.6	8-7-05	O - Smear # & Location
Reviewed By				N				" " - Dose rate mrem/hr
Date					N A			Ω - Direct Reading
								Δ - Volumetric Sample

JUL 27 2005

RADIOLOGICAL SURVEY MAP

Map # N/A	Location BLDG 681 HILL	RWP #	Page of

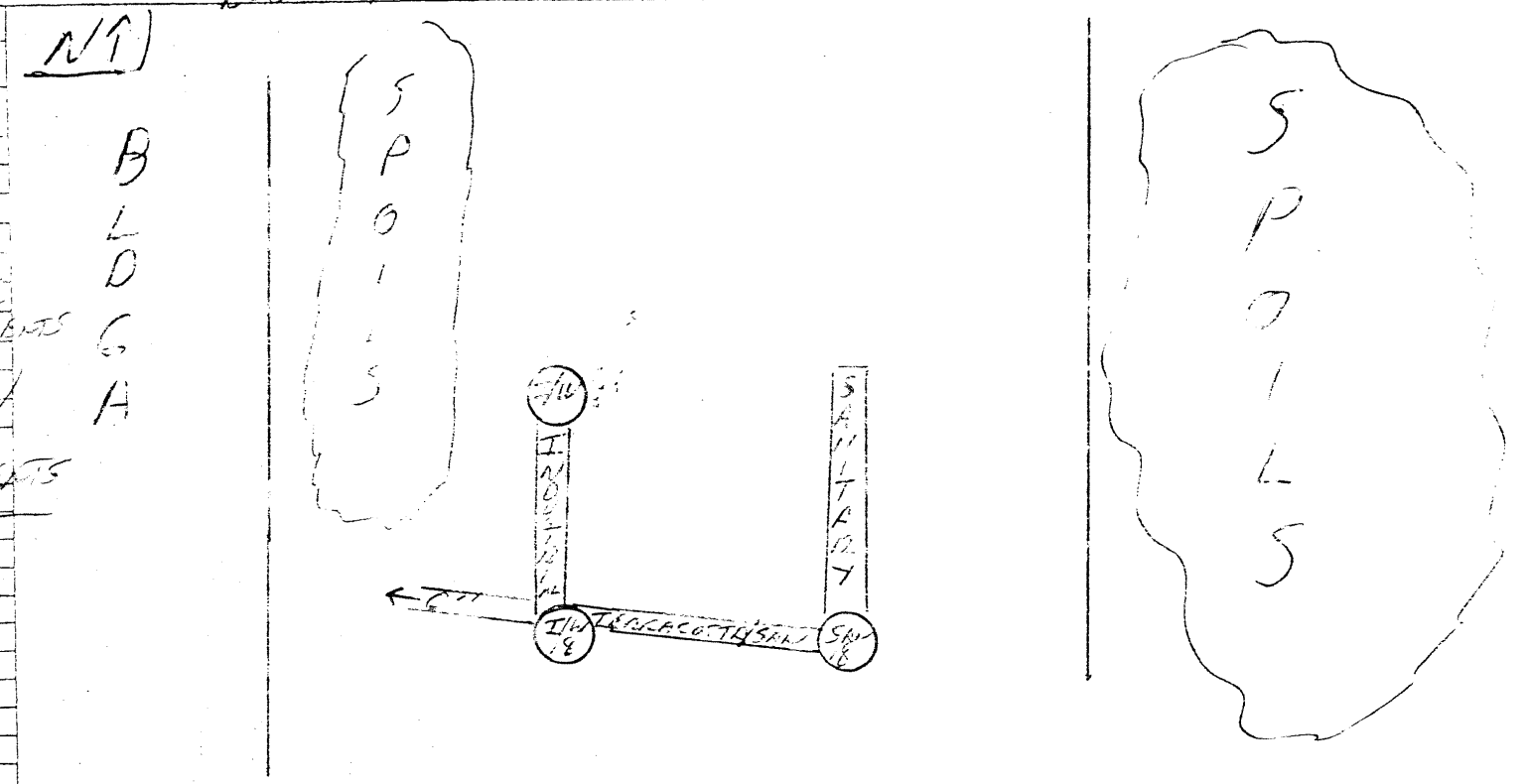
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	6	32	26		
2	0	6	27		
3	0	0	28		
4	0	0	29		
5	0	0	30		
6	0	0	31		
7	0	0	32		
8	0	0	33		
9	0	0	34		
10	0	0	35		
11	0	6	36		
12	0	0	37		
13	6	0	38		
14	0	6	39		
15	0	0	40		
16	0	6	41		
17	0	0	42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

SMEARS OF MANHOLE SEGMENT AND I/W PIPE SEGMENTS



ACCESS ROAD

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg ~~(CPM)~~	β Bkg ~~(CPM)~~	Cal Due	Key
1/20/05	KEGO	2177	7.1%	14.6%	N/A	N/A	11/11/05	O - Smear # & Location
Reviewed By / Date	2221	97833	N/A	N/A	N/A	N/A	11/08/05	" " - Dose rate mrem/hr
	3200-1	185195					8/15/05	Ω - Direct Reading
	3030	185405	31.9%	18.3%	1.2	41.5	8/16/05	Δ - Volumetric Sample

JUL 27 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

0107-022

2X2 Soil Counting

Location / Description B5/B17
I/W/SANITARY lines

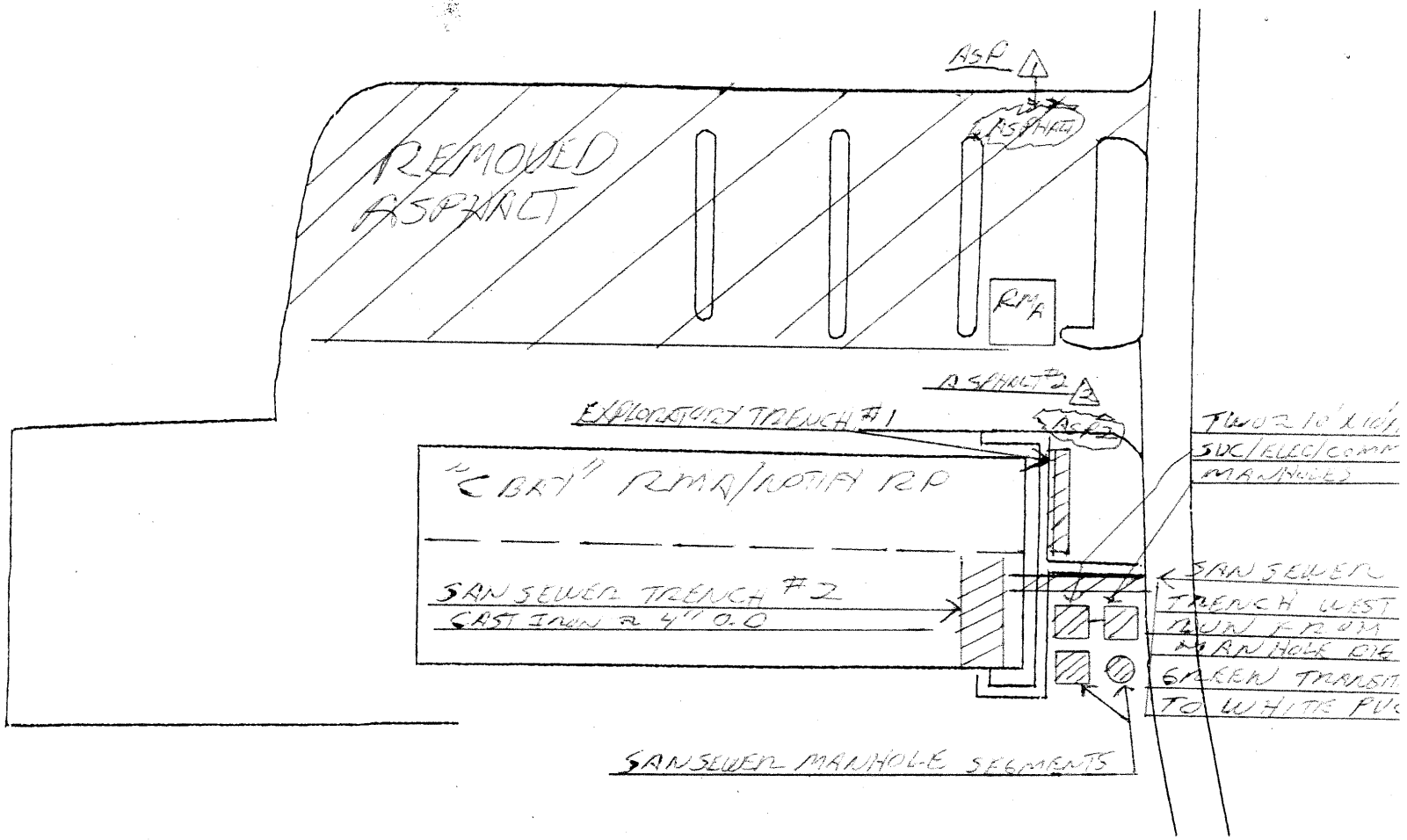
Instrument	Serial #	Probe	Serial #	Cal Due	Background
Lud 2350-1	186175	44-10 NaI	199144	11-26-05	201

		Sample ID #	Gross CPM	Background CPM	Net CPM
SANITARY Spoils	1	MAC- 0501 - 167	388	201	187
" "	2	MAC- 0501 - 168	468		267
under I/W manhole #	3	MAC- 0501 - 169	467		266
sludge from Inside manhole #18	4	MAC- 0501 - 170	522		321
I/W spoils	5	MAC- 0501 - 171	444		243
" "	6	MAC- 0501 - 172	452		251
I/W Trench Bottom	7	MAC- 0501 - 173	413		212
" " "	8	MAC- 0501 - 174	436		235
" " "	9	MAC- 0501 - 175	439		238
" " "	10	MAC- 0501 - 176	321		120
" " "	11	MAC- 0501 - 177	416		215
" " "	12	MAC- 0501 - 178	415		214
under I/W manhole #18	13	MAC- 0501 - 179	435		234
		MAC-			
		MAC-			
		MAC-			
		MAC-			
		MAC-			
		MAC-			
		MAC-			
		MAC-			
		MAC-			

Counted By: James Wilson Date: 01-20-05

Reviewed By: JUL 27 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: LOCATOR MAP FOR DIG WORK PERFORMED 10/26/4

Surveyed By: [illegible] Date: 10/26/4

Reviewed By: [illegible] Date: [illegible]

RADIOLOGICAL SURVEY MAP

Map # N/A	Location BLDG 17 AREA	RWP # N/A	Page of

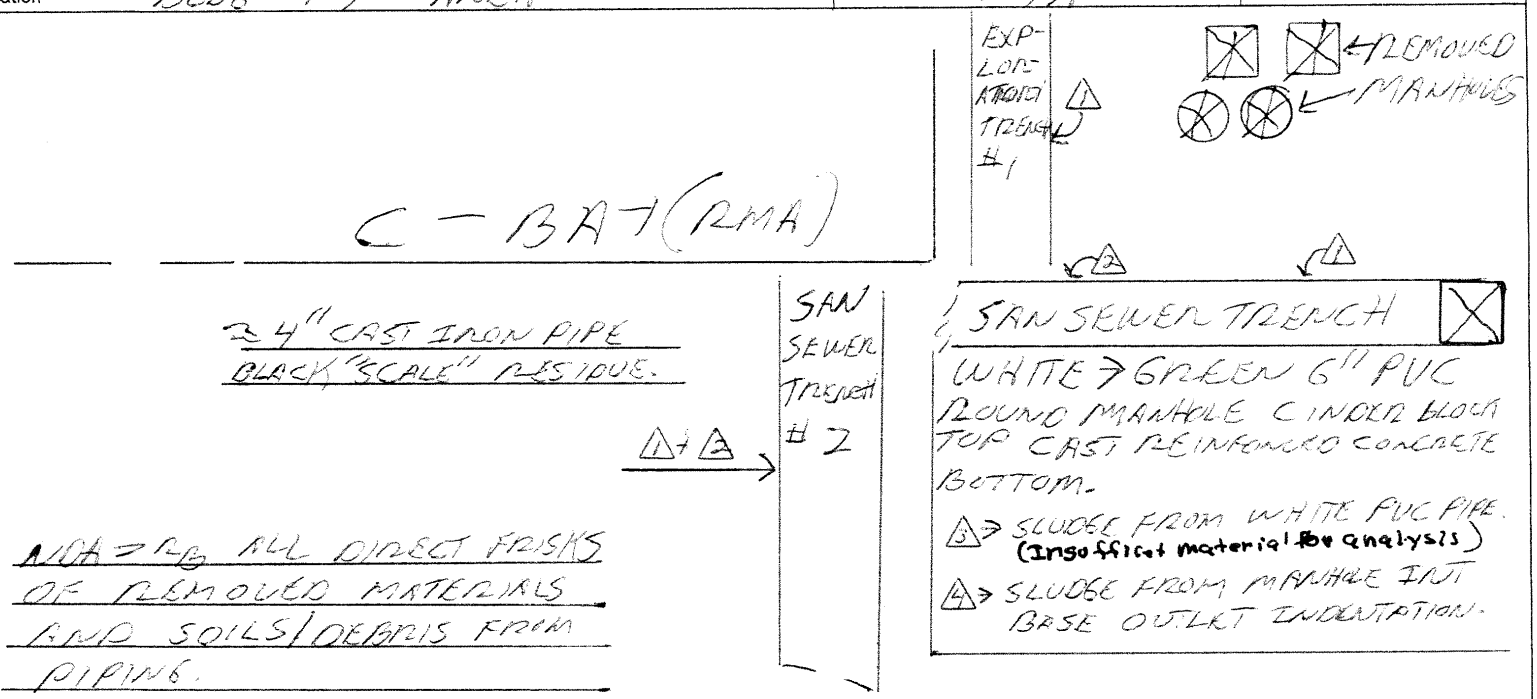
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

NOTE NO DETECTABLE ACTIVITY. R_B = BACKGROUND RATE (CPM)



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
MMT	2224	190224	12.2%	14.9%	N/A	N/A	8/4/05	O - Smear # & Location
10/26/04	2221	117651	N/A	N/A	N/A	N/A	2/10/05	" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
								Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page of
N/A	BLDG 17 AREA	N/A	

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	0	26		
2	0	44	27		
3	0	14	28		
4	0	0	29		
5	0	60	30		
6	0	30	31		
7	0	44	32		
8	0	150	33		
9	0	44	34		
10	0	0	35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

N/A

Comments

*1: SAN SEWER MANHOLE EXT] ROAD/CINDER BLOCK MATERIAL
2: SAN SEWER MANHOLE INT]
3 ~~>8~~ 10: SUC WATER/COMM/ELEC MANHOLE] LARGE (≈ 10' x 10') DUAL SQUARE REINFORCE CONCRETE MATERIAL
MMT 10/27/14

*① > 50% DIRECT FRISK (EXTERIOR + OPENINGS/PENETRATIONS) OF ALL THREE MANHOLE, RESULTING IN READINGS OF ≤ R_B (400 CPM MAX).
② INTERIOR OF SAN SEWER MANWAY ≤ R_B (400 CPM MAX) WHERE ACCESSIBLE.
③ SLUDGE SAMPLE ← OCCL ON NCI ~~OF~~ 10/26/14 MMT FROM SAN SEWER @ OUTLET SLEEVE.

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
MMT 10/26/14	30/30	185417	32.6%	13.2%	1.4	32.5	8/25/05	O - Smear # & Location
	2224	140224	12.0%	14.9%	N/A	N/A	8/4/05	" " - Dose rate mrem/hr
Reviewed By / Date								Ω - Direct Reading
								Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description BLDG 17 UTILITY EXCAVATION OUTSIDE OF C-BAY RMA.

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2224	117651	NaI	192389	11/19/04	MISC

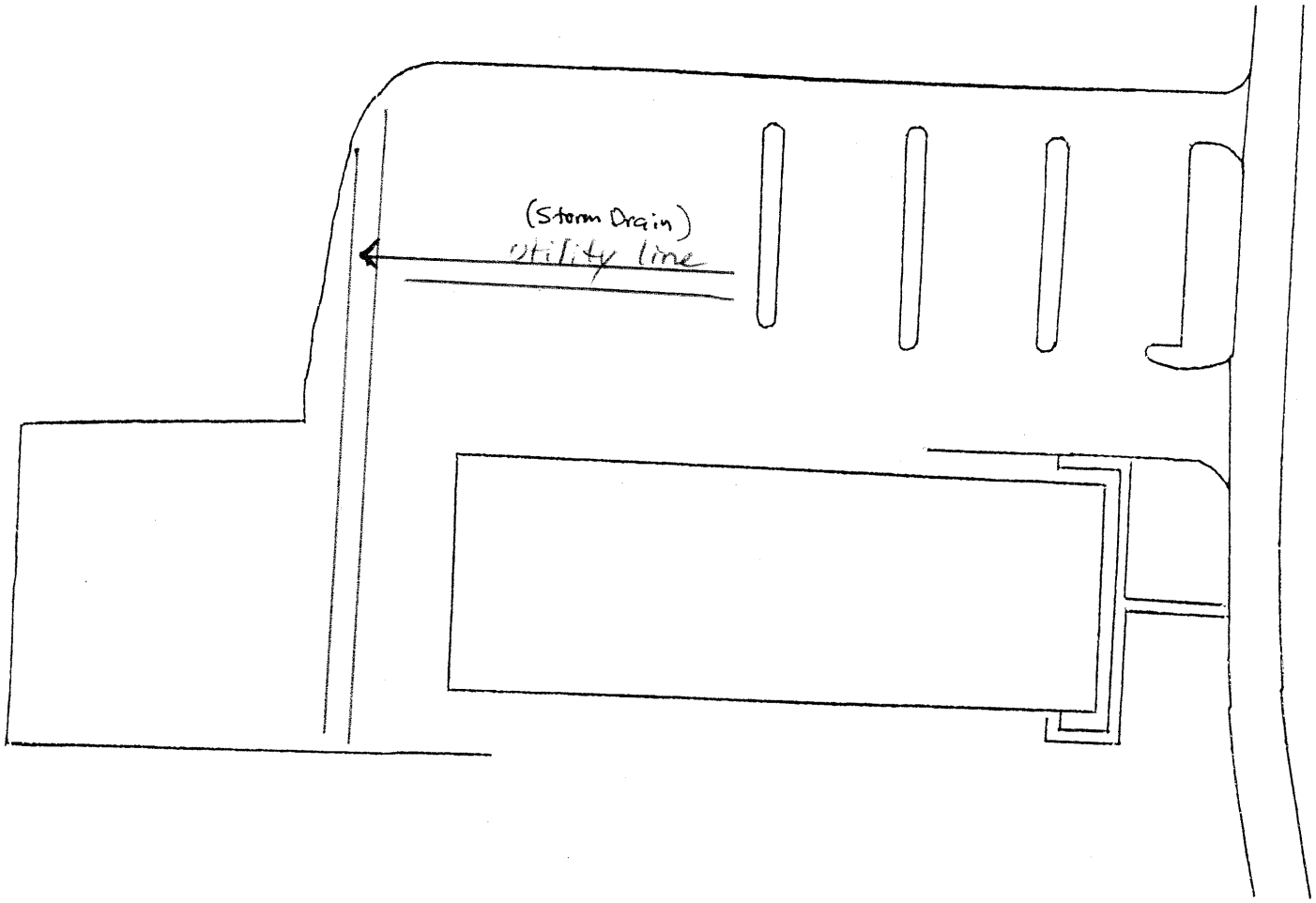
	Sample ID #	Gross CPM	Background CPM	Net CPM
ASPHALT 1	MAC- 0410 - 345	423	303	120
S SANITARY 1	MAC- 0410 - 346	465	303	162
S Sanitary 2	MAC- 0410 - 347	482	303	179
PIPE SLUDGE 3	MAC- N/A	N/A	N/A	HPGE ONLY
MANHOLE SLUDGE 4	MAC- 0410 - 348	N/A	N/A	HPGE ONLY
ASPHALT 2	MAC- 0410 - 349	423	303	120
EAST EXPLOR 1	MAC- 0410 - 350	548	271	277
EXP TOP 1	MAC- 0410 - 351	514	392	122
→ Trench 2	MAC- 0410 - 352	512	392	120
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

PIPE SOIL

Counted By: THOMPKINS Date: 10/26/04

Reviewed By: [signature] Date: 5/7/05

Utility Excavation Survey Map
Building 17



Page 1 of 6 see attached sheets for Radiological Survey Data:

Comments:

Surveyed By: Bill Weston / TA [illegible] Date: 10/11/04

Reviewed By: _____ Date: _____

DEC 14 2004

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 west end of parking lot | RWP # N/A | Page 2 of 6

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	86	26	0	90
2	6	0	27	0	141
3	0	54	28	6	0
4	12	54	29		
5	18	54	30		
6	0	284	31		
7	0	32	32		
8	0	86	33		
9	0	32	34		
10	6	0	35		
11	0	142	36		
12	6	54	37		
13	0	0	38		
14	18	130	39		
15	0	98	40		
16	0	196	41		
17	0	64	42		
18	3	0	43		
19	0	54	44		
20	0	44	45		
21	14	0	46		
22	0	14	47		
23	0	30	48		
24	0	0	49		
25	6	0	50		

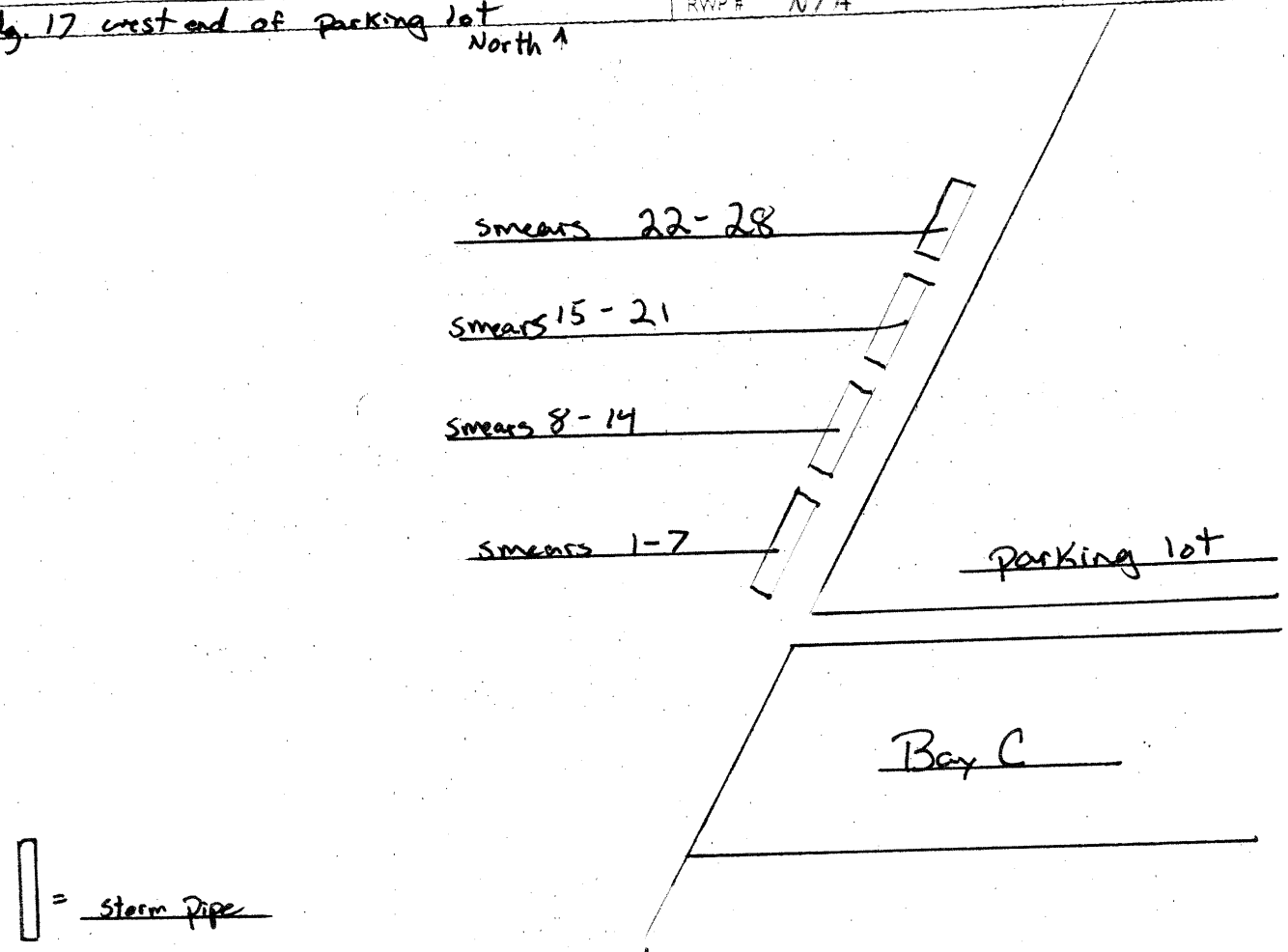
N/A

Comments

Smears 1-28 taken inside & outside of pipe removed from west end of B-17 Parking lot.

Smears 1-19, 3030 #185405

Smears 20- , 3030 #185417



	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
Surveyed By 10/22/04	3030	185405	31.9%	18.3%	1.2	41.6	Aug. 7, 05
Date	3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25, 05
Reviewed By					N/A		
Date							

Key: O - Smear # & Location; " " - Dose rate mrem/hr; ∩ - Direct Reading; Δ - Volumetric Sample

DEC 14 2004

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 west end of parking lot | RWP # N/A | Page 3 of 6

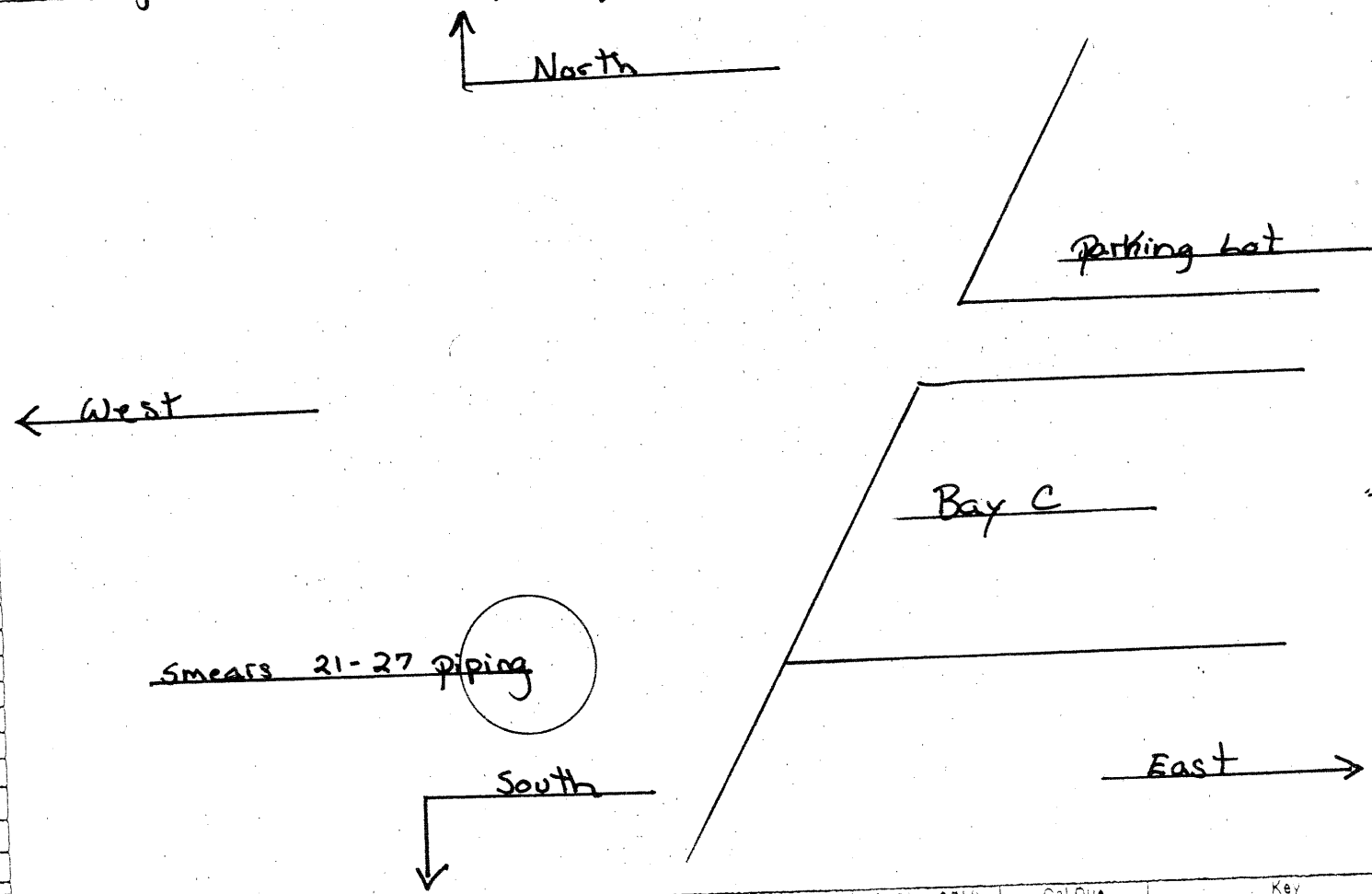
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26	6	20
2			27	0	18
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21	0	86	46		
22	6	0	47		
23	4	54	48		
24	0	42	49		
25	0	0	50		

Comments

Smears 21 - 27 Taken at the West end of Bldg. 17 parking lot outside of Bay C Area on piping that was dug up and piled!



	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
Surveyed By 10/11/04 Date	3030	185405	31.9%	18.3%	1.2	41.6	Aug. 7, 05
Reviewed By Date							

Key: O - Smear # & Location; " " - Dose rate mrem/hr; Ω - Direct Reading; Δ - Volumetric Sample

DEC 14 2004

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 west end of parking lot | RWP # N/A | Page 4 of 6

Smear Results

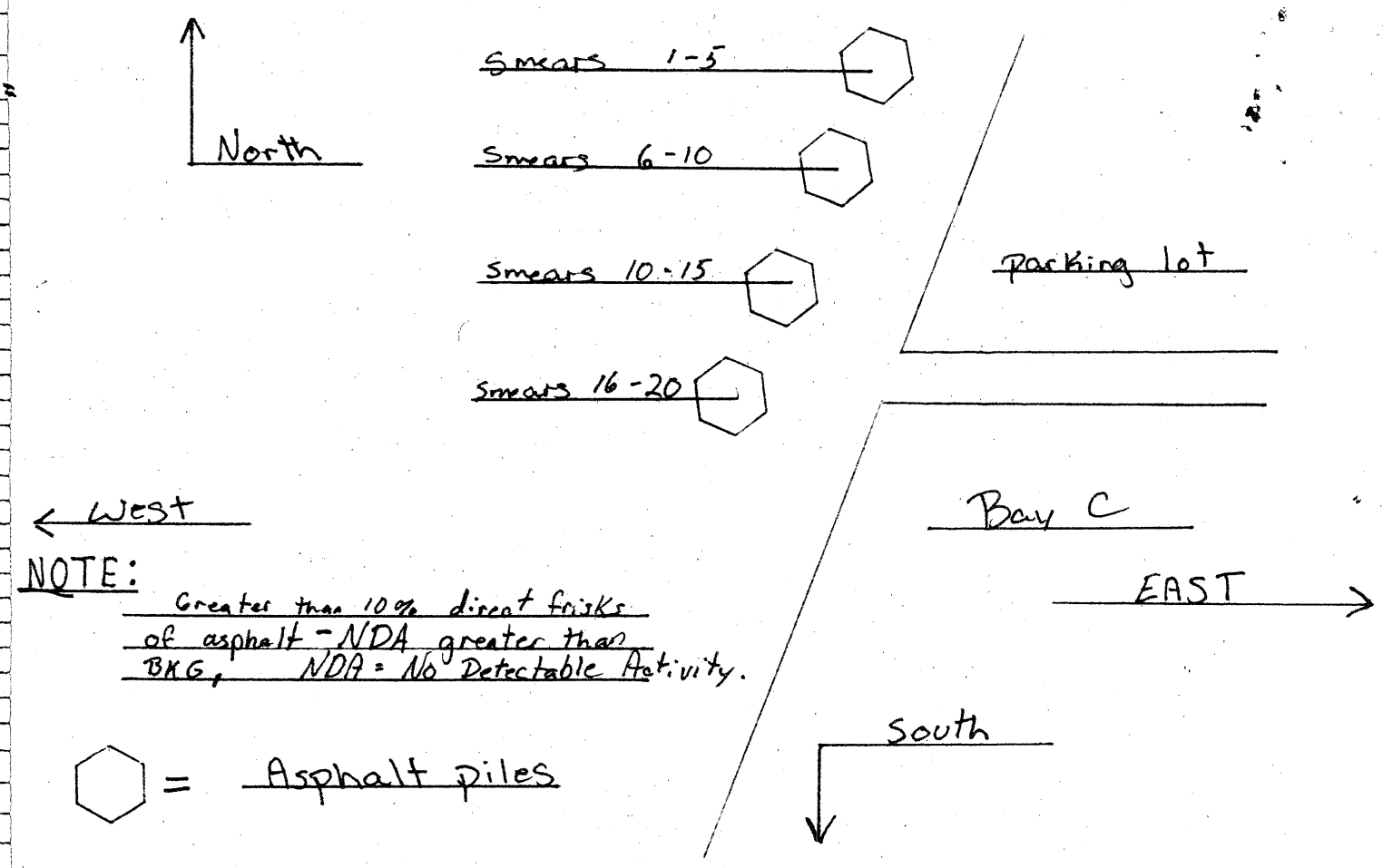
DPM/100 cm²

No.	α	β	No.	α	β
1	0	0	26		
2	2	46	27		
3	0	16	28		
4	4	92	29		
5	6	42	30		
6	0	12	31		
7	0	0	32		
8	0	14	33		
9	0	162	34		
10	4	18	35		
11	0	148	36		
12	2	96	37		
13	0	0	38		
14	0	10	39		
15	0	40	40		
16	4	18	41		
17	0	0	42		
18	6	64	43		
19	0	12	44		
20	0	20	45		
21			46		
22			47		
23			48		
24			49		
25			50		

N/A

Comments

Smears 1-20 taken west end Bldg. 17 parking lot on underside of Asphalt slabs that were flipped!



NOTE: Greater than 10% direct frisks of asphalt - NDA greater than BKG, NDA = No Detectable Activity.

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
Surveyed By 10/11/04 Date	3030	185405	31.9%	18.3%	1.2	41.6	Aug. 7, 05	O - Smear # & Location
Reviewed By Date								" " - Dose rate mrem/hr
								Ω - Direct Reading
								Δ - Volumetric Sample

N/A

DEC 14 2004

RADIOLOGICAL SURVEY MAP

Map # N/A | Location BLDG 17 UTILITY / DRAIN EXCAVATION | RWP # N/A | Page 6 of 6

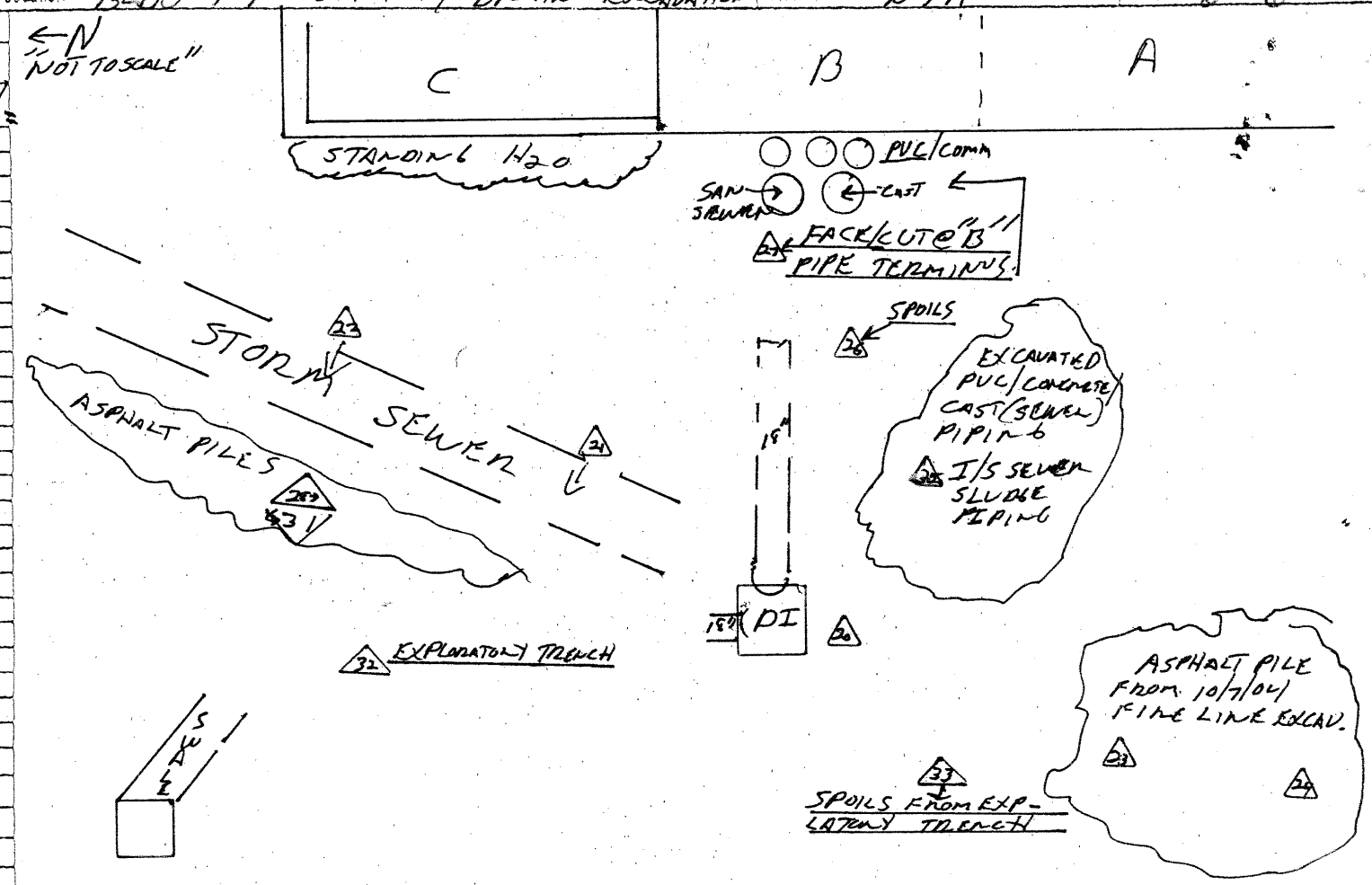
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

LOCATION OF VOLUMETRIC SAMPLINGS. ALL UNCOVERED ITEMS DIRECT FRISKED. NDA > n_β @ 300CPM MAX R_β



Surveyed By	Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
MJT	10/11/04	2221	117651	N/A	N/A	0	350	11/19/05	O - Smear # & Location
									" " - Dose rate mrem/hr
Reviewed By									∩ - Direct Reading
Date									Δ - Volumetric Sample

DEC 14 2004

2X2 Soil Counting

Location / Description EXCAVATION WEST OF BLDG 17 BETWEEN B+C BAYS. REMOVAL OF LOCATED PVC/COMM. CAST SEWER, CONCRETE PIPING. ADDITIONAL EXPLORATORY PITS W/ CONCURRENT SPOIL PILE SAMPLING. ADDITIONAL EVOLUTIONS OF STORM SEWER EXCAVATION (N-S RUN TO PARKING LOT) AND SAMPLING OF ASPHALT PILES GENERATED. MMT 10/12/04

Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	142589	11/19/05	N/A

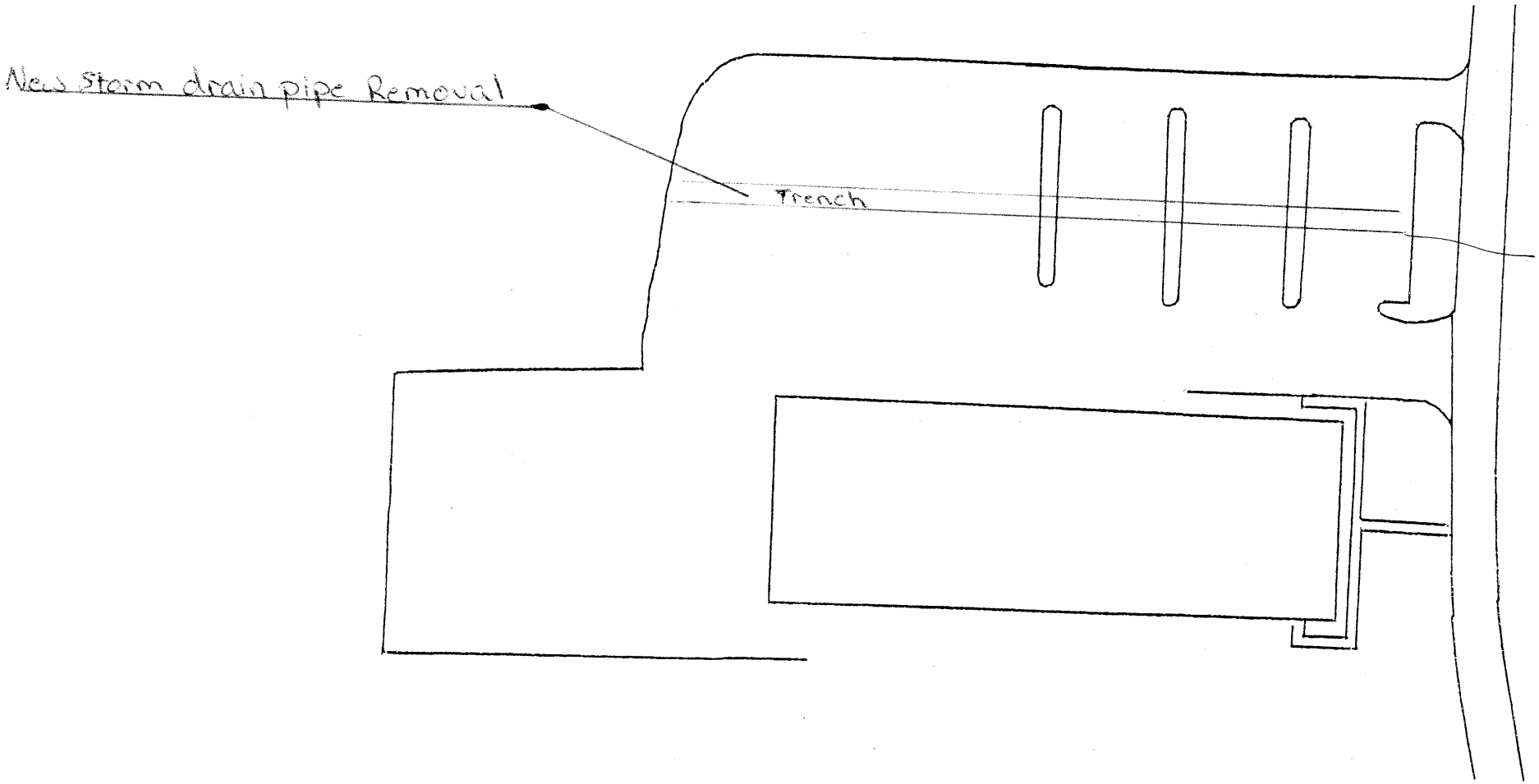
	Sample ID #	Gross CPM	Background CPM	Net CPM
20	MAC- 0410 - 153	465	472	less than BKG
21	MAC- 0410 - 154	560	350	210
22	MAC- 0410 - 155	470	350	120
23	MAC- 0410 - 156	459	256	203
24	MAC- 0410 - 157	560	256	304
~~25~~	~~MAC- 0410-~~	~~638~~	~~371~~	~~267~~ lost
26	MAC- 0410 - 158	624	371	253
27	MAC- 0410 - 159	474	315	159
28	MAC- 0410 - 140	552	311	241 ☆
29	MAC- 0410 - 141	412	311	101 ☆
30	MAC- 0410 - 142	522	311	211 ☆
31	MAC- 0410 - 143	462	311	151 ☆
32	MAC- 0410 - 144	585	336	249 ☆
33	MAC- 0410 - 146	583	269	314 ☆
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: [signature] Date: 10/11/04

Reviewed By: [signature] Date: _____

DEC 14 2004

Utility Excavation Survey Map
Building 17



Page 1 of 6 see attached sheets for Radiological Survey Data:

Comments:

Surveyed By: Bill Weston Date: 10/12/04

Reviewed By: Date: 10/17/04

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 parking lot storm drain removal
Smears of underside of Asphalt

RWP # N/A

Page 2 of 6

Smear Results

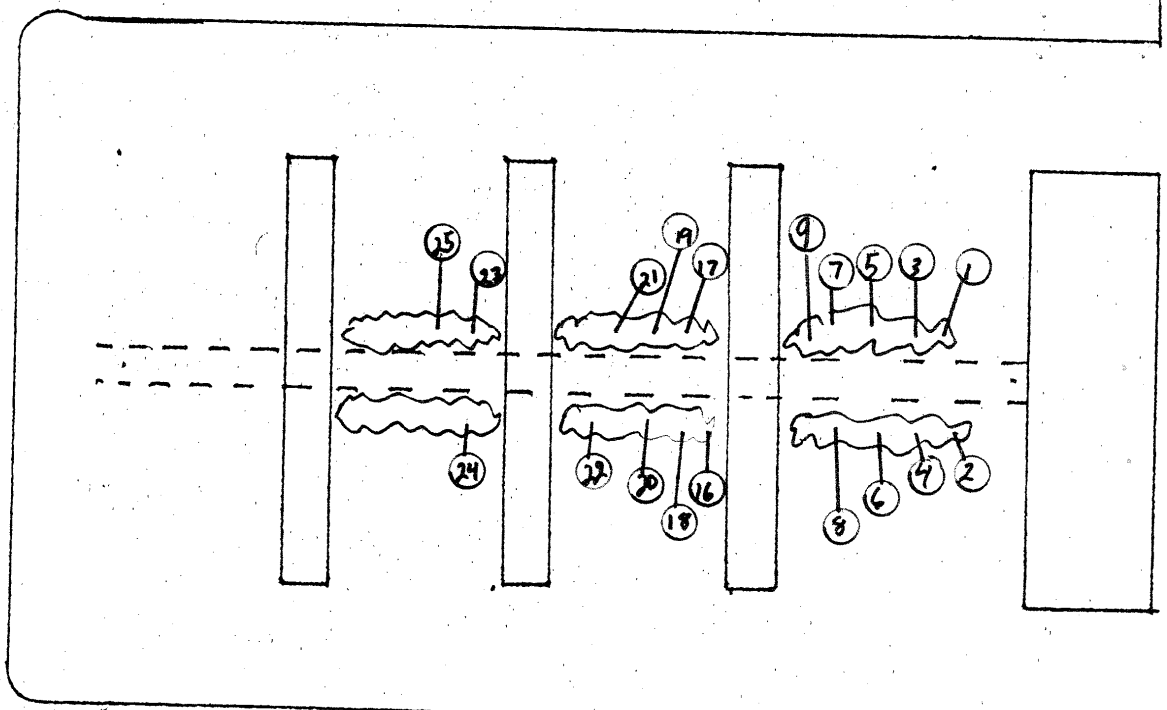
DPM/100 cm²

No.	α	β	No.	α	β
1	0	0	26		
2	0	0	27		
3	0	0	28		
4	0	0	29		
5	0	60	30		
6	0	0	31		
7	0	120	32		
8	0	90	33		
9	0	0	34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16	0	60	41		
17	0	0	42		
18	0	0	43		
19	0	136	44		
20	0	44	45		
21	0	0	46		
22	0	30	47		
23	0	166	48		
24	0	30	49		
25	0	0	50		

N/A

Comments

Smears taken on the under side of the asphalt.



= Asphalt

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
10/12/04 Ben West	3030	185417	32.6%	13.2%	1.4	32.6	Aug-25,05	O - Smear # & Location
								" " - Dose rate mrem/hr
Reviewed By / Date 10/13/04			N					□ - Direct Reading
								Δ - Volumetric Sample

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 parking lot storm drain Removal | RWP # N/A | Page 3 of 6

Smears Outside & inside of storm drain Removed

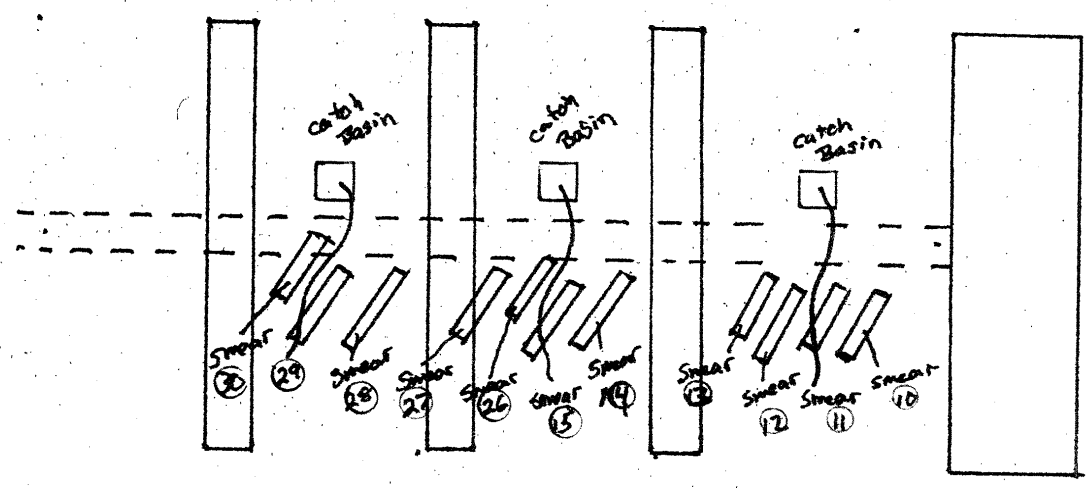
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26	0	0
2			27	0	44
3			28	0	0
4			29	0	150
5			30	0	0
6			31		
7			32		
8			33		
9			34		
10	0	44	35		
11	6	14	36		
12	6	0	37		
13	14	8	38		
14	0	44	39		
15	0	0	40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Smears taken on outside & inside of catch Basins & storm drain pipes!



Surveyed By Ron Weeks 10/12/04
Date

Reviewed By
Date 10/17/04

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25 04

Key
O - Smear # & Location
" " - Dose rate mrem/hr
∩ - Direct Reading
Δ - Volumetric Sample

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 Parking lot storm drain Removal

RWP # N/A

Page 4 of 6

Volumetric Samples

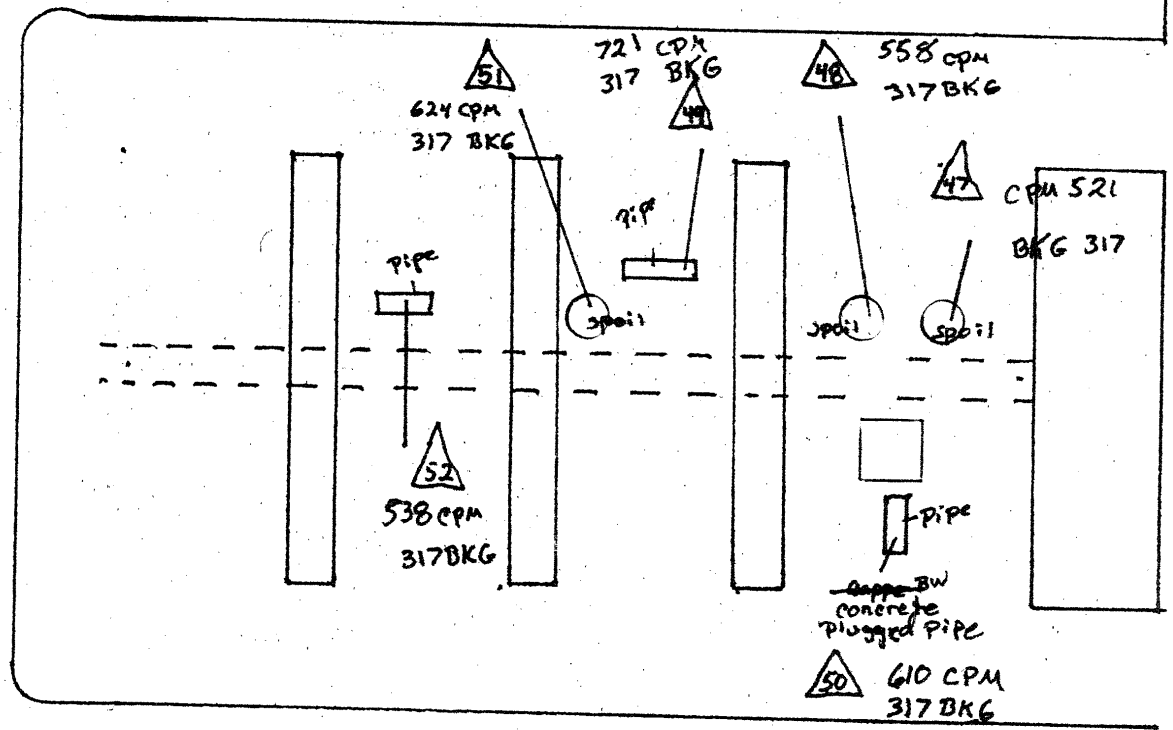
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			46		
24			49		
26			50		

Comments

Volumetric Samples taken from inside drain pipes and soil samples from surrounding areas of pipe! "spoil piles"



Surveyed By Bowles 10/12/04

Date

Reviewed By

Date 10/19/04

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25, 04
2221	117651	N/A	N/A	0	317	01/19/05
				A		
			N			

Key

O - Smear # & Location

" " - Dose rate mrem/hr

N - Direct Reading

A - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 storm drain Removal
Frisk Results

RWP # N/A

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Greater than 10% direct Frisks of ~~Asphalt~~ NDA greater than Background -

BW OR BW

NDA - NO Detectable Activity

Note

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
Surveyed By / Date 10/12/04 (Pam WLB)	2224	183077	14.5%	19.3%	0	350	June 29, 05
Reviewed By / Date 10/12/04							

Key
O - Smear # & Location
" " - Dose rate mrem/hr
□ - Direct Reading
Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description Bldg. 17 storm drain Removal - volumetrics taken from soil, asphalt, and material (soil) Removed from inside pipe.

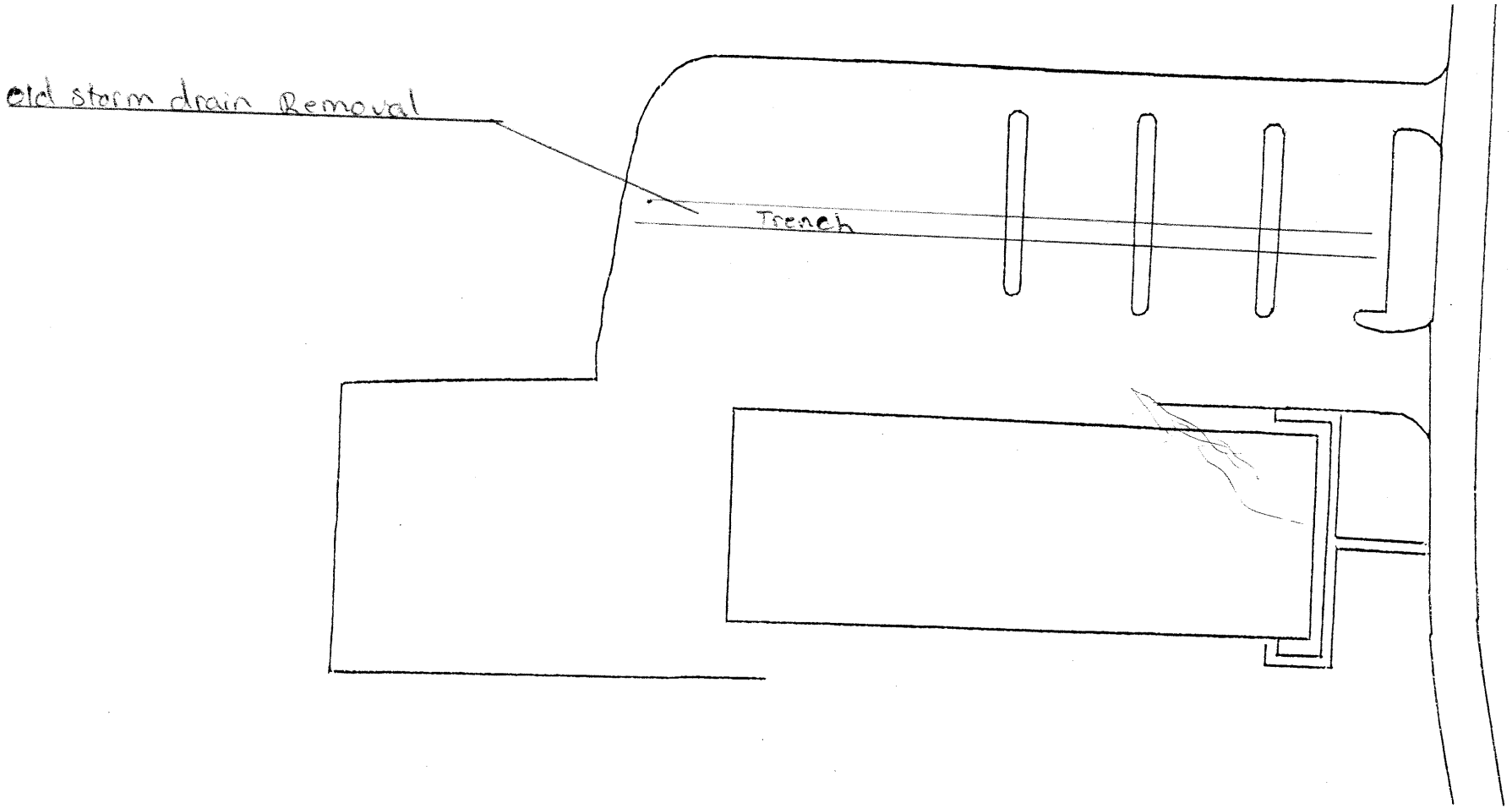
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	192 589	11/19/05	~~A~~ BN 317

	Sample ID #	Gross CPM	Background CPM	Net CPM
47	MAC- 0410 - 174	521	317	204
48	MAC- 0410 - 175	558	317	241
49	MAC- 0410 - 176	721	317	404
50	MAC- 0410 - 177	610	317	293
51	MAC- 0410 - 178	624	317	307
52	MAC- 0410 - 179	538	317	221
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: Bill Weston Date: 10/12/04

Reviewed By: [illegible] Date: 10/13/04

Utility Excavation Survey Map
Building 17



Page 1 of 5 see attached sheets for Radiological Survey Data:

Comments:

Surveyed By: Bill Weston / Thankings Date: 10/14/04

Reviewed By: [illegible] Date: 10/17/04

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 Storm drain Removal "old pipe" — ~~Smear Results & locations~~

RWP # N/A

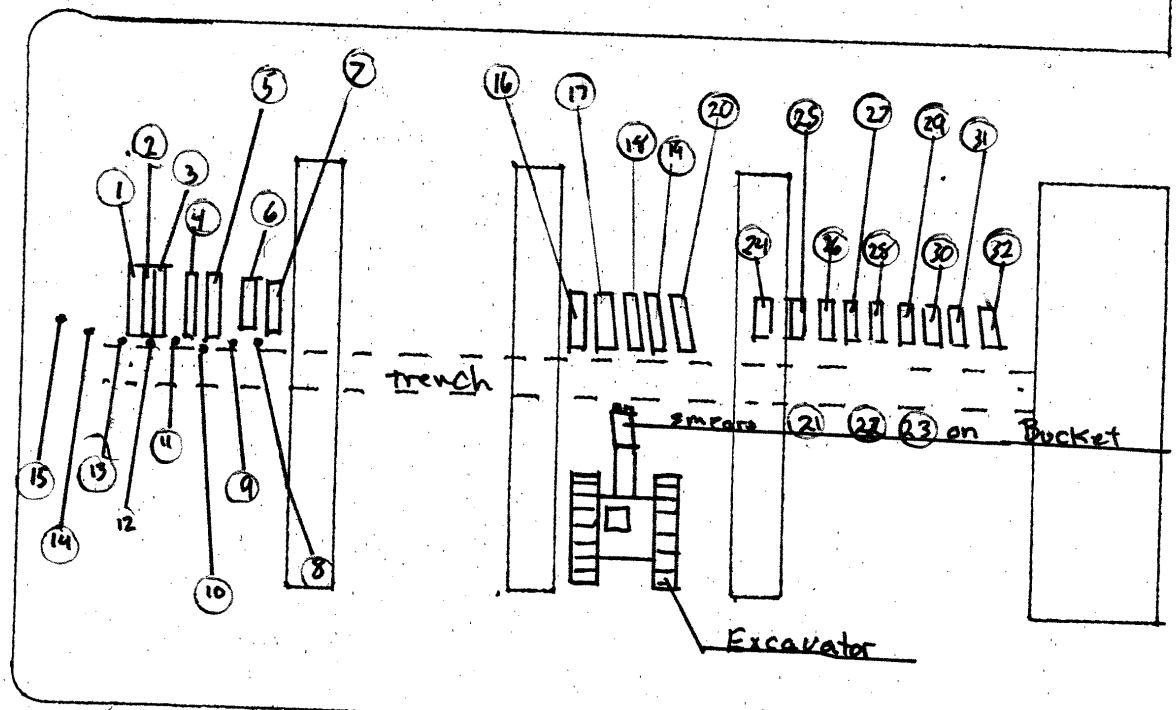
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	120	26	0	0
2	0	0	27	0	0
3	0	90	28	0	90
4	0	80	29	6	212
5	42	74	30	0	0
6	0	0	31	6	14
7	0	14	32	0	74
8	0	0	33		
9	0	0	34		
10	0	0	35		
11	0	106	36		
12	0	90	37		
13	0	0	38		
14	0	0	39		
15	0	0	40		
16	20	14	41		
17	20	74	42		
18	20	150	43		
19	34	392	44		
20	0	30	45		
21	20	150	46		
22	0	0	47		
23	0	90	48		
24	0	44	49		
25	14	74	50		

Comments

Smears taken outside and inside of storm drain pipes, also on ~~on~~ BW asphalt top "walking Area" and smears taken outside & inside excavator bucket.



▯ = pipe

• = smear on Asphalt

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
MT 10/14/04	3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25, 05	O - Smear # & Location
Reviewed By / Date: 10/17/04								" " - Dose rate mrem/hr
								⊓ - Direct Reading
								Δ - Volumetric Sample

RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page
N/A	Bldg. 17 storm drain Removal "old pipe" Volumetric Samples	N/A	3 of 5

Smear Results

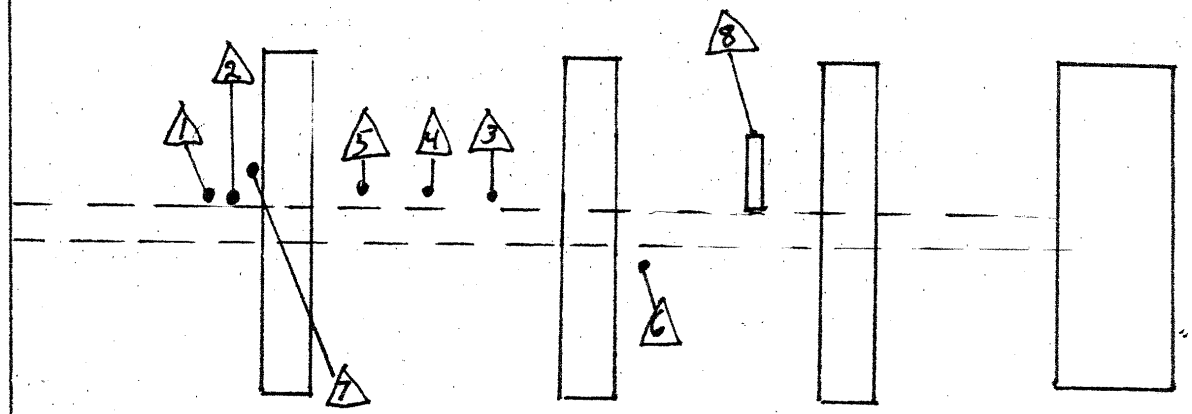
DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

N/A

Comments

#7 volumetric is soil removed from ~~concrete~~ BW concrete exterior of catch Basin



▯ = pipe

• = soil "spoil" Sample

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By: 10/14/04 Date: BW [illegible]	2221	117651	N/A	N/A	0	350	1/11/05	O - Smear # & Location
								" " - Dose rate mrem/hr
Reviewed By: [illegible] Date: 10/8/07								∩ - Direct Reading
								Δ - Volumetric Sample

N/A

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 storm drain Removal "old pipe" Frisk Results | RWP # N/A | Page 4 of

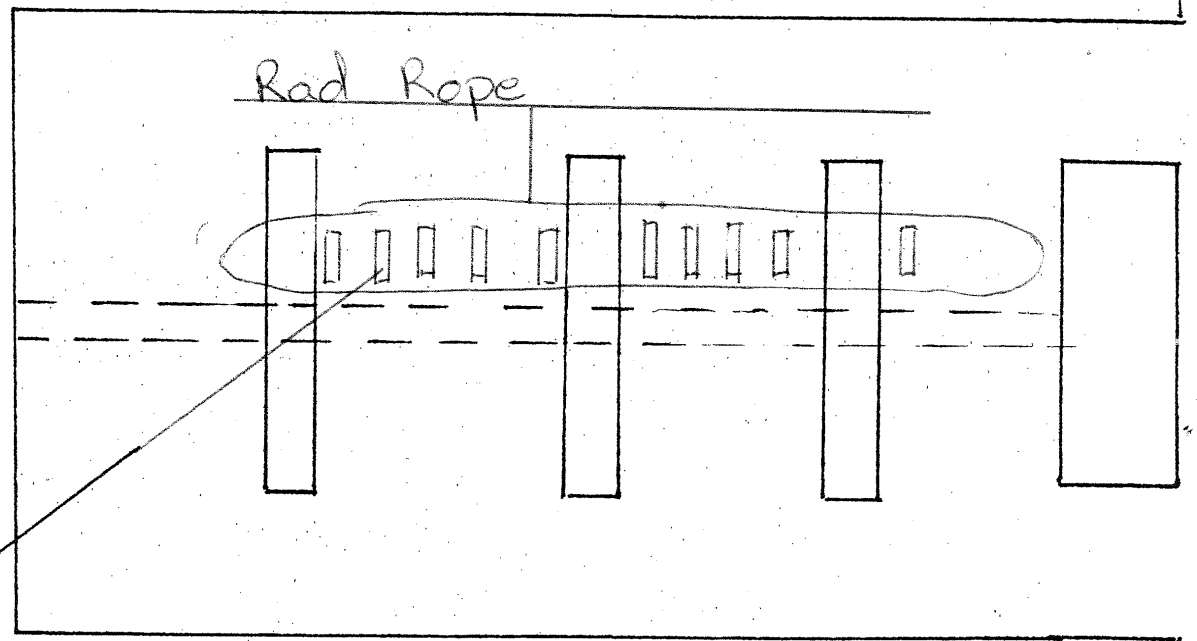
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Old storm drain Removed - and Staged in Rad Area, Frisk Results Above Background - 1500 Net CPM - Exterior of pipe clean interior Hot.



Surveyed By 10/14/04
Date

Reviewed By
Date 10/18/04

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
2224	183077	14.5%	19.3%	0	350	Jan. 29, 05

Key
- O - Smear # & Location
- " " - Dose rate mrem/hr
- ⊓ - Direct Reading
- Δ - Volumetric Sample

2X2 Soil Counting

Location / Description: Volumetrics taken from spoil piles, and also from the inside and outside of drain "storm drain" piping.

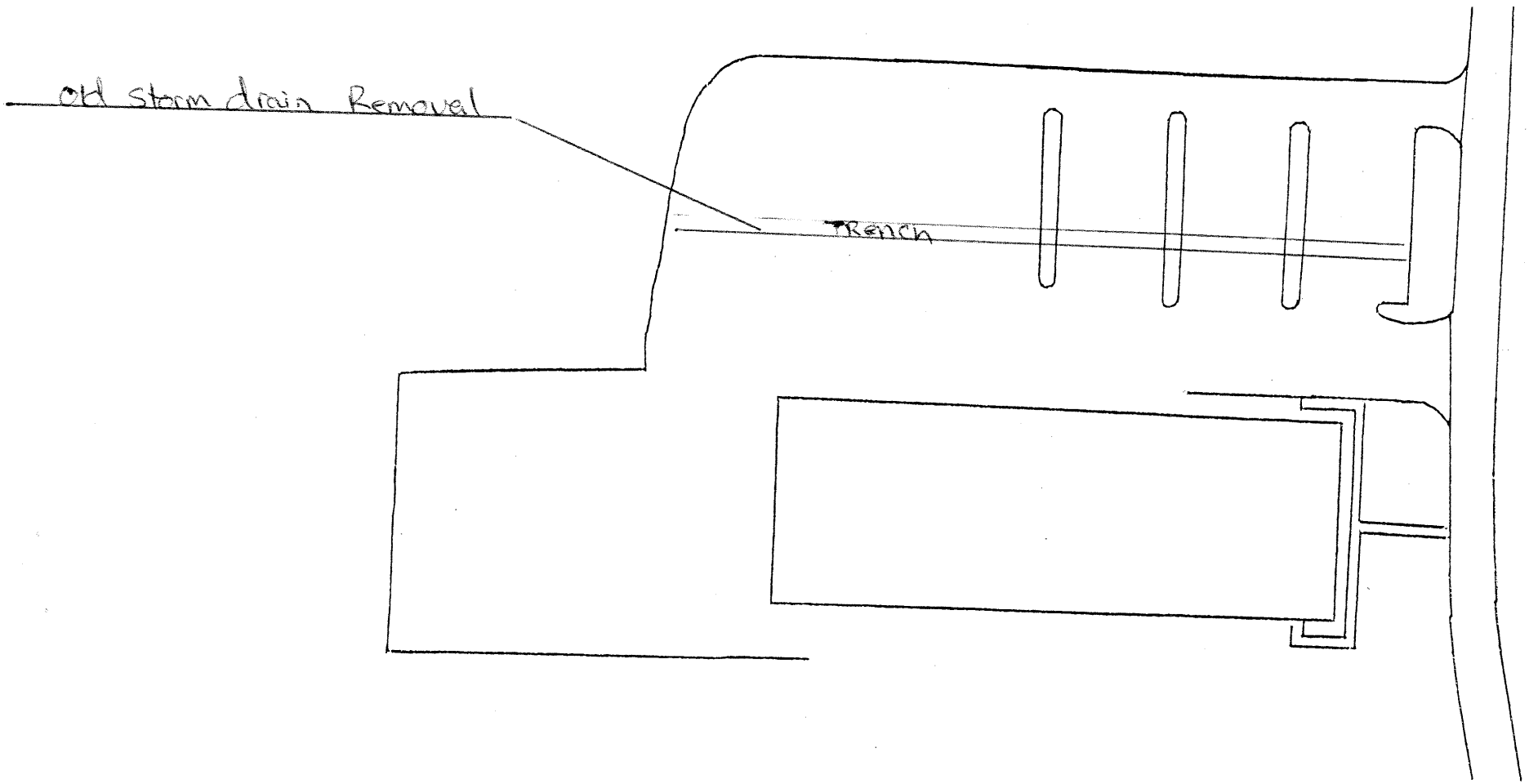
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	192589	11/19/05	see below

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC- 0410-222	575	342	233
2	MAC- 0410-223	581	342	239
3	MAC- 0410-224	508	342	166
4	MAC- 0410-225	549	386	163
5	MAC- 0410-226	706	386	320 ✓ spec
6	MAC- 0410-227	528	334	194
7	MAC- 0410-228	570	334	236
8	MAC- 0410-229	526	346	180
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: Bill Weston Date: 10/14/04

Reviewed By: P Collazy Date: 10/17/04

Utility Excavation Survey Map
Building 17



Page 1 of 5 see attached sheets for Radiological Survey Data:

Comments:

Surveyed By: Bill Weber Anthony Hudson Date: 10/13/04

Reviewed By: [illegible] Date: 10/17/04

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 parking lot storm drain Removal | RWP # N/A | Page 2 of

Smears of Asphalt, Concrete, & Dirt inside pipes

Smear Results

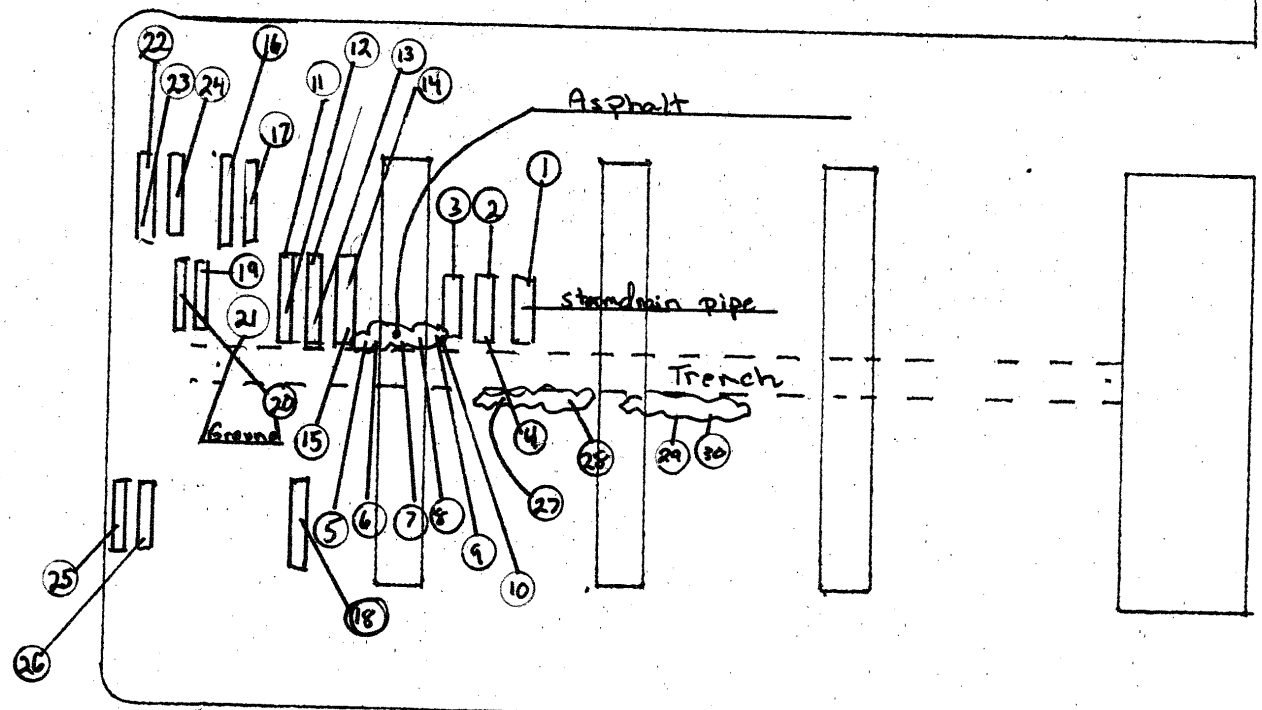
DPM/100 cm²

No.	α	β	No.	α	β
1	0	10	26	6	0
2	0	42	27	6	0
3	6	142	28	0	0
4	0	32	29	0	40
5	0	0	30	0	20
6	0	0	31		
7	0	60	32		
8	0	0	33		
9	6	0	34		
10	0	0	35		
11	6	30	36		
12	0	0	37		
13	0	14	38		
14	0	0	39		
15	0	0	40		
16	0	0	41		
17	0	14	42		
18	0	0	43		
19	0	44	44		
20	0	60	45		
21	0	136	46		
22	0	0	47		
23	4	0	48		
24	0	74	49		
25	6	0	50		

Comments

Smears taken inside and outside of drain pipes also on concrete.

Smear #21 taken on ground. "Top of asphalt".



= Pipe = Asphalt

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
Ben Weeks 10/13/04	3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25, 05	O - Smear # & Location
Reviewed By / Date 10/17/04								" " - Dose rate mrem/hr
								D - Direct Reading
								A - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 storm drain Removal

RWP # N/A

Page 3 of

Volumetric samples

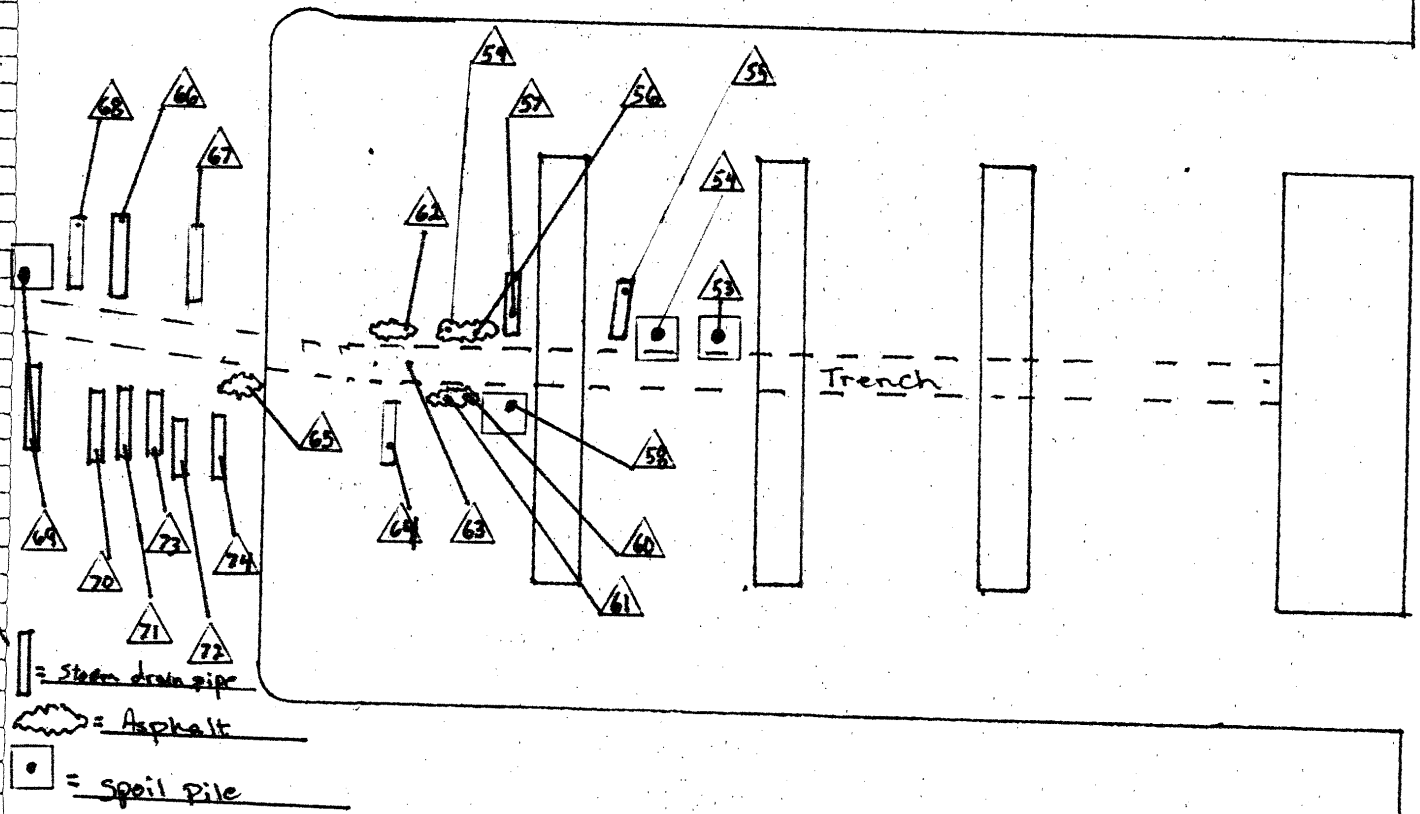
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Samples taken of asphalt, Inside storm drains and soil surrounding storm drain piping.



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
10/25/05	2221	117651	N/A	N/A	0	380	11/19/05	O - Smear # & Location
Reviewed By / Date 10/27/05								" " - Dose rate mrem/hr
								∩ - Direct Reading
								Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A

Location Bldg. 17 storm drain pipe Removal

RWP # N/A

Page 4 of

Smear Results

DPM/100 cm²

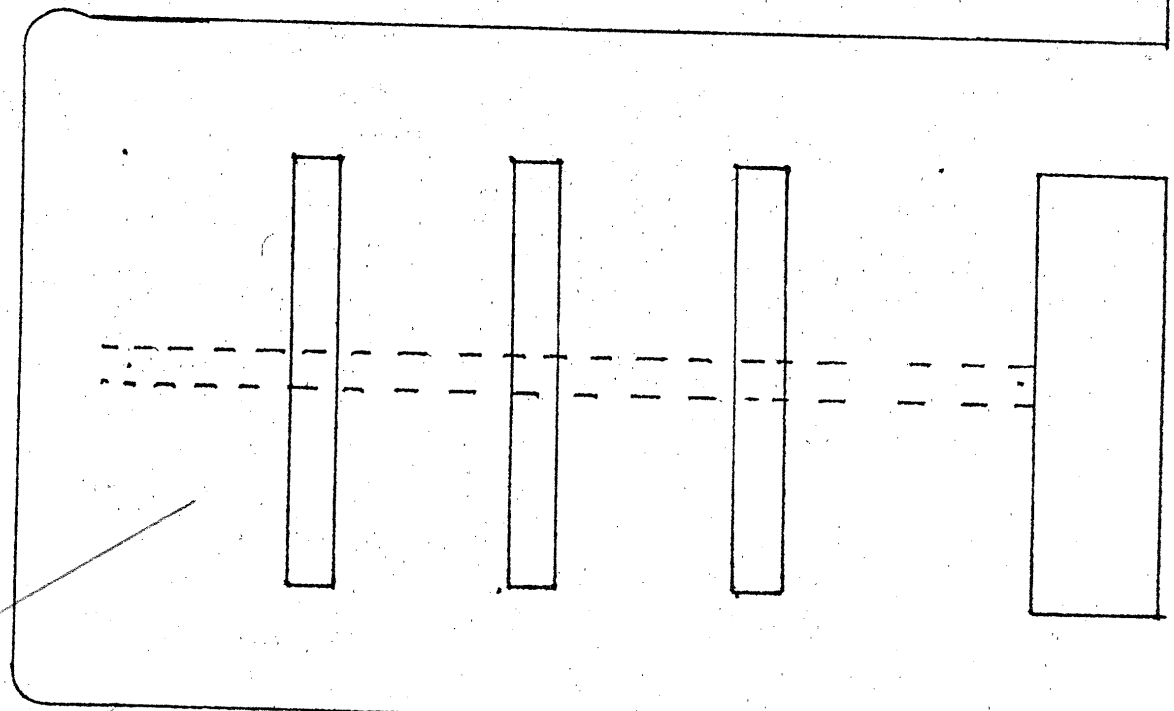
No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Greater than 10% direct frisks of Asphalt - NDA greater than Background -

NDA - No Detectable Activity

frisk Results



Surveyed By 10/13/04 Date

Reviewed By Date 7/12/04

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due
2224	183077	14.5%	19.3%	0	350	June 29, 05

Key

O - Smear # & Location

" " - Dose rate mrem/hr

□ - Direct Reading

Δ - Volumetric Sample

2X2 Soil Counting

Location / Description volumetrics taken Bldg. 17 Parking lot from, under asphalt, spoil piles, and from the inside of the pipes.

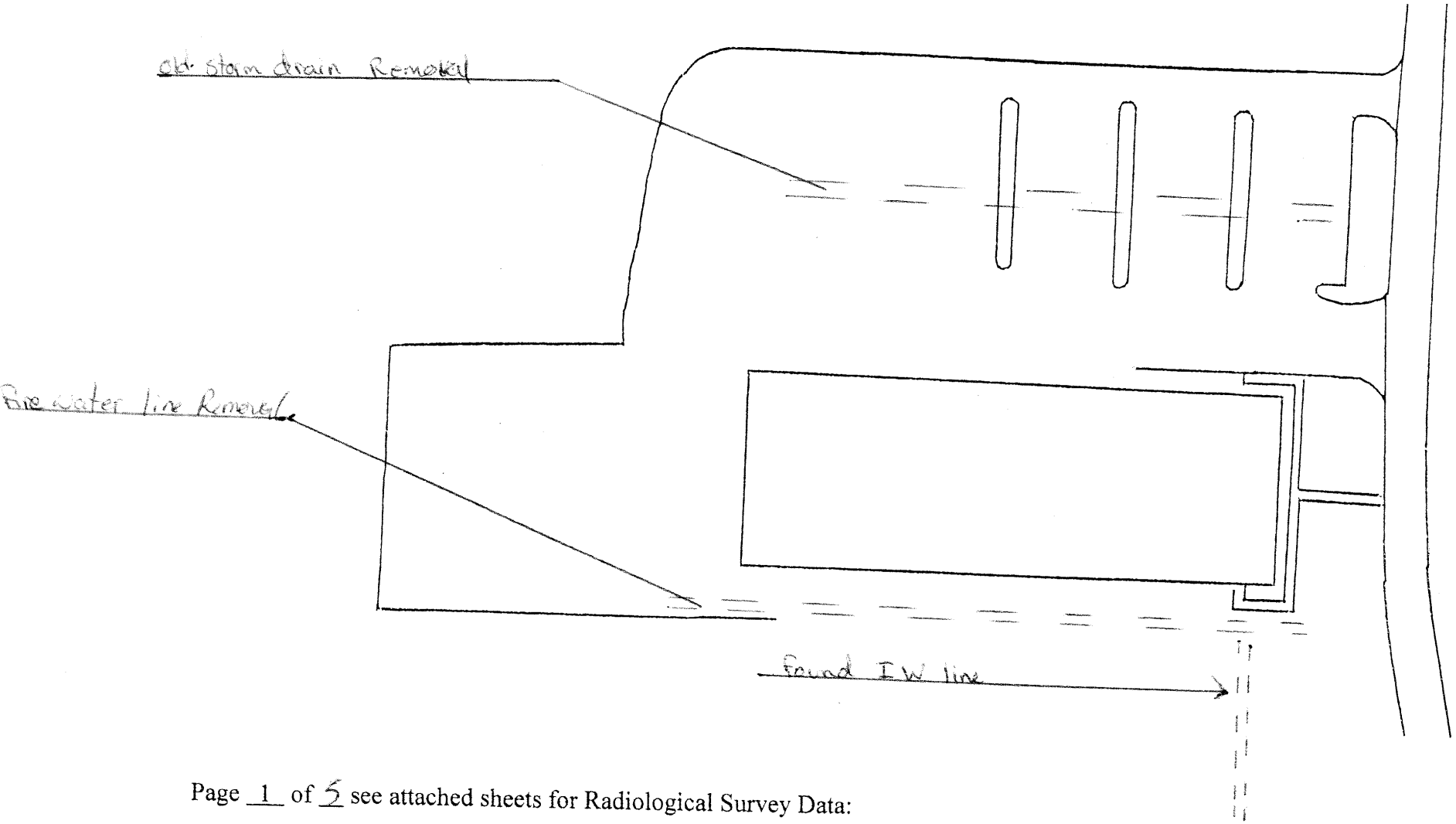
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	192589	11/19/05	See below

	Sample ID #	Gross CPM	Background CPM	Net CPM	
53	MAC- 0410 - 181	598	297	301	
54	MAC- 0410 - 182	492	297	195	
55	MAC- 0410 - 183	608	297	311 *	Rec
56	MAC- 0410 - 184	497	297	200	
57	MAC- 0410 - 188	509	297	212	
58	MAC- 0410 - 207	530	368	162	
59	MAC- 0410 - 180	464	368	96	
60	MAC- 0410 - 185	493	368	125	
61	MAC- 0410 - 186	549	368	181	
62	MAC- 0410 - 187	503	368	135 *	Rec
63	MAC- 0410 - 210	546	350	196	
64	MAC- 0410 - 209	452	350	102	
65	MAC- 0410 - 208	577	350	227	
66	MAC- 0410 - 211	480	374	106	
67	MAC- 0410 - 213	503	379	124	
68	MAC- 0410 - 214	521	379	142	
69	MAC- 0410 - 216	499	379	120	
70	MAC- 0410 - 215	677	379	298	
71	MAC- 0410 - 212	619	379	240	
72	MAC- 0410 - 219	1044	405	639	
73	MAC- 0410 - 220	572	405	167	
74	MAC- 0410 - 221	521	405	116	

Counted By: Bill Weston Date: 10/13/04

Reviewed By: P Colburn Date: 10/17/04

Utility Excavation Survey Map
Building 17



Page 1 of 5 see attached sheets for Radiological Survey Data:

Comments:

Surveyed By: B. Weston / [illegible] Date: 10/15/04

Reviewed By: _____ Date: _____

FEB 07 2005

RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page
N/A	Bldg. 17 / old pipe "storm drain" & fire suppression line	N/A	2 of 5

Smear Results

DPM/100 cm²

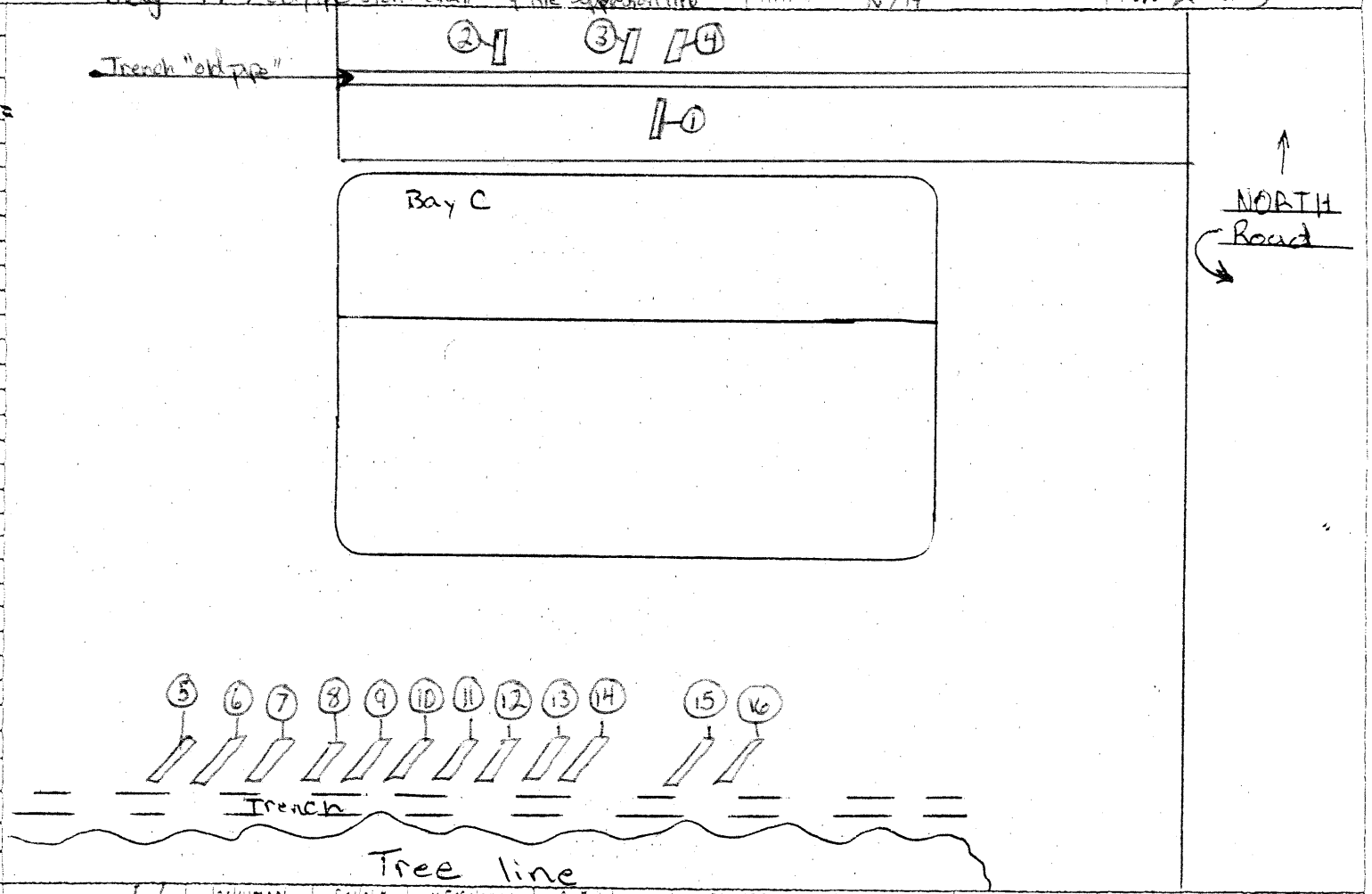
No.	α	β	No.	α	β
1	0	0	26		
2	0	0	27		
3	0	0	28		
4	14	90	29		
5	0	0	30		
6	0	0	31		
7	20	90	32		
8	0	44	33		
9	0	0	34		
10	0	60	35		
11	0	0	36		
12	0	60	37		
13	0	150	38		
14	0	74	39		
15	0	0	40		
16	0	160	41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

N/A

Comments

Smears taken inside and outside of old storm drain ①-④,

Smears ⑤-⑯ taken inside & outside of fire line "suppression line".



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
10/18/04	3030	185417	32.6%	13.2%	1.4	32.6	Aug. 25, 05	O - Smear # & Location
Reviewed By / Date								" " - Dose rate mrem/hr
								⊓ - Direct Reading
								△ - Volumetric Sample

N/A

FEB 07 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

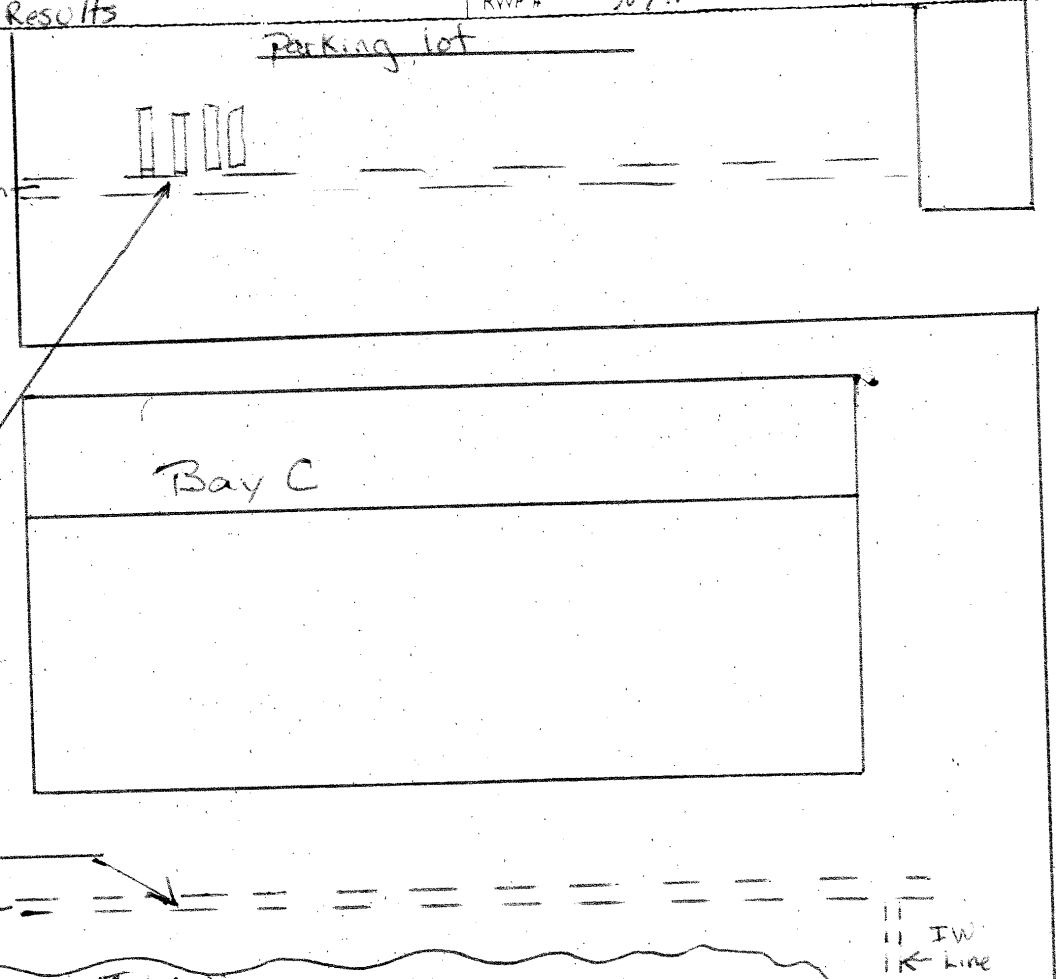
RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 Frisk Results | RWP # N/A | Page 3 of 5

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		



Comments

Frisk Results on old storm drain piping above background

* 1500 Net Cpm

* Note Disposal as RDD waste

Fire water line Piping Removed ~ all Frisk Results NDA.

Greater than 10% direct Frisks NDA

-NDA- No Detectable Activity

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due
10/18/04	2224	183007	14.5%	19.38	0	550	Jan. 29, 05
Reviewed By / Date							

Key

O - Smear # & Location

" " - Dose rate mrem/hr

Ω - Direct Reading

△ - Volumetric Sample

FEB 07 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

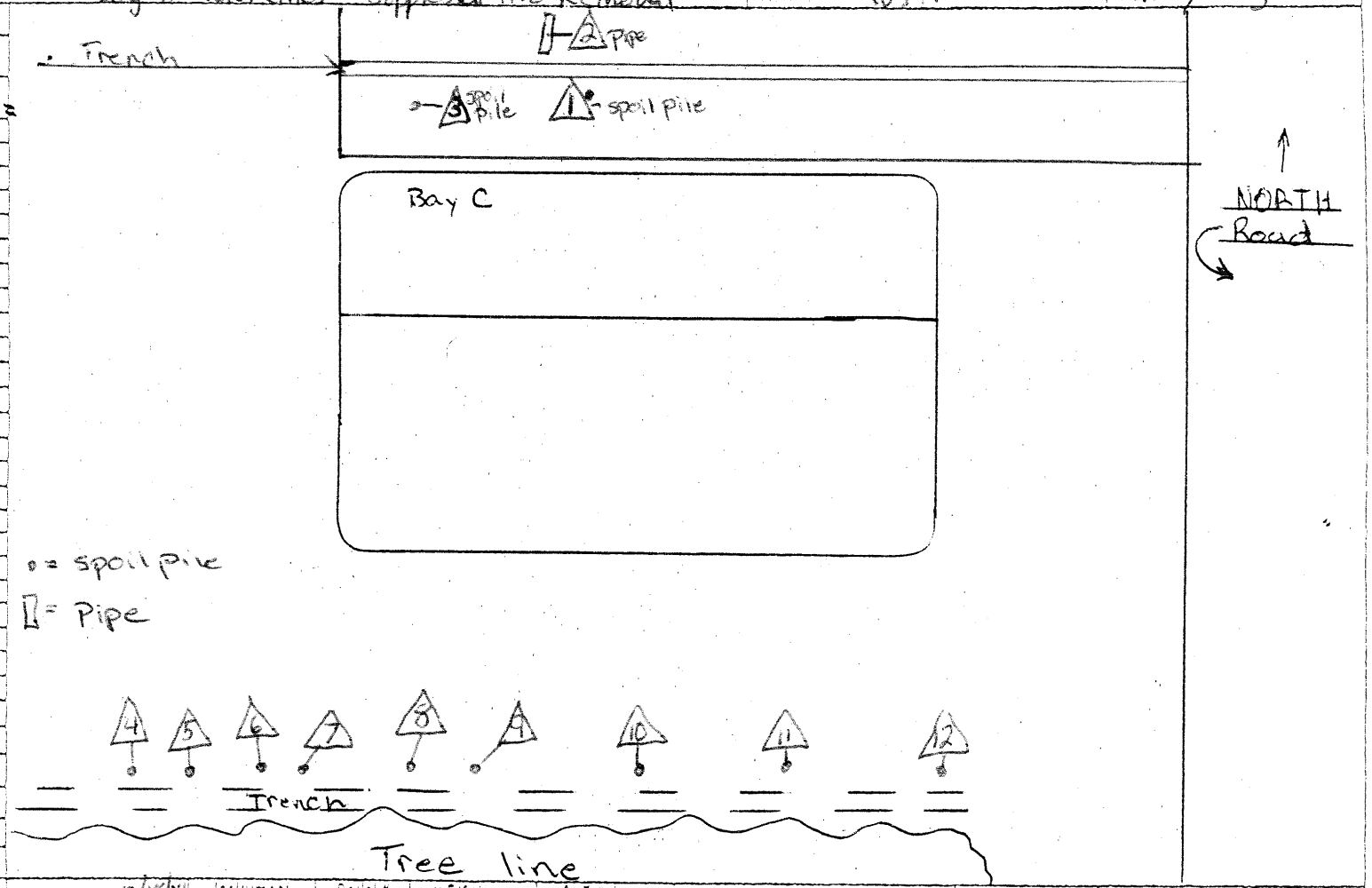
Map #	Location	RWP #	Page
N/A	Bldg: 17 Volumetrics "Suppression line Removal"	N/A	4 of 5

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
10/15/04	2221	117651	N/A	N/A	0	See 2x2 sheet	11/19/05	O - Smear # & Location
Reviewed By / Date								⊥ - Dose rate mrem/hr
								⊓ - Direct Reading
								Δ - Volumetric Sample

FEB 07 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description volumetrics taken from "1-3"- old storm drain in Bldg. 17 parking lot, and 4-12 taken from south of Bldg 17 area Fire suppression line Removal.

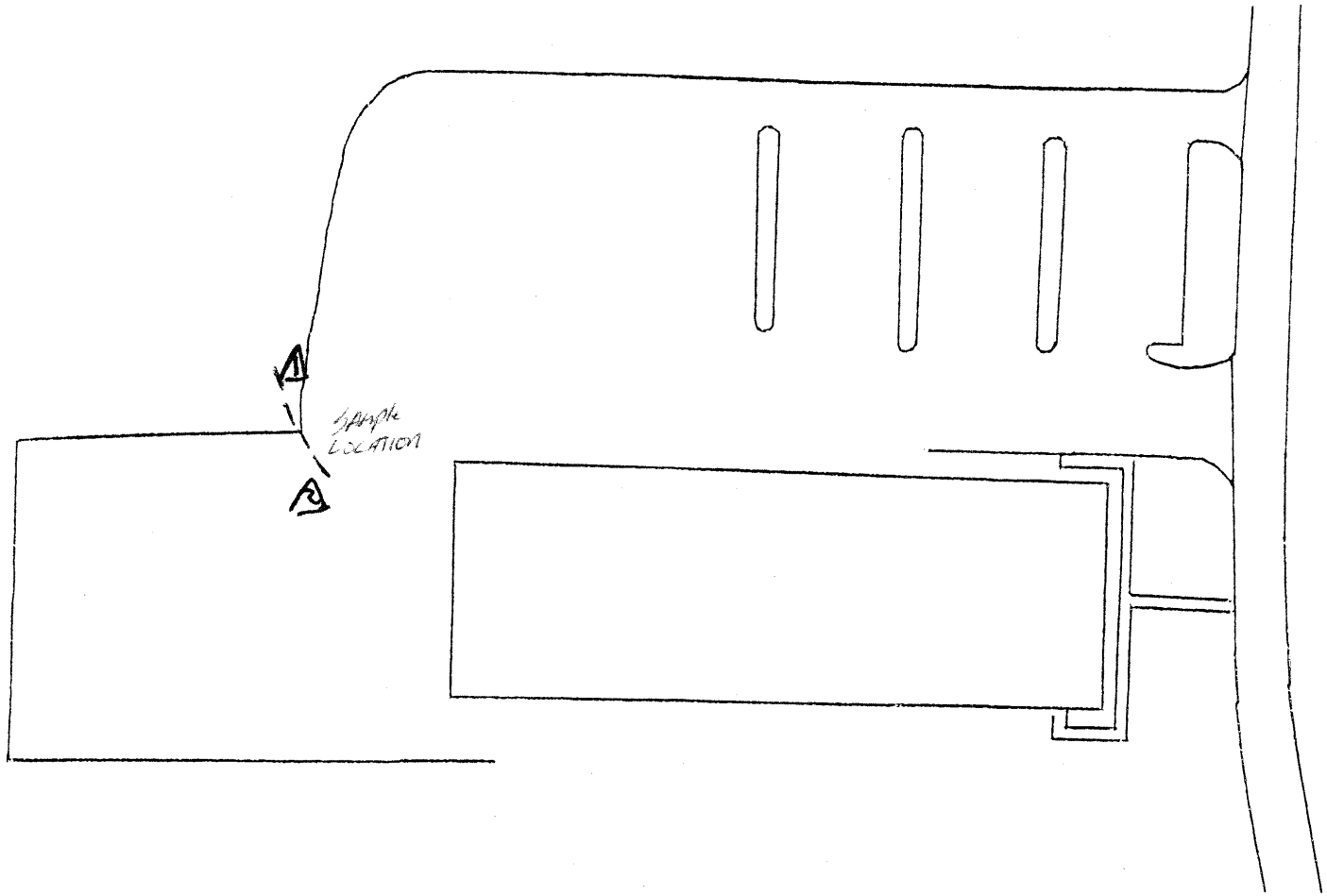
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	192589	11/19/05	see below

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC- 0410-235	523	266	257
2	MAC- 0410-236	675	266	409
3	MAC- 0410-237	463	336	127
4	MAC- 0410-238	625	372	253
5	MAC- 0410-239	572	372	200
6	MAC- 0410-240	489	348	141
7	MAC- 0410-241	564	348	216
8	MAC- 0410-242	567	348	219
9	MAC- 0410-243	514	348	166
10	MAC- 0410-244	529	348	181
11	MAC- 0410-245	476	348	128
12	MAC- 0410-246	570	348	222
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: Bill Weston Date: 10/18/04

Reviewed By: FEB 07 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: STORM DRAIN PIPE UNEARTHED W/ ATTACHED SURVEY Log # 1104-002

Surveyed By: Ron Conn D. Durham Date: 11/8/04

Reviewed By: _____ Date: _____

APR 18 2005

RADIOLOGICAL SURVEY MAP

Map #	Location	RWP #	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

N/A

- Direct frisk of underground storm drain & trench ~~pipe~~ DF = NDA

~~Sand~~ 11/8/04

- Spoils samples taken one every 30 ft. Two samples

1 - MAC-0411-196

2 - MAC-0411-197

Note: NDA = No Detectable Activity
DF = Direct Frisk
Log# 1104-002

Survey # 1104-02

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By R. Gomez Date 11/8/04 D. Dunham	L/2224	183077	Th230 14.5	C/36 19.3	3	270	29 JAN 05	O - Smear # & Location
	L/2221	117651	←	N/A		→	1-14-05	" " - Dose rate mrem/hr
Reviewed By Date APR 18 2005								Ω - Direct Reading
								Δ - Volumetric Sample

2X2 Soil Counting

Location / Description
B-17 WEST
STORM DRAIN REMOVAL
SPOIL SAMPLE
Log # 1104-002

Instrument	Serial #	Probe	Serial #	Cal Due	Background
L/2221	117651	44-10	192589	1-14-05	370

Sample ID #	Gross CPM	Background CPM	Net CPM
MAC-0411-196	640	370	270
MAC-0411-197	555	370	185
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			

N/A

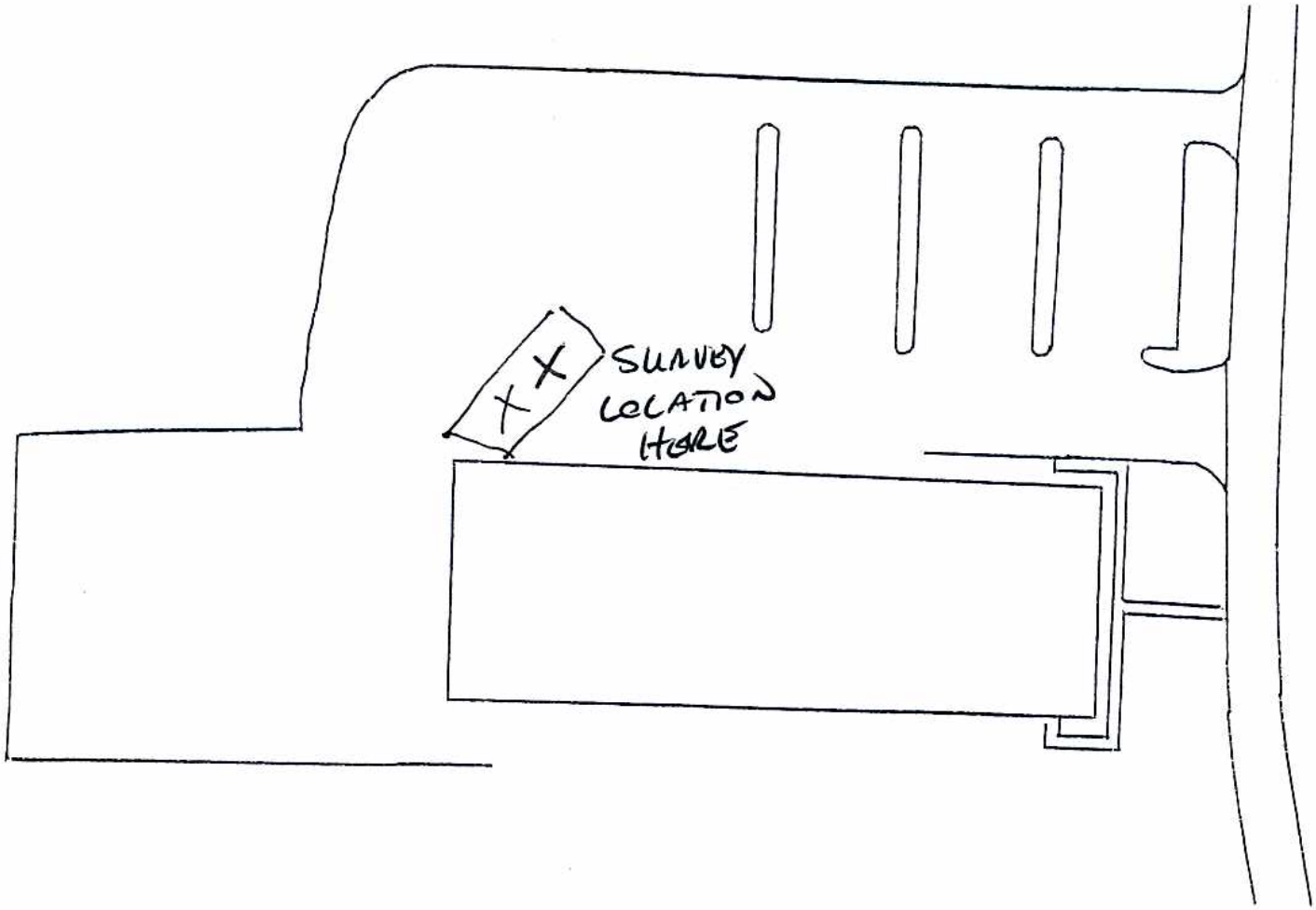
Counted By: [signature] Date: 11/8/04

Reviewed By: [signature] Date:

APR 18 2005

Survey # 1104-02

Utility Excavation Survey Map
Building 17



Page 1 of 3 see attached sheets for Radiological Survey Data:

Comments: B-17 PVC STORM DRAIN REMOVAL OLD

Surveyed By: D. Durham / [illegible] Date: 11/8/04

Reviewed By: _____ Date: _____

APR 18 2005

RADIOLOGICAL SURVEY MAP

Map #	Location BLDG 17 N. PARKING LOT	RWP # N/A	Page of

Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

N

Comments

DF = DIRECT FIELD

NDA = NO Detectable activity

- STORM DRAIN PIPE REMOVAL N. TO SOUTH DF = NDA
  NOTE: "PIPE IS PVC."

- SPOILS SOIL SAMPLE TAKEN EVERY 30'

△1 04-11-217

△2 " " 218

△3 " " 219

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
R COMO 11/8/04	L/2224	187077	Th230 14.5	Cl36 19.3	4	260	29 JAN 05	O - Smear # & Location
D. Dahlke	L2221	117651	←	N/A	→	→	1-14-05	" " - Dose rate mrem/hr
Reviewed By / Date APR 1 8 2005								Ω - Direct Reading
								Δ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

S... # 1104-003

2X2 Soil Counting

Location / Description
B-17 N. Parking Lot
Storm Drain PVC Pipe Removal

Instrument	Serial #	Probe	Serial #	Cal Due	Background
4/2221	117651	44-10	192589	1-14-05	341

Sample ID #	Gross CPM	Background CPM	Net CPM
MAC-0411-217	440	341	99
MAC-0411-218	553	341	222
MAC-0411-219	477	341	136
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			
MAC-			

NA

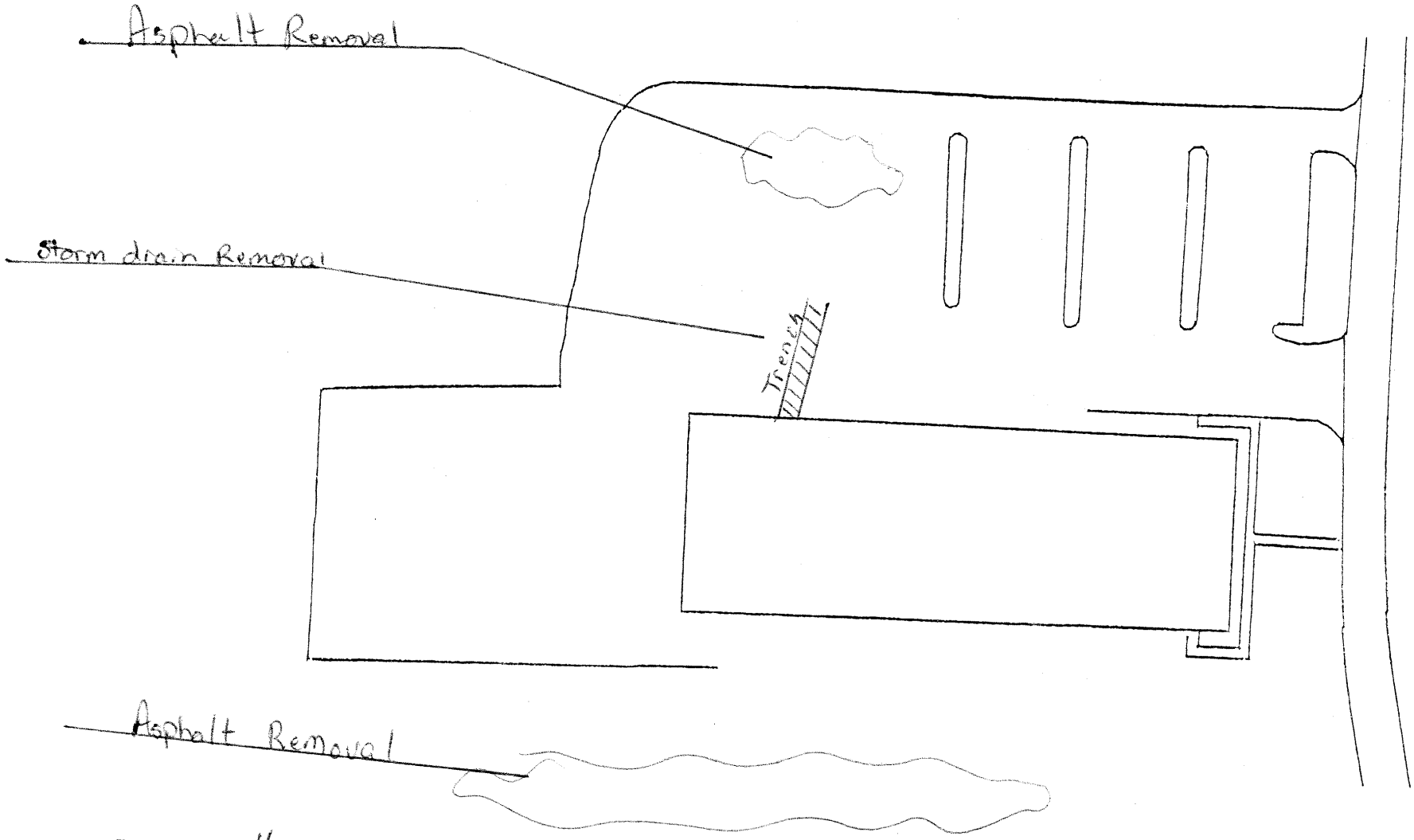
Counted By: [signature] Date: 11/8/04

Reviewed By: APR 1 8 2005 Date:

1104-003

Utility Excavation Survey Map
Building 17

1104-007



Page 1 of 4 see attached sheets for Radiological Survey Data:

Comments:

APR 1 8 2005

Surveyed By: Bill Weston Date: 11/9/04

Reviewed By: Date:

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 storm drain Removal & asphalt Flip | RWP # N/A | Page 2 of 4

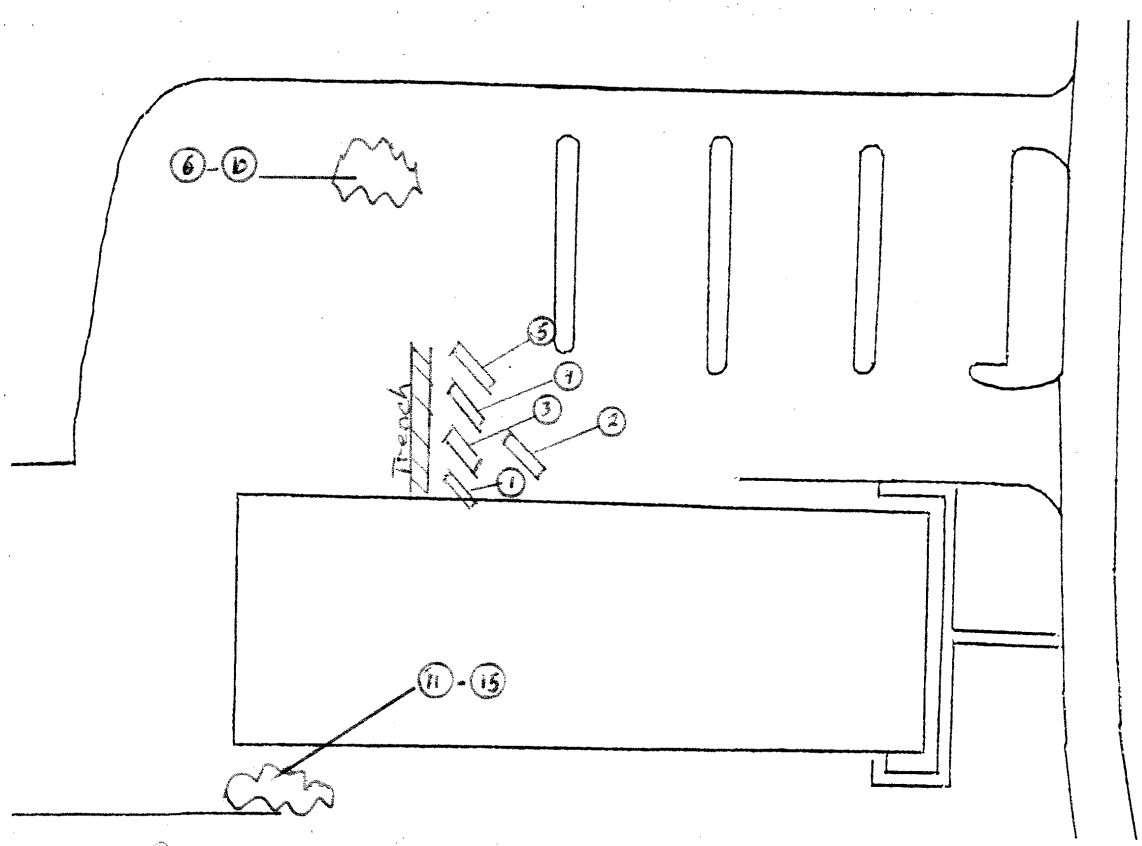
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	0	0	26		
2	0	0	27		
3	0	44	28		
4	6	0	29		
5	0	30	30		
6	0	0	31		
7	0	60	32		
8	0	90	33		
9	0	80	34		
10	0	0	35		
11	0	0	36		
12	0	30	37		
13	14	30	38		
14	0	0	39		
15	0	0	40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Smears taken on outside of pipe as well as inside. also smears taken on back side of asphalt after flipped



= Pipe = spoil pile = asphalt pile

Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
1/19/04	3030	185417	32.6%	13.2%	1.4	32.6	Aug 25, 05	O - Smear # & Location
								" " - Dose rate mrem/hr
								□ - Direct Reading
								△ - Volumetric Sample

Reviewed By / Date APR 18 2005

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg. 17 stormdrain Removal & asphalt Flip | RWP # N/A | Page 3 of 4

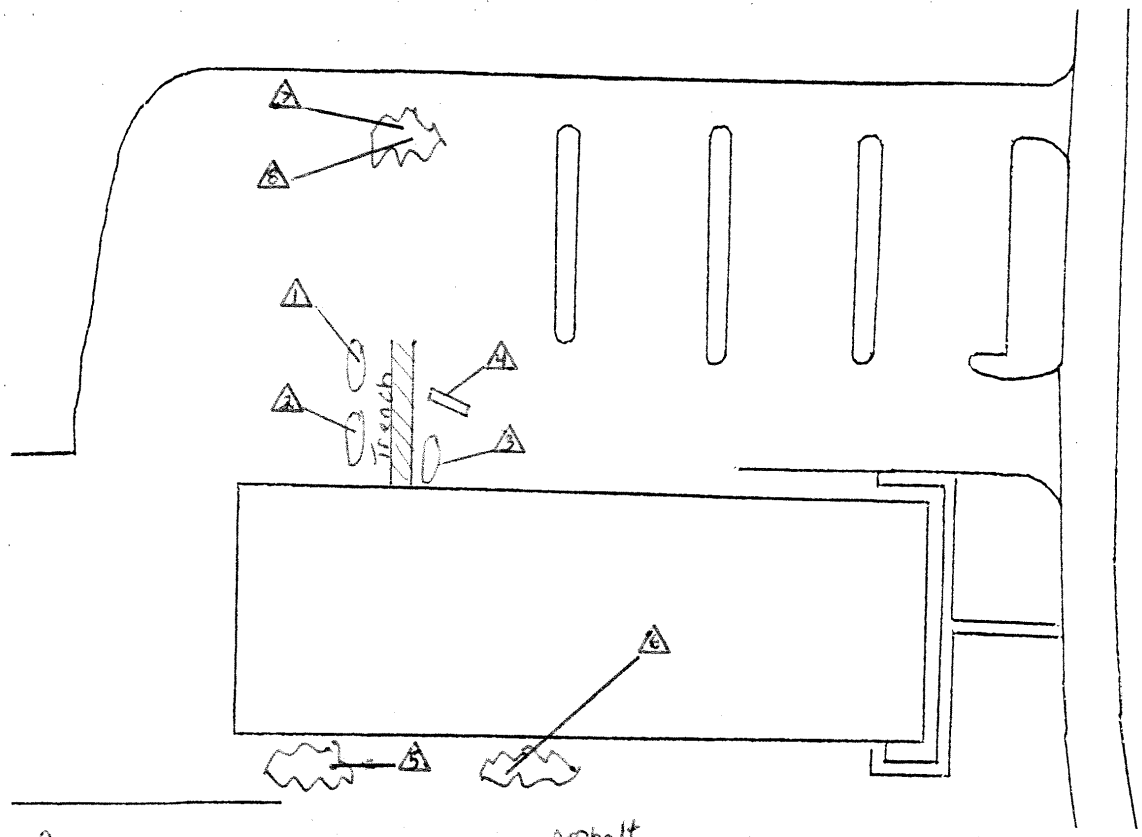
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

for volumetric Results see NaI sheet.



O = spoil pile ⊟ = Pipe ~ = Asphalt ~~Spoil~~ Bw.

Surveyed By 11/9/04
Date
Reviewed By
Date APR 1 8 2005

Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β/γ Bkg (CPM)	Cal Due
2221	117651	N/A	N/A	0	266	1-19-05

Key
O - Smear # & Location
" - Date/site mitemiar
□ - Direct Reading
△ - Volumetric Sample

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

RADIOLOGICAL SURVEY MAP

Map # N/A | Location Bldg 17 storm drain Removal & Asphalt flip | RWP # N/A | Page 4 of 21

Smear Results

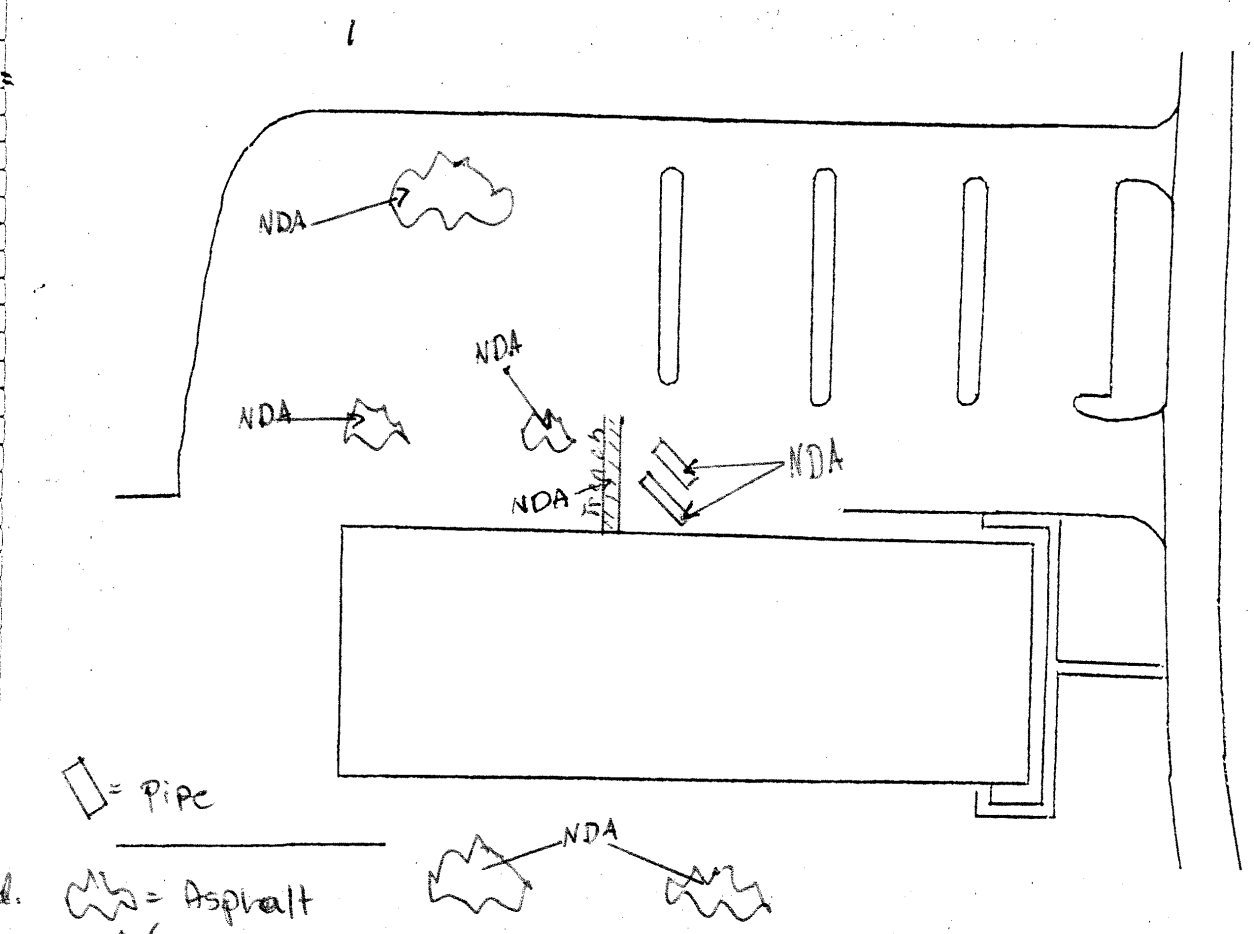
DPM/100 cm²

No.	α	β	No.	α	β
1			25		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

Greater than 10% direct frisk NDA. Nothing above background.

NDA = No Detectable Activity



Surveyed By / Date	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	β Bkg (CPM)	Cal Due	Key
11/9/04	2224	183077	14.5%	19.3%	1	349	Jan. 29, 05	D - Smear # & Location
								" - Dose rate mrem/hr
								D - Direct Reading
								A - Volumetric Sample

Reviewed By / Date APR 18 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description: B-17 storm drain Removal & asphalt volumetrics

0411-007

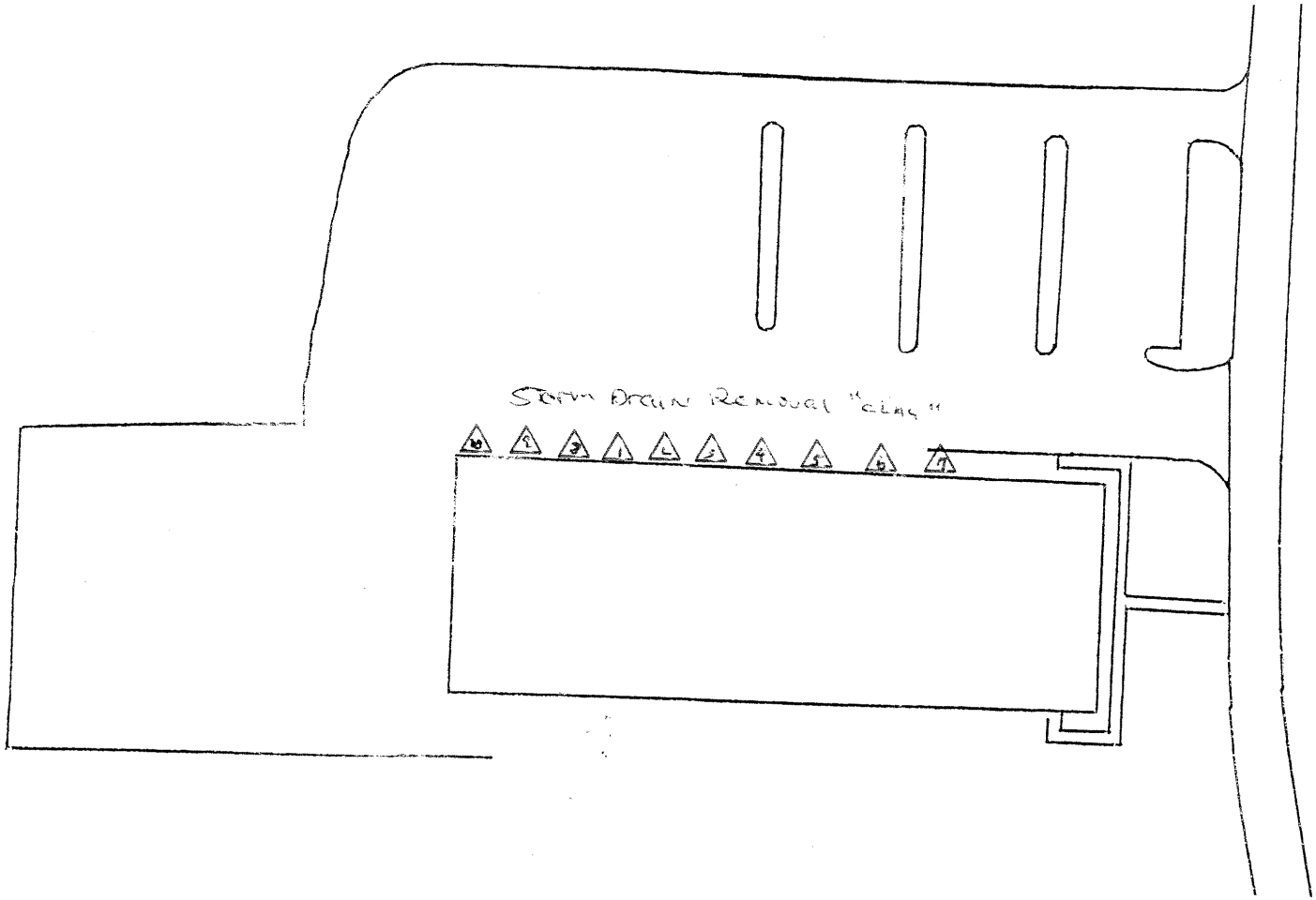
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	NaI	192589	1-19-05	266

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC- 0411 - 247	536	266	270
2	MAC- 0411 - 248	530		264
3	MAC- 0411 - 249	506		240
4	MAC- 0411 - 250	635		369
5	MAC- 0411 - 251	541		275
6	MAC- 0411 - 252	460		194
7	MAC- 0411 - 253	539		273
8	MAC- 0411 - 254	523	266	257
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: [signature] Date: 11/9/04

Reviewed By: APR 1 8 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: Storm Drain Removal "clay pipe"

LOG # 1104-043

Surveyed By: R Cox Date: 11/8/04

Reviewed By: APR 18 2005 Date:

RADIOLOGICAL SURVEY MAP

Map #	Location BLDG 17	RWP # N/A	Page of

Smear Results

DPM/100 cm²

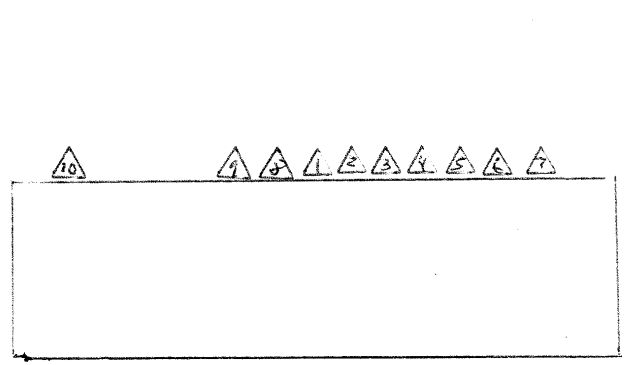
No.	α	β	No.	α	β
1	0	60	26		
2	0	0	27		
3	1	43	28		
4	10	101	29		
5	2	66	30		
6	0	0	31		
7	0	0	32		
8	0	6	33		
9	1	97	34		
10	0	0	35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

Comments

NOTE: Sample # MAC-0411-518 Filled w/Clay pipe pcs.

U/S Pipe Smears 1-10

- Direct Frisk 200-300cpm due to N.O.R.M. from clay pipe



- Volumetric samples 1 - 10

Note
Initial Sample 0411-502 Indicated possible elevated U volumetric contamination
Verification samples 0411-573, 574 showed No detectable activity

NOTE: BKG FOR L/2221 = 250 CPM
L/2224-1 = 200 CPM

80% Volumetrics Are Soil Composit Spoil's Samples

Sample 8 Clay pcs

Sample MAC 0411-502 = Pipe contents composit

MAC 0411-518 = pcs. of clay pipe

LOG# 1104-043

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By RCom Date 11-18-04	L/2221	117651	←	N	N	→	1-19-05	O - Smear # & Location
	L/2224-1	129463	Th230 11.5	Tc99 8.3	← N/A	→	10-6-05	" " - Dose rate mrem/hr
Reviewed By Date	L/3030	189405	Th230 31.9	Tc99 18.3	1.2	41.6	7 AUG-05	Ω - Direct Reading
								Δ - Volumetric Sample

APR 1 8 2005

PROCEDURE NO: RPP-4	REVISION NO: 1	ATTACHMENT 1 PAGE NO: 1 OF 1

2X2 Soil Counting

Location / Description B-17 Storm Drain line Running EAST to West Spoils Pile

LOG # 1104-043

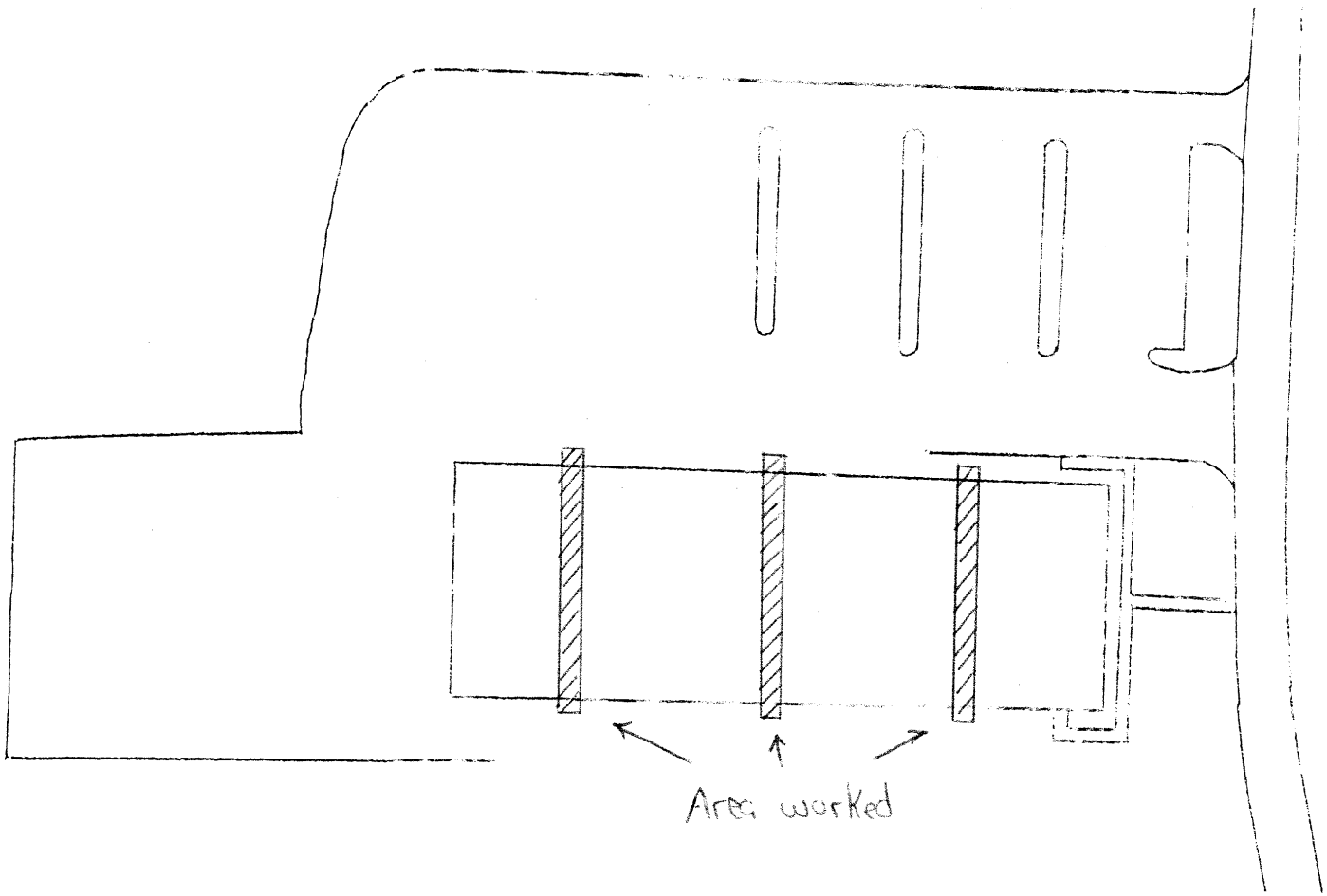
Instrument	Serial #	Probe	Serial #	Cal Due	Background
2221	117651	4410 NaI	192589	1-11-05	363

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC- 0411 - 509	526	363	163
2	MAC- 0411 - 510	582	363	219
3	MAC- 0411 - 511	595	363	232
4	MAC- 0411 - 512	623	363	260
5	MAC- 0411 - 502	505	316	189
6	MAC- 0411 - 507	600	316	284
7	MAC- 0411 - 516	594	252	342
8	MAC- 0411 - 518	600	300	300
9	MAC- 0411 - 517	500	300	200
10	MAC- 0411 - 519	480	300	180
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-	N	A	
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: [signature] Date: 11/18/04

Reviewed By: APR 18 2005 Date:

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: Volumetric Sludge samples from under B-17 foot print. (Storm drain piping)
Direct frisk and smears also taken.
Survey # 0505-009

Surveyed By: Keven Gibbs Date: 5/10/05

Reviewed By: _____ Date: _____

JUL 27 2005

RADIOLOGICAL SURVEY MAP

Map #	N/A	Location	Bldg 17 under footprint	RWP #	N/A	Page	of

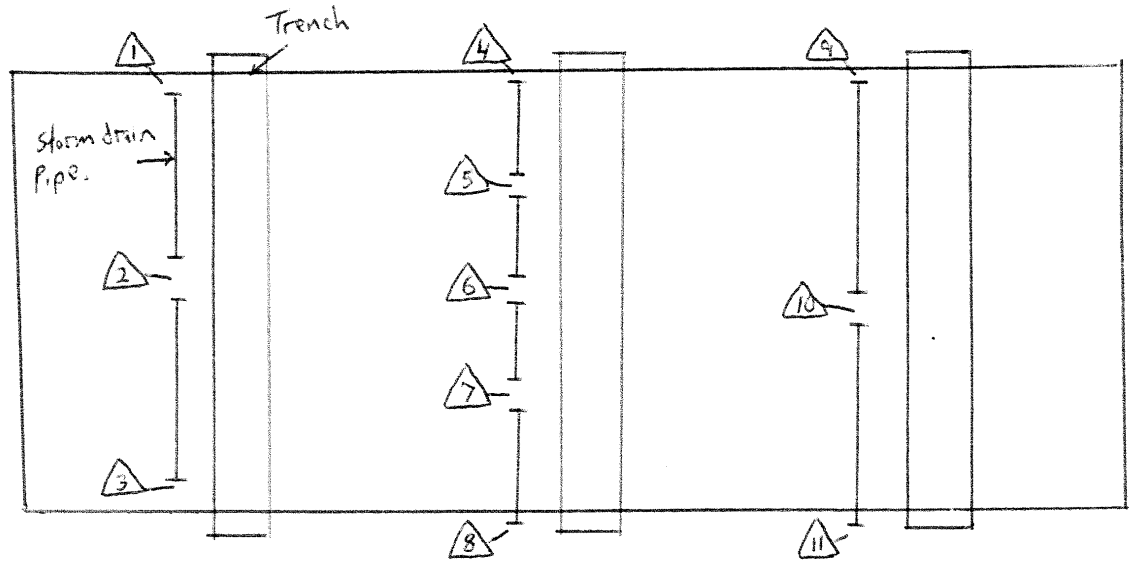
Smear Results

DPM/100 cm²

No.	α	β	No.	α	β
1	6	54	26		
2	6	0	27		
3	6	0	28		
4	0	0	29		
5	6	32	30		
6	0	42	31		
7	6	0	32		
8	0	0	33		
9	0	10	34	N	
10	6	0	35		
11	0	71	36		
12	0	0	37		
13	0	0	38		
14	0	0	39		
15	0	0	40		
16	3	0	41		A
17	0	0	42		
18	0	0	43		
19	3	0	44		
20	0	0	45		
21			46		
22	N		47		
23			48		
24		A	49		
25			50		

Comments

Survey # 0505-009



Performed direct frisk of storm drain pipe sections. No detectable activity above background was found.

	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Surveyed By Kevin C. Sibb Date 5-10-05	L 2224	183077	9.1%	18.8%	0	119	1-29-05	O - Smear # & Location
	43-89	212501	↓	↓	↓	↓	1-29-05	" " - Dose rate mrem/hr
Reviewed By [signature] Date JUL 27 2005	L 3030	185405	31.9%	18.3%	1.2	41.6	8-7-05	Ω - Direct Reading
								Δ - Volumetric Sample

2X2 Soil Counting

Location / Description B-17 I/S of foot print
storm drain sludge samples
Survey # 0505-009

Instrument	Serial #	Probe	Serial #	Cal Due	Background
L 2221	97833	44-10	0534	11-9-05	293 cpm

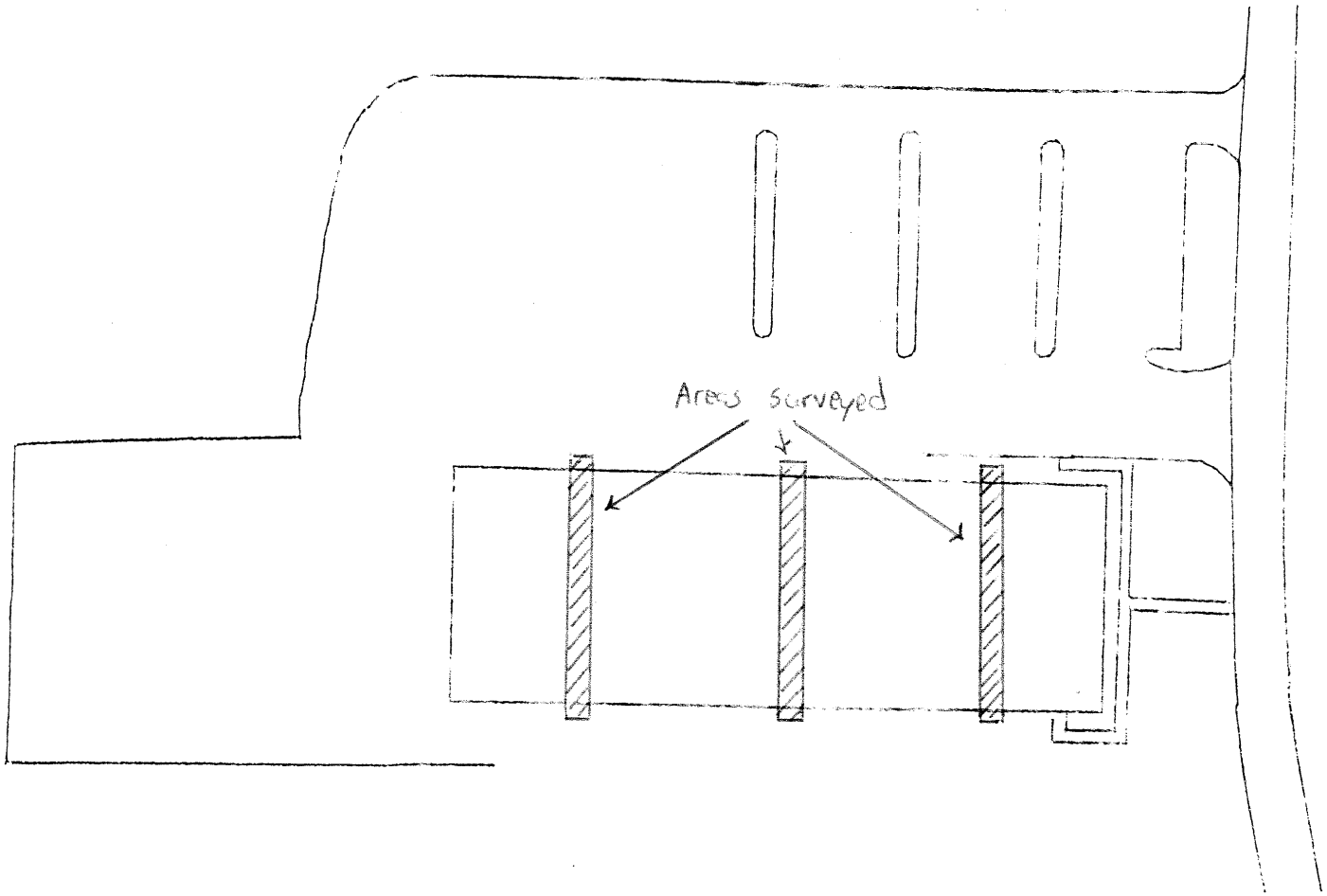
	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC-~~0505~~ 0502-145	* ~~536~~ 541	293	* ~~243~~ 248
2	MAC-0505-146	536		243
3	MAC-0505-147	552		259
4	MAC-0505-148	430		137
5	MAC-0505-149	427		~~26~~ 194
6	MAC-0505-150	519		226
7	MAC-0505-151	552		259
8	MAC-0505-152	508		215
9	MAC-0505-153	598		305
10	MAC-0505-154	555		262
11	MAC-0505-155	612	293	319
	MAC-			
	MAC-			
	MAC-			
	MAC-	N		
	MAC-			
	MAC-			
	MAC-		A	
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: K. Gibbs Date: 5/10/05

Reviewed By: [signature] Date: JUL 27 2005

Long counts for <0.16 pCi/s U^{235} MDA

Utility Excavation Survey Map
Building 17



Page 1 of __ see attached sheets for Radiological Survey Data:

Comments: NaI gamma walkover survey of B-17 storm drain trench spoils. + Volumetric samples
Survey # 0505-010

Surveyed By: Steve Richardson Date: 5/10/05
Reviewed By: Date:

JUL 27 2005

RADIOLOGICAL SURVEY MAP

Map #	N/A	Location	B-17 foot print area.	RWP #	N/A	Page	of

Smear Results

DPM/100 cm²

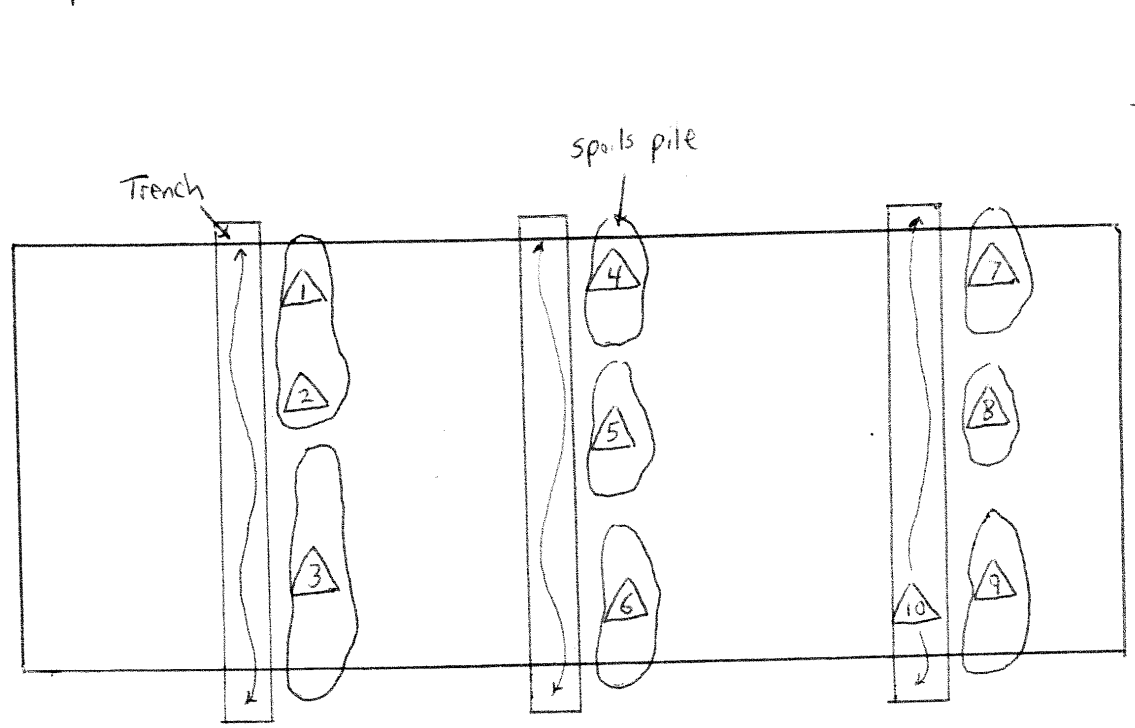
No.	α	β	No.	α	β
1			26		
2			27		
3			28		
4			29		
5			30		
6			31		
7			32		
8			33		
9			34		
10			35		
11			36		
12			37		
13			38		
14			39		
15			40		
16			41		
17			42		
18			43		
19			44		
20			45		
21			46		
22			47		
23			48		
24			49		
25			50		

N

A

Comments

Note: Volumetric sample area # Δ10 showed 5K cpm inside of trench.



NaI 2X2 Background = 2500 cpm - 2800 cpm.

NaI 2X2 walkover of trenches and spoils piles ave. 2800 cpm - 3900 cpm

Surveyed By	Instrument	Serial #	α Efficiency	β Efficiency	α Bkg (CPM)	βγ Bkg (CPM)	Cal Due	Key
Date 5/10/05	L 2350	186175	N/A	N/A	N/A	N/A	11/26/05	O - Smear # & Location
S. Richardson	44-10	199144	↓	↓	↓	↓	11/26/05	" " - Dose rate mrem/hr
Reviewed By								Ω - Direct Reading
Date								Δ - Volumetric Sample

JUL 27 2005

2X2 Soil Counting

Location / Description: B-17 S/S of foot print. Storm drain trench spoils pile samples.

Survey # 0505-010

Instrument	Serial #	Probe	Serial #	Cal Due	Background
L 2221	97833	44-10	0534	11/9/05	293 cpm

	Sample ID #	Gross CPM	Background CPM	Net CPM
1	MAC-0505-156	581	293	~~488~~ 288
2	MAC-0505-157	469		176
3	MAC-0505-158	551		258
4	MAC-0505-159	504		211
5	MAC-0505-160	507		214
6	MAC-0505-161	490		197
7	MAC-0505-162	488		195
8	MAC-0505-163	516		223
9	MAC-0505-164	533		240
10	MAC-0505-165	532	293	239
	MAC-			
	MAC-			
	MAC-			
	MAC-	N		
	MAC-			
	MAC-			
	MAC-		A	
	MAC-			
	MAC-			
	MAC-			
	MAC-			
	MAC-			

Counted By: K. Gibbs Date: 5/10/05

Reviewed By: [signature] Date: JUL 27 2005

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0410-144
Sample Title: B-17 West End Soil From Sanitation line
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.820E+002 g
Sample Taken On: 10/11/2004 12:00:00 PM
Acquisition Started: 10/11/2004 3:33:00 PM
Live Time: 900.0 seconds
Real Time: 900.2 seconds
Dead Time: 0.02 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.99E+001	8.14E+000	1.77E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.16E-002	7.31E-002	1.50E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.62E-002	6.93E-002	1.24E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.59E-002	7.66E-002	1.33E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-9.96E-002	1.83E-001	3.08E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-1.00E-002	6.73E-002	1.38E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.04E-002	2.16E-001	4.09E-001
CS-134	NOT FOUND/DATA for 604.70 keV			3.97E-002	6.71E-002	1.38E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.33E-002	7.82E-002	1.61E-001
TL-208	2.40E-001	9.14E-002	1.37E-001	FOUND		
PB-212	7.58E-001	1.73E-001	3.42E-001	FOUND		
BI-214	7.72E-001	5.38E-001	3.26E-001	FOUND		
PB-214	4.63E-001	1.76E-001	3.31E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.88E-001	1.66E+000	3.00E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.11E+000	4.78E-001	1.09E+000
TH-230	NOT FOUND/DATA for 67.67 keV			6.34E+000	2.67E+001	5.03E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.50E+000	2.45E+000	4.46E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.19E-001	2.95E-001	4.66E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.51E+000	9.70E+000	1.86E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-5.65E-002	1.32E+000	2.20E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.03E+002	2.57E+002	4.95E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.36E-002	9.65E-002	1.86E-001
U-238	NOT FOUND/DATA for 92.60 keV			-5.65E-002	1.32E+000	2.20E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.98E-001	5.23E-001	8.57E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0410-146
Sample Title: B-17 Soil from exploratory trench- #33
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.960E+002 g
Sample Taken On: 10/11/2004 12:00:00 PM
Acquisition Started: 10/12/2004 8:17:59 AM
Live Time: 1200.0 seconds
Real Time: 1200.6 seconds
Dead Time: 0.05 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.39E+001	8.54E+000	1.26E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.67E-003	5.75E-002	1.12E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.57E-002	6.61E-002	1.15E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.88E-002	7.25E-002	1.63E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			4.12E-002	2.03E-001	3.68E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.24E-002	7.11E-002	1.11E-001
SB-125	NOT FOUND/DATA for 427.89 keV			5.96E-002	1.56E-001	3.13E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.96E-002	7.93E-002	1.30E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.50E-002	9.57E-002	1.93E-001
TL-208	4.88E-001	1.12E-001	1.77E-001	FOUND		
PB-212	1.18E+000	2.06E-001	2.96E-001	FOUND		
BI-214	9.76E-001	6.38E-001	3.51E-001	FOUND		
PB-214	1.04E+000	6.32E-001	3.57E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			9.02E-001	1.64E+000	3.02E+000
AC-228	9.78E-001	3.27E-001	5.81E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-3.90E+000	2.97E+001	5.30E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.44E+000	2.70E+000	4.78E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-3.22E-001	3.46E-001	4.39E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.72E+000	1.22E+001	2.54E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.36E+000	1.40E+000	2.50E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.26E+002	2.68E+002	5.05E+002
U-235	NOT FOUND/DATA for 185.71 keV			5.76E-002	9.88E-002	1.83E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.36E+000	1.39E+000	2.50E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.66E-001	4.70E-001	8.74E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0410-174
Sample Title: B-17 Soil under Parking Lot Asphalt - #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.570E+002 g
Sample Taken On: 10/13/2004 12:00:00 PM
Acquisition Started: 10/13/2004 9:03:42 AM
Live Time: 1200.0 seconds
Real Time: 1201.2 seconds
Dead Time: 0.10 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.68E+001	5.92E+000	1.38E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.94E-002	5.30E-002	9.78E-002
CO-57	NOT FOUND/DATA for 122.06 keV			6.38E-002	6.31E-002	1.14E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.40E-002	8.08E-002	1.43E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.15E-001	1.76E-001	2.62E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.85E-002	6.31E-002	1.15E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.32E-001	1.67E-001	3.39E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.67E-002	6.70E-002	8.50E-002
CS-137	NOT FOUND/DATA for 661.66 keV			8.61E-004	6.56E-002	1.25E-001
TL-208	NOT FOUND/DATA for 583.19 keV			1.92E-001	9.01E-002	1.97E-001
PB-212	8.05E-001	3.59E-001	3.13E-001	FOUND		
BI-214	6.97E-001	6.97E-001	2.57E-001	FOUND		
PB-214	5.88E-001	2.38E-001	2.89E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			8.51E-001	1.39E+000	2.56E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.01E+000	3.78E-001	8.75E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-9.58E+000	2.29E+001	4.04E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.27E+000	2.54E+000	3.99E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.02E-001	2.69E-001	4.22E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-5.06E-001	1.23E+001	2.33E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.06E-001	1.17E+000	2.09E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.73E+001	1.96E+002	3.59E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.09E-002	8.34E-002	1.60E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.06E-001	1.17E+000	2.09E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.40E-003	3.73E-001	6.91E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0410-175
Sample Title:	B-17 Soil under Parking Lot Asphalt - #4
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	7.660E+002 g
Sample Taken On:	10/13/2004 12:00:00 PM
Acquisition Started:	10/13/2004 9:24:26 AM
Live Time:	1200.0 seconds
Real Time:	1201.1 seconds
Dead Time:	0.09 %
Efficiency ID:	srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.97E+001	2.61E+000	1.94E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.52E-002	6.25E-002	1.23E-001
CO-57	NOT FOUND/DATA for 122.06 keV			6.99E-004	6.05E-002	1.02E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.37E-002	7.57E-002	1.52E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.31E-002	1.48E-001	2.59E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.47E-002	5.83E-002	1.07E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.62E-002	1.54E-001	2.84E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.71E-002	6.95E-002	1.11E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.94E-003	8.60E-002	1.52E-001
TL-208	3.28E-001	2.94E-001	1.58E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			6.55E-001	1.74E-001	3.55E-001
BI-214	9.21E-001	4.42E-001	3.15E-001	FOUND		
PB-214	7.25E-001	2.40E-001	3.29E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.35E+000	1.49E+000	2.81E+000
AC-228	NOT FOUND/DATA for 911.21 keV			3.98E-002	1.86E-001	8.96E-001
TH-230	NOT FOUND/DATA for 67.67 keV			1.89E+001	2.79E+001	5.28E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.59E+000	2.43E+000	4.24E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.03E-001	2.48E-001	3.95E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.21E+000	1.36E+001	2.45E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.50E-001	1.19E+000	2.08E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.02E+002	2.16E+002	4.06E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.02E-001	9.16E-002	1.74E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.50E-001	1.19E+000	2.08E+000
AM-241	NOT FOUND/DATA for 59.54 keV			4.13E-001	3.86E-001	7.79E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0410-226
Sample Title:	B-17 Trench Spoils Pile - Location #5
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	7.400E+002 g
Sample Taken On:	10/14/2004 12:00:00 PM
Acquisition Started:	10/21/2004 7:41:32 AM
Live Time:	900.0 seconds
Real Time:	901.4 seconds
Dead Time:	0.16 %
Efficiency ID:	srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.11E+001	7.44E+000	1.77E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.86E-003	7.62E-002	1.42E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.13E-003	8.85E-002	1.49E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.49E-002	7.73E-002	1.87E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.03E-001	2.33E-001	3.32E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			4.61E-002	8.90E-002	1.80E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.62E-001	2.25E-001	4.57E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.32E-003	7.43E-002	1.43E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.05E-002	9.36E-002	1.89E-001
TL-208	5.05E-001	3.61E-001	1.76E-001	FOUND		
PB-212	9.57E-001	2.04E-001	3.57E-001	FOUND		
BI-214	6.25E-001	2.10E-001	3.25E-001	FOUND		
PB-214	6.38E-001	1.73E-001	3.70E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.08E+000	1.83E+000	3.38E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.10E+000	4.59E-001	1.07E+000
TH-230	NOT FOUND/DATA for 67.67 keV			4.93E+000	3.36E+001	6.11E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.45E+000	3.13E+000	5.50E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.25E-001	3.14E-001	4.90E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.53E+001	1.47E+001	3.38E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.10E-001	1.54E+000	2.67E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.82E+002	2.91E+002	5.61E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.36E-002	1.14E-001	2.05E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.10E-001	1.54E+000	2.67E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.06E-001	5.24E-001	8.81E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0411-196
Sample Title: B-17 West Storm Drain Removal
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.024E+002 g
Sample Taken On: 11/8/2004 12:00:00 PM
Acquisition Started: 11/9/2004 1:53:42 PM
Live Time: 1800.0 seconds
Real Time: 1802.7 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.20E+001	5.95E+000	1.52E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.44E-003	5.67E-002	1.07E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.10E-002	5.74E-002	9.28E-002
CO-60	NOT FOUND/DATA for 1332.50 keV			4.18E-002	7.11E-002	1.49E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.95E-001	1.44E-001	1.89E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.00E-002	5.50E-002	9.54E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-2.14E-002	1.56E-001	2.76E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.07E-002	6.19E-002	9.90E-002
CS-137	NOT FOUND/DATA for 661.66 keV			4.51E-002	7.37E-002	1.41E-001
TL-208	4.42E-001	8.96E-002	1.40E-001	FOUND		
PB-212	1.22E+000	2.72E-001	3.10E-001	FOUND		
BI-214	9.21E-001	5.29E-001	2.74E-001	FOUND		
PB-214	8.61E-001	5.07E-001	2.66E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.37E+000	1.39E+000	2.66E+000
AC-228	9.72E-001	9.43E-002	5.29E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			1.83E+000	2.44E+001	4.34E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.42E+000	2.24E+000	3.87E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-6.58E-002	2.36E-001	3.84E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.94E+000	1.08E+001	1.88E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.58E+000	1.12E+000	2.01E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.58E+000	1.93E+002	3.50E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.74E-001	8.38E-002	1.63E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.58E+000	1.12E+000	2.01E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.92E-002	3.82E-001	6.93E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0411-197
Sample Title:	B-17 West Storm Drain Removal #2
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	7.393E+002 g
Sample Taken On:	11/8/2004 12:00:00 PM
Acquisition Started:	11/9/2004 2:13:19 PM
Live Time:	1800.0 seconds
Real Time:	1802.7 seconds
Dead Time:	0.15 %
Efficiency ID:	srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.22E+001	2.65E+001	1.65E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.19E-002	4.89E-002	9.47E-002
CO-57	NOT FOUND/DATA for 122.06 keV			9.58E-003	5.61E-002	9.43E-002
CO-60	NOT FOUND/DATA for 1173.24 keV			-7.12E-002	6.47E-002	1.01E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			7.57E-003	1.46E-001	2.63E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.54E-002	6.07E-002	9.77E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-3.33E-002	1.40E-001	2.49E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.77E-002	6.13E-002	9.26E-002
CS-137	NOT FOUND/DATA for 661.66 keV			7.38E-002	7.61E-002	1.49E-001
TL-208	3.26E-001	4.50E-001	1.28E-001	FOUND		
PB-212	1.11E+000	2.54E-001	3.03E-001	FOUND		
BI-214	7.64E-001	1.51E-001	2.54E-001	FOUND		
PB-214	5.83E-001	1.90E-001	2.92E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.48E+000	1.23E+000	2.32E+000
AC-228	9.75E-001	2.62E-001	4.88E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.46E+000	2.19E+001	3.91E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.24E+000	1.87E+000	3.27E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-9.94E-002	2.18E-001	3.51E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.49E+000	9.35E+000	1.74E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.06E-001	1.05E+000	1.83E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.32E+001	1.84E+002	3.37E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.51E-002	7.58E-002	1.41E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.06E-001	1.05E+000	1.83E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-7.19E-002	3.53E-001	6.24E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0411-218
Sample Title: B-17 PVC Storm Drain removal #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.896E+002 g
Sample Taken On: 11/15/2004 12:00:00 PM
Acquisition Started: 11/16/2004 7:57:58 AM
Live Time: 1200.0 seconds
Real Time: 1201.7 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.19E+001	7.80E+000	2.37E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.51E-003	8.01E-002	1.49E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.02E-002	7.46E-002	1.31E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			2.86E-002	8.87E-002	1.84E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.83E-001	1.75E-001	2.54E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.14E-002	7.70E-002	1.52E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.31E-002	2.08E-001	3.93E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.65E-002	8.72E-002	1.44E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.71E-002	1.08E-001	2.15E-001
TL-208	3.34E-001	3.36E-001	2.21E-001	FOUND		
PB-212	1.14E+000	1.90E-001	3.41E-001	FOUND		
BI-214	8.80E-001	7.36E-001	3.76E-001	FOUND		
PB-214	8.67E-001	2.27E-001	4.39E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.50E+000	1.90E+000	3.56E+000
AC-228	7.57E-001	3.94E-001	6.15E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-2.16E+001	3.41E+001	5.85E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.24E+000	2.85E+000	5.13E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.31E-001	3.64E-001	5.36E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.02E+001	1.22E+001	2.79E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.88E+000	1.51E+000	2.77E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.18E+001	2.35E+002	4.48E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.26E-002	1.18E-001	2.18E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.88E+000	1.51E+000	2.77E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.04E-001	5.55E-001	1.04E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0411-502
Sample Title: B-17 Inside storm drain line #1 composit
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.391E+002 g
Sample Taken On: 11/18/2004 12:00:00 PM
Acquisition Started: 11/22/2004 6:17:04 PM
Live Time: 3600.0 seconds
Real Time: 3605.8 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.27E+001	1.39E+000	1.01E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.19E-002	3.53E-002	6.82E-002
CO-57	NOT FOUND/DATA for 122.06 keV			8.67E-003	3.89E-002	6.47E-002
CO-60	NOT FOUND/DATA for 1173.24 keV			2.64E-002	4.63E-002	9.06E-002
ZN-65	NOT FOUND/DATA for 1115.55 keV			6.66E-002	8.76E-002	1.75E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.43E-002	4.25E-002	7.01E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-8.29E-002	1.07E-001	1.78E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.52E-002	3.81E-002	6.22E-002
CS-137	NOT FOUND/DATA for 661.66 keV			5.01E-002	5.19E-002	9.97E-002
TL-208	1.96E-001	1.39E-001	8.40E-002	FOUND		
PB-212	8.70E-001	2.44E-001	2.11E-001	FOUND		
BI-214	4.65E-001	1.88E-001	1.93E-001	FOUND		
PB-214	3.39E-001	7.27E-002	1.83E-001	FOUND		
RA-226	3.82E+000	3.96E+000	2.20E+000	FOUND		
AC-228	4.33E-001	1.57E-001	2.75E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-7.45E+000	1.41E+001	2.43E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.65E-001	1.44E+000	2.46E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.27E-001	1.84E-001	2.64E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.33E+000	7.04E+000	1.33E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.88E+000	6.45E-001	1.51E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.59E+002	1.42E+002	2.61E+002
U-235	4.51E-001	2.28E-001	1.34E-001	FOUND		
U-238	2.96E+000	6.29E-001	1.51E+000	FOUND		
AM-241	NOT FOUND/DATA for 59.54 keV			2.12E-001	2.40E-001	4.49E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0411-512
Sample Title: B-17 Storm drain E to W spoils pile comp
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.287E+002 g
Sample Taken On: 11/18/2004 12:00:00 PM
Acquisition Started: 11/18/2004 11:35:38 AM
Live Time: 1500.0 seconds
Real Time: 1501.6 seconds
Dead Time: 0.10 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.07E+001	7.42E+000	1.38E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.94E-002	6.97E-002	1.40E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.34E-002	6.76E-002	1.15E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.59E-002	6.75E-002	1.50E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.53E-002	2.06E-001	3.70E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.17E-002	6.96E-002	1.28E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.31E-002	2.00E-001	3.69E-001
CS-134	NOT FOUND/DATA for 604.70 keV			5.15E-003	6.46E-002	1.20E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.45E-002	7.61E-002	1.61E-001
TL-208	5.12E-001	2.91E-001	1.49E-001	FOUND		
PB-212	1.74E+000	3.37E-001	2.77E-001	FOUND		
BI-214	9.49E-001	2.11E-001	3.26E-001	FOUND		
PB-214	1.27E+000	2.74E-001	4.03E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.93E+000	1.57E+000	3.00E+000
AC-228	1.42E+000	3.52E-001	5.25E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-6.45E+000	2.96E+001	5.14E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.44E+000	2.65E+000	4.55E+000
PA-234	NOT FOUND/DATA for 98.44 keV			4.42E-002	2.83E-001	4.79E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.14E+000	1.32E+001	2.46E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.26E-001	1.31E+000	2.28E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.00E+002	2.68E+002	5.10E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.26E-001	9.59E-002	1.84E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.26E-001	1.31E+000	2.28E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.37E-001	4.54E-001	7.95E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0411-516
Sample Title:	B-17 N of C Bay spoils I/W #7
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	6.281E+002 g
Sample Taken On:	11/18/2004 12:00:00 PM
Acquisition Started:	11/22/2004 8:40:24 AM
Live Time:	1200.0 seconds
Real Time:	1201.8 seconds
Dead Time:	0.15 %
Efficiency ID:	srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.59E+001	9.89E+000	2.36E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.24E-002	7.37E-002	1.36E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.27E-002	7.61E-002	1.31E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.42E-002	9.12E-002	1.95E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.61E-002	1.94E-001	3.19E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.08E-002	7.37E-002	1.24E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.53E-001	2.02E-001	3.39E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.65E-003	8.18E-002	1.42E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.50E-002	8.35E-002	1.71E-001
TL-208	5.13E-001	1.16E-001	1.30E-001	FOUND		
PB-212	1.03E+000	1.85E-001	4.29E-001	FOUND		
BI-214	1.21E+000	5.12E-001	3.98E-001	FOUND		
PB-214	1.16E+000	3.01E-001	3.61E-001	FOUND		
RA-226	3.58E+000	5.00E+000	4.22E+000	FOUND		
AC-228	NOT FOUND/DATA for 911.21 keV			1.38E+000	5.00E-001	1.14E+000
TH-230	NOT FOUND/DATA for 67.67 keV			9.77E+000	3.34E+001	6.10E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.65E+000	2.87E+000	5.04E+000
PA-234	NOT FOUND/DATA for 131.20 keV			3.92E-003	3.30E-001	5.42E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-9.15E+000	1.38E+001	2.29E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.80E+000	1.58E+000	2.84E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.00E+002	2.39E+002	4.21E+002
U-235	2.18E-001	3.04E-001	2.57E-001	FOUND		
U-238	NOT FOUND/DATA for 92.60 keV			1.80E+000	1.58E+000	2.84E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.04E-002	5.32E-001	9.69E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0411-568
Sample Title:	B-17 Spoils pile composite #14
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	6.095E+002 g
Sample Taken On:	11/22/2004 12:00:00 PM
Acquisition Started:	11/29/2004 7:54:07 AM
Live Time:	1800.0 seconds
Real Time:	1802.8 seconds
Dead Time:	0.16 %
Efficiency ID:	srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.97E+001	7.14E+000	1.61E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.77E-002	6.69E-002	1.32E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-7.42E-002	6.87E-002	1.06E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.78E-002	7.26E-002	1.48E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			3.22E-002	1.65E-001	3.18E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.10E-002	6.65E-002	1.12E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-6.94E-002	1.70E-001	2.95E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.08E-002	6.77E-002	1.18E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.72E-002	8.75E-002	1.73E-001
TL-208	4.15E-001	9.90E-002	1.89E-001	FOUND		
PB-212	1.42E+000	1.65E-001	3.24E-001	FOUND		
BI-214	1.02E+000	1.90E-001	3.37E-001	FOUND		
PB-214	9.61E-001	4.70E-001	3.89E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.40E+000	1.56E+000	2.86E+000
AC-228	9.99E-001	2.60E-001	6.24E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.27E+001	2.73E+001	4.75E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.15E+000	2.51E+000	4.36E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-8.70E-002	2.77E-001	4.52E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.95E+000	1.30E+001	2.53E+001
TH-234	NOT FOUND/DATA for 92.60 keV			9.53E-001	1.26E+000	2.19E+000
U-234	NOT FOUND/DATA for 53.20 keV			-9.14E+001	2.29E+002	3.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.05E-001	9.35E-002	1.75E-001
U-238	NOT FOUND/DATA for 92.60 keV			9.53E-001	1.26E+000	2.19E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.99E-002	4.72E-001	8.57E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0411-581
Sample Title:	Bay B I/W Trench Soil
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	5.820E+002 g
Sample Taken On:	11/23/2004 12:00:00 PM
Acquisition Started:	11/23/2004 2:33:18 PM
Live Time:	1800.0 seconds
Real Time:	1802.7 seconds
Dead Time:	0.15 %
Efficiency ID:	srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.62E+001	7.23E+000	1.76E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.23E-002	5.97E-002	1.20E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.01E-002	6.23E-002	1.06E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			9.70E-002	7.05E-002	1.67E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-7.77E-002	1.55E-001	2.63E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-3.56E-002	7.25E-002	1.34E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.67E-002	1.91E-001	3.59E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.13E-002	5.42E-002	9.73E-002
CS-137	NOT FOUND/DATA for 661.66 keV			7.13E-002	8.22E-002	1.64E-001
TL-208	3.75E-001	3.34E-001	1.42E-001	FOUND		
PB-212	1.19E+000	1.68E-001	2.64E-001	FOUND		
BI-214	1.07E+000	6.27E-001	3.54E-001	FOUND		
PB-214	9.04E-001	1.58E-001	3.01E-001	FOUND		
RA-226	8.23E+000	1.67E+000	4.39E+000	FOUND		
AC-228	1.41E+000	2.99E-001	5.93E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-4.00E+000	2.66E+001	4.66E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.77E+000	3.10E+000	5.02E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.50E-001	2.66E-001	4.55E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.08E+000	1.22E+001	2.39E+001
TH-234	3.32E+000	1.10E+000	2.74E+000	FOUND		
U-234	NOT FOUND/DATA for 53.20 keV			1.74E+002	2.41E+002	4.53E+002
U-235	5.01E-001	1.02E-001	2.67E-001	FOUND		
U-238	3.32E+000	1.10E+000	2.74E+000	FOUND		
AM-241	NOT FOUND/DATA for 59.54 keV			-1.79E-001	4.52E-001	7.81E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-123
Sample Title: B17/6A Hillside San. Spoils Pile - #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.681E+002 g
Sample Taken On: 1/17/2005 12:00:00 PM
Acquisition Started: 1/18/2005 9:48:16 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.08E+001	2.99E+000	2.67E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.97E-002	5.47E-002	8.52E-002
CO-57	NOT FOUND/DATA for 122.06 keV			-1.57E-002	7.69E-002	1.29E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.98E-002	7.77E-002	1.76E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.45E-001	2.12E-001	2.96E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.50E-002	6.72E-002	1.20E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.01E-002	2.11E-001	3.90E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.11E-002	6.86E-002	1.33E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.28E-002	1.02E-001	2.05E-001
TL-208	3.73E-001	1.15E-001	1.70E-001	FOUND		
PB-212	1.26E+000	5.49E-001	3.40E-001	FOUND		
BI-214	1.08E+000	2.70E-001	2.91E-001	FOUND		
PB-214	1.22E+000	8.46E-001	4.12E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.30E+000	1.82E+000	3.44E+000
AC-228	1.09E+000	3.24E-001	5.03E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			1.86E+000	3.63E+001	6.57E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.08E+000	3.14E+000	5.61E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.02E-002	3.16E-001	5.26E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.60E+000	1.47E+001	3.01E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.00E-001	1.63E+000	2.74E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.83E+002	2.66E+002	4.43E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.30E-002	1.15E-001	2.16E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.00E-001	1.63E+000	2.74E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.75E-001	5.62E-001	1.07E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-136
Sample Title: B5 I/W - Sanitary Spoils Pile - #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.936E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/19/2005 7:56:38 AM
Live Time: 1200.0 seconds
Real Time: 1201.9 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.05E+001	6.98E+000	1.48E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.68E-002	6.75E-002	1.21E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-7.36E-003	6.87E-002	1.16E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.94E-002	8.21E-002	1.74E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.73E-002	1.67E-001	3.25E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.20E-003	6.08E-002	1.18E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.46E-001	2.08E-001	3.45E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.91E-002	8.65E-002	1.31E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.30E-002	7.79E-002	1.59E-001
TL-208	3.98E-001	4.47E-001	1.91E-001	FOUND		
PB-212	1.27E+000	2.42E-001	3.37E-001	FOUND		
BI-214	1.03E+000	6.44E-001	3.35E-001	FOUND		
PB-214	1.07E+000	2.56E-001	3.99E-001	FOUND		
RA-226	1.96E+000	1.30E+000	3.16E+000	FOUND		
AC-228	9.92E-001	2.96E-001	6.04E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-4.90E+000	3.13E+001	5.60E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.75E+000	2.97E+000	5.19E+000
PA-234	NOT FOUND/DATA for 946.00 keV			-4.20E-001	6.53E-001	5.57E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.75E+000	1.33E+001	2.46E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.41E+000	1.47E+000	2.64E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.12E+001	2.35E+002	4.40E+002
U-235	1.19E-001	7.92E-002	1.92E-001	FOUND		
U-238	NOT FOUND/DATA for 92.60 keV			1.41E+000	1.47E+000	2.64E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.56E-001	4.93E-001	7.88E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-145
Sample Title: B17 IW Trench Sample # 1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.516E+002
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/20/2005 2:50:27 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/)	Activity Uncert. (pCi/)	Nuclide MDA (pCi/)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/)	Line Act Uncert. (pCi/)	Line MDA (pCi/)
K-40	2.37E+001	1.21E+001	2.40E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-8.48E-002	1.19E-001	1.83E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.93E-002	1.12E-001	2.02E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-3.15E-002	1.50E-001	1.74E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.02E-001	2.61E-001	5.84E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.63E-002	1.18E-001	2.10E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.39E-001	3.11E-001	4.73E-001
CS-134	NOT FOUND/DATA for 604.70 keV			7.54E-002	1.08E-001	2.43E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.45E-002	1.70E-001	3.43E-001
TL-208	2.86E-001	2.14E-001	3.05E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			7.32E-001	3.19E-001	6.56E-001
BI-214	NOT FOUND/DATA for 609.31 keV			6.73E-001	3.82E-001	8.53E-001
PB-214	NOT FOUND/DATA for 351.92 keV			7.46E-001	3.37E-001	7.68E-001
RA-226	NOT FOUND/DATA for 186.10 keV			1.67E+000	2.60E+000	5.13E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.87E-001	7.07E-001	1.64E+000
TH-230	NOT FOUND/DATA for 67.67 keV			7.41E+000	4.81E+001	8.47E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.08E-001	4.03E+000	7.38E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.99E-002	4.26E-001	7.47E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.37E+000	2.30E+001	4.63E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.20E+000	2.29E+000	4.33E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.22E+001	3.55E+002	6.83E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.32E-002	1.59E-001	3.08E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.20E+000	2.29E+000	4.33E+000
AM-241	NOT FOUND/DATA for 59.54 keV			9.29E-002	8.42E-001	1.61E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-146
Sample Title: B17 IW Trench Sample # 2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.986E+002
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/20/2005 1:59:10 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/)	Activity Uncert. (pCi/)	Nuclide MDA (pCi/)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/)	Line Act Uncert. (pCi/)	Line MDA (pCi/)
K-40	2.13E+001	3.84E+000	2.59E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.45E-002	9.47E-002	2.13E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.07E-001	9.29E-002	1.80E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.24E-002	1.09E-001	2.41E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.13E-001	3.18E-001	4.61E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.19E-002	8.73E-002	1.54E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.32E-001	2.75E-001	4.80E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.53E-002	9.06E-002	1.68E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.40E-002	1.29E-001	2.28E-001
TL-208	3.00E-001	1.39E-001	2.31E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			8.74E-001	2.99E-001	6.21E-001
BI-214	6.48E-001	2.66E-001	4.20E-001	FOUND		
PB-214	1.09E+000	3.13E-001	4.45E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.15E+000	2.46E+000	4.68E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.56E+000	7.10E-001	1.65E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-6.60E-001	4.25E+001	7.91E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.45E-001	3.29E+000	6.08E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.07E-002	3.84E-001	6.57E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.48E+000	1.99E+001	4.11E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.84E+000	1.71E+000	3.30E+000
U-234	NOT FOUND/DATA for 53.20 keV			-7.38E+001	3.02E+002	5.56E+002
U-235	NOT FOUND/DATA for 185.71 keV			-7.87E-002	1.51E-001	2.63E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.84E+000	1.71E+000	3.30E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.00E-001	6.99E-001	1.34E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-147
Sample Title: B17 IW Trench Sample # 3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.264E+002
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/20/2005 1:16:56 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/)	Activity Uncert. (pCi/)	Nuclide MDA (pCi/)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/)	Line Act Uncert. (pCi/)	Line MDA (pCi/)
K-40	1.97E+001	3.62E+000	2.35E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.05E-002	9.79E-002	1.55E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.31E-002	9.59E-002	1.60E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-3.74E-002	1.17E-001	2.15E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			3.93E-002	2.69E-001	5.24E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.82E-003	6.55E-002	1.36E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.27E-002	2.83E-001	5.28E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.16E-002	9.26E-002	1.10E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.76E-002	1.13E-001	2.28E-001
TL-208	NOT FOUND/DATA for 583.19 keV			1.14E-001	1.48E-001	3.02E-001
PB-212	6.45E-001	2.08E-001	4.28E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			6.56E-001	3.35E-001	7.41E-001
PB-214	5.03E-001	2.92E-001	3.61E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			9.39E-001	2.16E+000	4.12E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.92E-001	4.69E-001	1.16E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.67E+000	3.46E+001	6.43E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.86E+000	3.74E+000	6.92E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.42E-001	3.21E-001	5.93E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.33E+000	1.40E+001	2.68E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.53E-001	1.52E+000	2.60E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.55E+002	3.37E+002	6.82E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.08E-002	1.37E-001	2.64E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.53E-001	1.52E+000	2.60E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.67E-001	6.97E-001	1.24E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-148
Sample Title: B5-B17 I/W Trench Bottom #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.417E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/25/2005 2:35:40 PM
Live Time: 900.0 seconds
Real Time: 901.3 seconds
Dead Time: 0.15 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.90E+001	8.52E+000	1.48E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.02E-002	8.60E-002	1.57E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.82E-003	7.21E-002	1.25E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			7.36E-003	6.61E-002	1.45E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.36E-002	1.93E-001	3.43E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.47E-002	8.69E-002	1.27E-001
SB-125	NOT FOUND/DATA for 427.89 keV			5.25E-002	2.07E-001	4.08E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.26E-002	6.84E-002	1.04E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.96E-002	9.31E-002	1.97E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.84E-001	1.27E-001	2.77E-001
PB-212	1.16E+000	5.71E-001	3.66E-001	FOUND		
BI-214	8.00E-001	2.16E-001	2.92E-001	FOUND		
PB-214	7.28E-001	6.18E-001	4.16E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.10E+000	2.05E+000	3.96E+000
AC-228	1.18E+000	1.12E+000	5.17E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			2.50E+001	3.55E+001	6.84E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.67E+000	3.23E+000	5.78E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.63E-002	3.31E-001	5.52E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.95E+000	1.29E+001	2.59E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.39E+000	1.51E+000	2.75E+000
U-234	NOT FOUND/DATA for 53.20 keV			7.39E+001	2.58E+002	4.90E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.96E-001	1.24E-001	2.42E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.39E+000	1.51E+000	2.75E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.91E-001	5.15E-001	1.01E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-149
Sample Title: B5/B17 I/W Trench Bottom - #5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.569E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 9:26:14 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.60E+001	2.64E+000	2.26E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.52E-002	5.64E-002	8.74E-002
CO-57	NOT FOUND/DATA for 122.06 keV			7.24E-002	7.06E-002	1.31E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.54E-002	8.48E-002	1.80E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.24E-003	1.39E-001	2.52E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.18E-003	6.73E-002	1.29E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.09E-001	2.05E-001	3.56E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.18E-002	7.10E-002	1.32E-001
CS-137	1.64E-001	8.26E-002	1.12E-001	FOUND		
TL-208	1.76E-001	3.26E-001	1.38E-001	FOUND		
PB-212	5.41E-001	4.78E-001	3.32E-001	FOUND		
BI-214	7.01E-001	4.13E-001	2.88E-001	FOUND		
PB-214	5.92E-001	2.13E-001	3.32E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.50E-001	1.67E+000	3.06E+000
AC-228	NOT FOUND/DATA for 911.21 keV			3.10E-001	3.15E-001	6.97E-001
TH-230	NOT FOUND/DATA for 67.67 keV			1.39E+001	3.01E+001	5.80E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.72E+000	2.80E+000	5.10E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.00E-001	2.88E-001	4.72E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.08E+000	1.32E+001	2.65E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.09E-001	1.32E+000	2.36E+000
U-234	NOT FOUND/DATA for 53.20 keV			-8.70E+001	2.28E+002	4.05E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.27E-002	9.56E-002	1.86E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.09E-001	1.32E+000	2.36E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.14E-003	4.58E-001	8.64E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-150
Sample Title: B5/B17 I/W Trench Bottom - #6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.919E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 9:45:41 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.86E+001	2.83E+000	2.50E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.63E-002	7.87E-002	1.01E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.98E-002	7.23E-002	1.18E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.52E-002	8.29E-002	1.78E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.34E-001	1.44E-001	2.19E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.86E-002	6.94E-002	1.17E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.07E-001	1.95E-001	3.96E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.44E-001	1.02E-001	1.02E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.56E-002	8.80E-002	1.90E-001
TL-208	3.89E-001	3.55E-001	1.60E-001	FOUND		
PB-212	1.11E+000	3.25E-001	3.35E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			5.06E-001	2.34E-001	5.03E-001
PB-214	7.00E-001	2.32E-001	4.06E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.01E+000	1.72E+000	3.32E+000
AC-228	NOT FOUND/DATA for 911.21 keV			6.72E-001	3.98E-001	8.90E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-3.10E+000	3.02E+001	5.51E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.57E+000	3.17E+000	5.58E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-5.15E-002	2.95E-001	4.92E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.07E+001	1.49E+001	3.16E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.09E+000	1.56E+000	2.87E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.35E+002	2.59E+002	4.98E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.31E-002	1.02E-001	1.94E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.09E+000	1.56E+000	2.87E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.42E-001	5.22E-001	8.88E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-151
Sample Title: B5/B17 I/W Trench Bottom - #7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.826E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 10:11:24 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.31E+001	9.67E+000	2.25E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			3.18E-002	7.03E-002	1.54E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-6.20E-002	7.84E-002	1.20E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.64E-003	8.49E-002	1.76E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.55E-001	2.06E-001	2.96E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-2.00E-002	8.60E-002	1.75E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.64E-002	2.11E-001	3.86E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.91E-002	1.01E-001	1.31E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.56E-001	1.08E-001	2.40E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.65E-001	1.33E-001	3.04E-001
PB-212	NOT FOUND/DATA for 238.63 keV			7.34E-001	2.36E-001	4.79E-001
BI-214	6.01E-001	2.29E-001	3.64E-001	FOUND		
PB-214	1.03E+000	2.79E-001	3.70E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			6.89E-001	1.84E+000	3.41E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.21E+000	5.11E-001	1.19E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-5.23E+000	3.11E+001	5.62E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.19E+000	2.76E+000	5.11E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.77E-001	2.88E-001	5.22E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.98E+001	1.63E+001	3.77E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.44E+000	1.57E+000	2.99E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.00E+002	2.81E+002	5.46E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.49E-002	1.08E-001	2.01E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.44E+000	1.56E+000	2.99E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.25E-001	5.70E-001	1.07E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-152
Sample Title: B5/B17 I/W Trench Bottom - #8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.618E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 10:28:25 AM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.67E+001	6.98E+000	1.70E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.01E-002	6.34E-002	1.34E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.88E-002	6.68E-002	1.11E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			7.84E-002	6.93E-002	1.78E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.59E-002	1.79E-001	3.18E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.18E-003	7.66E-002	1.44E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.05E-002	2.20E-001	3.95E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.74E-002	7.71E-002	1.26E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.60E-002	9.82E-002	1.99E-001
TL-208	2.74E-001	1.89E-001	1.51E-001	FOUND		
PB-212	6.78E-001	2.08E-001	3.29E-001	FOUND		
BI-214	7.84E-001	7.63E-001	3.01E-001	FOUND		
PB-214	5.21E-001	2.24E-001	4.20E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.03E+000	1.68E+000	3.16E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.04E-001	4.46E-001	9.92E-001
TH-230	NOT FOUND/DATA for 67.67 keV			5.19E+000	3.14E+001	5.90E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.16E+000	3.05E+000	5.00E+000
PA-234	NOT FOUND/DATA for 131.20 keV			3.92E-002	3.07E-001	5.27E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.84E+000	1.18E+001	2.52E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-8.93E-002	1.57E+000	2.65E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.63E+001	2.50E+002	4.76E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.64E-002	1.05E-001	2.01E-001
U-238	NOT FOUND/DATA for 92.60 keV			-8.93E-002	1.57E+000	2.65E+000
AM-241	NOT FOUND/DATA for 59.54 keV			8.69E-002	5.12E-001	9.68E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-153
Sample Title: B5-B17 I/W Trench Bottom - #9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 4.985E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 12:41:21 PM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: PINT_SOIL_500G

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.85E+001	1.07E+001	1.97E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-7.15E-003	8.13E-002	1.55E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.46E-002	8.09E-002	1.41E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			3.57E-002	1.10E-001	2.27E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.02E-001	2.26E-001	3.88E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.65E-002	8.27E-002	1.33E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.94E-002	2.39E-001	4.42E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.76E-002	1.18E-001	1.51E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.16E-002	1.10E-001	2.01E-001
TL-208	2.17E-001	1.16E-001	1.43E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			4.77E-001	2.13E-001	4.38E-001
BI-214	5.14E-001	1.37E+000	3.70E-001	FOUND		
PB-214	6.03E-001	7.50E-001	3.93E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.63E-001	1.82E+000	3.37E+000
AC-228	NOT FOUND/DATA for 911.21 keV			4.92E-001	4.23E-001	9.42E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-2.01E+001	2.76E+001	4.66E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.68E+000	3.00E+000	5.54E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.00E-001	3.55E-001	5.39E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.90E-001	1.40E+001	2.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.79E-001	1.33E+000	2.39E+000
U-234	NOT FOUND/DATA for 53.20 keV			4.44E+001	2.12E+002	3.82E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.25E-002	1.12E-001	2.07E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.79E-001	1.33E+000	2.39E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.01E-002	4.32E-001	7.75E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-154
Sample Title: B5-B17 I/W Trench Bottom - #10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.369E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 12:58:12 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.43E+001	7.90E+000	1.78E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.28E-002	7.62E-002	1.69E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.63E-002	7.78E-002	1.26E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.61E-002	7.19E-002	1.57E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.16E-001	1.96E-001	2.60E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.55E-002	8.41E-002	1.49E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.46E-001	2.30E-001	4.66E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.75E-002	8.70E-002	1.31E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.92E-002	9.95E-002	1.94E-001
TL-208	5.01E-001	1.38E-001	1.81E-001	FOUND		
PB-212	2.28E+000	4.53E-001	4.28E-001	FOUND		
BI-214	6.63E-001	1.03E+000	3.24E-001	FOUND		
PB-214	9.17E-001	2.63E-001	4.04E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.16E+000	1.94E+000	3.73E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.29E+000	4.58E-001	1.09E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.38E+000	3.27E+001	6.06E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.71E+000	3.38E+000	6.00E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.43E-001	3.37E-001	5.45E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.92E-001	1.24E+001	2.21E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.10E-001	1.63E+000	2.77E+000
U-234	NOT FOUND/DATA for 53.20 keV			-9.81E+001	2.43E+002	4.26E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.32E-001	1.19E-001	2.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.10E-001	1.63E+000	2.77E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.24E-001	5.84E-001	1.05E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-155
Sample Title: B17 IW Trench Soil # 11
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.232E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/21/2005 12:21:16 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.89E+001	1.22E+001	2.64E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			8.41E-002	9.50E-002	2.26E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.68E-002	7.94E-002	1.36E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			6.67E-002	1.05E-001	2.48E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.66E-002	2.33E-001	4.76E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-1.59E-002	1.19E-001	2.45E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.54E-004	2.36E-001	4.46E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.51E-003	9.16E-002	1.78E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.61E-002	1.06E-001	2.00E-001
TL-208	NOT FOUND/DATA for 583.19 keV			1.81E-001	1.39E-001	3.03E-001
PB-212	NOT FOUND/DATA for 238.63 keV			5.57E-001	2.34E-001	4.95E-001
BI-214	6.39E-001	2.65E-001	4.06E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			3.61E-001	2.89E-001	5.93E-001
RA-226	NOT FOUND/DATA for 186.10 keV			1.05E+000	2.05E+000	3.96E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.17E+000	5.80E-001	1.40E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.49E+001	4.01E+001	7.31E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.87E-001	3.57E+000	6.43E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.67E-002	3.74E-001	6.45E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.19E+000	1.82E+001	3.28E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.20E-001	1.61E+000	2.92E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.13E+002	3.34E+002	6.61E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.11E-001	1.26E-001	2.52E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.20E-001	1.61E+000	2.92E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.44E-001	5.67E-001	9.50E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-156
Sample Title: B5-B17 I/W Trench Bottom - #12
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.436E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 1:20:41 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.14E+001	3.34E+000	2.03E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.04E-003	9.16E-002	1.78E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.88E-003	8.30E-002	1.43E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			8.68E-003	7.92E-002	1.56E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.57E-002	2.11E-001	3.68E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.23E-002	9.43E-002	1.69E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.04E-001	2.83E-001	5.56E-001
CS-134	NOT FOUND/DATA for 795.84 keV			-4.03E-002	9.41E-002	1.66E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.09E-002	1.17E-001	2.32E-001
TL-208	3.29E-001	1.31E-001	2.21E-001	FOUND		
PB-212	1.48E+000	5.94E-001	4.15E-001	FOUND		
BI-214	8.15E-001	1.03E+000	4.08E-001	FOUND		
PB-214	6.22E-001	2.47E-001	4.36E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.66E+000	2.11E+000	4.23E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.08E-001	4.76E-001	1.10E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.38E+001	4.01E+001	6.92E+001
PA-231	NOT FOUND/DATA for 300.02 keV			6.88E-001	3.36E+000	5.92E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.17E-001	3.75E-001	6.11E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.89E+000	1.45E+001	2.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			9.47E-001	1.53E+000	2.79E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.92E+002	3.31E+002	6.33E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.39E-001	1.28E-001	2.49E-001
U-238	NOT FOUND/DATA for 92.60 keV			9.47E-001	1.53E+000	2.79E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.02E-002	5.15E-001	9.89E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-157
Sample Title: B5-B17 I/W Trench Bottom - #13
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.790E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 1:42:14 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.69E+001	7.70E+000	2.01E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.14E-002	6.36E-002	1.03E-001
CO-57	NOT FOUND/DATA for 122.06 keV			6.08E-002	7.23E-002	1.32E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.42E-002	7.47E-002	1.65E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.79E-002	1.38E-001	2.62E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-4.91E-002	1.12E-001	8.26E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-2.31E-001	2.22E-001	3.55E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.04E-002	7.47E-002	1.19E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.53E-002	8.74E-002	1.68E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.34E-001	1.16E-001	2.52E-001
PB-212	5.68E-001	1.94E-001	3.66E-001	FOUND		
BI-214	6.08E-001	1.98E-001	3.31E-001	FOUND		
PB-214	7.29E-001	3.05E-001	3.52E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.73E+000	1.68E+000	3.25E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.93E-001	4.83E-001	1.07E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.58E+001	2.93E+001	5.68E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.81E-001	2.79E+000	5.00E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-3.00E-001	3.05E-001	4.47E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.99E-001	1.33E+001	2.56E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.26E-001	1.43E+000	2.40E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.92E+001	2.47E+002	4.63E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.44E-001	1.05E-001	2.06E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.26E-001	1.43E+000	2.40E+000
AM-241	NOT FOUND/DATA for 59.54 keV			4.24E-001	4.79E-001	9.56E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-158
Sample Title: B5-B17 I/W Trench Bottom - #14
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.870E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 1:58:00 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.98E+001	9.65E+000	2.36E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.26E-002	7.43E-002	1.38E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.64E-003	7.57E-002	1.28E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.66E-002	9.02E-002	2.01E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			4.28E-002	1.69E-001	3.56E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.28E-003	9.22E-002	1.57E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.84E-001	2.47E-001	4.92E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.98E-002	8.00E-002	1.40E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.24E-002	9.50E-002	1.84E-001
TL-208	2.67E-001	1.07E-001	2.15E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			6.78E-001	2.14E-001	4.44E-001
BI-214	5.50E-001	2.23E-001	3.75E-001	FOUND		
PB-214	5.57E-001	7.49E-001	3.13E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.01E+000	1.78E+000	3.39E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.20E-001	4.87E-001	1.07E+000
TH-230	NOT FOUND/DATA for 67.67 keV			9.35E+000	3.27E+001	6.00E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.40E+000	2.74E+000	5.01E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-5.56E-002	3.32E-001	5.52E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.08E+001	1.38E+001	2.93E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.98E-001	1.45E+000	2.54E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.83E+001	2.56E+002	4.89E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.60E-002	1.10E-001	2.04E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.98E-001	1.45E+000	2.54E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-8.69E-002	5.20E-001	9.49E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-159
Sample Title: B5-B17 I/W Trench Bottom - #15
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.709E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 2:23:36 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.78E+001	2.80E+000	2.31E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.26E-002	6.80E-002	1.50E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.19E-002	7.31E-002	1.19E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.65E-002	8.43E-002	1.84E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.88E-002	1.71E-001	2.98E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-2.56E-002	6.59E-002	1.22E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.04E-001	2.09E-001	3.70E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.80E-002	7.61E-002	1.25E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.45E-002	9.01E-002	1.96E-001
TL-208	2.83E-001	3.41E-001	1.58E-001	FOUND		
PB-212	7.07E-001	2.13E-001	4.07E-001	FOUND		
BI-214	8.09E-001	2.30E-001	3.20E-001	FOUND		
PB-214	6.23E-001	2.12E-001	3.51E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.75E+000	1.77E+000	3.41E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.72E-001	4.50E-001	1.00E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.93E+001	3.35E+001	6.48E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.66E-001	2.79E+000	4.99E+000
PA-234	NOT FOUND/DATA for 883.24 keV			0.00E+000	0.00E+000	1.47E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.02E+000	1.23E+001	2.36E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.65E+000	1.56E+000	2.84E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.10E+001	2.45E+002	4.62E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.74E-002	1.06E-001	1.96E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.65E+000	1.56E+000	2.84E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.25E-001	4.88E-001	8.75E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-160
Sample Title: B5-B17 I/W Trench Bottom - #16
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.933E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 2:43:36 PM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.72E+001	7.64E+000	1.77E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.32E-002	5.71E-002	1.40E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.90E-002	6.57E-002	1.19E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.04E-002	6.87E-002	1.53E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.28E-002	1.76E-001	3.30E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.71E-002	7.71E-002	1.33E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.16E-001	2.05E-001	4.36E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.35E-002	7.80E-002	1.40E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.04E-002	7.83E-002	1.65E-001
TL-208	3.44E-001	3.87E-001	1.65E-001	FOUND		
PB-212	1.35E+000	5.42E-001	4.33E-001	FOUND		
BI-214	9.07E-001	2.36E-001	2.36E-001	FOUND		
PB-214	7.11E-001	2.36E-001	3.92E-001	FOUND		
RA-226	2.01E+000	1.31E+000	2.64E+000	FOUND		
AC-228	NOT FOUND/DATA for 911.21 keV			7.96E-001	4.37E-001	9.70E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-2.25E+000	3.17E+001	5.70E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.53E+000	3.12E+000	5.57E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.11E-001	3.31E-001	4.75E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.09E+000	9.67E+000	1.89E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.46E-001	1.45E+000	2.56E+000
U-234	NOT FOUND/DATA for 53.20 keV			-6.59E+001	2.32E+002	4.13E+002
U-235	1.22E-001	7.98E-002	1.61E-001	FOUND		
U-238	NOT FOUND/DATA for 92.60 keV			7.46E-001	1.45E+000	2.56E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.15E-001	5.42E-001	1.03E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-161
Sample Title: B5-B17 I/W Trench Bottom - #17
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.771E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 3:03:47 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.38E+001	7.44E+000	1.10E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.79E-003	7.08E-002	1.41E-001
CO-57	NOT FOUND/DATA for 122.06 keV			6.20E-003	6.65E-002	1.15E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.94E-002	8.76E-002	1.78E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.56E-002	2.13E-001	3.45E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-2.41E-002	7.87E-002	1.41E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.29E-001	2.02E-001	3.39E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.43E-002	6.44E-002	1.06E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.33E-002	9.84E-002	1.84E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.73E-001	1.19E-001	2.62E-001
PB-212	8.40E-001	1.76E-001	3.61E-001	FOUND		
BI-214	4.65E-001	1.83E-001	2.93E-001	FOUND		
PB-214	6.17E-001	1.98E-001	3.30E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.92E+000	1.68E+000	3.28E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.07E+000	4.98E-001	1.11E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-6.05E+000	3.01E+001	5.43E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.23E+000	2.96E+000	5.14E+000
PA-234	NOT FOUND/DATA for 131.20 keV			7.32E-002	2.66E-001	4.65E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			5.58E+000	1.25E+001	2.71E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.58E-001	1.44E+000	2.54E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.85E+001	2.31E+002	4.25E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.48E-002	1.03E-001	1.96E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.58E-001	1.44E+000	2.54E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.21E-001	4.85E-001	9.53E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-162
Sample Title: B5-B17 I/W Trench Bottom - #18
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.042E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 3:38:03 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.78E+001	6.97E+000	2.04E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.66E-002	6.08E-002	1.32E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-9.19E-002	7.73E-002	1.15E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			4.00E-002	6.81E-002	1.54E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.46E-002	1.89E-001	3.49E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.45E-003	7.24E-002	1.35E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.89E-002	2.01E-001	3.89E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.08E-002	5.59E-002	1.14E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.13E-002	8.27E-002	1.62E-001
TL-208	4.27E-001	1.22E-001	1.50E-001	FOUND		
PB-212	7.91E-001	2.14E-001	3.94E-001	FOUND		
BI-214	5.14E-001	1.91E-001	3.18E-001	FOUND		
PB-214	6.29E-001	1.73E-001	3.88E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.00E+000	1.85E+000	3.53E+000
AC-228	9.81E-001	3.01E-001	4.33E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-4.92E-001	2.89E+001	5.34E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.52E+000	2.94E+000	5.27E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.44E-001	2.94E-001	4.56E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.10E+000	1.19E+001	2.36E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-5.60E-001	1.46E+000	2.39E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.22E+002	2.48E+002	4.27E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.42E-002	1.12E-001	2.11E-001
U-238	NOT FOUND/DATA for 92.60 keV			-5.60E-001	1.46E+000	2.39E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.13E-001	4.98E-001	8.60E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-163
Sample Title: B5-B17 I/W Trench Bottom - #19
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.168E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 3:56:57 PM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: PINT_SOIL_500G

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.97E+001	3.03E+000	2.83E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.86E-002	1.06E-001	1.33E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.49E-002	7.82E-002	1.30E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.62E-002	8.54E-002	1.90E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.50E-001	2.96E-001	3.17E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.54E-002	8.30E-002	1.66E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-4.26E-002	2.47E-001	4.38E-001
CS-134	NOT FOUND/DATA for 604.70 keV			2.35E-003	1.10E-001	1.93E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.88E-002	1.06E-001	2.15E-001
TL-208	3.25E-001	1.24E-001	2.35E-001	FOUND		
PB-212	1.16E+000	2.35E-001	4.46E-001	FOUND		
BI-214	6.25E-001	2.46E-001	4.45E-001	FOUND		
PB-214	8.66E-001	3.21E-001	4.91E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.57E+000	2.16E+000	4.20E+000
AC-228	1.29E+000	4.44E-001	4.92E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			4.01E+000	3.04E+001	5.65E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.02E+000	3.60E+000	6.46E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.35E-001	3.60E-001	5.25E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.59E-001	1.27E+001	2.50E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.25E-001	1.46E+000	2.53E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.01E+002	1.95E+002	3.78E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.41E-002	1.32E-001	2.47E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.25E-001	1.46E+000	2.53E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.56E-002	4.28E-001	7.71E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-164
Sample Title: B5-B17 I/W Trench Bottom - #20
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 4.656E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 4:17:41 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: PINT_SOIL_500G

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.74E+001	9.94E+000	1.63E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.23E-002	9.40E-002	1.66E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.48E-003	9.06E-002	1.54E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			8.22E-002	1.20E-001	2.65E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.96E-002	1.92E-001	3.75E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.46E-002	9.71E-002	1.84E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.01E-001	2.26E-001	4.03E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.49E-002	9.83E-002	1.62E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.66E-001	1.27E-001	2.80E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.39E-001	1.49E-001	3.16E-001
PB-212	1.74E+000	6.22E-001	4.81E-001	FOUND		
BI-214	1.11E+000	2.96E-001	3.99E-001	FOUND		
PB-214	1.05E+000	3.04E-001	4.61E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.41E+000	2.19E+000	4.16E+000
AC-228	1.46E+000	1.27E+000	7.23E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-5.72E+000	3.39E+001	6.14E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.69E-001	3.68E+000	6.51E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.10E-001	3.36E-001	5.96E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.99E+000	2.18E+001	3.96E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.07E+000	1.76E+000	3.10E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.60E+001	2.20E+002	4.25E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.14E-002	1.32E-001	2.53E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.07E+000	1.76E+000	3.10E+000
AM-241	NOT FOUND/DATA for 59.54 keV			9.95E-002	4.57E-001	8.68E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-165
Sample Title: B5-B17 I/W Trench Bottom - #21
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.088E+002 g
Sample Taken On: 1/19/2005 12:00:00 PM
Acquisition Started: 1/24/2005 4:55:07 PM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.15 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.95E+001	3.15E+000	2.68E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.51E-002	7.24E-002	1.24E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.66E-003	7.73E-002	1.32E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.39E-003	7.57E-002	1.52E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.03E-001	1.58E-001	3.45E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			7.83E-003	8.55E-002	1.64E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.11E-001	2.50E-001	4.97E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.85E-002	9.33E-002	1.42E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.30E-001	1.11E-001	2.37E-001
TL-208	4.28E-001	1.32E-001	2.11E-001	FOUND		
PB-212	1.15E+000	6.74E-001	3.80E-001	FOUND		
BI-214	1.14E+000	2.77E-001	2.81E-001	FOUND		
PB-214	1.24E+000	4.07E-001	4.32E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-2.59E-001	2.04E+000	3.65E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.00E+000	4.60E-001	1.07E+000
TH-230	NOT FOUND/DATA for 67.67 keV			7.52E+000	3.65E+001	6.86E+001
PA-231	NOT FOUND/DATA for 300.02 keV			7.15E-001	3.31E+000	5.84E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.03E-001	3.63E-001	5.97E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.47E+000	1.69E+001	2.98E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.88E-001	1.73E+000	2.97E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.25E+001	3.02E+002	5.66E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.45E-003	1.24E-001	2.24E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.88E-001	1.73E+000	2.97E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.32E-001	5.47E-001	9.64E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-167
Sample Title: B5-B17 I/W Spoils Sanitary Lines - #1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.299E+002 g
Sample Taken On: 4/1/2004 12:00:00 PM
Acquisition Started: 1/25/2005 7:04:27 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: PINT_SOIL_500G

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.20E+001	9.33E+000	2.08E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.41E-002	1.39E-001	2.49E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.06E-004	1.70E-001	2.88E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.27E-002	1.02E-001	2.18E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.61E-001	4.66E-001	7.59E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.43E-001	2.52E-001	3.54E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.70E-003	3.08E-001	5.75E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.97E-001	1.25E-001	1.72E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.42E-001	1.20E-001	2.55E-001
TL-208	4.35E-001	4.19E-001	1.59E-001	FOUND		
PB-212	7.98E-001	2.02E-001	4.25E-001	FOUND		
BI-214	1.25E+000	2.74E-001	3.29E-001	FOUND		
PB-214	1.03E+000	7.92E-001	5.11E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.17E+000	2.03E+000	3.78E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.51E-001	4.44E-001	1.03E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.66E+001	2.99E+001	5.15E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.98E+000	3.45E+000	6.12E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.72E-001	3.22E-001	4.91E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.58E+001	1.49E+001	2.27E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.11E-001	1.44E+000	2.55E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.36E+001	1.96E+002	3.68E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.58E-002	1.23E-001	2.35E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.11E-001	1.44E+000	2.55E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.54E-002	4.27E-001	7.85E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0501-168
Sample Title: B5-B17 I/W Spoils Sanitary Lines - #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.308E+002 g
Sample Taken On: 4/1/2004 12:00:00 PM
Acquisition Started: 1/25/2005 7:37:44 AM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.82E+001	2.83E+000	1.97E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.50E-002	1.59E-001	3.16E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.37E-001	1.76E-001	2.77E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.98E-002	7.51E-002	1.87E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.24E-001	5.98E-001	8.03E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.83E-001	1.89E-001	2.63E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.66E-003	2.60E-001	4.96E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.03E-001	1.08E-001	1.46E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.96E-002	9.99E-002	2.04E-001
TL-208	2.04E-001	1.03E-001	2.06E-001	FOUND		
PB-212	1.21E+000	6.39E-001	3.00E-001	FOUND		
BI-214	8.65E-001	2.47E-001	3.58E-001	FOUND		
PB-214	9.43E-001	2.18E-001	4.62E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.25E+000	2.02E+000	3.74E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.08E-001	4.25E-001	9.76E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-3.16E-001	4.09E+001	7.21E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.16E+000	2.66E+000	4.82E+000
PA-234	NOT FOUND/DATA for 883.24 keV			-1.62E-001	4.03E-001	6.93E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.02E+000	1.53E+001	3.19E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.48E+000	1.60E+000	2.90E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.29E+002	2.76E+002	4.54E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.57E-001	1.26E-001	2.43E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.48E+000	1.60E+000	2.90E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.36E-001	5.43E-001	9.75E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-169
Sample Title: B5-B17 I/W Under Manhole 18 - #3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.968E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 1:17:30 PM
Live Time: 1800.0 seconds
Real Time: 1802.9 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.23E+001	4.89E+000	1.05E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.82E-002	4.71E-002	9.58E-002
CO-57	NOT FOUND/DATA for 122.06 keV			2.23E-002	5.04E-002	8.62E-002
CO-60	NOT FOUND/DATA for 1332.50 keV			3.65E-002	4.75E-002	1.05E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-8.49E-002	1.28E-001	1.76E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.11E-002	5.69E-002	9.87E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-4.59E-002	1.52E-001	2.59E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.94E-002	5.20E-002	7.82E-002
CS-137	NOT FOUND/DATA for 661.66 keV			-1.59E-002	6.56E-002	1.16E-001
TL-208	3.69E-001	8.64E-002	1.45E-001	FOUND		
PB-212	1.04E+000	1.95E-001	2.32E-001	FOUND		
BI-214	9.49E-001	3.04E-001	2.47E-001	FOUND		
PB-214	7.00E-001	1.44E-001	2.98E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.24E+000	1.21E+000	2.24E+000
AC-228	9.47E-001	2.54E-001	3.45E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			4.24E+000	2.29E+001	4.12E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.73E+000	2.16E+000	3.64E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-5.44E-002	2.20E-001	3.57E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.99E+000	9.26E+000	1.89E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.79E+000	1.08E+000	1.91E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.70E+002	1.82E+002	2.85E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.63E-002	7.33E-002	1.33E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.79E+000	1.08E+000	1.91E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.11E-001	3.68E-001	5.88E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-171
Sample Title: B5-B17 I/W Spoils Sanitary Lines - #5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.137E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 7:57:51 AM
Live Time: 900.0 seconds
Real Time: 901.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.53E+001	9.40E+000	2.02E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.72E-002	8.54E-002	1.72E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.44E-002	7.63E-002	1.25E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-1.96E-002	1.15E-001	1.77E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.85E-002	2.11E-001	3.91E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.73E-002	8.62E-002	1.51E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.98E-001	2.35E-001	4.81E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.55E-002	8.05E-002	1.35E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.23E-002	1.01E-001	2.05E-001
TL-208	3.81E-001	2.17E-001	1.86E-001	FOUND		
PB-212	1.37E+000	3.71E-001	3.98E-001	FOUND		
BI-214	1.14E+000	7.91E-001	3.48E-001	FOUND		
PB-214	8.88E-001	3.11E-001	3.79E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.66E+000	1.84E+000	3.66E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.93E-001	5.08E-001	1.14E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-8.60E-001	3.28E+001	6.03E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.20E+000	3.43E+000	5.91E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.77E-001	3.61E-001	5.56E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.63E+000	1.70E+001	3.07E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.22E+000	1.55E+000	2.80E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.04E+002	2.88E+002	4.86E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.25E-001	1.13E-001	2.20E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.22E+000	1.55E+000	2.80E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.21E-002	5.19E-001	9.40E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-172
Sample Title: B5-B17 I/W Spoils Sanitary Lines - #6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.796E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 8:15:58 AM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.82E+001	7.26E+000	1.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.83E-002	7.92E-002	1.11E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.20E-002	6.65E-002	1.12E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.58E-002	8.07E-002	1.81E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-8.94E-003	1.41E-001	2.79E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-6.77E-002	7.88E-002	1.30E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.23E-003	2.30E-001	4.29E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.19E-002	7.70E-002	1.27E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.19E-001	9.82E-002	2.12E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.04E-001	1.29E-001	2.80E-001
PB-212	8.64E-001	2.00E-001	3.00E-001	FOUND		
BI-214	9.79E-001	6.64E-001	3.05E-001	FOUND		
PB-214	6.82E-001	2.28E-001	4.38E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.28E+000	1.89E+000	3.64E+000
AC-228	1.04E+000	3.13E-001	5.33E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			5.36E+000	3.39E+001	6.21E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.08E+000	3.05E+000	5.40E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.59E-001	3.49E-001	5.06E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.37E+000	1.24E+001	2.77E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.05E+000	1.55E+000	2.75E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.29E+002	2.56E+002	4.36E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.24E-002	1.15E-001	2.15E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.05E+000	1.54E+000	2.75E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.53E-001	5.99E-001	1.04E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-173
Sample Title: B5-B17 I/W Trench Bottom - #7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.977E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 8:39:49 AM
Live Time: 900.0 seconds
Real Time: 901.6 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.60E+001	1.09E+001	2.54E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.02E-002	8.48E-002	1.43E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.21E-002	7.71E-002	1.33E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.09E-001	9.64E-002	2.35E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-7.02E-002	2.36E-001	4.00E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.74E-003	8.76E-002	1.54E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.80E-002	1.91E-001	3.78E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.93E-002	8.21E-002	1.43E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.14E-002	9.93E-002	1.91E-001
TL-208	2.88E-001	1.08E-001	2.01E-001	FOUND		
PB-212	9.16E-001	1.88E-001	3.80E-001	FOUND		
BI-214	7.33E-001	7.35E-001	3.39E-001	FOUND		
PB-214	9.81E-001	2.38E-001	3.66E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.47E+000	1.89E+000	3.61E+000
AC-228	1.15E+000	4.92E-001	6.99E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.40E+001	3.46E+001	5.78E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.02E+000	3.19E+000	4.93E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.33E-001	2.99E-001	5.33E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.70E+000	1.30E+001	2.75E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.15E+000	1.52E+000	2.74E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.38E+002	2.83E+002	4.89E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.32E-002	1.14E-001	2.18E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.15E+000	1.52E+000	2.74E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.78E-001	5.61E-001	9.87E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-174
Sample Title: B5-B17 I/W Trench Bottom - #8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.212E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 9:04:06 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.58E+001	6.35E+000	1.68E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.58E-002	5.51E-002	1.13E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.09E-002	5.93E-002	1.04E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-8.62E-003	6.81E-002	1.29E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.42E-001	1.69E-001	2.67E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.11E-002	6.18E-002	1.16E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.16E-002	1.48E-001	2.76E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.85E-002	6.23E-002	1.05E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.23E-002	7.31E-002	1.54E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.23E-001	9.57E-002	2.12E-001
PB-212	5.93E-001	1.64E-001	2.82E-001	FOUND		
BI-214	5.30E-001	8.85E-001	2.50E-001	FOUND		
PB-214	3.86E-001	1.29E-001	2.55E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.72E-001	1.56E+000	2.87E+000
AC-228	8.16E-001	1.00E-001	4.62E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			6.07E+000	2.91E+001	5.34E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-6.18E-001	2.27E+000	3.81E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.30E-001	2.64E-001	4.19E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.00E+001	9.70E+000	2.29E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.20E+000	1.12E+000	2.07E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.91E+001	2.01E+002	3.89E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.32E-002	9.56E-002	1.82E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.20E+000	1.12E+000	2.07E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.08E-001	3.53E-001	6.91E-001

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-175
Sample Title: B5-B17 I/W Trench Bottom - #9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.176E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 9:37:36 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.71E+001	6.51E+000	1.65E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.17E-002	5.96E-002	1.24E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.56E-002	7.18E-002	1.24E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.69E-002	7.89E-002	1.79E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.05E-002	1.92E-001	3.53E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.50E-002	5.77E-002	8.91E-002
SB-125	NOT FOUND/DATA for 427.89 keV			1.42E-004	1.99E-001	3.73E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.23E-001	8.21E-002	9.29E-002
CS-137	NOT FOUND/DATA for 661.66 keV			6.51E-002	7.76E-002	1.68E-001
TL-208	3.49E-001	4.46E-001	1.62E-001	FOUND		
PB-212	6.21E-001	5.70E-001	3.59E-001	FOUND		
BI-214	9.21E-001	4.88E-001	2.94E-001	FOUND		
PB-214	6.88E-001	1.81E-001	3.58E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.47E+000	1.77E+000	3.33E+000
AC-228	NOT FOUND/DATA for 911.21 keV			6.11E-001	3.68E-001	8.22E-001
TH-230	NOT FOUND/DATA for 67.67 keV			2.56E+000	2.98E+001	5.37E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.18E-001	2.77E+000	4.61E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-6.91E-002	2.80E-001	4.63E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.36E+000	1.12E+001	2.32E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.62E+000	1.34E+000	2.48E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.54E+002	2.54E+002	4.32E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.27E-002	1.04E-001	1.96E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.62E+000	1.34E+000	2.48E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.07E-001	4.61E-001	8.31E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-176
Sample Title: B5-B17 I/W Trench Bottom - #10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.276E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 9:59:51 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.82E+001	7.77E+000	2.38E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.67E-003	6.61E-002	1.20E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.27E-002	7.75E-002	1.36E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			8.93E-002	9.14E-002	2.09E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.63E-002	1.47E-001	2.83E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			4.00E-002	7.68E-002	1.61E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.85E-001	2.11E-001	4.46E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.04E-002	7.33E-002	1.28E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.93E-002	8.67E-002	1.77E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.02E-001	1.17E-001	2.52E-001
PB-212	8.04E-001	3.34E-001	3.74E-001	FOUND		
BI-214	6.35E-001	2.18E-001	2.99E-001	FOUND		
PB-214	4.97E-001	2.05E-001	3.88E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			7.95E-001	1.80E+000	3.36E+000
AC-228	NOT FOUND/DATA for 911.21 keV			6.73E-001	4.05E-001	9.25E-001
TH-230	NOT FOUND/DATA for 67.67 keV			-2.19E+001	3.25E+001	5.50E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.12E+000	2.88E+000	5.13E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.03E-001	3.10E-001	5.02E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.77E-001	1.34E+001	2.65E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.51E-001	1.49E+000	2.57E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.78E+002	2.59E+002	4.32E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.04E-001	1.11E-001	2.14E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.51E-001	1.49E+000	2.57E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.67E-001	4.60E-001	9.05E-001

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-177
Sample Title: B5-B17 I/W Trench Bottom - #11
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.176E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 11:06:25 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.17 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.69E+001	7.13E+000	1.34E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.51E-002	5.24E-002	1.18E-001
CO-57	NOT FOUND/DATA for 122.06 keV			8.72E-003	6.01E-002	1.05E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.61E-002	6.80E-002	1.29E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.10E-001	1.95E-001	2.48E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.20E-002	6.81E-002	1.28E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-7.57E-002	1.57E-001	2.83E-001
CS-134	NOT FOUND/DATA for 604.70 keV			4.31E-002	6.81E-002	1.42E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.88E-002	8.94E-002	1.80E-001
TL-208	3.06E-001	3.50E-001	1.31E-001	FOUND		
PB-212	8.01E-001	1.75E-001	2.90E-001	FOUND		
BI-214	6.05E-001	1.98E-001	2.44E-001	FOUND		
PB-214	5.60E-001	2.00E-001	3.85E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.09E+000	1.61E+000	3.16E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.01E-001	3.84E-001	8.70E-001
TH-230	NOT FOUND/DATA for 67.67 keV			1.77E+001	2.72E+001	5.37E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.31E+000	2.76E+000	4.96E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-4.38E-002	2.76E-001	4.63E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.13E+000	1.32E+001	2.62E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.68E-002	1.28E+000	2.15E+000
U-234	NOT FOUND/DATA for 53.20 keV			-6.90E+001	2.81E+002	4.45E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.33E-002	9.95E-002	1.90E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.68E-002	1.28E+000	2.15E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.97E-001	4.72E-001	7.34E-001

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0501-178
Sample Title: B5-B17 I/W Trench Bottom - #12
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.982E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 10:48:06 AM
Live Time: 900.0 seconds
Real Time: 901.5 seconds
Dead Time: 0.16 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.16E+001	6.85E+000	1.89E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.15E-002	7.44E-002	1.33E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.68E-002	7.99E-002	1.25E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.39E-002	6.61E-002	1.61E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.41E-001	2.38E-001	3.40E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	1.17E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.13E-002	2.25E-001	3.83E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.55E-002	7.69E-002	1.24E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.68E-002	8.87E-002	1.81E-001
TL-208	3.38E-001	2.01E-001	1.88E-001	FOUND		
PB-212	1.04E+000	4.41E-001	3.89E-001	FOUND		
BI-214	8.20E-001	7.44E-001	3.61E-001	FOUND		
PB-214	8.95E-001	2.09E-001	3.86E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.40E+000	2.00E+000	3.87E+000
AC-228	9.84E-001	4.88E-001	5.65E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.45E+000	3.54E+001	6.22E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.56E-002	3.03E+000	5.26E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.15E-001	3.03E-001	4.71E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.61E+000	1.37E+001	2.88E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.13E+000	1.60E+000	2.81E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.03E+002	2.63E+002	4.63E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.61E-001	1.19E-001	2.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.13E+000	1.59E+000	2.81E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.39E-001	5.35E-001	1.00E+000

Uncertainty reported at 2.0 sigma

C E R T I F I C A T E O F A N A L Y S I S

Site Location: CE Windsor
Sample ID: MAC-0501-179
Sample Title: B5-B17 I/W Under Manhole 18 - #13
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.842E+002 g
Sample Taken On: 1/20/2005 12:00:00 PM
Acquisition Started: 1/25/2005 12:40:38 PM
Live Time: 1800.0 seconds
Real Time: 1802.7 seconds
Dead Time: 0.15 %
Efficiency ID: 1_PINT_SOIL_FULL

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.55E+001	3.57E+000	9.71E-001	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.89E-003	3.67E-002	6.77E-002
CO-57	NOT FOUND/DATA for 122.06 keV			-3.01E-003	4.06E-002	6.76E-002
CO-60	NOT FOUND/DATA for 1173.24 keV			-8.07E-003	5.09E-002	9.05E-002
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.75E-002	8.89E-002	1.71E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.66E-003	3.70E-002	6.63E-002
SB-125	NOT FOUND/DATA for 427.89 keV			-3.22E-002	1.02E-001	1.83E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.40E-002	3.79E-002	6.16E-002
CS-137	NOT FOUND/DATA for 661.66 keV			1.95E-003	4.49E-002	8.29E-002
TL-208	2.41E-001	6.23E-002	1.12E-001	FOUND		
PB-212	6.47E-001	1.36E-001	1.89E-001	FOUND		
BI-214	5.89E-001	3.54E-001	1.74E-001	FOUND		
PB-214	6.57E-001	1.82E-001	2.25E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.54E+000	1.00E+000	1.87E+000
AC-228	7.66E-001	2.69E-001	2.70E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-1.18E+001	1.80E+001	3.08E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.44E+000	1.63E+000	2.77E+000
PA-234	NOT FOUND/DATA for 131.20 keV			6.40E-002	1.66E-001	2.77E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.70E+000	6.71E+000	1.17E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.33E+000	8.07E-001	1.44E+000
U-234	NOT FOUND/DATA for 53.20 keV			5.49E+001	1.32E+002	2.45E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.73E-002	6.06E-002	1.12E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.33E+000	8.06E-001	1.44E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.52E-002	2.68E-001	4.85E-001

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-267
Sample Title: b-17 spoils pile sample#1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.965E+002 G
Sample Taken On: 4/15/2005 11:15:00 AM
Acquisition Started: 4/15/2005 12:31:12 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/G)	Activity Uncert. (pCi/G)	Nuclide MDA (pCi/G)	Line Activity (pCi/G)	Line Act Uncert. (pCi/G)	Line MDA (pCi/G)
K-40	3.08E+001	5.07E+002	3.28E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.66E-003	9.70E-002	2.01E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.47E-002	9.30E-002	1.72E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.33E-002	1.12E-001	2.45E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-7.67E-002	2.11E-001	3.93E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.68E-002	8.48E-002	1.65E-001
SB-125	NOT FOUND/DATA for 427.89 keV			9.55E-002	2.63E-001	5.34E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.65E-003	8.42E-002	1.68E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.69E-002	1.18E-001	2.64E-001
TL-208	4.45E-001	4.72E-001	2.53E-001	FOUND		
PB-212	1.58E+000	6.49E-001	5.20E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			7.08E-001	3.24E-001	7.39E-001
PB-214	9.94E-001	1.19E+000	4.95E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.49E+000	2.35E+000	4.97E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.45E+000	6.72E-001	1.59E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-5.54E+001	4.36E+001	6.57E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.68E-001	3.63E+000	6.22E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.71E-001	4.20E-001	6.38E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.45E+000	1.70E+001	3.91E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.89E-001	1.83E+000	3.19E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.76E+002	3.63E+002	7.47E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.76E-001	1.42E-001	2.88E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.89E-001	1.83E+000	3.19E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.37E-001	6.39E-001	1.27E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-269
Sample Title: b-17 spoils pile sample#3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.793E+002 G
Sample Taken On: 4/15/2005 11:15:00 AM
Acquisition Started: 4/15/2005 12:44:14 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/G)	Activity Uncert. (pCi/G)	Nuclide MDA (pCi/G)	Line Activity (pCi/G)	Line Act Uncert. (pCi/G)	Line MDA (pCi/G)
K-40	2.74E+001	4.48E+000	2.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.19E-002	8.79E-002	1.94E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.02E-002	1.00E-001	1.75E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.39E-003	9.07E-002	2.06E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.68E-002	2.43E-001	5.04E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	2.19E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.50E-001	2.69E-001	4.74E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.43E-001	1.31E-001	1.73E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.70E-001	1.54E-001	3.36E-001
TL-208	4.27E-001	1.59E-001	2.38E-001	FOUND		
PB-212	1.50E+000	7.11E-001	4.87E-001	FOUND		
BI-214	7.61E-001	3.18E-001	5.27E-001	FOUND		
PB-214	1.06E+000	9.19E-001	5.15E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.53E+000	2.37E+000	4.89E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.00E+000	5.78E-001	1.38E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-6.15E+000	4.44E+001	8.02E+001
PA-231	NOT FOUND/DATA for 300.02 keV			0.00E+000	3.47E+000	6.25E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-3.78E-002	4.79E-001	8.11E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			5.67E+000	1.29E+001	3.20E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.38E+000	2.11E+000	3.96E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.66E+002	3.74E+002	7.42E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.52E-001	1.48E-001	2.92E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.38E+000	2.10E+000	3.96E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.50E-001	6.75E-001	1.33E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-357
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.992E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 11:45:34 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.81E+001	1.23E+001	2.74E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.15E-002	8.67E-002	1.61E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.05E-002	1.06E-001	1.87E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-3.94E-002	1.08E-001	2.01E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.44E-001	2.45E-001	4.31E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.92E-002	8.89E-002	1.66E-001
SB-125	NOT FOUND/DATA for 427.89 keV			7.25E-002	2.93E-001	5.80E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.51E-002	1.20E-001	1.77E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.09E-001	1.21E-001	2.71E-001
TL-208	3.52E-001	1.38E-001	2.07E-001	FOUND		
PB-212	1.01E+000	2.64E-001	5.48E-001	FOUND		
BI-214	1.43E+000	8.23E-001	4.95E-001	FOUND		
PB-214	8.52E-001	2.46E-001	4.97E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.67E-001	2.31E+000	4.33E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.99E-001	6.41E-001	1.37E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.24E+001	3.45E+001	6.81E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.00E+000	3.62E+000	6.65E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-4.97E-002	3.42E-001	5.90E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			5.83E+000	1.61E+001	3.65E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.00E-001	2.03E+000	3.45E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.03E+001	3.88E+002	7.33E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.17E-002	1.38E-001	2.63E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.00E-001	2.03E+000	3.45E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.69E-001	7.01E-001	1.27E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-358
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.960E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 11:56:16 AM
Live Time: 581.1 seconds
Real Time: 582.0 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.44E+001	4.19E+000	3.16E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-7.57E-002	1.17E-001	1.97E-001
CO-57	NOT FOUND/DATA for 122.06 keV			7.76E-002	1.07E-001	1.97E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			3.49E-002	1.31E-001	2.66E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.24E-001	2.68E-001	3.17E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.67E-002	9.38E-002	1.72E-001
SB-125	NOT FOUND/DATA for 427.89 keV			9.79E-002	2.99E-001	5.86E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.08E-002	1.15E-001	1.55E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-3.87E-003	1.14E-001	2.26E-001
TL-208	5.40E-001	1.66E-001	2.19E-001	FOUND		
PB-212	1.38E+000	5.44E-001	5.28E-001	FOUND		
BI-214	1.01E+000	1.86E+000	4.71E-001	FOUND		
PB-214	1.00E+000	3.08E-001	6.17E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.81E+000	2.49E+000	5.10E+000
AC-228	NOT FOUND/DATA for 911.21 keV			-3.48E-003	3.81E-001	1.77E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-7.43E+000	4.27E+001	7.84E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.55E+000	3.86E+000	7.24E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-3.67E-001	3.91E-001	4.64E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.44E+001	2.42E+001	3.23E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.70E+000	2.01E+000	3.86E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.95E+000	3.65E+002	6.96E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.61E-001	1.51E-001	3.15E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.70E+000	2.01E+000	3.86E+000
AM-241	NOT FOUND/DATA for 59.54 keV			4.06E-001	7.15E-001	1.43E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-359
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.874E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:06:27 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.52E+001	1.48E+001	2.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.12E-002	1.25E-001	2.57E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.23E-002	9.53E-002	1.70E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.46E-002	1.30E-001	2.61E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.03E-002	3.30E-001	5.30E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-8.55E-002	1.20E-001	2.12E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.83E-002	2.73E-001	5.25E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.34E-001	1.49E-001	1.96E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.65E-002	1.35E-001	2.59E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.82E-001	1.57E-001	3.55E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.11E+000	3.17E-001	6.66E-001
BI-214	NOT FOUND/DATA for 609.31 keV			8.32E-001	3.80E-001	8.32E-001
PB-214	1.07E+000	3.32E-001	6.04E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.33E+000	2.59E+000	4.92E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.38E+000	6.41E-001	1.54E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.54E-001	4.56E+001	8.37E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.35E+000	4.56E+000	8.18E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.28E-002	3.96E-001	6.91E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.13E+001	1.99E+001	4.39E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-9.30E-001	1.90E+000	3.10E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.66E+002	3.21E+002	5.31E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.53E-002	1.56E-001	2.94E-001
U-238	NOT FOUND/DATA for 92.60 keV			-9.30E-001	1.90E+000	3.10E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.04E-001	7.83E-001	1.50E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-360
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.189E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:17:46 PM
Live Time: 555.8 seconds
Real Time: 556.7 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.26E+001	1.29E+001	3.62E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.81E-002	1.16E-001	2.24E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.28E-001	1.09E-001	1.60E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.81E-002	9.87E-002	2.35E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.78E-001	3.55E-001	4.87E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.07E-003	7.93E-002	1.62E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.28E-001	2.42E-001	4.18E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.70E-002	1.10E-001	1.94E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.00E-002	1.14E-001	2.49E-001
TL-208	NOT FOUND/DATA for 583.19 keV			5.02E-001	2.17E-001	4.75E-001
PB-212	NOT FOUND/DATA for 238.63 keV			9.41E-001	3.06E-001	6.44E-001
BI-214	1.10E+000	3.51E-001	5.37E-001	FOUND		
PB-214	1.01E+000	7.87E-001	6.01E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.33E+000	2.51E+000	4.77E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.07E+000	5.82E-001	1.41E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.05E+000	4.26E+001	8.06E+001
PA-231	NOT FOUND/DATA for 302.65 keV			-1.14E+001	8.53E+000	6.54E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.04E-001	4.97E-001	6.58E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.80E+000	1.74E+001	3.27E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.02E+000	2.08E+000	3.74E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.17E+002	3.77E+002	7.57E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.61E-001	1.53E-001	3.04E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.02E+000	2.08E+000	3.74E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.86E-001	6.95E-001	1.12E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-361
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.810E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:27:31 PM
Live Time: 522.0 seconds
Real Time: 522.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.27E+001	1.28E+001	3.74E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.19E-001	1.33E-001	2.99E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.40E-002	1.16E-001	2.06E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.18E-002	1.21E-001	2.89E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.07E-001	2.06E-001	5.08E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.04E-002	1.50E-001	1.67E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.20E-001	2.92E-001	6.09E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.68E-002	9.23E-002	1.50E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.36E-002	1.34E-001	2.68E-001
TL-208	3.95E-001	1.68E-001	2.40E-001	FOUND		
PB-212	1.31E+000	4.93E-001	6.54E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			5.97E-001	3.38E-001	7.71E-001
PB-214	1.25E+000	3.47E-001	5.29E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.74E+000	2.61E+000	5.41E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.53E+000	7.40E-001	1.76E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.59E+001	4.44E+001	7.72E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.02E+000	3.78E+000	7.17E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.29E-001	5.14E-001	6.77E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.40E+001	2.13E+001	4.59E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.35E+000	2.12E+000	4.04E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.43E+002	4.21E+002	7.60E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.81E-002	1.65E-001	3.04E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.35E+000	2.12E+000	4.04E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.04E-001	7.83E-001	1.52E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-362
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.417E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:36:42 PM
Live Time: 502.4 seconds
Real Time: 503.2 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.34E+001	4.19E+000	2.68E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.57E-002	1.18E-001	2.64E-001
CO-57	NOT FOUND/DATA for 122.06 keV			8.42E-003	1.05E-001	1.85E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.63E-002	8.65E-002	1.95E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.54E-001	4.51E-001	3.98E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.22E-003	1.18E-001	2.31E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.89E-001	3.58E-001	6.00E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.82E-002	1.24E-001	2.16E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.61E-002	1.54E-001	3.22E-001
TL-208	4.19E-001	1.68E-001	2.57E-001	FOUND		
PB-212	1.18E+000	4.43E-001	4.62E-001	FOUND		
BI-214	9.53E-001	4.95E-001	5.49E-001	FOUND		
PB-214	8.85E-001	3.14E-001	5.32E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.90E+000	2.02E+000	4.33E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.33E+000	6.81E-001	1.62E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.77E+001	4.37E+001	8.77E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-8.18E-001	3.59E+000	6.26E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-4.46E-002	4.36E-001	7.30E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			5.01E+000	2.22E+001	4.63E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.44E-001	2.10E+000	3.65E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.65E+002	3.77E+002	7.55E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.99E-002	1.26E-001	2.56E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.44E-001	2.10E+000	3.65E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.59E-002	6.59E-001	1.24E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-363
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.011E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:45:32 PM
Live Time: 487.6 seconds
Real Time: 488.4 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.19E+001	1.22E+001	3.21E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.84E-002	1.69E-001	2.48E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.07E-001	9.91E-002	1.97E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.22E-001	1.47E-001	1.68E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.77E-002	3.00E-001	5.69E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			7.05E-002	1.10E-001	2.41E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.14E-002	2.87E-001	5.67E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.37E-001	1.56E-001	1.21E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.89E-002	1.05E-001	1.92E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.00E-001	2.08E-001	4.46E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.23E+000	3.51E-001	7.52E-001
BI-214	1.37E+000	1.46E+000	3.24E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.95E-001	4.15E-001	8.94E-001
RA-226	NOT FOUND/DATA for 186.10 keV			-8.22E-001	2.58E+000	4.59E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.79E+000	8.00E-001	1.91E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-7.40E+000	4.33E+001	8.03E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.45E+000	4.43E+000	8.17E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.05E-001	4.21E-001	6.67E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.44E+000	1.83E+001	4.17E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.14E+000	2.00E+000	3.86E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.45E+002	4.18E+002	5.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			-1.92E-003	1.57E-001	2.87E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.14E+000	2.00E+000	3.86E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.35E-001	7.44E-001	1.44E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-364
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.004E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 12:54:05 PM
Live Time: 561.4 seconds
Real Time: 562.3 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.98E+001	1.43E+001	2.99E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-9.02E-003	1.09E-001	1.88E-001
CO-57	NOT FOUND/DATA for 122.06 keV			8.18E-002	1.03E-001	1.93E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			8.94E-002	1.21E-001	2.99E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.02E-001	2.71E-001	3.77E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.40E-003	1.10E-001	2.10E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.12E-001	2.41E-001	5.51E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.01E-002	1.15E-001	1.88E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.99E-004	1.24E-001	2.43E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.39E-001	1.86E-001	4.25E-001
PB-212	NOT FOUND/DATA for 238.63 keV			9.75E-001	3.06E-001	6.48E-001
BI-214	7.98E-001	2.33E-001	5.25E-001	FOUND		
PB-214	9.85E-001	3.14E-001	5.67E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.09E+000	2.72E+000	5.37E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.23E+000	7.18E-001	1.64E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.76E+000	4.11E+001	7.68E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.19E+000	4.28E+000	7.88E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-5.25E-001	5.01E-001	6.57E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-7.26E+000	1.79E+001	3.32E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.27E-001	2.08E+000	3.62E+000
U-234	NOT FOUND/DATA for 53.20 keV			-9.25E+001	3.40E+002	6.26E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.06E-001	1.65E-001	3.26E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.27E-001	2.08E+000	3.62E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.56E-002	6.62E-001	1.23E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-365
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.429E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:04:46 PM
Live Time: 435.3 seconds
Real Time: 435.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.73E+001	1.90E+001	3.90E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.15E-002	1.31E-001	2.64E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.09E-001	1.47E-001	2.14E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-4.89E-002	1.67E-001	3.36E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.74E-001	3.97E-001	4.58E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.26E-001	1.48E-001	1.30E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.95E-002	3.34E-001	6.92E-001
CS-134	NOT FOUND/DATA for 604.70 keV			9.08E-003	1.30E-001	2.52E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.06E-001	1.48E-001	3.41E-001
TL-208	5.31E-001	1.99E-001	2.40E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.20E+000	4.01E-001	8.55E-001
BI-214	7.65E-001	3.62E-001	5.05E-001	FOUND		
PB-214	6.73E-001	5.36E-001	5.60E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-1.00E+000	2.92E+000	5.02E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.26E+000	7.31E-001	1.81E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.25E+001	5.13E+001	9.38E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.71E+000	5.01E+000	9.46E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-9.84E-001	8.48E-001	8.03E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.70E+000	2.57E+001	4.67E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.21E-001	2.39E+000	4.32E+000
U-234	NOT FOUND/DATA for 53.20 keV			4.69E+001	4.25E+002	8.33E+002
U-235	NOT FOUND/DATA for 185.71 keV			-7.72E-002	1.74E-001	3.00E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.21E-001	2.39E+000	4.32E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-7.21E-001	8.21E-001	1.38E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-366
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.832E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:12:28 PM
Live Time: 534.9 seconds
Real Time: 535.7 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.89E+001	1.52E+001	3.43E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.61E-003	1.19E-001	2.32E-001
CO-57	NOT FOUND/DATA for 122.06 keV			9.00E-003	9.84E-002	1.73E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-8.21E-002	1.15E-001	1.99E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-8.96E-002	2.21E-001	3.50E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	2.47E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.54E-001	2.96E-001	5.07E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.74E-002	1.15E-001	1.93E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.39E-002	8.19E-002	1.80E-001
TL-208	4.67E-001	1.69E-001	2.27E-001	FOUND		
PB-212	1.10E+000	2.63E-001	4.93E-001	FOUND		
BI-214	8.30E-001	1.76E+000	4.95E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.62E-001	3.91E-001	8.42E-001
RA-226	NOT FOUND/DATA for 186.10 keV			2.00E+000	2.62E+000	5.12E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.98E-001	6.92E-001	1.57E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.62E+000	4.36E+001	8.26E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.94E+000	4.20E+000	7.89E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.18E-001	4.44E-001	7.45E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.23E+000	2.40E+001	3.90E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.98E-001	2.16E+000	3.82E+000
U-234	NOT FOUND/DATA for 53.20 keV			-9.23E+001	4.37E+002	7.99E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.68E-002	1.56E-001	3.02E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.98E-001	2.16E+000	3.82E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.84E-001	6.99E-001	1.16E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-367
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #11
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.066E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:21:51 PM
Live Time: 581.6 seconds
Real Time: 582.6 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.36E+001	4.08E+000	3.34E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			8.35E-002	1.31E-001	2.76E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.78E-002	9.53E-002	1.60E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.53E-002	1.04E-001	2.50E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.71E-002	2.63E-001	4.73E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.01E-002	1.08E-001	2.01E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.77E-002	3.09E-001	5.92E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.34E-002	9.34E-002	1.80E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-4.38E-002	1.02E-001	1.88E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.95E-001	1.73E-001	3.80E-001
PB-212	NOT FOUND/DATA for 238.63 keV			9.56E-001	2.94E-001	6.23E-001
BI-214	NOT FOUND/DATA for 609.31 keV			8.87E-001	3.83E-001	8.43E-001
PB-214	8.22E-001	2.43E-001	6.06E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.18E+000	2.38E+000	4.55E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.69E+000	6.90E-001	1.66E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.88E+001	4.32E+001	8.18E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.05E+000	3.61E+000	6.68E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.34E-001	4.47E-001	7.20E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-3.70E+000	1.78E+001	3.47E+001
TH-234	NOT FOUND/DATA for 92.60 keV			5.20E-001	1.86E+000	3.31E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.58E+002	3.45E+002	5.83E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.24E-001	1.52E-001	2.95E-001
U-238	NOT FOUND/DATA for 92.60 keV			5.20E-001	1.86E+000	3.31E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.74E-001	6.72E-001	1.20E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-368
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #12
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.564E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:32:06 PM
Live Time: 301.3 seconds
Real Time: 301.7 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.31E+001	5.77E+000	3.51E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.44E-002	1.59E-001	3.07E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.07E-002	1.35E-001	2.49E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.67E-002	1.98E-001	4.36E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-9.59E-002	3.00E-001	5.13E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			2.06E-002	2.40E-001	3.82E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.21E-001	4.28E-001	8.92E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.57E-003	1.56E-001	3.17E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.10E-002	1.82E-001	4.16E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.88E-001	2.69E-001	5.92E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.20E+000	4.71E-001	1.02E+000
BI-214	7.40E-001	1.02E+000	6.73E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			7.25E-001	5.42E-001	1.15E+000
RA-226	NOT FOUND/DATA for 186.10 keV			4.69E+000	3.99E+000	8.37E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.34E+000	9.11E-001	2.29E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.71E+001	5.82E+001	1.09E+002
PA-231	NOT FOUND/DATA for 300.02 keV			1.52E-001	6.47E+000	1.18E+001
PA-234	NOT FOUND/DATA for 98.44 keV			-7.43E-002	6.07E-001	1.04E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.17E+001	3.81E+001	6.60E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.67E+000	3.29E+000	6.26E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.42E+002	5.08E+002	9.02E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.43E-001	2.43E-001	4.82E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.67E+000	3.29E+000	6.26E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.41E-001	9.14E-001	1.65E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-369
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #13
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.603E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:37:35 PM
Live Time: 301.5 seconds
Real Time: 302.1 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.95E+001	1.95E+001	4.77E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			0.00E+000	0.00E+000	7.67E-002
CO-57	NOT FOUND/DATA for 122.06 keV			8.41E-004	1.54E-001	2.73E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			0.00E+000	0.00E+000	1.06E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.27E-001	3.91E-001	7.46E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	4.53E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.80E-001	3.35E-001	6.01E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.02E-002	1.23E-001	1.64E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.54E-002	1.43E-001	3.30E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.89E-001	2.56E-001	5.74E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.10E+000	4.57E-001	9.89E-001
BI-214	NOT FOUND/DATA for 609.31 keV			1.17E+000	4.82E-001	1.25E+000
PB-214	NOT FOUND/DATA for 351.92 keV			7.86E-001	5.07E-001	1.12E+000
RA-226	NOT FOUND/DATA for 186.10 keV			1.94E+000	3.30E+000	6.66E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.06E-001	9.06E-001	2.13E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.38E+001	6.26E+001	1.35E+002
PA-231	NOT FOUND/DATA for 283.67 keV			-4.02E+000	7.67E+000	1.13E+001
PA-234	NOT FOUND/DATA for 98.44 keV			8.82E-002	4.66E-001	8.87E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-6.14E+000	4.43E+001	4.02E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.90E+000	3.05E+000	5.78E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.73E+002	5.41E+002	1.10E+003
U-235	NOT FOUND/DATA for 185.71 keV			1.06E-001	1.94E-001	3.97E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.90E+000	3.05E+000	5.78E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.03E-001	9.63E-001	1.79E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-370
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #14
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.304E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:43:04 PM
Live Time: 379.3 seconds
Real Time: 380.0 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.78E+001	1.93E+001	7.64E-001	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.62E-002	1.18E-001	2.67E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.47E-003	1.19E-001	2.10E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.09E-001	1.70E-001	3.98E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.35E-002	4.32E-001	6.52E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.65E-003	1.33E-001	2.68E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.68E-002	3.28E-001	6.03E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.02E-002	1.10E-001	1.49E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.85E-002	1.79E-001	3.58E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.04E-001	2.00E-001	4.58E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.03E+000	3.73E-001	8.02E-001
BI-214	8.57E-001	3.77E-001	5.18E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.31E-001	4.08E-001	9.18E-001
RA-226	NOT FOUND/DATA for 186.10 keV			1.42E+000	3.22E+000	6.20E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.19E+000	7.83E-001	1.87E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.52E+000	5.48E+001	9.25E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.86E+000	4.14E+000	7.99E+000
PA-234	NOT FOUND/DATA for 927.10 keV			0.00E+000	0.00E+000	5.38E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-8.34E+000	1.74E+001	2.89E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.58E+000	2.16E+000	4.15E+000
U-234	NOT FOUND/DATA for 53.20 keV			-7.10E+001	4.30E+002	8.16E+002
U-235	NOT FOUND/DATA for 185.71 keV			-9.89E-003	2.03E-001	3.63E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.58E+000	2.16E+000	4.15E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.52E-001	8.57E-001	1.58E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-371
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #15
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.191E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 1:49:55 PM
Live Time: 581.5 seconds
Real Time: 582.4 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.62E+001	1.29E+001	3.05E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.19E-002	9.63E-002	2.25E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.90E-002	1.07E-001	1.77E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.41E-002	1.06E-001	2.45E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-7.21E-002	2.52E-001	4.65E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.53E-002	1.12E-001	1.88E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.33E-001	2.62E-001	5.51E-001
CS-134	NOT FOUND/DATA for 604.70 keV			7.60E-003	9.21E-002	1.85E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.44E-002	1.28E-001	2.63E-001
TL-208	6.69E-001	2.72E-001	2.10E-001	FOUND		
PB-212	1.60E+000	6.65E-001	5.21E-001	FOUND		
BI-214	1.01E+000	8.77E-001	4.72E-001	FOUND		
PB-214	7.60E-001	2.83E-001	5.13E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.66E+000	2.63E+000	5.42E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.66E+000	7.08E-001	1.67E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.30E+001	4.02E+001	7.82E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.36E-001	3.68E+000	6.68E+000
PA-234	NOT FOUND/DATA for 98.44 keV			4.98E-002	4.06E-001	7.12E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.62E+000	1.91E+001	3.67E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.06E+000	1.82E+000	3.49E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.18E+002	3.85E+002	5.73E+002
U-235	NOT FOUND/DATA for 185.71 keV			5.33E-002	1.62E-001	3.02E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.06E+000	1.82E+000	3.49E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.15E-001	6.59E-001	1.23E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-372
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #16
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.034E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:00:10 PM
Live Time: 311.5 seconds
Real Time: 312.0 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.30E+001	5.02E+000	3.58E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.29E-002	1.44E-001	2.95E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.54E-002	1.25E-001	2.32E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			9.32E-002	1.91E-001	4.31E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.75E-002	2.68E-001	5.12E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.33E-002	1.79E-001	2.37E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.17E-002	3.65E-001	7.40E-001
CS-134	NOT FOUND/DATA for 795.84 keV			-1.63E-002	1.10E-001	2.35E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.33E-001	1.88E-001	4.12E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.42E-001	2.03E-001	4.57E-001
PB-212	NOT FOUND/DATA for 238.63 keV			7.98E-001	3.73E-001	7.92E-001
BI-214	7.34E-001	1.41E+000	5.02E-001	FOUND		
PB-214	1.05E+000	3.83E-001	5.81E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.67E+000	2.86E+000	5.61E+000
AC-228	NOT FOUND/DATA for 911.21 keV			2.10E+000	9.36E-001	2.34E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.67E+001	5.69E+001	1.16E+002
PA-231	NOT FOUND/DATA for 302.65 keV			-8.68E+000	8.13E+000	9.40E+000
PA-234	NOT FOUND/DATA for 883.24 keV			9.72E-002	3.67E-001	1.14E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			-8.69E+000	3.32E+001	3.20E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.22E+000	2.42E+000	4.95E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.98E+000	5.27E+002	1.01E+003
U-235	NOT FOUND/DATA for 185.71 keV			1.02E-001	1.63E-001	3.35E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.22E+000	2.42E+000	4.95E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.64E-001	7.99E-001	1.43E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-373
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #17
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.147E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:05:53 PM
Live Time: 474.0 seconds
Real Time: 474.7 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.56E+001	1.75E+001	2.42E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-9.51E-003	1.09E-001	2.18E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.09E-002	1.10E-001	1.82E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.00E-001	2.07E-001	2.14E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.10E-001	2.21E-001	5.34E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	2.66E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.73E-001	2.56E-001	4.30E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.78E-002	8.49E-002	1.85E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.43E-002	1.32E-001	2.82E-001
TL-208	2.39E-001	1.38E-001	2.13E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.35E+000	3.64E-001	7.81E-001
BI-214	NOT FOUND/DATA for 609.31 keV			7.79E-001	3.88E-001	8.79E-001
PB-214	NOT FOUND/DATA for 351.92 keV			7.66E-001	3.55E-001	7.91E-001
RA-226	NOT FOUND/DATA for 186.10 keV			2.40E+000	2.84E+000	5.57E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.66E-002	5.40E-001	1.82E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.44E+000	4.41E+001	8.27E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.00E+000	4.24E+000	7.96E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.88E-001	4.49E-001	7.41E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.20E+001	2.38E+001	5.59E+001
TH-234	NOT FOUND/DATA for 92.60 keV			4.19E-001	1.99E+000	3.53E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.32E+002	4.39E+002	8.62E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.27E-002	1.69E-001	3.19E-001
U-238	NOT FOUND/DATA for 92.60 keV			4.19E-001	1.99E+000	3.53E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.32E-001	9.09E-001	1.76E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-374
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #18
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.969E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:14:16 PM
Live Time: 323.3 seconds
Real Time: 323.8 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.17E+001	4.84E+000	4.32E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.88E-002	1.06E-001	1.61E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.45E-002	1.23E-001	2.26E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-6.75E-003	1.57E-001	3.27E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.22E-001	3.60E-001	6.43E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			5.49E-004	1.26E-001	2.52E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.99E-001	3.91E-001	6.48E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.56E-002	1.22E-001	2.07E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.52E-003	1.72E-001	3.00E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.61E-001	2.09E-001	4.92E-001
PB-212	1.56E+000	7.90E-001	4.90E-001	FOUND		
BI-214	8.62E-001	2.86E+000	5.04E-001	FOUND		
PB-214	8.24E-001	3.55E-001	5.40E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.08E+000	2.90E+000	6.26E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.25E-001	7.27E-001	1.76E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-6.52E+001	5.04E+001	7.39E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.14E+000	5.26E+000	9.89E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.15E-001	3.93E-001	7.65E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.00E+001	2.31E+001	5.53E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.66E+000	4.92E+000
U-234	NOT FOUND/DATA for 53.20 keV			-5.95E+001	4.12E+002	7.92E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.84E-002	1.77E-001	3.49E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.66E+000	4.92E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.53E-001	8.27E-001	1.50E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-375
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #19
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.709E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:20:13 PM
Live Time: 333.2 seconds
Real Time: 333.7 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.74E+001	5.46E+000	3.44E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.29E-001	1.82E-001	2.36E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.13E-001	1.24E-001	1.87E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.21E-002	1.08E-001	2.83E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.28E-001	3.34E-001	8.06E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.87E-002	1.49E-001	2.72E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-6.49E-002	2.72E-001	5.20E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.34E-001	1.40E-001	2.08E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.07E-001	1.42E-001	1.98E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.48E-001	2.27E-001	5.12E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.07E+000	3.82E-001	8.30E-001
BI-214	1.41E+000	1.12E-001	5.98E-001	FOUND		
PB-214	1.16E+000	1.06E+000	5.33E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.24E-001	2.80E+000	5.37E+000
AC-228	NOT FOUND/DATA for 911.21 keV			5.04E-001	7.21E-001	1.59E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.42E+001	5.94E+001	1.18E+002
PA-231	NOT FOUND/DATA for 300.02 keV			4.45E+000	5.08E+000	9.92E+000
PA-234	NOT FOUND/DATA for 98.44 keV			6.87E-002	4.79E-001	8.55E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.01E+000	3.19E+001	6.71E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.73E-001	2.56E+000	4.42E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.75E+002	4.41E+002	7.63E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.15E-002	1.71E-001	3.20E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.73E-001	2.56E+000	4.42E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.65E-002	9.50E-001	1.79E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-376
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #20
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.812E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:26:18 PM
Live Time: 458.3 seconds
Real Time: 459.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.46E+001	4.45E+000	3.74E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.59E-002	1.38E-001	2.86E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.93E-002	9.00E-002	1.46E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-5.51E-003	1.45E-001	2.63E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.49E-001	3.20E-001	5.43E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.75E-002	1.08E-001	1.95E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.80E-002	2.91E-001	5.41E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.50E-002	1.17E-001	1.86E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.56E-002	1.24E-001	2.43E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.74E-001	1.91E-001	4.31E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.27E+000	3.12E-001	6.94E-001
BI-214	7.11E-001	3.19E-001	5.14E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			4.77E-001	3.43E-001	7.18E-001
RA-226	NOT FOUND/DATA for 186.10 keV			3.64E+000	2.51E+000	5.22E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.38E+000	7.12E-001	1.69E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.79E+001	4.70E+001	7.83E+001
PA-231	NOT FOUND/DATA for 302.65 keV			-6.16E+000	5.66E+000	6.17E+000
PA-234	NOT FOUND/DATA for 98.44 keV			3.16E-002	4.00E-001	7.01E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.81E+000	1.68E+001	3.27E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.66E-001	2.12E+000	3.69E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.55E+002	3.73E+002	7.70E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.64E-001	1.51E-001	3.08E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.66E-001	2.12E+000	3.69E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.24E-001	7.25E-001	1.38E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-377
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #21
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.216E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:34:30 PM
Live Time: 358.1 seconds
Real Time: 358.6 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.37E+001	1.53E+001	3.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.74E-002	1.03E-001	2.03E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.57E-002	1.29E-001	2.21E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			3.13E-002	1.47E-001	3.34E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.56E-002	3.02E-001	5.75E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			6.56E-002	1.45E-001	3.19E-001
SB-125	NOT FOUND/DATA for 427.89 keV			7.17E-003	3.46E-001	6.46E-001
CS-134	NOT FOUND/DATA for 604.70 keV			4.02E-002	1.36E-001	2.87E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.22E-002	1.56E-001	3.36E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.00E-001	2.15E-001	5.09E-001
PB-212	1.10E+000	3.35E-001	5.27E-001	FOUND		
BI-214	9.13E-001	4.09E-001	6.22E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			1.34E+000	4.79E-001	1.11E+000
RA-226	NOT FOUND/DATA for 186.10 keV			2.03E+000	3.38E+000	6.49E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.57E+000	8.20E-001	2.05E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.58E+001	5.90E+001	1.06E+002
PA-231	NOT FOUND/DATA for 283.67 keV			-2.50E+000	5.86E+000	9.67E+000
PA-234	NOT FOUND/DATA for 883.24 keV			-3.58E-001	8.46E-001	1.11E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.16E+000	3.07E+001	3.10E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.65E+000	2.38E+000	4.74E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.04E+002	5.30E+002	9.02E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.66E-001	1.90E-001	4.04E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.65E+000	2.38E+000	4.74E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.04E-001	8.23E-001	1.55E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-378
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #22
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.862E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:41:52 PM
Live Time: 518.0 seconds
Real Time: 518.9 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.15E+001	1.31E+001	2.68E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.10E-002	1.15E-001	2.38E-001
CO-57	NOT FOUND/DATA for 122.06 keV			6.73E-002	1.07E-001	2.00E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.15E-002	1.28E-001	2.89E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			4.64E-002	2.99E-001	5.83E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.55E-002	1.40E-001	1.67E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.29E-001	2.34E-001	4.10E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.18E-001	1.21E-001	1.76E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.73E-002	1.12E-001	2.44E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.13E-001	1.74E-001	3.76E-001
PB-212	NOT FOUND/DATA for 238.63 keV			9.72E-001	2.94E-001	6.46E-001
BI-214	9.17E-001	5.74E+000	5.28E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			9.37E-001	3.73E-001	8.33E-001
RA-226	NOT FOUND/DATA for 186.10 keV			3.35E+000	2.80E+000	5.56E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.69E-001	5.97E-001	1.42E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.60E+001	4.61E+001	9.72E+001
PA-231	NOT FOUND/DATA for 300.02 keV			7.42E-001	4.22E+000	7.31E+000
PA-234	NOT FOUND/DATA for 98.44 keV			8.64E-002	4.00E-001	7.17E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.80E+000	2.19E+001	4.85E+001
TH-234	NOT FOUND/DATA for 92.60 keV			9.34E-001	2.01E+000	3.64E+000
U-234	NOT FOUND/DATA for 53.20 keV			4.39E+001	4.04E+002	7.76E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.05E-001	1.71E-001	3.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			9.34E-001	2.01E+000	3.64E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.45E-001	7.94E-001	1.33E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-379
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #23
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.738E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 2:51:08 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.48E+001	9.50E+000	2.63E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.07E-003	7.06E-002	1.46E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.46E-002	9.59E-002	1.54E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.84E-002	1.08E-001	2.38E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.31E-002	2.28E-001	3.89E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.48E-002	1.03E-001	1.69E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.40E-001	2.90E-001	4.51E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.92E-002	1.10E-001	1.74E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.42E-004	1.23E-001	2.37E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.46E-001	1.55E-001	3.52E-001
PB-212	9.07E-001	2.29E-001	4.24E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			6.56E-001	3.22E-001	7.10E-001
PB-214	6.66E-001	2.57E-001	5.41E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.07E+000	2.33E+000	4.55E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.01E+000	5.69E-001	1.33E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.47E+001	3.43E+001	6.16E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.53E+000	3.71E+000	6.76E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.65E-001	3.77E-001	5.86E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.07E+001	1.71E+001	3.90E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-6.51E-001	2.03E+000	3.29E+000
U-234	NOT FOUND/DATA for 53.20 keV			-5.04E+002	3.52E+002	4.72E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.52E-002	1.41E-001	2.63E-001
U-238	NOT FOUND/DATA for 92.60 keV			-6.51E-001	2.03E+000	3.29E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.46E-001	6.59E-001	1.21E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-380
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #24
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.264E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 3:01:53 PM
Live Time: 471.3 seconds
Real Time: 472.0 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.96E+001	1.61E+001	3.81E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.88E-002	7.16E-002	1.77E-001
CO-57	NOT FOUND/DATA for 122.06 keV			7.52E-003	1.06E-001	1.87E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			6.99E-002	1.23E-001	2.96E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.52E-001	3.92E-001	3.74E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.83E-002	1.16E-001	1.89E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.25E-001	2.98E-001	5.41E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.35E-002	1.51E-001	1.70E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.57E-001	1.48E-001	3.32E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.11E-001	2.03E-001	4.22E-001
PB-212	8.49E-001	2.50E-001	5.43E-001	FOUND		
BI-214	8.55E-001	3.41E-001	4.83E-001	FOUND		
PB-214	6.92E-001	3.07E-001	4.25E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.96E+000	2.67E+000	5.41E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.55E-001	6.39E-001	1.48E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-9.43E+000	4.30E+001	7.85E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.91E+000	3.95E+000	7.44E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.92E-002	4.21E-001	7.44E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.44E+000	1.55E+001	3.42E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-2.68E-001	2.15E+000	3.66E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.44E+001	3.60E+002	7.00E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.01E-001	1.61E-001	3.16E-001
U-238	NOT FOUND/DATA for 92.60 keV			-2.68E-001	2.15E+000	3.66E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.61E-001	7.96E-001	1.56E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-381
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #25
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.623E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 3:10:17 PM
Live Time: 360.1 seconds
Real Time: 360.7 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.75E+001	1.78E+001	2.93E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.82E-002	8.71E-002	1.51E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.02E-001	1.43E-001	1.94E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-6.97E-002	1.39E-001	2.10E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			6.28E-002	2.99E-001	6.59E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	3.29E-001
SB-125	NOT FOUND/DATA for 427.89 keV			9.74E-002	2.73E-001	6.08E-001
CS-134	NOT FOUND/DATA for 795.84 keV			3.06E-002	1.20E-001	2.78E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.55E-002	1.36E-001	3.16E-001
TL-208	2.49E-001	1.55E-001	2.50E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.11E+000	3.45E-001	7.72E-001
BI-214	NOT FOUND/DATA for 609.31 keV			5.58E-001	4.14E-001	9.03E-001
PB-214	6.02E-001	2.94E-001	3.90E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			8.78E-001	2.71E+000	5.29E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.59E-001	7.63E-001	1.75E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.05E+001	5.24E+001	1.04E+002
PA-231	NOT FOUND/DATA for 300.02 keV			2.51E+000	4.02E+000	7.84E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.71E-001	5.03E-001	8.45E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.15E+001	4.03E+001	4.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.47E+000	4.56E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.15E+002	4.74E+002	8.73E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.39E-002	1.59E-001	3.05E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.47E+000	4.56E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.27E-001	8.26E-001	1.50E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-382
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #26
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.537E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 3:16:45 PM
Live Time: 339.2 seconds
Real Time: 339.7 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.68E+001	7.03E+001	2.96E+000	FOUND		
MN-54	NOT FOUND/DATA for		834.83 keV	-1.26E-002	1.41E-001	2.89E-001
CO-57	NOT FOUND/DATA for		122.06 keV	7.39E-002	1.35E-001	2.51E-001
CO-60	NOT FOUND/DATA for		1332.50 keV	1.02E-001	1.55E-001	4.01E-001
ZN-65	NOT FOUND/DATA for		1115.55 keV	6.74E-003	2.67E-001	5.81E-001
AG-110m	NOT FOUND/DATA for		1384.30 keV	0.00E+000	0.00E+000	3.53E-001
SB-125	NOT FOUND/DATA for		427.89 keV	-1.60E-001	3.85E-001	6.13E-001
CS-134	NOT FOUND/DATA for		604.70 keV	-6.96E-002	1.38E-001	2.09E-001
CS-137	NOT FOUND/DATA for		661.66 keV	1.14E-001	1.86E-001	4.03E-001
TL-208	NOT FOUND/DATA for		583.19 keV	3.80E-001	2.60E-001	5.65E-001
PB-212	NOT FOUND/DATA for		238.63 keV	1.02E+000	3.68E-001	8.08E-001
BI-214	8.22E-001	1.52E+000	4.82E-001	FOUND		
PB-214	NOT FOUND/DATA for		351.92 keV	1.02E+000	4.37E-001	1.01E+000
RA-226	NOT FOUND/DATA for		186.10 keV	2.35E+000	2.92E+000	5.96E+000
AC-228	NOT FOUND/DATA for		911.21 keV	1.07E+000	8.12E-001	1.93E+000
TH-230	NOT FOUND/DATA for		67.67 keV	-3.57E+001	5.39E+001	9.26E+001
PA-231	NOT FOUND/DATA for		300.02 keV	2.97E+000	5.07E+000	9.55E+000
PA-234	NOT FOUND/DATA for		98.44 keV	1.62E-001	4.59E-001	8.42E-001
PA-234M	NOT FOUND/DATA for		1001.03 keV	8.61E+000	2.45E+001	5.57E+001
TH-234	NOT FOUND/DATA for		92.60 keV	7.49E-001	2.77E+000	4.96E+000
U-234	NOT FOUND/DATA for		53.20 keV	-9.58E+001	5.65E+002	8.85E+002
U-235	NOT FOUND/DATA for		185.71 keV	1.54E-002	1.73E-001	3.28E-001
U-238	NOT FOUND/DATA for		92.60 keV	7.49E-001	2.77E+000	4.96E+000
AM-241	NOT FOUND/DATA for		59.54 keV	1.40E-001	8.70E-001	1.71E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-383
Sample Title: B-17 C-BAY BOTTOM OF TRENCH SAMPLE #27
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.755E+002 g
Sample Taken On: 4/19/2005 11:15:00 AM
Acquisition Started: 4/22/2005 3:22:54 PM
Live Time: 485.1 seconds
Real Time: 485.8 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.07E+001	1.10E+001	3.44E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.78E-002	8.85E-002	2.11E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.89E-002	1.05E-001	1.91E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.17E-001	1.20E-001	3.03E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.59E-002	2.57E-001	4.81E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	2.40E-001
SB-125	NOT FOUND/DATA for 427.89 keV			7.02E-002	2.74E-001	5.56E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.15E-002	1.03E-001	1.88E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.11E-002	1.21E-001	2.54E-001
TL-208	3.40E-001	3.19E-002	2.05E-001	FOUND		
PB-212	1.04E+000	7.53E-001	5.21E-001	FOUND		
BI-214	1.20E+000	1.27E+000	3.93E-001	FOUND		
PB-214	7.44E-001	2.80E-001	4.63E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.29E+000	2.53E+000	5.16E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.43E+000	6.61E-001	1.61E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.46E+000	4.17E+001	7.60E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.41E+000	3.91E+000	7.30E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.61E-001	4.52E-001	6.80E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			8.13E+000	1.81E+001	4.08E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.21E-001	1.91E+000	3.44E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.85E+001	3.27E+002	6.37E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.26E-001	1.53E-001	3.17E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.21E-001	1.91E+000	3.44E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.70E-001	7.09E-001	1.34E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-384
Sample Title: B-17 H/W TRENCH SAMPLE# 28
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 8.314E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 3:28:59 PM
Live Time: 550.7 seconds
Real Time: 551.0 seconds
Dead Time: 0.04 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	1.44E+001	1.36E+000	4.42E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.29E-002	1.87E-001	3.71E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.17E-002	9.35E-002	1.63E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-4.32E-002	2.19E-001	4.14E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.12E-001	4.58E-001	8.77E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.23E-002	1.32E-001	2.21E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.12E-001	3.12E-001	4.55E-001
CS-134	NOT FOUND/DATA for 604.70 keV			4.61E-002	8.45E-002	2.27E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.88E-002	1.34E-001	2.83E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.07E-001	2.49E-001	5.84E-001
PB-212	9.67E-001	2.85E-001	5.06E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			5.92E-001	4.35E-001	1.01E+000
PB-214	NOT FOUND/DATA for 351.92 keV			4.89E-001	4.18E-001	8.95E-001
RA-226	NOT FOUND/DATA for 186.10 keV			6.91E+000	3.60E+000	7.41E+000
AC-228	NOT FOUND/DATA for 911.21 keV			6.79E-001	8.39E-001	2.00E+000
TH-230	NOT FOUND/DATA for 67.67 keV			4.29E+001	7.61E+001	1.50E+002
PA-231	NOT FOUND/DATA for 302.65 keV			-6.97E+000	8.03E+000	9.96E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.07E-001	4.94E-001	7.13E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.96E+001	3.99E+001	9.39E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.36E+000	2.38E+000	4.90E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.13E+003	1.07E+003	2.15E+003
U-235	NOT FOUND/DATA for 185.71 keV			3.76E-001	2.24E-001	4.50E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.36E+000	2.38E+000	4.90E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.87E-002	1.63E+000	3.02E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-385
Sample Title: B-17 H/W TRENCH SAMPLE# 29
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.724E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 3:22:43 PM
Live Time: 334.2 seconds
Real Time: 334.4 seconds
Dead Time: 0.05 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	2.01E+001	4.16E+001	6.13E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-4.30E-002	1.73E-001	3.69E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.66E-002	1.07E-001	2.23E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			6.82E-002	1.36E-001	5.02E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.59E-001	3.66E-001	1.20E+000
AG-110m	NOT FOUND/DATA for 657.76 keV			0.00E+000	0.00E+000	1.14E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.88E-001	7.34E-001	8.06E-001
CS-134	NOT FOUND/DATA for 604.70 keV			3.20E-002	2.17E-001	4.02E-001
CS-137	NOT FOUND/DATA for 661.66 keV			0.00E+000	0.00E+000	1.26E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.99E-001	3.94E-001	9.07E-001
PB-212	9.54E-001	1.32E+000	7.70E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.30E+000	7.00E-001	1.79E+000
PB-214	1.37E+000	5.79E-001	5.40E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.82E+000	4.03E+000	8.76E+000
AC-228	NOT FOUND/DATA for 338.32 keV			9.10E-001	1.33E+000	2.94E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.09E+002	1.03E+002	2.25E+002
PA-231	NOT FOUND/DATA for 300.02 keV			-1.10E+000	4.45E+000	8.83E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-3.57E-002	5.32E-001	1.00E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			5.41E+000	4.67E+001	1.08E+002
TH-234	NOT FOUND/DATA for 92.60 keV			3.65E-001	3.25E+000	6.11E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.12E+002	1.32E+003	2.59E+003
U-235	NOT FOUND/DATA for 185.71 keV			3.80E-001	2.48E-001	5.42E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.65E-001	3.25E+000	6.11E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-8.75E-001	1.94E+000	3.45E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
****

Site Location: CE Windsor
Sample ID: MAC-0504-386
Sample Title: B-17 H/W TRENCH SAMPLE# 30
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.126E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 3:15:55 PM
Live Time: 376.4 seconds
Real Time: 376.5 seconds
Dead Time: 0.04 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	NOT FOUND/DATA for 1460.75 keV			1.69E+001	8.33E+000	2.00E+001
MN-54	NOT FOUND/DATA for 834.83 keV			-8.97E-002	2.35E-001	3.55E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.16E-002	9.72E-002	2.06E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			0.00E+000	0.00E+000	1.99E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			9.35E-002	2.68E-001	9.17E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			0.00E+000	0.00E+000	1.90E-001
SB-125	NOT FOUND/DATA for 600.56 keV			0.00E+000	0.00E+000	5.30E-001
CS-134	NOT FOUND/DATA for 795.84 keV			0.00E+000	0.00E+000	1.46E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-5.98E-002	2.84E-001	4.83E-001
TL-208	NOT FOUND/DATA for 583.19 keV			6.78E-001	3.68E-001	9.16E-001
PB-212	9.67E-001	4.34E-001	8.10E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			7.48E-001	6.38E-001	1.53E+000
PB-214	NOT FOUND/DATA for 351.92 keV			1.11E+000	5.30E-001	1.34E+000
RA-226	NOT FOUND/DATA for 186.10 keV			-2.82E-001	4.14E+000	6.98E+000
AC-228	NOT FOUND/DATA for 338.32 keV			3.15E-001	1.43E+000	2.96E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.66E+001	1.17E+002	1.93E+002
PA-231	NOT FOUND/DATA for 283.67 keV			-6.19E+000	7.71E+000	1.08E+001
PA-234	NOT FOUND/DATA for 131.20 keV			-3.05E-001	6.72E-001	9.98E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			0.00E+000	0.00E+000	2.60E+001
TH-234	NOT FOUND/DATA for 92.60 keV			5.00E+000	3.19E+000	7.01E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.14E+003	1.67E+003	2.35E+003
U-235	NOT FOUND/DATA for 185.71 keV			4.01E-002	2.38E-001	4.35E-001
U-238	NOT FOUND/DATA for 92.60 keV			5.00E+000	3.19E+000	7.01E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.02E-001	2.05E+000	4.01E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-387
Sample Title: B-17 H/W TRENCH SAMPLE# 31
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.005E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 3:07:25 PM
Live Time: 477.1 seconds
Real Time: 477.3 seconds
Dead Time: 0.03 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	1.60E+001	6.78E+000	5.67E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.09E-002	2.57E-001	2.85E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.61E-002	1.12E-001	1.91E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			0.00E+000	0.00E+000	1.60E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.13E-001	5.30E-001	1.20E+000
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.14E-002	2.17E-001	4.27E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.59E-001	4.73E-001	8.79E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.06E-002	2.38E-001	2.12E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.62E-003	2.75E-001	5.41E-001
TL-208	3.67E-001	2.46E-001	3.53E-001	FOUND		
PB-212	1.13E+000	3.81E-001	5.24E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.14E+000	5.65E-001	1.45E+000
PB-214	NOT FOUND/DATA for 351.92 keV			7.77E-001	4.45E-001	1.08E+000
RA-226	NOT FOUND/DATA for 186.10 keV			3.87E+000	3.42E+000	7.11E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.47E+000	1.20E+000	2.95E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-5.12E+001	8.56E+001	1.38E+002
PA-231	NOT FOUND/DATA for 283.67 keV			-2.69E-001	6.08E+000	1.21E+001
PA-234	NOT FOUND/DATA for 946.00 keV			0.00E+000	0.00E+000	9.74E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.54E+001	2.18E+001	7.17E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.70E+000	2.54E+000	5.15E+000
U-234	NOT FOUND/DATA for 53.20 keV			-6.79E+002	1.24E+003	2.16E+003
U-235	NOT FOUND/DATA for 185.71 keV			9.81E-002	2.27E-001	4.25E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.70E+000	2.54E+000	5.15E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-5.45E-001	1.99E+000	3.53E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-388
Sample Title: B-17 H/W TRENCH SAMPLE# 32
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.658E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 2:56:50 PM
Live Time: 600.0 seconds
Real Time: 600.2 seconds
Dead Time: 0.03 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	NOT FOUND/DATA for 1460.75 keV			1.88E+001	6.34E+000	1.52E+001
MN-54	NOT FOUND/DATA for 834.83 keV			9.26E-002	1.65E-001	3.98E-001
CO-57	NOT FOUND/DATA for 122.06 keV			9.39E-002	1.06E-001	2.14E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.29E-002	8.59E-002	3.16E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			8.19E-002	2.58E-001	6.76E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	4.99E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.67E-001	3.96E-001	8.50E-001
CS-134	NOT FOUND/DATA for 604.70 keV			6.59E-002	1.09E-001	2.75E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.87E-002	1.54E-001	3.15E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.04E-001	2.58E-001	5.93E-001
PB-212	1.15E+000	3.18E-001	5.61E-001	FOUND		
BI-214	8.54E-001	4.42E-001	5.42E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.81E-001	4.56E-001	1.02E+000
RA-226	NOT FOUND/DATA for 186.10 keV			1.08E+000	3.10E+000	5.63E+000
AC-228	NOT FOUND/DATA for 338.32 keV			8.06E-001	9.99E-001	2.17E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.98E+001	7.43E+001	1.47E+002
PA-231	NOT FOUND/DATA for 300.02 keV			2.69E-001	3.96E+000	7.49E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.16E-001	4.71E-001	6.17E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.02E-001	2.28E+001	5.21E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.81E-001	2.02E+000	3.81E+000
U-234	NOT FOUND/DATA for 53.20 keV			8.44E+002	1.06E+003	2.09E+003
U-235	NOT FOUND/DATA for 185.71 keV			4.95E-003	1.88E-001	3.29E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.81E-001	2.02E+000	3.81E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.64E-001	1.58E+000	3.06E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0504-389
Sample Title: B-17 H/W TRENCH SAMPLE# 33
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.864E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 2:48:04 PM
Live Time: 490.1 seconds
Real Time: 490.3 seconds
Dead Time: 0.04 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	1.84E+001	1.09E+001	7.23E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			0.00E+000	0.00E+000	9.09E-002
CO-57	NOT FOUND/DATA for 122.06 keV			9.53E-004	1.01E-001	1.89E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.02E-001	1.45E-001	4.75E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.08E-002	3.37E-001	8.05E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.53E-001	2.10E-001	2.62E-001
SB-125	NOT FOUND/DATA for 600.56 keV			-3.70E-001	6.36E-001	1.00E+000
CS-134	NOT FOUND/DATA for 795.84 keV			-1.28E-001	2.24E-001	3.48E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-1.70E-001	1.76E-001	2.30E-001
TL-208	5.55E-001	8.85E-001	3.00E-001	FOUND		
PB-212	7.48E-001	3.37E-001	7.15E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.06E+000	6.06E-001	1.42E+000
PB-214	1.15E+000	1.06E+000	7.14E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.99E+000	3.27E+000	6.88E+000
AC-228	NOT FOUND/DATA for 911.21 keV			5.52E-001	9.97E-001	2.27E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-7.36E+000	8.41E+001	1.56E+002
PA-231	NOT FOUND/DATA for 300.02 keV			1.26E+000	4.84E+000	9.60E+000
PA-234	NOT FOUND/DATA for 131.20 keV			1.65E-002	4.94E-001	9.12E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.42E+001	3.54E+001	9.44E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-4.58E-001	2.36E+000	4.32E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.67E+002	1.11E+003	1.91E+003
U-235	NOT FOUND/DATA for 185.71 keV			2.51E-001	1.97E-001	4.08E-001
U-238	NOT FOUND/DATA for 92.60 keV			-4.58E-001	2.36E+000	4.32E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.96E-001	1.48E+000	2.93E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-390
Sample Title: B-17 H/W TRENCH SAMPLE# 34
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.591E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 2:37:27 PM
Live Time: 600.0 seconds
Real Time: 600.2 seconds
Dead Time: 0.04 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	2.42E+001	2.99E+001	5.15E+000	FOUND		
MN-54	NOT FOUND/DATA for		834.83 keV	2.84E-002	5.69E-002	2.09E-001
CO-57	NOT FOUND/DATA for		122.06 keV	1.07E-004	1.01E-001	1.84E-001
CO-60	NOT FOUND/DATA for		1173.24 keV	0.00E+000	0.00E+000	1.05E-001
ZN-65	NOT FOUND/DATA for		1115.55 keV	6.08E-001	4.57E-001	1.22E+000
AG-110m	NOT FOUND/DATA for		657.76 keV	-7.51E-002	1.96E-001	2.57E-001
SB-125	NOT FOUND/DATA for		427.89 keV	1.22E-001	3.84E-001	8.20E-001
CS-134	NOT FOUND/DATA for		604.70 keV	-3.02E-002	1.33E-001	2.54E-001
CS-137	NOT FOUND/DATA for		661.66 keV	-1.89E-002	1.38E-001	2.85E-001
TL-208	NOT FOUND/DATA for		583.19 keV	4.60E-001	2.66E-001	6.21E-001
PB-212	1.37E+000	3.47E-001	5.26E-001	FOUND		
BI-214	NOT FOUND/DATA for		609.31 keV	8.35E-001	4.75E-001	1.13E+000
PB-214	8.79E-001	3.62E-001	4.23E-001	FOUND		
RA-226	NOT FOUND/DATA for		186.10 keV	2.05E+000	3.35E+000	6.24E+000
AC-228	NOT FOUND/DATA for		911.21 keV	9.88E-001	8.33E-001	2.09E+000
TH-230	NOT FOUND/DATA for		67.67 keV	6.96E+001	8.24E+001	1.65E+002
PA-231	NOT FOUND/DATA for		300.02 keV	5.68E+000	4.73E+000	9.58E+000
PA-234	NOT FOUND/DATA for		131.20 keV	4.51E-002	4.26E-001	7.98E-001
PA-234M	NOT FOUND/DATA for		1001.03 keV	9.44E-001	2.77E+001	6.10E+001
TH-234	NOT FOUND/DATA for		92.60 keV	1.51E+000	2.15E+000	4.29E+000
U-234	NOT FOUND/DATA for		53.20 keV	-3.29E+002	1.08E+003	1.94E+003
U-235	NOT FOUND/DATA for		185.71 keV	1.87E-001	2.03E-001	3.91E-001
U-238	NOT FOUND/DATA for		92.60 keV	1.51E+000	2.15E+000	4.29E+000
AM-241	NOT FOUND/DATA for		59.54 keV	8.53E-001	1.64E+000	3.22E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-391
Sample Title: B-17 H/W TRENCH SAMPLE# 35
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.219E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 2:28:53 PM
Live Time: 414.9 seconds
Real Time: 415.0 seconds
Dead Time: 0.03 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	1.93E+001	7.56E+000	5.66E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.12E-001	2.41E-001	6.10E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.15E-002	1.33E-001	2.55E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			0.00E+000	0.00E+000	1.59E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.58E-002	4.12E-001	8.21E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.82E-001	2.58E-001	2.67E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-9.60E-001	7.45E-001	5.51E-001
CS-134	NOT FOUND/DATA for 604.70 keV			6.89E-002	1.54E-001	3.86E-001
CS-137	NOT FOUND/DATA for 661.66 keV			2.63E-001	2.59E-001	6.38E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.05E-001	3.72E-001	8.01E-001
PB-212	1.32E+000	1.40E+000	6.29E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			9.12E-001	5.86E-001	1.46E+000
PB-214	1.27E+000	5.40E-001	6.35E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.60E+000	4.34E+000	8.06E+000
AC-228	NOT FOUND/DATA for 338.32 keV			-9.73E-002	1.09E+000	2.15E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.72E+001	1.01E+002	2.01E+002
PA-231	NOT FOUND/DATA for 283.67 keV			-5.24E+000	7.46E+000	1.08E+001
PA-234	NOT FOUND/DATA for 131.20 keV			-1.36E-001	5.73E-001	1.02E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.31E+001	3.86E+001	1.13E+002
TH-234	NOT FOUND/DATA for 92.60 keV			8.84E-001	2.76E+000	5.37E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.42E+002	1.29E+003	1.97E+003
U-235	NOT FOUND/DATA for 185.71 keV			6.50E-002	2.58E-001	4.75E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.84E-001	2.76E+000	5.37E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.66E-001	1.86E+000	3.30E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0504-392
Sample Title: B-17 H/W TRENCH SAMPLE# 36
Detector Name: 11%
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.349E+002 grams
Sample Taken On: 4/19/2005 12:00:00 AM
Acquisition Started: 4/22/2005 2:17:24 PM
Live Time: 600.0 seconds
Real Time: 600.1 seconds
Dead Time: 0.02 %
Efficiency ID: pint

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/gram)	Activity Uncert. (pCi/gram)	Nuclide MDA (pCi/gram)	Line Activity (pCi/gram)	Line Act Uncert. (pCi/gram)	Line MDA (pCi/gram)
K-40	2.15E+001	6.56E+000	5.11E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			8.39E-003	1.62E-001	3.53E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.10E-002	9.32E-002	1.69E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-2.99E-002	2.37E-001	3.71E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.61E-001	4.81E-001	5.58E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			5.94E-002	1.66E-001	3.71E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.87E-002	3.66E-001	7.63E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.14E-001	1.82E-001	2.63E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.40E-002	1.66E-001	3.58E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.89E-001	2.30E-001	5.57E-001
PB-212	8.18E-001	2.98E-001	4.73E-001	FOUND		
BI-214	8.62E-001	8.79E-001	6.01E-001	FOUND		
PB-214	6.31E-001	3.51E-001	6.60E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.24E+000	3.36E+000	6.78E+000
AC-228	NOT FOUND/DATA for 911.21 keV			4.88E-001	9.34E-001	2.07E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.80E+000	7.47E+001	1.37E+002
PA-231	NOT FOUND/DATA for 300.02 keV			4.08E+000	5.29E+000	1.06E+001
PA-234	NOT FOUND/DATA for 131.20 keV			-3.02E-001	4.38E-001	6.77E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.04E+001	3.35E+001	7.67E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.12E+000	2.40E+000	4.95E+000
U-234	NOT FOUND/DATA for 53.20 keV			-4.62E+002	9.21E+002	1.60E+003
U-235	NOT FOUND/DATA for 185.71 keV			3.09E-001	1.98E-001	4.08E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.12E+000	2.39E+000	4.95E+000
AM-241	NOT FOUND/DATA for 59.54 keV			8.16E-001	1.60E+000	3.14E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
****

Site Location: CE Windsor
Sample ID: MAC-0505-064
Sample Title: B17 FSS - #1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.062E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 7:36:17 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.39E+001	4.39E+000	3.98E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			8.32E-002	1.34E-001	2.90E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-8.12E-002	1.10E-001	1.73E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.19E-002	1.62E-001	2.82E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.11E-001	4.96E-001	2.77E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.44E-002	1.04E-001	1.91E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.05E-001	3.41E-001	7.33E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.79E-002	9.95E-002	1.83E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.42E-002	1.21E-001	2.51E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.73E-001	1.85E-001	4.40E-001
PB-212	1.22E+000	2.73E-001	4.94E-001	FOUND		
BI-214	9.81E-001	1.30E+000	3.59E-001	FOUND		
PB-214	1.10E+000	3.35E-001	4.84E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.77E+000	2.74E+000	5.44E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.16E-001	6.59E-001	1.52E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.45E+001	4.71E+001	9.24E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.38E+000	4.44E+000	8.17E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.62E-001	4.72E-001	7.48E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.49E+000	2.25E+001	4.49E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-4.18E-002	2.34E+000	4.01E+000
U-234	NOT FOUND/DATA for 53.20 keV			4.69E+002	4.05E+002	8.45E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.27E-001	1.69E-001	3.28E-001
U-238	NOT FOUND/DATA for 92.60 keV			-4.18E-002	2.34E+000	4.01E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.56E-001	7.91E-001	1.64E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-065
Sample Title: B17 FSS - #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.267E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 8:35:57 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.42E+001	1.61E+001	3.57E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			3.20E-002	1.08E-001	2.33E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.80E-002	1.19E-001	1.94E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.06E-003	1.43E-001	2.97E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.42E-003	2.17E-001	4.67E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-7.04E-002	1.80E-001	3.07E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.74E-001	4.32E-001	6.61E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.49E-001	1.43E-001	1.98E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.90E-003	1.34E-001	2.75E-001
TL-208	5.85E-001	1.10E+000	2.26E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.58E+000	4.04E-001	8.66E-001
BI-214	8.34E-001	1.03E+000	5.62E-001	FOUND		
PB-214	1.03E+000	3.09E-001	5.63E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.04E+000	2.99E+000	5.68E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.70E+000	8.07E-001	1.95E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.53E+001	5.16E+001	1.02E+002
PA-231	NOT FOUND/DATA for 300.02 keV			5.11E-001	4.04E+000	7.38E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.62E-002	5.10E-001	8.92E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.58E+000	1.99E+001	3.70E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.84E+000	2.61E+000	4.94E+000
U-234	NOT FOUND/DATA for 53.20 keV			5.00E+001	4.46E+002	8.55E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.54E-003	1.81E-001	3.34E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.84E+000	2.61E+000	4.94E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.27E-001	7.77E-001	1.46E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-066
Sample Title: B17 FSS - #3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.792E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 12:10:57 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.09E+001	1.40E+001	3.44E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.97E-002	1.24E-001	2.12E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.03E-002	1.13E-001	2.01E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			0.00E+000	0.00E+000	6.09E-002
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.41E-002	2.47E-001	4.25E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-7.76E-003	1.39E-001	2.51E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.63E-002	3.46E-001	6.43E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.46E-001	1.33E-001	2.03E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-9.42E-002	1.45E-001	2.50E-001
TL-208	4.52E-001	5.25E-001	3.05E-001	FOUND		
PB-212	1.22E+000	3.25E-001	6.91E-001	FOUND		
BI-214	1.67E+000	9.33E-001	6.10E-001	FOUND		
PB-214	1.19E+000	4.93E-001	6.30E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.36E+000	2.77E+000	5.54E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.42E+000	8.68E-001	1.91E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.75E+001	5.16E+001	9.67E+001
PA-231	NOT FOUND/DATA for 300.02 keV			7.22E-001	4.17E+000	7.62E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.08E-001	5.07E-001	7.96E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.64E+001	2.13E+001	4.96E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-3.75E-001	2.46E+000	4.16E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.10E+002	4.10E+002	7.26E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.56E-001	1.66E-001	3.30E-001
U-238	NOT FOUND/DATA for 92.60 keV			-3.75E-001	2.46E+000	4.16E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.21E-001	8.63E-001	1.76E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-067
Sample Title: B17 FSS - #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.763E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 3:08:27 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.97E+001	1.52E+001	4.24E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.87E-002	1.38E-001	2.94E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.87E-002	1.12E-001	1.82E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.15E-002	1.13E-001	2.71E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.35E-001	3.68E-001	5.94E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.53E-002	1.27E-001	2.25E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.50E-001	3.66E-001	6.25E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.00E-001	1.77E-001	2.14E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.66E-002	1.50E-001	3.18E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.64E-001	1.91E-001	4.52E-001
PB-212	1.13E+000	5.43E-001	6.17E-001	FOUND		
BI-214	9.17E-001	1.39E+000	6.25E-001	FOUND		
PB-214	1.19E+000	1.03E+000	5.60E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.45E+000	2.84E+000	5.72E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.12E+000	6.45E-001	1.57E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.61E+001	4.98E+001	8.88E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.86E+000	4.12E+000	6.74E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.55E-001	4.63E-001	8.43E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.27E+001	2.78E+001	4.43E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.58E+000	2.33E+000	4.25E+000
U-234	NOT FOUND/DATA for 53.20 keV			-2.60E+002	3.74E+002	6.34E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.79E-001	1.74E-001	3.48E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.58E+000	2.33E+000	4.25E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.20E-001	9.03E-001	1.70E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-068
Sample Title: B17 FSS - #5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.766E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 10:57:17 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.85E+001	1.28E+001	3.08E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.19E-001	1.16E-001	1.51E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.14E-003	1.19E-001	2.06E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.25E-001	1.31E-001	3.39E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.80E-001	2.86E-001	6.90E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.54E-002	1.85E-001	2.00E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.97E-001	3.04E-001	6.84E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-6.76E-002	1.29E-001	2.23E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.18E-001	1.37E-001	3.08E-001
TL-208	NOT FOUND/DATA for 583.19 keV			5.10E-001	2.10E-001	4.83E-001
PB-212	1.12E+000	3.00E-001	5.94E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			8.36E-001	4.15E-001	9.24E-001
PB-214	1.00E+000	2.84E-001	6.04E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.68E+000	2.88E+000	5.51E+000
AC-228	1.55E+000	7.35E-001	9.52E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			2.70E+001	5.04E+001	9.72E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.65E+000	4.67E+000	8.71E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.84E-001	6.01E-001	7.90E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.26E+001	2.21E+001	4.99E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.47E+000	2.50E+000	4.79E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.74E+001	4.20E+002	7.64E+002
U-235	NOT FOUND/DATA for 185.71 keV			-2.90E-002	1.71E-001	3.09E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.47E+000	2.49E+000	4.79E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.73E-001	8.41E-001	1.62E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-069
Sample Title: B17 FSS - #6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.256E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 3:20:47 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.46E+001	4.46E+000	4.11E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-8.53E-003	9.62E-002	1.96E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-6.96E-002	1.08E-001	1.74E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.81E-002	1.39E-001	2.87E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.04E-002	2.87E-001	5.14E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.49E-003	1.24E-001	2.28E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.35E-001	3.28E-001	5.57E-001
CS-134	NOT FOUND/DATA for 604.70 keV			4.83E-002	1.23E-001	2.45E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.08E-001	1.39E-001	3.02E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.04E-001	1.81E-001	4.16E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.27E+000	3.63E-001	7.56E-001
BI-214	8.69E-001	3.26E-001	4.69E-001	FOUND		
PB-214	8.70E-001	2.64E-001	5.74E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.69E+000	2.73E+000	5.49E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.15E+000	6.51E-001	1.53E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.47E+001	4.81E+001	9.44E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.56E+000	5.02E+000	8.99E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-5.56E-002	4.62E-001	7.77E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.09E+000	1.96E+001	4.08E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.85E+000	1.98E+000	3.76E+000
U-234	NOT FOUND/DATA for 53.20 keV			-8.90E+001	3.82E+002	6.56E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.66E-001	1.64E-001	3.39E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.85E+000	1.98E+000	3.76E+000
AM-241	NOT FOUND/DATA for 59.54 keV			6.80E-001	7.60E-001	1.56E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-070
Sample Title: B17 FSS - #7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.661E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 12:50:20 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.42E+001	1.70E+001	1.80E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.87E-003	1.13E-001	2.33E-001
CO-57	NOT FOUND/DATA for 122.06 keV			7.34E-002	1.16E-001	2.14E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.18E-002	1.43E-001	3.02E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.05E-002	3.17E-001	5.69E-001
AG-110m	NOT FOUND/DATA for 763.94 keV			0.00E+000	0.00E+000	1.87E-001
SB-125	NOT FOUND/DATA for 427.89 keV			4.40E-002	3.44E-001	6.78E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.12E-002	1.24E-001	2.46E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.41E-002	1.47E-001	3.14E-001
TL-208	3.99E-001	1.80E-001	3.07E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.28E+000	3.65E-001	7.76E-001
BI-214	NOT FOUND/DATA for 609.31 keV			8.74E-001	3.80E-001	8.88E-001
PB-214	NOT FOUND/DATA for 351.92 keV			5.26E-001	3.66E-001	7.65E-001
RA-226	NOT FOUND/DATA for 186.10 keV			2.96E+000	2.93E+000	5.82E+000
AC-228	NOT FOUND/DATA for 911.21 keV			7.74E-001	7.80E-001	1.69E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.55E+001	4.84E+001	9.62E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.43E+000	4.40E+000	8.08E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-3.16E-002	4.83E-001	8.21E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.60E+000	2.16E+001	4.51E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-3.50E-001	2.39E+000	4.00E+000
U-234	NOT FOUND/DATA for 53.20 keV			5.43E+001	3.83E+002	7.43E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.71E-001	1.77E-001	3.51E-001
U-238	NOT FOUND/DATA for 92.60 keV			-3.50E-001	2.39E+000	4.00E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-8.10E-002	7.46E-001	1.39E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-071
Sample Title: B17 FSS - #8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.351E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 3:45:37 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.32E+001	1.35E+001	2.99E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.73E-002	9.51E-002	1.77E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.94E-002	9.64E-002	1.63E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.39E-002	1.32E-001	1.90E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			4.93E-002	3.07E-001	5.69E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.58E-003	9.37E-002	1.82E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.57E-002	3.11E-001	5.86E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.94E-002	8.87E-002	1.64E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.20E-002	1.41E-001	2.89E-001
TL-208	2.92E-001	1.43E-001	2.30E-001	FOUND		
PB-212	1.11E+000	2.83E-001	4.86E-001	FOUND		
BI-214	5.95E-001	2.33E-001	5.10E-001	FOUND		
PB-214	1.09E+000	1.08E+000	6.04E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.32E+000	2.84E+000	5.62E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.37E+000	6.38E-001	1.56E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.82E+000	4.13E+001	7.50E+001
PA-231	NOT FOUND/DATA for 300.02 keV			9.14E-002	4.43E+000	7.80E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.46E-001	4.69E-001	7.68E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.06E+000	1.37E+001	3.43E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.25E+000	2.36E+000	4.21E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.44E+002	3.57E+002	6.46E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.05E-001	1.74E-001	3.32E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.25E+000	2.36E+000	4.21E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.29E-002	6.93E-001	1.29E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-072
Sample Title: B17 FSS - #9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.323E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 3:56:09 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.60E+001	1.25E+001	4.27E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.35E-002	1.10E-001	2.34E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.42E-001	1.11E-001	2.14E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.05E-002	1.37E-001	2.84E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.06E-001	2.45E-001	5.41E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			1.21E-001	1.11E-001	2.60E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.01E-001	3.19E-001	6.40E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.70E-001	1.14E-001	1.53E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-6.05E-002	1.14E-001	2.04E-001
TL-208	4.15E-001	3.15E-001	2.84E-001	FOUND		
PB-212	8.39E-001	2.60E-001	5.28E-001	FOUND		
BI-214	8.72E-001	1.59E+000	3.91E-001	FOUND		
PB-214	7.36E-001	2.90E-001	6.14E-001	FOUND		
RA-226	4.74E+000	2.28E+000	4.63E+000	FOUND		
AC-228	NOT FOUND/DATA for 911.21 keV			1.42E+000	7.31E-001	1.70E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.99E+001	4.57E+001	8.09E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.53E+000	4.13E+000	6.85E+000
PA-234	NOT FOUND/DATA for 131.20 keV			1.52E-001	4.26E-001	7.55E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.07E+000	1.93E+001	4.04E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.20E+000	2.11E+000	3.72E+000
U-234	NOT FOUND/DATA for 53.20 keV			-8.89E+001	3.62E+002	6.65E+002
U-235	2.89E-001	1.39E-001	2.82E-001	FOUND		
U-238	NOT FOUND/DATA for 92.60 keV			1.20E+000	2.10E+000	3.72E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.49E-001	7.47E-001	1.43E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-073
Sample Title: B17 FSS - #10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.448E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 4:49:59 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.20E+001	1.18E+001	3.09E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.82E-002	1.35E-001	2.52E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.39E-002	1.04E-001	1.76E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			8.85E-002	1.27E-001	3.03E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.21E-002	2.06E-001	4.25E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.08E-002	9.18E-002	1.66E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.70E-002	3.79E-001	5.95E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.47E-002	1.14E-001	1.72E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.95E-002	1.17E-001	2.12E-001
TL-208	3.48E-001	1.50E-001	2.48E-001	FOUND		
PB-212	1.50E+000	7.96E-001	5.63E-001	FOUND		
BI-214	1.17E+000	3.43E-001	3.83E-001	FOUND		
PB-214	9.15E-001	3.00E-001	4.36E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.95E+000	2.79E+000	5.50E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.68E-001	7.15E-001	1.59E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.53E+001	4.45E+001	8.69E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.87E+000	3.94E+000	5.72E+000
PA-234	NOT FOUND/DATA for 131.20 keV			4.07E-002	4.27E-001	7.49E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.44E+001	2.49E+001	5.99E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.25E-001	2.16E+000	3.80E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.99E+001	3.85E+002	7.27E+002
U-235	NOT FOUND/DATA for 185.71 keV			7.22E-002	1.72E-001	3.24E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.25E-001	2.16E+000	3.80E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.95E-001	7.74E-001	1.25E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-074
Sample Title: B17 FSS - #11
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.568E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 4:38:03 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.26E+001	4.09E+000	3.34E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.06E-004	9.23E-002	1.86E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.00E-002	9.95E-002	1.75E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.23E-002	1.32E-001	2.98E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.14E-001	4.21E-001	4.17E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			4.62E-003	1.14E-001	2.17E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.10E-002	3.25E-001	5.66E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.50E-002	1.10E-001	2.04E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.58E-002	1.38E-001	2.88E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.72E-001	1.87E-001	4.15E-001
PB-212	1.55E+000	4.91E-001	5.29E-001	FOUND		
BI-214	7.79E-001	3.02E-001	4.12E-001	FOUND		
PB-214	6.92E-001	2.92E-001	5.63E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.31E+000	2.65E+000	4.97E+000
AC-228	NOT FOUND/DATA for 911.21 keV			9.53E-001	5.97E-001	1.40E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.15E+000	3.87E+001	7.11E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.58E-001	4.07E+000	7.20E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.76E-002	4.38E-001	7.63E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.21E+000	2.23E+001	4.60E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.10E+000	2.18E+000	3.91E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.03E+002	3.86E+002	7.67E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.36E-001	1.59E-001	3.10E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.10E+000	2.18E+000	3.91E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.12E-001	5.98E-001	1.17E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-075
Sample Title: B17 FSS - #12
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.347E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 3:34:58 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.76E+001	1.36E+001	4.55E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.87E-002	8.24E-002	2.08E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.25E-002	9.83E-002	1.61E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.24E-002	1.00E-001	2.47E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.49E-002	2.46E-001	4.71E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.42E-002	9.34E-002	1.69E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.74E-001	3.10E-001	4.86E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.18E-001	1.16E-001	1.75E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.53E-002	1.38E-001	2.71E-001
TL-208	2.34E-001	9.00E-002	2.78E-001	FOUND		
PB-212	1.20E+000	2.87E-001	5.05E-001	FOUND		
BI-214	9.51E-001	1.02E+000	4.24E-001	FOUND		
PB-214	6.37E-001	2.95E-001	5.34E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-3.59E-001	2.70E+000	4.86E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.68E+000	6.91E-001	1.69E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-6.11E+000	4.39E+001	7.93E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.14E+000	4.33E+000	7.92E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.55E-001	4.52E-001	7.23E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.33E+000	2.33E+001	4.53E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.14E+000	2.06E+000	3.70E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.44E+001	4.13E+002	7.67E+002
U-235	NOT FOUND/DATA for 185.71 keV			-3.25E-002	1.70E-001	3.02E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.14E+000	2.06E+000	3.70E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.97E-001	8.77E-001	1.69E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-076
Sample Title: B17 FSS - #13
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.988E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 10:31:09 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.43E+001	4.10E+000	2.60E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.21E-002	6.91E-002	1.44E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.46E-002	1.03E-001	1.86E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-8.29E-002	9.50E-002	1.37E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.35E-001	2.45E-001	5.45E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			7.96E-002	9.71E-002	2.21E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.21E-001	2.57E-001	4.20E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-2.57E-002	9.28E-002	1.39E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.45E-002	1.00E-001	2.07E-001
TL-208	3.49E-001	1.48E-001	2.25E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.07E+000	3.03E-001	6.41E-001
BI-214	8.78E-001	3.04E-001	4.45E-001	FOUND		
PB-214	1.08E+000	3.21E-001	5.15E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.20E+000	2.37E+000	4.67E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.49E+000	6.81E-001	1.60E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.06E+000	4.31E+001	7.79E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.31E+000	3.84E+000	6.98E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.56E-001	4.08E-001	6.52E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.10E+000	1.83E+001	3.66E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.31E+000	1.95E+000	3.56E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.34E+001	3.47E+002	6.44E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.03E-001	1.45E-001	2.82E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.31E+000	1.95E+000	3.56E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.83E-002	6.99E-001	1.31E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-077
Sample Title: B17 FSS - #14
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.112E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 7:24:58 AM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.65E+001	1.17E+001	1.79E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-8.31E-002	1.30E-001	2.16E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.43E-001	1.17E-001	2.25E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-7.11E-002	1.64E-001	2.56E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			7.10E-002	2.21E-001	4.90E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.40E-002	1.10E-001	1.89E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.35E-001	3.64E-001	6.45E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.84E-003	1.24E-001	2.36E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.01E-001	1.31E-001	2.91E-001
TL-208	3.27E-001	4.49E-001	2.40E-001	FOUND		
PB-212	1.29E+000	4.31E-001	6.46E-001	FOUND		
BI-214	6.72E-001	3.12E-001	5.21E-001	FOUND		
PB-214	8.17E-001	2.56E-001	5.76E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			6.27E-001	2.62E+000	4.90E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.24E+000	6.88E-001	1.62E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.87E+000	5.18E+001	9.54E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.50E+000	4.46E+000	8.22E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.43E-001	4.60E-001	7.69E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.82E+000	2.68E+001	4.94E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-3.40E-001	2.10E+000	3.49E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.24E+002	3.50E+002	7.05E+002
U-235	NOT FOUND/DATA for 185.71 keV			8.58E-002	1.60E-001	3.07E-001
U-238	NOT FOUND/DATA for 92.60 keV			-3.40E-001	2.10E+000	3.49E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.66E-001	8.04E-001	1.48E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-078
Sample Title: B17 FSS - #15
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.902E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 2:55:35 PM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.60E+001	1.26E+001	2.50E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.08E-001	1.19E-001	1.91E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.28E-001	9.28E-002	1.80E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.57E-002	1.24E-001	2.75E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-6.19E-002	2.86E-001	4.66E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.03E-002	1.11E-001	1.88E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.30E-001	2.43E-001	4.25E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.98E-002	1.11E-001	1.29E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.17E-001	1.37E-001	2.97E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.75E-001	1.76E-001	3.95E-001
PB-212	NOT FOUND/DATA for 238.63 keV			9.60E-001	3.14E-001	6.51E-001
BI-214	7.18E-001	1.25E+000	4.26E-001	FOUND		
PB-214	7.42E-001	3.00E-001	5.49E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.24E+000	2.24E+000	4.24E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.53E+000	6.69E-001	1.60E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.47E+001	4.42E+001	8.55E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-3.30E+000	3.70E+000	4.72E+000
PA-234	NOT FOUND/DATA for 98.44 keV			8.11E-002	3.83E-001	6.73E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.17E+000	2.10E+001	3.94E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-9.81E-001	2.10E+000	3.41E+000
U-234	NOT FOUND/DATA for 53.20 keV			9.57E+001	3.31E+002	6.52E+002
U-235	NOT FOUND/DATA for 185.71 keV			-6.89E-002	1.36E-001	2.27E-001
U-238	NOT FOUND/DATA for 92.60 keV			-9.81E-001	2.10E+000	3.41E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.48E-002	6.69E-001	1.26E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
****

Site Location: CE Windsor
Sample ID: MAC-0505-079
Sample Title: B17 FSS - #16
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.596E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 4:25:29 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.59E+001	1.45E+001	3.25E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.96E-002	9.14E-002	2.00E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.15E-002	9.47E-002	1.59E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.02E-002	9.07E-002	2.13E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.94E-002	2.75E-001	4.87E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.83E-002	1.00E-001	1.86E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.43E-001	3.93E-001	3.68E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.80E-002	1.01E-001	1.68E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.04E-001	1.12E-001	2.60E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.12E-001	1.80E-001	4.13E-001
PB-212	1.01E+000	2.59E-001	5.04E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.10E+000	3.83E-001	8.91E-001
PB-214	5.54E-001	2.59E-001	5.47E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.63E+000	2.61E+000	5.00E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.30E+000	7.37E-001	1.68E+000
TH-230	NOT FOUND/DATA for 67.67 keV			6.93E+000	4.65E+001	8.73E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.95E+000	4.24E+000	7.72E+000
PA-234	NOT FOUND/DATA for 927.10 keV			-1.44E+000	1.95E+000	1.02E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.44E+001	2.25E+001	4.98E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.59E+000	1.73E+000	3.27E+000
U-234	NOT FOUND/DATA for 53.20 keV			6.91E+001	3.61E+002	6.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			5.15E-002	1.63E-001	3.04E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.59E+000	1.73E+000	3.27E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.48E-001	7.30E-001	1.22E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-080
Sample Title: B17 FSS - #17
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.464E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 6:54:54 AM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.17 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.74E+001	4.54E+000	2.96E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-9.09E-002	1.15E-001	1.34E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.72E-002	1.09E-001	1.89E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.16E-001	1.26E-001	3.08E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.83E-002	2.76E-001	4.98E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			2.96E-002	1.00E-001	2.11E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.89E-001	3.61E-001	7.57E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.91E-002	1.36E-001	1.99E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.59E-001	1.22E-001	2.93E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.09E-001	1.85E-001	4.22E-001
PB-212	NOT FOUND/DATA for 238.63 keV			8.74E-001	3.17E-001	6.57E-001
BI-214	6.33E-001	6.92E-001	4.66E-001	FOUND		
PB-214	1.19E+000	4.60E-001	4.76E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.70E+000	2.50E+000	5.14E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.37E+000	6.95E-001	1.64E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-4.63E+000	4.90E+001	8.90E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.51E-001	4.03E+000	7.20E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.11E-001	4.49E-001	7.19E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.07E+000	1.49E+001	3.37E+001
TH-234	NOT FOUND/DATA for 92.60 keV			6.18E-001	2.03E+000	3.60E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.88E+002	4.36E+002	6.97E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.95E-001	1.59E-001	3.21E-001
U-238	NOT FOUND/DATA for 92.60 keV			6.18E-001	2.03E+000	3.60E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-4.18E-001	7.07E-001	1.24E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-081
Sample Title: B17 FSS - #18
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.808E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 8:11:04 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.41E+001	3.99E+000	2.46E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.89E-002	9.34E-002	2.18E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.82E-003	9.63E-002	1.67E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-7.97E-002	1.44E-001	2.48E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.17E-001	2.32E-001	4.03E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.03E-002	8.62E-002	1.58E-001
SB-125	NOT FOUND/DATA for 427.89 keV			5.37E-002	2.74E-001	5.47E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.63E-002	1.22E-001	2.19E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.62E-002	1.25E-001	2.70E-001
TL-208	4.07E-001	1.54E-001	2.48E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			9.68E-001	2.72E-001	5.94E-001
BI-214	7.98E-001	2.99E-001	4.62E-001	FOUND		
PB-214	8.37E-001	2.96E-001	5.12E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.19E+000	2.49E+000	5.01E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.41E+000	6.81E-001	1.60E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.65E+001	4.47E+001	7.26E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.37E+000	3.36E+000	6.36E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.27E-002	3.80E-001	6.52E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.65E+001	2.11E+001	4.83E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.55E+000	1.89E+000	3.68E+000
U-234	NOT FOUND/DATA for 53.20 keV			-7.75E+001	3.41E+002	6.33E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.60E-001	1.53E-001	3.02E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.55E+000	1.89E+000	3.68E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.02E-004	7.04E-001	1.30E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0505-082
Sample Title:	B17 FSS - #19
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	6.642E+002 g
Sample Taken On:	5/9/2005 11:15:00 AM
Acquisition Started:	5/10/2005 10:20:18 AM
Live Time:	600.0 seconds
Real Time:	601.0 seconds
Dead Time:	0.16 %
Efficiency ID:	srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.29E+001	4.12E+000	3.13E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.11E-002	7.28E-002	1.69E-001
CO-57	NOT FOUND/DATA for 122.06 keV			5.77E-002	9.67E-002	1.79E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-2.25E-002	1.32E-001	2.54E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			3.30E-002	2.38E-001	4.85E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			1.82E-002	8.65E-002	1.74E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-7.66E-002	2.88E-001	5.24E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.32E-001	9.35E-002	1.20E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.60E-002	1.15E-001	2.49E-001
TL-208	2.05E-001	1.15E-001	2.03E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			8.18E-001	2.77E-001	5.91E-001
BI-214	NOT FOUND/DATA for 609.31 keV			4.64E-001	3.29E-001	7.08E-001
PB-214	7.03E-001	6.81E-001	4.57E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.30E+000	2.32E+000	4.65E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.11E+000	6.55E-001	1.52E+000
TH-230	NOT FOUND/DATA for 67.67 keV			6.45E+000	4.10E+001	7.83E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.07E+000	3.95E+000	7.35E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.68E-001	4.74E-001	7.19E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.43E+000	1.68E+001	3.28E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-5.46E-001	2.10E+000	3.51E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.72E+002	3.51E+002	7.20E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.19E-001	1.39E-001	2.77E-001
U-238	NOT FOUND/DATA for 92.60 keV			-5.46E-001	2.10E+000	3.51E+000
AM-241	NOT FOUND/DATA for 59.54 keV			6.17E-002	7.04E-001	1.34E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-083
Sample Title: B17 FSS - #20
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.513E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 10:02:19 AM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.28E+001	4.20E+000	2.62E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			6.36E-002	1.13E-001	2.50E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-2.17E-002	1.07E-001	1.81E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.97E-002	1.19E-001	2.76E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.02E-001	3.29E-001	3.26E-001
AG-110m	NOT FOUND/DATA for 1384.30 keV			0.00E+000	0.00E+000	2.29E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.13E-001	2.80E-001	4.73E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.24E-003	1.19E-001	2.21E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.67E-002	1.30E-001	2.64E-001
TL-208	2.63E-001	1.41E-001	2.39E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.30E+000	3.24E-001	6.96E-001
BI-214	5.71E-001	2.82E-001	4.55E-001	FOUND		
PB-214	8.76E-001	4.23E-001	5.10E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.09E+000	2.59E+000	4.88E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.04E+000	6.03E-001	1.44E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.63E+001	5.32E+001	8.60E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.88E+000	4.08E+000	6.52E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.20E-001	4.72E-001	7.41E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.56E+000	1.17E+001	3.34E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.06E+000	1.92E+000	3.51E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.21E+002	3.78E+002	7.34E+002
U-235	NOT FOUND/DATA for 185.71 keV			-7.53E-003	1.58E-001	2.88E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.06E+000	1.92E+000	3.51E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.24E-001	7.17E-001	1.39E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-084
Sample Title: B17 FSS - #21
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.677E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 8:57:51 AM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.57E+001	4.21E+000	2.77E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.80E-002	1.08E-001	1.68E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.01E-002	1.01E-001	1.65E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.96E-002	1.43E-001	3.10E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-4.56E-002	2.49E-001	4.82E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			1.35E-002	1.13E-001	2.23E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.21E-001	2.66E-001	5.74E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.12E-002	1.33E-001	2.01E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.52E-002	1.27E-001	2.38E-001
TL-208	4.45E-001	1.52E-001	1.88E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.17E+000	3.30E-001	6.93E-001
BI-214	NOT FOUND/DATA for 609.31 keV			6.51E-001	3.54E-001	7.80E-001
PB-214	NOT FOUND/DATA for 351.92 keV			5.26E-001	3.17E-001	6.69E-001
RA-226	NOT FOUND/DATA for 186.10 keV			1.67E+000	2.57E+000	4.94E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.63E+000	6.85E-001	1.65E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.46E+001	4.43E+001	7.79E+001
PA-231	NOT FOUND/DATA for 300.02 keV			6.78E+000	4.98E+000	8.61E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.14E-001	3.87E-001	6.45E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.15E+001	1.85E+001	4.31E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.29E+000	2.01E+000	3.67E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.13E+002	4.21E+002	8.26E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.07E-001	1.56E-001	3.15E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.29E+000	2.01E+000	3.67E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.01E-001	7.84E-001	1.44E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-085
Sample Title: B17 FSS - #22
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.335E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 9:44:00 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.61E+001	1.17E+001	2.21E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			9.09E-002	9.15E-002	2.22E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.75E-002	9.40E-002	1.68E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.67E-002	6.84E-002	1.91E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-3.39E-002	2.55E-001	4.68E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-7.35E-002	1.43E-001	1.71E-001
SB-125	NOT FOUND/DATA for 427.89 keV			8.04E-002	2.67E-001	5.38E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-8.10E-002	1.11E-001	1.60E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-3.75E-002	1.12E-001	2.07E-001
TL-208	4.11E-001	1.49E-001	2.36E-001	FOUND		
PB-212	1.39E+000	6.51E-001	5.06E-001	FOUND		
BI-214	9.77E-001	1.36E+000	3.77E-001	FOUND		
PB-214	8.37E-001	2.63E-001	4.76E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.10E-001	2.43E+000	4.49E+000
AC-228	1.38E+000	1.57E+000	5.84E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			-2.00E+001	4.15E+001	7.32E+001
PA-231	NOT FOUND/DATA for 300.02 keV			8.87E-001	3.58E+000	6.55E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.77E-003	3.99E-001	6.76E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.55E+000	2.04E+001	4.30E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.55E+000	2.07E+000	3.77E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.42E+002	3.26E+002	6.52E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.71E-003	1.48E-001	2.71E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.55E+000	2.07E+000	3.77E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-6.28E-001	7.04E-001	1.12E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-086
Sample Title: B17 FSS - #23
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.935E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 9:29:50 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	1.84E+001	3.99E+000	3.92E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.49E-002	1.07E-001	2.50E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.82E-003	1.18E-001	2.02E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.39E-001	1.36E-001	3.48E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			9.41E-002	2.59E-001	5.78E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.17E-003	1.22E-001	2.40E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-9.87E-002	3.12E-001	5.43E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.07E-002	1.11E-001	2.08E-001
CS-137	NOT FOUND/DATA for 661.66 keV			1.16E-001	1.57E-001	3.37E-001
TL-208	4.22E-001	1.66E-001	2.41E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.09E+000	3.33E-001	7.10E-001
BI-214	7.67E-001	8.96E-001	5.14E-001	FOUND		
PB-214	1.32E+000	3.89E-001	6.24E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			5.88E+000	3.16E+000	6.49E+000
AC-228	NOT FOUND/DATA for 911.21 keV			2.12E+000	8.98E-001	2.08E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.86E+001	5.25E+001	1.04E+002
PA-231	NOT FOUND/DATA for 300.02 keV			1.41E+000	4.24E+000	7.71E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.58E-001	4.27E-001	7.55E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			4.58E+000	1.96E+001	4.31E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.96E+000	2.37E+000	4.66E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.37E+002	4.20E+002	7.43E+002
U-235	NOT FOUND/DATA for 185.71 keV			3.15E-001	1.90E-001	3.87E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.96E+000	2.37E+000	4.66E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-3.78E-001	8.40E-001	1.50E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-087
Sample Title: B17 FSS - #24
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.712E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/9/2005 4:14:20 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.57E+001	4.85E+000	3.16E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			3.74E-002	1.03E-001	2.31E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.91E-002	1.01E-001	1.71E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			2.64E-002	1.35E-001	2.99E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			4.99E-002	2.61E-001	5.63E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.61E-002	1.23E-001	2.39E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-5.94E-002	3.09E-001	5.87E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-4.50E-002	1.36E-001	2.35E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.32E-003	1.58E-001	3.01E-001
TL-208	NOT FOUND/DATA for 583.19 keV			1.62E-001	1.85E-001	3.84E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.07E+000	3.14E-001	6.88E-001
BI-214	NOT FOUND/DATA for 609.31 keV			8.17E-001	3.84E-001	8.80E-001
PB-214	1.19E+000	3.50E-001	5.65E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			9.14E-001	2.62E+000	5.01E+000
AC-228	NOT FOUND/DATA for 911.21 keV			6.08E-001	6.90E-001	1.51E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.64E+001	5.22E+001	1.01E+002
PA-231	NOT FOUND/DATA for 300.02 keV			3.33E+000	4.63E+000	8.54E+000
PA-234	NOT FOUND/DATA for 98.44 keV			2.56E-001	4.88E-001	8.86E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.46E+000	2.08E+001	4.16E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.00E+000	3.78E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.28E+002	4.89E+002	8.05E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.26E-001	1.56E-001	3.12E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.00E+000	3.78E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.31E-002	7.77E-001	1.47E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-088
Sample Title: B17 FSS - #25
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.137E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 10:42:17 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.58E+001	4.45E+000	2.88E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.46E-002	1.07E-001	2.29E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.86E-002	1.18E-001	1.99E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.54E-001	1.25E-001	3.37E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.12E-001	2.67E-001	4.47E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-6.87E-002	9.69E-002	1.60E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.26E-003	2.90E-001	5.68E-001
CS-134	NOT FOUND/DATA for 795.84 keV			2.83E-002	1.42E-001	2.43E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.67E-002	1.39E-001	2.80E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.15E-001	2.09E-001	4.58E-001
PB-212	1.67E+000	7.42E-001	5.36E-001	FOUND		
BI-214	8.33E-001	3.27E-001	4.56E-001	FOUND		
PB-214	6.91E-001	2.86E-001	5.03E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.87E+000	2.67E+000	5.13E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.56E+000	7.56E-001	1.78E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.17E+001	4.92E+001	8.61E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.97E+000	4.27E+000	7.83E+000
PA-234	NOT FOUND/DATA for 883.24 keV			-7.53E-001	1.06E+000	7.78E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.89E+000	2.37E+001	4.92E+001
TH-234	NOT FOUND/DATA for 92.60 keV			-9.58E-002	2.24E+000	3.83E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.27E+002	4.04E+002	7.93E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.70E-002	1.64E-001	3.00E-001
U-238	NOT FOUND/DATA for 92.60 keV			-9.58E-002	2.24E+000	3.83E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-9.51E-002	8.72E-001	1.57E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location:	CE Windsor
Sample ID:	MAC-0505-089
Sample Title:	B17 FSS - #26
Detector Name:	30%HPGE
Nuclide Library Used:	C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size:	6.508E+002 g
Sample Taken On:	5/9/2005 11:15:00 AM
Acquisition Started:	5/10/2005 9:12:44 AM
Live Time:	600.0 seconds
Real Time:	600.9 seconds
Dead Time:	0.15 %
Efficiency ID:	srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.58E+001	4.40E+000	3.53E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.75E-001	2.27E-001	1.33E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.36E-002	1.08E-001	1.83E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			4.36E-002	1.34E-001	2.91E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-5.89E-002	2.87E-001	5.27E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-9.84E-002	1.28E-001	1.92E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.95E-001	2.76E-001	6.22E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.38E-001	1.07E-001	1.36E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.20E-002	1.32E-001	2.64E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.92E-001	1.90E-001	4.23E-001
PB-212	1.19E+000	2.54E-001	5.92E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			8.66E-001	3.84E-001	8.62E-001
PB-214	NOT FOUND/DATA for 351.92 keV			8.75E-001	3.78E-001	8.12E-001
RA-226	NOT FOUND/DATA for 186.10 keV			-1.23E-001	2.88E+000	5.19E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.18E+000	6.61E-001	1.55E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.61E+000	4.51E+001	8.25E+001
PA-231	NOT FOUND/DATA for 300.02 keV			5.42E+000	4.57E+000	8.25E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-3.21E-001	4.70E-001	7.38E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			9.40E+000	2.11E+001	4.64E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.40E+000	2.07E+000	3.94E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.25E+002	4.18E+002	7.48E+002
U-235	NOT FOUND/DATA for 185.71 keV			-2.74E-002	1.75E-001	3.13E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.40E+000	2.07E+000	3.94E+000
AM-241	NOT FOUND/DATA for 59.54 keV			3.61E-001	7.82E-001	1.52E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-090
Sample Title: B17 FSS - #27
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 7.058E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 11:08:22 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.09E+001	3.84E+000	3.39E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			5.21E-002	1.07E-001	2.31E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.15E-002	9.52E-002	1.52E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			5.54E-002	1.29E-001	2.93E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.70E-001	2.30E-001	5.39E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			6.63E-003	9.80E-002	1.93E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-3.40E-002	2.84E-001	5.27E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.03E-002	1.20E-001	1.97E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.57E-002	1.23E-001	2.60E-001
TL-208	4.80E-001	1.57E-001	2.02E-001	FOUND		
PB-212	1.33E+000	4.71E-001	5.82E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			7.34E-001	3.73E-001	8.10E-001
PB-214	9.83E-001	2.97E-001	5.41E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.19E+000	2.53E+000	4.91E+000
AC-228	1.78E+000	2.28E-001	9.63E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			1.48E+001	4.98E+001	8.47E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.83E-001	3.75E+000	6.59E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.96E-001	4.26E-001	6.43E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-9.09E+000	2.15E+001	2.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.25E+000	4.03E+000
U-234	NOT FOUND/DATA for 53.20 keV			-4.77E+001	3.52E+002	6.51E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.68E-001	1.53E-001	3.03E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.53E+000	2.25E+000	4.03E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.79E-001	6.97E-001	1.34E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-091
Sample Title: B17 FSS - #28
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.239E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 12:24:06 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.96E+001	1.84E+001	3.29E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.19E-002	1.25E-001	2.72E-001
CO-57	NOT FOUND/DATA for 122.06 keV			9.47E-003	1.04E-001	1.83E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			1.01E-001	1.14E-001	2.95E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.60E-002	3.16E-001	5.81E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-6.97E-003	1.01E-001	1.97E-001
SB-125	NOT FOUND/DATA for 427.89 keV			9.04E-002	2.92E-001	5.97E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.08E-001	1.06E-001	1.55E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-3.30E-002	1.31E-001	2.44E-001
TL-208	3.71E-001	6.77E-001	2.53E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.12E+000	3.22E-001	6.90E-001
BI-214	NOT FOUND/DATA for 609.31 keV			1.09E+000	4.24E-001	9.58E-001
PB-214	1.14E+000	2.88E-001	4.77E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.35E+000	2.74E+000	5.09E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.97E+000	7.22E-001	1.80E+000
TH-230	NOT FOUND/DATA for 67.67 keV			5.39E+000	4.57E+001	8.60E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-6.33E-001	4.79E+000	8.28E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.33E-001	4.83E-001	7.98E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.60E+000	2.09E+001	3.81E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.41E-001	1.93E+000	3.38E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.33E+001	4.10E+002	7.37E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.93E-002	1.67E-001	3.18E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.41E-001	1.93E+000	3.38E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.19E-001	8.21E-001	1.50E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-092
Sample Title: B17 FSS - #29
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.091E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 6:38:55 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.64E+001	4.73E+000	4.12E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.64E-002	9.29E-002	2.17E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.53E-002	1.19E-001	2.08E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			5.89E-003	1.22E-001	2.57E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-8.43E-002	3.70E-001	5.63E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-5.17E-002	1.29E-001	2.34E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.68E-003	3.20E-001	6.11E-001
CS-134	NOT FOUND/DATA for 604.70 keV			1.39E-002	1.12E-001	2.11E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.21E-002	1.70E-001	3.19E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.37E-001	2.04E-001	4.57E-001
PB-212	1.66E+000	5.46E-001	5.51E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			9.67E-001	3.78E-001	8.84E-001
PB-214	NOT FOUND/DATA for 351.92 keV			1.14E+000	4.46E-001	9.55E-001
RA-226	NOT FOUND/DATA for 186.10 keV			4.18E+000	2.89E+000	5.86E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.67E+000	8.18E-001	1.89E+000
TH-230	NOT FOUND/DATA for 67.67 keV			1.38E+001	5.19E+001	9.81E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.02E+000	4.59E+000	8.48E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-4.46E-001	5.26E-001	6.90E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			3.72E-001	1.17E+001	2.76E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.32E+000	2.34E+000	4.18E+000
U-234	NOT FOUND/DATA for 53.20 keV			5.00E+002	4.35E+002	8.93E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.58E-001	1.77E-001	3.46E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.32E+000	2.34E+000	4.18E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-7.20E-001	8.48E-001	1.43E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-093
Sample Title: B17 FSS - #30
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.952E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 12:35:29 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.10E+001	4.98E+000	4.15E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			7.19E-002	1.30E-001	2.85E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.31E-002	1.06E-001	1.89E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-5.34E-002	1.42E-001	2.41E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.06E-001	4.07E-001	7.23E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-9.36E-002	1.23E-001	2.07E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.94E-002	3.53E-001	6.63E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-9.69E-002	1.14E-001	1.87E-001
CS-137	NOT FOUND/DATA for 661.66 keV			8.21E-002	1.72E-001	3.44E-001
TL-208	4.41E-001	1.71E-001	2.41E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.44E+000	3.94E-001	8.19E-001
BI-214	1.43E+000	1.37E+000	4.12E-001	FOUND		
PB-214	1.10E+000	1.11E+000	5.86E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.92E+000	2.78E+000	5.39E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.51E+000	7.92E-001	1.83E+000
TH-230	NOT FOUND/DATA for 67.67 keV			6.24E+000	5.30E+001	9.67E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.87E+000	4.67E+000	8.56E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-5.87E-001	6.20E-001	7.56E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.60E+001	2.56E+001	5.52E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.59E+000	2.24E+000	4.40E+000
U-234	NOT FOUND/DATA for 53.20 keV			-3.77E+000	4.20E+002	7.88E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.63E-002	1.68E-001	3.18E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.59E+000	2.24E+000	4.40E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.24E-001	8.37E-001	1.52E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-094
Sample Title: B17 FSS - #31
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.417E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 11:51:27 AM
Live Time: 600.0 seconds
Real Time: 601.1 seconds
Dead Time: 0.18 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.56E+001	1.32E+001	3.94E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.68E-002	1.24E-001	2.26E-001
CO-57	NOT FOUND/DATA for 122.06 keV			4.00E-002	1.29E-001	2.26E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-1.14E-002	1.40E-001	2.89E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.93E-002	2.94E-001	5.95E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.73E-002	1.10E-001	2.13E-001
SB-125	NOT FOUND/DATA for 427.89 keV			8.68E-002	4.11E-001	8.03E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.22E-001	1.56E-001	2.28E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.10E-002	1.53E-001	3.06E-001
TL-208	7.67E-001	2.20E-001	2.85E-001	FOUND		
PB-212	1.85E+000	5.59E-001	6.92E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.01E+000	4.57E-001	1.03E+000
PB-214	1.28E+000	3.23E-001	5.47E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.51E+000	3.28E+000	6.14E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.10E+000	8.68E-001	1.83E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-5.51E+001	6.26E+001	1.01E+002
PA-231	NOT FOUND/DATA for 300.02 keV			2.48E+000	4.38E+000	8.30E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.87E-001	5.47E-001	7.98E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-2.05E+001	3.36E+001	5.02E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.43E+000	2.40E+000	4.52E+000
U-234	NOT FOUND/DATA for 53.20 keV			-8.96E+001	4.93E+002	8.99E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.90E-002	1.95E-001	3.70E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.43E+000	2.39E+000	4.52E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.32E-001	8.68E-001	1.78E+000

Uncertainty reported at 2.0 sigma

****
***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-095
Sample Title: B17 FSS - #32
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.810E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 7:59:54 AM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.69E+001	4.35E+000	3.05E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.12E-001	8.58E-002	2.29E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.03E-002	9.38E-002	1.69E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.19E-002	1.19E-001	2.51E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			5.45E-002	3.00E-001	6.08E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.33E-002	9.30E-002	1.81E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.06E-001	2.65E-001	4.73E-001
CS-134	NOT FOUND/DATA for 604.70 keV			3.69E-002	1.27E-001	2.44E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.09E-002	1.46E-001	2.61E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.73E-001	1.80E-001	4.17E-001
PB-212	9.40E-001	2.38E-001	4.62E-001	FOUND		
BI-214	1.46E+000	3.79E-001	5.84E-001	FOUND		
PB-214	8.78E-001	2.91E-001	5.11E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.13E+000	2.66E+000	5.13E+000
AC-228	9.41E-001	4.04E-001	8.08E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			8.22E+000	4.45E+001	8.34E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.15E+000	4.54E+000	8.17E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.90E-001	5.05E-001	7.54E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-4.04E+000	2.14E+001	3.99E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.61E+000	2.10E+000	3.82E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.03E+002	4.05E+002	7.87E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.09E-002	1.60E-001	2.94E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.61E+000	2.10E+000	3.82E+000
AM-241	NOT FOUND/DATA for 59.54 keV			4.44E-001	7.60E-001	1.50E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-096
Sample Title: B17 FSS - #33
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.677E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 8:46:58 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.36E+001	1.36E+001	3.70E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			9.18E-002	1.47E-001	3.21E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.09E-002	1.28E-001	2.23E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			6.80E-003	1.09E-001	2.47E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			2.07E-001	2.65E-001	6.38E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-7.83E-002	1.22E-001	2.04E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.78E-001	3.75E-001	7.83E-001
CS-134	NOT FOUND/DATA for 604.70 keV			6.94E-002	1.36E-001	2.78E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.73E-002	1.43E-001	3.03E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.84E-001	2.21E-001	4.95E-001
PB-212	1.55E+000	3.06E-001	5.05E-001	FOUND		
BI-214	1.09E+000	9.82E-001	5.13E-001	FOUND		
PB-214	9.12E-001	3.36E-001	6.29E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.70E+000	3.29E+000	6.29E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.35E+000	7.62E-001	1.78E+000
TH-230	NOT FOUND/DATA for 67.67 keV			2.79E+000	5.11E+001	9.45E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.54E+000	4.69E+000	8.72E+000
PA-234	NOT FOUND/DATA for 98.44 keV			3.99E-002	4.82E-001	8.47E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.68E+001	2.80E+001	6.01E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.03E+000	2.42E+000	4.28E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.32E+002	4.65E+002	8.10E+002
U-235	NOT FOUND/DATA for 185.71 keV			9.33E-002	1.90E-001	3.59E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.03E+000	2.42E+000	4.28E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.03E-001	8.94E-001	1.62E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-097
Sample Title: B17 FSS - #34
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.156E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 7:08:40 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.77E+001	4.80E+000	3.48E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-6.62E-002	1.37E-001	2.41E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.69E-002	1.19E-001	1.89E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-8.43E-002	1.45E-001	2.33E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.32E-001	2.71E-001	4.86E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			8.36E-002	9.82E-002	2.32E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.22E-002	3.24E-001	6.05E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.82E-002	1.37E-001	2.49E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.73E-002	1.44E-001	2.98E-001
TL-208	NOT FOUND/DATA for 583.19 keV			6.16E-001	2.17E-001	5.01E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.13E+000	3.40E-001	7.16E-001
BI-214	9.79E-001	1.02E+000	5.61E-001	FOUND		
PB-214	1.06E+000	1.76E+000	5.90E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			-3.54E-001	2.74E+000	4.91E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.89E+000	7.65E-001	1.84E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.53E+000	4.78E+001	8.98E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.18E+000	3.94E+000	7.17E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-5.96E-003	4.30E-001	7.49E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-5.70E+000	2.81E+001	4.67E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.19E+000	2.23E+000	4.17E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.89E+002	4.22E+002	8.45E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.38E-001	1.65E-001	3.23E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.19E+000	2.23E+000	4.17E+000
AM-241	NOT FOUND/DATA for 59.54 keV			5.47E-001	9.11E-001	1.78E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-098
Sample Title: B17 FSS - #35
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.525E+002 g
Sample Taken On: 5/9/2005 11:15:00 AM
Acquisition Started: 5/10/2005 8:24:51 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.23E+001	1.25E+001	3.01E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.59E-002	9.71E-002	2.02E-001
CO-57	NOT FOUND/DATA for 122.06 keV			9.47E-003	1.06E-001	1.86E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-9.16E-002	1.26E-001	1.97E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.02E-001	2.99E-001	5.26E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.82E-002	1.15E-001	1.65E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-8.63E-002	3.51E-001	5.34E-001
CS-134	NOT FOUND/DATA for 604.70 keV			3.84E-002	1.00E-001	2.06E-001
CS-137	NOT FOUND/DATA for 661.66 keV			4.00E-003	1.37E-001	2.63E-001
TL-208	3.70E-001	1.56E-001	2.56E-001	FOUND		
PB-212	9.66E-001	2.41E-001	5.22E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.05E+000	3.82E-001	8.84E-001
PB-214	8.84E-001	4.02E-001	5.82E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			2.62E+000	2.60E+000	5.14E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.46E+000	6.76E-001	1.62E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.28E+000	4.09E+001	7.16E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.23E+000	4.17E+000	7.70E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.09E-001	4.02E-001	6.69E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.05E+000	2.31E+001	4.84E+001
TH-234	NOT FOUND/DATA for 92.60 keV			3.22E+000	2.24E+000	4.29E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.38E+002	3.63E+002	7.19E+002
U-235	NOT FOUND/DATA for 185.71 keV			2.17E-001	1.58E-001	3.20E-001
U-238	NOT FOUND/DATA for 92.60 keV			3.22E+000	2.23E+000	4.29E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.83E-001	7.99E-001	1.43E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-156
Sample Title: B17 (I/S) Storm Drain Spoils - #1
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.560E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 1:51:40 PM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.38E+001	1.14E+001	3.22E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-3.30E-002	1.06E-001	1.87E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.77E-002	1.05E-001	1.76E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			3.31E-002	1.12E-001	2.60E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.52E-001	2.18E-001	3.23E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-8.64E-002	1.23E-001	1.64E-001
SB-125	NOT FOUND/DATA for 427.89 keV			3.90E-001	2.88E-001	6.63E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.49E-002	1.08E-001	1.88E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-7.27E-002	1.07E-001	1.82E-001
TL-208	NOT FOUND/DATA for 583.19 keV			2.99E-001	1.91E-001	4.06E-001
PB-212	1.20E+000	2.70E-001	4.64E-001	FOUND		
BI-214	8.70E-001	1.06E+000	4.83E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.36E-001	3.76E-001	8.05E-001
RA-226	NOT FOUND/DATA for 186.10 keV			6.45E-001	2.53E+000	4.75E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.25E+000	6.97E-001	1.61E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.87E+001	5.10E+001	8.54E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-2.72E-001	4.31E+000	6.97E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-7.92E-003	4.05E-001	7.00E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.86E+000	1.72E+001	3.62E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.50E+000	2.00E+000	3.71E+000
U-234	NOT FOUND/DATA for 53.20 keV			2.17E+002	3.62E+002	7.29E+002
U-235	NOT FOUND/DATA for 185.71 keV			-5.93E-002	1.58E-001	2.77E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.50E+000	2.00E+000	3.71E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-2.97E-001	7.30E-001	1.30E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-157
Sample Title: B17 (I/S) Storm Drain Spoils - #2
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.606E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 12:49:46 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.23E+001	4.38E+000	4.00E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			1.73E-002	1.57E-001	2.65E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-1.62E-002	1.15E-001	1.97E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-3.31E-002	1.43E-001	2.80E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.12E-001	3.28E-001	5.75E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.34E-002	1.42E-001	2.55E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.63E-002	3.72E-001	7.23E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.92E-002	1.15E-001	1.98E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.75E-002	1.39E-001	2.95E-001
TL-208	6.67E-001	5.25E-001	2.70E-001	FOUND		
PB-212	1.11E+000	2.91E-001	6.10E-001	FOUND		
BI-214	7.94E-001	3.29E-001	4.65E-001	FOUND		
PB-214	1.25E+000	1.01E+000	5.45E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.19E+000	2.67E+000	5.45E+000
AC-228	NOT FOUND/DATA for 911.21 keV			2.04E+000	8.74E-001	2.05E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.80E+001	5.06E+001	9.13E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.40E+000	4.88E+000	9.09E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-1.01E-003	4.79E-001	8.32E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.27E+000	2.01E+001	4.56E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.02E+000	2.20E+000	3.93E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.81E+002	4.86E+002	9.14E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.48E-001	1.62E-001	3.25E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.02E+000	2.20E+000	3.93E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-7.37E-002	8.34E-001	1.55E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-158
Sample Title: B17 (I/S) Storm Drain Spoils - #3
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.458E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 12:37:52 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.56E+001	1.24E+001	4.40E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.71E-002	1.34E-001	2.86E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-5.83E-002	1.24E-001	2.04E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.29E-002	1.59E-001	3.29E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.17E-001	3.05E-001	5.03E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			4.29E-003	8.66E-002	1.80E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-2.52E-001	4.25E-001	6.15E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-5.58E-003	1.58E-001	2.97E-001
CS-137	NOT FOUND/DATA for 661.66 keV			9.55E-003	1.30E-001	2.65E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.89E-001	2.03E-001	4.59E-001
PB-212	NOT FOUND/DATA for 238.63 keV			1.13E+000	3.68E-001	7.75E-001
BI-214	8.28E-001	1.40E+000	5.53E-001	FOUND		
PB-214	NOT FOUND/DATA for 351.92 keV			8.21E-001	4.05E-001	8.74E-001
RA-226	NOT FOUND/DATA for 186.10 keV			5.81E-001	3.08E+000	5.71E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.01E+000	8.21E-001	1.82E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.80E+001	5.16E+001	8.73E+001
PA-231	NOT FOUND/DATA for 300.02 keV			2.95E+000	4.44E+000	8.38E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-3.53E-004	4.83E-001	8.41E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.80E+001	2.22E+001	3.57E+001
TH-234	NOT FOUND/DATA for 92.60 keV			9.26E-001	2.36E+000	4.23E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.12E+002	3.84E+002	7.71E+002
U-235	NOT FOUND/DATA for 185.71 keV			-8.67E-003	1.81E-001	3.26E-001
U-238	NOT FOUND/DATA for 92.60 keV			9.26E-001	2.36E+000	4.23E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.03E-001	9.02E-001	1.57E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-159
Sample Title: B17 (I/S) Storm Drain Spoils - #4
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.456E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 2:07:39 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.79E+001	4.61E+000	3.59E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			3.52E-002	1.06E-001	2.30E-001
CO-57	NOT FOUND/DATA for 122.06 keV			7.77E-002	9.98E-002	1.88E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.47E-002	1.23E-001	2.61E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.45E-002	2.58E-001	5.32E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-3.99E-002	9.70E-002	1.37E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.97E-001	3.34E-001	4.78E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.23E-001	1.18E-001	1.72E-001
CS-137	NOT FOUND/DATA for 661.66 keV			5.22E-002	1.26E-001	2.66E-001
TL-208	NOT FOUND/DATA for 583.19 keV			4.84E-001	1.94E-001	4.44E-001
PB-212	1.35E+000	2.76E-001	5.79E-001	FOUND		
BI-214	7.32E-001	8.38E-001	5.18E-001	FOUND		
PB-214	6.94E-001	2.86E-001	5.78E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.53E+000	2.40E+000	4.63E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.26E+000	6.39E-001	1.54E+000
TH-230	NOT FOUND/DATA for 67.67 keV			3.96E+000	4.58E+001	8.56E+001
PA-231	NOT FOUND/DATA for 300.02 keV			1.66E+000	3.77E+000	7.09E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.20E-001	4.41E-001	7.36E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			1.83E+001	2.22E+001	5.09E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.19E+000	2.07E+000	3.77E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.72E+001	3.18E+002	6.19E+002
U-235	NOT FOUND/DATA for 185.71 keV			4.98E-002	1.45E-001	2.76E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.19E+000	2.07E+000	3.77E+000
AM-241	NOT FOUND/DATA for 59.54 keV			2.22E-001	6.40E-001	1.27E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-160
Sample Title: B17 (I/S) Storm Drain Spoils - #5
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.063E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 1:27:05 PM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.15E+001	1.42E+001	4.16E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-2.33E-002	1.24E-001	2.32E-001
CO-57	NOT FOUND/DATA for 122.06 keV			1.32E-001	1.16E-001	2.20E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			1.53E-002	1.82E-001	3.43E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			3.77E-002	3.05E-001	5.32E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			6.47E-002	1.17E-001	2.54E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.21E-001	2.99E-001	5.32E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-7.97E-003	9.31E-002	1.83E-001
CS-137	NOT FOUND/DATA for 661.66 keV			3.06E-002	1.41E-001	2.83E-001
TL-208	3.51E-001	1.55E-001	2.44E-001	FOUND		
PB-212	1.58E+000	3.26E-001	5.28E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.04E+000	4.19E-001	9.52E-001
PB-214	NOT FOUND/DATA for 351.92 keV			8.65E-001	3.54E-001	7.94E-001
RA-226	NOT FOUND/DATA for 186.10 keV			2.11E+000	2.76E+000	5.39E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.85E-001	6.89E-001	1.55E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.21E+001	4.27E+001	7.22E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-9.14E-001	3.97E+000	6.86E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.03E-001	4.77E-001	7.51E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			7.47E+000	1.88E+001	4.21E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.04E+000	2.25E+000	4.20E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.72E+002	3.96E+002	7.88E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.22E-001	1.72E-001	3.30E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.04E+000	2.25E+000	4.20E+000
AM-241	NOT FOUND/DATA for 59.54 keV			7.07E-001	7.47E-001	1.56E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-161
Sample Title: B17 (I/S) Storm Drain Spoils - #6
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.255E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 12:18:04 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.12E+001	1.52E+001	4.03E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-5.61E-002	1.19E-001	1.80E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-9.56E-003	1.03E-001	1.76E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-9.49E-002	1.44E-001	2.50E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.72E-001	3.48E-001	5.15E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-1.24E-001	1.11E-001	1.57E-001
SB-125	NOT FOUND/DATA for 427.89 keV			1.78E-001	2.77E-001	5.95E-001
CS-134	NOT FOUND/DATA for 604.70 keV			2.94E-002	1.20E-001	2.38E-001
CS-137	NOT FOUND/DATA for 661.66 keV			7.04E-002	1.46E-001	3.02E-001
TL-208	4.94E-001	1.70E-001	2.53E-001	FOUND		
PB-212	1.33E+000	3.06E-001	5.71E-001	FOUND		
BI-214	8.99E-001	8.90E-001	4.51E-001	FOUND		
PB-214	8.36E-001	8.85E-001	5.69E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			3.28E+000	2.68E+000	5.36E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.63E+000	7.28E-001	1.74E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.16E+001	4.62E+001	8.04E+001
PA-231	NOT FOUND/DATA for 300.02 keV			9.59E-001	4.31E+000	7.80E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-1.35E-002	4.38E-001	7.60E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-7.24E-001	1.84E+001	3.48E+001
TH-234	NOT FOUND/DATA for 92.60 keV			7.88E-001	2.34E+000	4.10E+000
U-234	NOT FOUND/DATA for 53.20 keV			-1.58E+001	4.33E+002	8.06E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.15E-001	1.62E-001	3.12E-001
U-238	NOT FOUND/DATA for 92.60 keV			7.88E-001	2.34E+000	4.10E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.08E-001	7.07E-001	1.34E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-162
Sample Title: B17 (I/S) Storm Drain Spoils - #7
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.422E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 2:30:04 PM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.15 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.75E+001	4.87E+000	1.99E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			2.17E-002	1.05E-001	2.26E-001
CO-57	NOT FOUND/DATA for 122.06 keV			3.67E-002	1.07E-001	1.96E-001
CO-60	NOT FOUND/DATA for 1173.24 keV			-5.03E-002	1.43E-001	2.65E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.03E-001	2.85E-001	6.33E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.10E-002	1.20E-001	2.13E-001
SB-125	NOT FOUND/DATA for 427.89 keV			2.15E-001	1.89E-001	5.13E-001
CS-134	NOT FOUND/DATA for 604.70 keV			2.41E-002	1.04E-001	2.16E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.55E-002	1.30E-001	2.21E-001
TL-208	NOT FOUND/DATA for 583.19 keV			3.60E-001	2.11E-001	4.62E-001
PB-212	1.25E+000	3.18E-001	5.54E-001	FOUND		
BI-214	8.88E-001	3.62E-001	4.88E-001	FOUND		
PB-214	1.20E+000	3.89E-001	7.01E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.89E+000	3.18E+000	6.08E+000
AC-228	NOT FOUND/DATA for 911.21 keV			8.98E-001	7.55E-001	1.70E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-1.27E+001	4.72E+001	8.61E+001
PA-231	NOT FOUND/DATA for 300.02 keV			3.19E+000	4.98E+000	9.27E+000
PA-234	NOT FOUND/DATA for 98.44 keV			1.69E-001	5.10E-001	9.05E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.78E+000	1.95E+001	4.01E+001
TH-234	NOT FOUND/DATA for 92.60 keV			5.15E-001	2.43E+000	4.26E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.69E+002	4.88E+002	9.45E+002
U-235	NOT FOUND/DATA for 185.71 keV			6.66E-002	1.91E-001	3.60E-001
U-238	NOT FOUND/DATA for 92.60 keV			5.15E-001	2.43E+000	4.26E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.73E-001	7.69E-001	1.51E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-163
Sample Title: B17 (I/S) Storm Drain Spoils - #8
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.798E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 1:11:56 PM
Live Time: 600.0 seconds
Real Time: 601.0 seconds
Dead Time: 0.16 %
Efficiency ID: srs035

	IDENTIFIED RADIONUCLIDES			UNIDENTIFIED RADIONUCLIDES		
Nuclide Name	Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	2.32E+001	4.41E+000	3.12E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			4.61E-002	1.16E-001	2.56E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-3.62E-002	1.11E-001	1.79E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			-2.25E-002	1.33E-001	2.70E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-2.78E-001	3.56E-001	5.56E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-4.85E-002	1.29E-001	1.85E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-6.42E-002	3.37E-001	6.22E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.65E-003	1.08E-001	2.13E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-2.82E-002	1.41E-001	2.62E-001
TL-208	2.85E-001	1.55E-001	2.98E-001	FOUND		
PB-212	1.53E+000	7.67E-001	6.15E-001	FOUND		
BI-214	1.07E+000	3.77E-001	5.18E-001	FOUND		
PB-214	1.36E+000	3.73E-001	5.65E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.09E+000	2.89E+000	5.43E+000
AC-228	NOT FOUND/DATA for 911.21 keV			1.36E+000	8.36E-001	1.88E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-2.63E+001	4.85E+001	8.53E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-8.30E-001	4.30E+000	7.32E+000
PA-234	NOT FOUND/DATA for 98.44 keV			-2.01E-001	4.60E-001	7.42E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			-1.56E+000	2.35E+001	4.69E+001
TH-234	NOT FOUND/DATA for 92.60 keV			1.19E+000	2.34E+000	4.23E+000
U-234	NOT FOUND/DATA for 53.20 keV			4.51E+001	4.37E+002	8.24E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.89E-001	1.77E-001	3.52E-001
U-238	NOT FOUND/DATA for 92.60 keV			1.19E+000	2.34E+000	4.23E+000
AM-241	NOT FOUND/DATA for 59.54 keV			1.40E-001	7.43E-001	1.42E+000

Uncertainty reported at 2.0 sigma

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***** C E R T I F I C A T E O F A N A L Y S I S *****
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Site Location: CE Windsor
Sample ID: MAC-0505-164
Sample Title: B17 (I/S) Storm Drain Spoils - #9
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 5.929E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 11:28:12 AM
Live Time: 600.0 seconds
Real Time: 600.9 seconds
Dead Time: 0.14 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.01E+001	5.16E+000	4.22E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			8.37E-003	1.14E-001	2.37E-001
CO-57	NOT FOUND/DATA for 122.06 keV			-4.81E-002	1.11E-001	1.81E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			7.33E-003	8.35E-002	2.04E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			-1.09E-001	3.12E-001	5.43E-001
AG-110m	NOT FOUND/DATA for 884.68 keV			-5.68E-003	1.08E-001	2.45E-001
SB-125	NOT FOUND/DATA for 427.89 keV			6.24E-002	3.00E-001	6.08E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-1.01E-001	1.25E-001	1.98E-001
CS-137	NOT FOUND/DATA for 661.66 keV			-3.17E-002	1.69E-001	3.10E-001
TL-208	4.27E-001	6.64E-001	3.16E-001	FOUND		
PB-212	1.70E+000	6.57E-001	6.00E-001	FOUND		
BI-214	NOT FOUND/DATA for 609.31 keV			1.03E+000	4.19E-001	9.55E-001
PB-214	1.21E+000	3.57E-001	5.64E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			4.65E+000	3.22E+000	6.45E+000
AC-228	NOT FOUND/DATA for 911.21 keV			2.12E+000	8.84E-001	2.06E+000
TH-230	NOT FOUND/DATA for 67.67 keV			-3.16E+001	4.47E+001	7.21E+001
PA-231	NOT FOUND/DATA for 300.02 keV			-1.75E-001	4.50E+000	7.98E+000
PA-234	NOT FOUND/DATA for 883.24 keV			-5.47E-001	8.77E-001	1.02E+000
PA-234M	NOT FOUND/DATA for 1001.03 keV			6.37E+000	2.53E+001	5.09E+001
TH-234	NOT FOUND/DATA for 92.60 keV			8.49E-001	2.47E+000	4.36E+000
U-234	NOT FOUND/DATA for 53.20 keV			1.66E+001	4.67E+002	8.78E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.88E-001	2.03E-001	3.87E-001
U-238	NOT FOUND/DATA for 92.60 keV			8.49E-001	2.47E+000	4.36E+000
AM-241	NOT FOUND/DATA for 59.54 keV			-1.48E-001	8.07E-001	1.44E+000

Uncertainty reported at 2.0 sigma

CERTIFICATE OF ANALYSIS

Site Location: CE Windsor
Sample ID: MAC-0505-165
Sample Title: B17 (I/S) Storm Drain Spoils - #10
Detector Name: 30%HPGE
Nuclide Library Used: C:\GENIE2K\CAMFILES\FSS.NLB
Sample Size: 6.731E+002 g
Sample Taken On: 5/10/2005 11:15:00 AM
Acquisition Started: 5/11/2005 2:18:55 PM
Live Time: 600.0 seconds
Real Time: 600.8 seconds
Dead Time: 0.13 %
Efficiency ID: srs035

Nuclide Name	IDENTIFIED RADIONUCLIDES Nuclide Activity (pCi/g)	Activity Uncert. (pCi/g)	Nuclide MDA (pCi/g)	UNIDENTIFIED RADIONUCLIDES Line Activity (pCi/g)	Line Act Uncert. (pCi/g)	Line MDA (pCi/g)
K-40	3.05E+001	4.77E+000	3.01E+000	FOUND		
MN-54	NOT FOUND/DATA for 834.83 keV			-1.13E-002	1.02E-001	1.96E-001
CO-57	NOT FOUND/DATA for 122.06 keV			2.10E-002	1.00E-001	1.77E-001
CO-60	NOT FOUND/DATA for 1332.50 keV			4.73E-002	1.11E-001	2.54E-001
ZN-65	NOT FOUND/DATA for 1115.55 keV			1.49E-002	2.92E-001	5.39E-001
AG-110m	NOT FOUND/DATA for 657.76 keV			-2.88E-002	1.22E-001	2.03E-001
SB-125	NOT FOUND/DATA for 427.89 keV			-1.55E-002	2.81E-001	5.36E-001
CS-134	NOT FOUND/DATA for 604.70 keV			-3.98E-002	1.20E-001	2.07E-001
CS-137	NOT FOUND/DATA for 661.66 keV			6.94E-002	1.24E-001	2.64E-001
TL-208	4.08E-001	1.58E-001	2.47E-001	FOUND		
PB-212	NOT FOUND/DATA for 238.63 keV			1.00E+000	3.18E-001	6.60E-001
BI-214	1.09E+000	3.50E-001	5.41E-001	FOUND		
PB-214	1.27E+000	9.14E-001	5.16E-001	FOUND		
RA-226	NOT FOUND/DATA for 186.10 keV			1.75E+000	2.36E+000	4.59E+000
AC-228	1.49E+000	7.48E-001	7.62E-001	FOUND		
TH-230	NOT FOUND/DATA for 67.67 keV			3.68E+001	4.19E+001	8.55E+001
PA-231	NOT FOUND/DATA for 300.02 keV			4.27E-001	3.82E+000	6.91E+000
PA-234	NOT FOUND/DATA for 131.20 keV			-2.99E-001	4.34E-001	6.24E-001
PA-234M	NOT FOUND/DATA for 1001.03 keV			2.50E+000	2.38E+001	4.04E+001
TH-234	NOT FOUND/DATA for 92.60 keV			2.29E+000	2.15E+000	4.03E+000
U-234	NOT FOUND/DATA for 53.20 keV			3.19E+002	4.03E+002	8.08E+002
U-235	NOT FOUND/DATA for 185.71 keV			1.67E-001	1.46E-001	2.92E-001
U-238	NOT FOUND/DATA for 92.60 keV			2.29E+000	2.15E+000	4.03E+000
AM-241	NOT FOUND/DATA for 59.54 keV			4.90E-001	7.25E-001	1.43E+000

Uncertainty reported at 2.0 sigma