

J. Noggle (P1)

From: "Croulet, Donald" <dcroule@entergy.com>
To: "jdn@nrc.gov" <jdn@nrc.gov>, "Cox, Mark R" <mcox90@entergy.com>
Date: 11/22/05 3:08PM
Subject: FW: Information requested by Mr. Noggle NRC

Sample Log.

From: Lavera, Ron
Sent: Tuesday, November 22, 2005 9:40 AM
To: Croulet, Donald; Jones, T. R.
Subject: Information requested by Mr. Noggle NRC

Would you please forward the attached to Mr. Noggle at the NRC?

Thanks

Ron

<<FSB_Sample_Log.xls>>

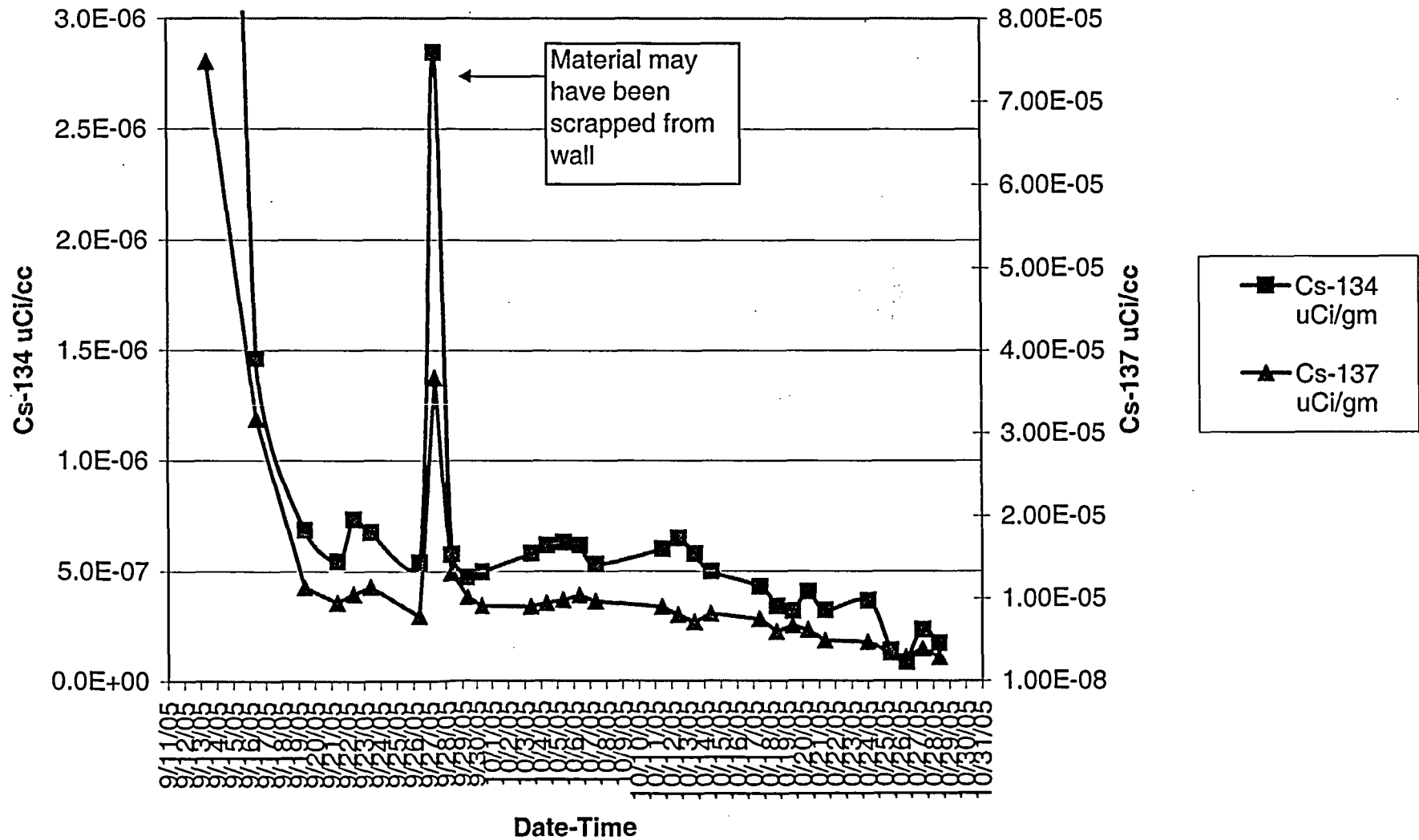
RLaVera@entergy.com <mailto:RLaVera@entergy.com>
914-736-8433
914-736-8419 FAX
Indian Point 3
Entergy Nuclear Northeast
Entergy Nuclear Operations, Inc.
Indian Point Energy Center
295 Broadway, Suite 3
P.O. Box 308
Buchanan, NY 10511-0308

CC: "Lavera, Ron" <RLavera@entergy.com>

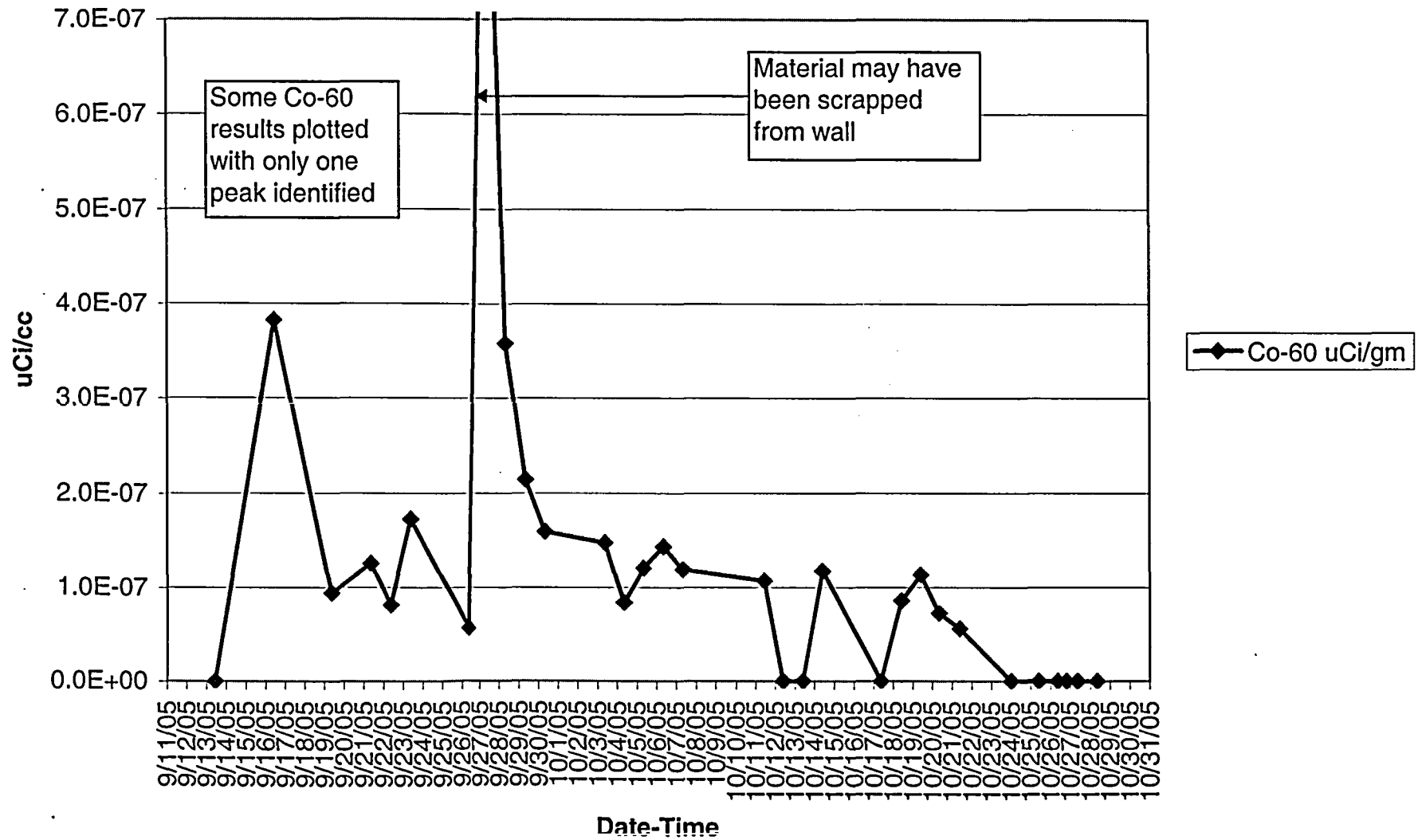
A/26

Cs-137 uCi/gm	Iron ppm leachate	Boron ppm leachate
ND	96	159
1.65E-03	628	72
8.46E-04	640	56
1.27E-04	3285	28
1.75E-05	60	226

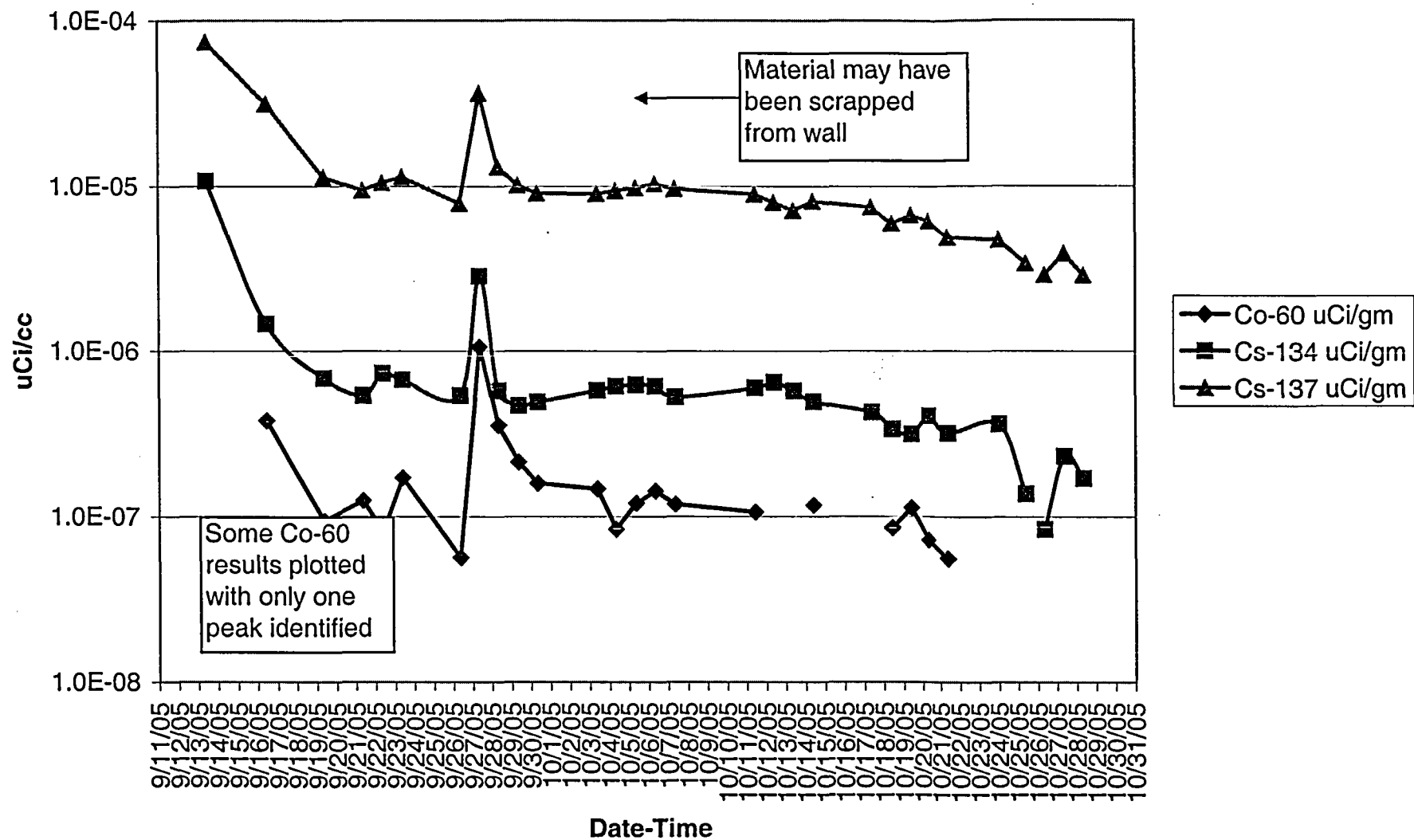
FSB Crack Water Activity



FSB Crack Water Activity



FSB Crack Water Activity



10/13/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 957 mLi over ~23 hours	40% Detector - 1 hour count	ND
10/14/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1041 mLi over 24 hours	40% Detector - 1 hour count	1.18E-07
10/17/05 9:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3682.2 mLi over 72 hours	40% Detector - 1 hour count	ND
10/18/05 10:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1344 mLi over 24 hours	40% Detector - 1 hour count	8.57E-08
10/19/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1182 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	1.14E-07
10/20/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1078 mLi over 24 hours	40% Detector	7.24E-08
10/21/05 9:15	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1288 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	5.60E-08
10/24/05 0:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3306 mLi over 71.5 hours	40% Detector - 1 hour count	ND
10/25/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1091.5 mLi over 24 hours	40% Detector - 1 hour count	ND
10/26/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1074 mLi over 23 hours - Note: Boron and Tritium values are from weekly composite sample	40% Detector - 1 hour count	ND

10/27/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1290 mLi over 24 hours	40% Detector - 1 hour count	ND
10/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1191 mLi over 24 hours	40% Detector - 1 hour count	ND
10/31/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3000 mLi over 73 hours	40% Detector - 1 hour count	ND
11/1/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1381 mLi over 24 hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	8.49E-08
11/2/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1253 mLi over 24 hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	4.71E-08
11/3/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1245 mLi over 24.5 hours	40% Detector - 1 hour count	ND

Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Boron ppm	Tritium	Apparent Age CS-137 = 1.3 * Cs-134 at start	Apparent Age CS-137 = 1.0 * Cs-134 at start	Water Leakage Rate Li/day
1.08E-05	7.47E-05	7	1265	2.10E-02	5.3	6.2	
1.46E-06	3.17E-05	22	1786	2.20E-02	9.0	9.8	0.173
6.86E-07	1.14E-05	17	1769	2.20E-02	8.1	9.0	
5.44E-07	9.52E-06	17	1965	2.17E-02	8.3	9.1	
7.35E-07	1.06E-05	14	2080		7.7	8.5	0.419
6.76E-07	1.14E-05	17	2375	1.96E-02	8.2	9.0	0.407
5.40E-07	7.89E-06	15	2045	2.05E-02	7.7	8.6	0.504
2.85E-06	3.67E-05	13	2700	1.84E-02	7.3	8.2	0.205

5.77E-07	1.32E-05	23	2720	2.00E-02	9.1	10.0	1.0008
4.71E-07	1.02E-05	22	2220		9.0	9.8	1.272
4.95E-07	9.11E-06	18	2375		8.5	9.3	1.992
5.81E-07	9.06E-06	16	1870	2.18E-02	7.9	8.8	1.896
6.16E-07	9.46E-06	15	2155	2.17E-02	7.9	8.7	1.445
6.30E-07	9.82E-06	16	2180	2.15E-02	7.9	8.8	2.180
6.16E-07	1.04E-05	17	2200	2.15E-02	8.2	9.0	1.536
5.31E-07	9.68E-06	18		2.17E-02	8.4	9.3	1.394
6.00E-07	8.99E-06	15			7.8	8.6	1.263
6.48E-07	8.01E-06	12	1590		7.2	8.0	1.008

5.78E-07	7.14E-06	12	1450		7.2	8.0	0.999
4.97E-07	8.14E-06	16			8.1	8.9	1.041
4.28E-07	7.50E-06	18	1670		8.3	9.1	1.277
3.39E-07	5.96E-06	18			8.3	9.2	1.344
3.17E-07	6.71E-06	21			8.9	9.8	1.182
4.06E-07	6.15E-06	15			7.8	8.7	1.078
3.20E-07	4.88E-06	15			7.9	8.7	1.182
3.64E-07	4.73E-06	13			7.4	8.2	1.109
1.38E-07	3.40E-06	25			9.4	10.2	1.092
8.40E-08	2.89E-06	34	1250	2.11E-02	10.5	11.3	1.120

2.32E-07	3.90E-06	17	1290	2.17E-02	8.2	9.0	1.290
1.71E-07	2.88E-06	17			8.2	9.0	1.191
2.18E-07	3.31E-06	15	1555	2.11E-02	7.9	8.7	0.986
2.57E-07	3.84E-06	15	1670		7.8	8.6	1.381
2.85E-07	4.21E-06	15	1628		7.8	8.6	1.253
2.85E-07	4.26E-06	15	1460		7.8	8.6	1.220

Inverse Cs- 137/Cs-134 Ratio	Inverse Cs- 137/Cs-134 Ratio
------------------------------------	------------------------------------

0.99685	0.144157
---------	----------

0.046164	
----------	--

0.060299	0.060299
----------	---------------------

0.057149	
----------	--

0.069574	
----------	--

0.0591	
--------	--

0.0685	
--------	--

0.077626	
----------	--

0.043878

0.046141

0.054297

0.064095

0.065137

0.064101

0.059164

0.054803

0.066719

0.080977

0.080936

0.061094

0.057042

0.056898

0.047199

0.066022

0.065581

0.07686

0.040541

0.029086

0.059615

0.059318

0.06572

0.066849

0.067711

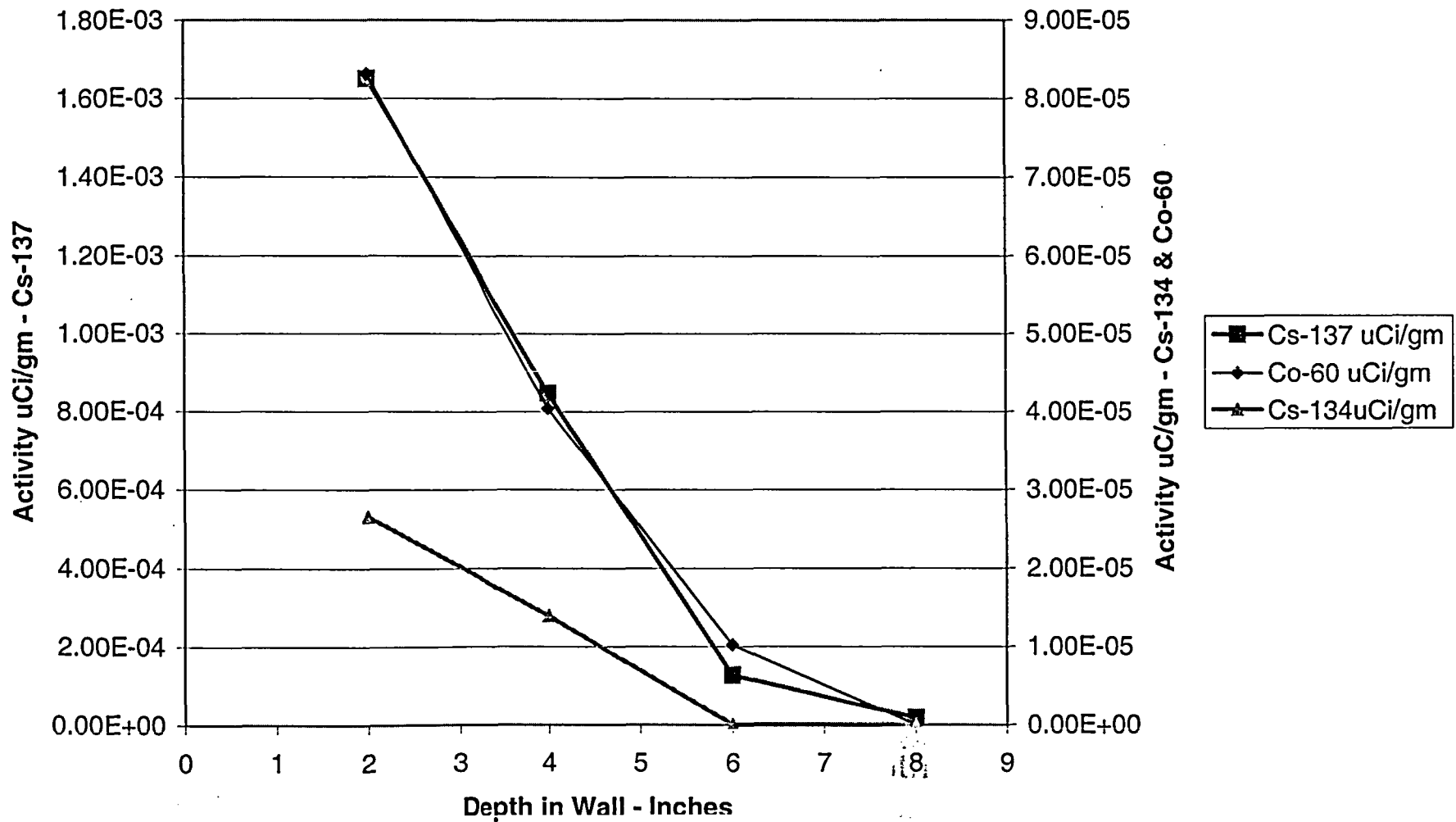
0.067058

[illegible]

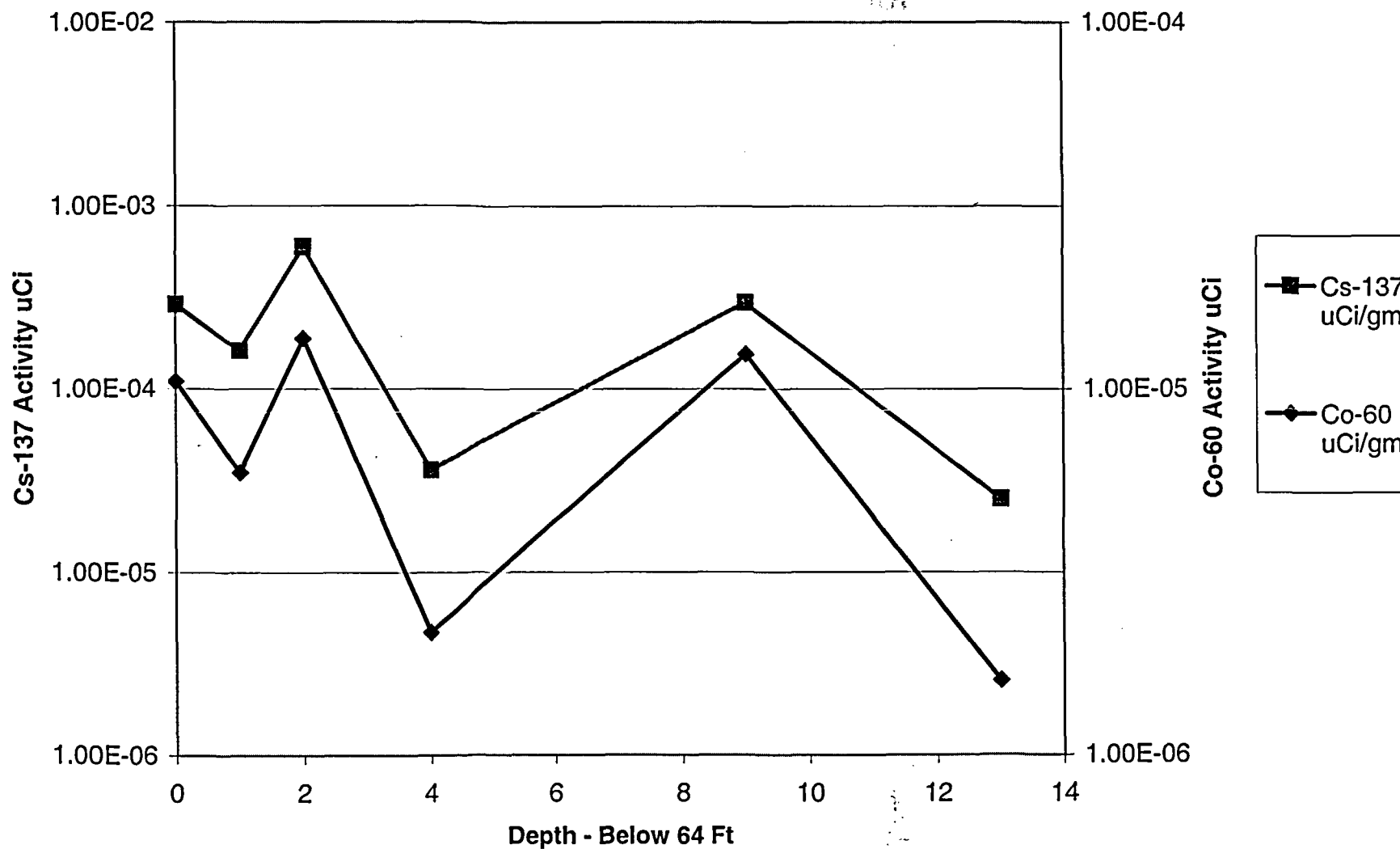
[illegible]

Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium Pico Ci/gm	Ni-63	Sr-89	Sr-90
73	1.64E-05	176.0	NA	NA	NA
NA	1.49E-05	40.3	NA	NA	NA
NA	1.48E-05	7.0	NA	NA	NA
NA	1.95E-05	7.1	NA	NA	NA
46	1.79E-05	NA	NA	NA	NA
60	1.44E-05	NA	NA	NA	NA
NA	1.48E-05	NA	NA	NA	NA
42	2.73E-05	NA	NA	NA	NA
NA	1.33E-05	NA	NA	NA	NA
NA	1.74E-05	NA	NA	NA	NA
NA	2.04E-05	NA	NA	NA	NA
NA	1.57E-05	NA	NA	NA	NA
NA	1.83E-05	NA	NA	NA	NA
NA	1.43E-05	NA	NA	NA	NA
NA	1.56E-05	NA	NA	NA	NA
NA	1.82E-05	NA	NA	NA	NA
NA	1.02E-05	NA	NA	NA	NA
NA		NA	NA	NA	NA
NA	7.00E-06	NA	NA	NA	NA
NA	7.26E-06	NA	NA	NA	NA
36	7.81E-06	37.5	NA	NA	NA
NA	1.31E-05	5.9	NA	NA	NA
NA	6.49E-06	3.3	NA	NA	NA
NA	2.36E-05	NA	NA	NA	NA
NA	1.60E-05	NA	NA	NA	NA
NA	2.22E+03	NA	NA	NA	NA

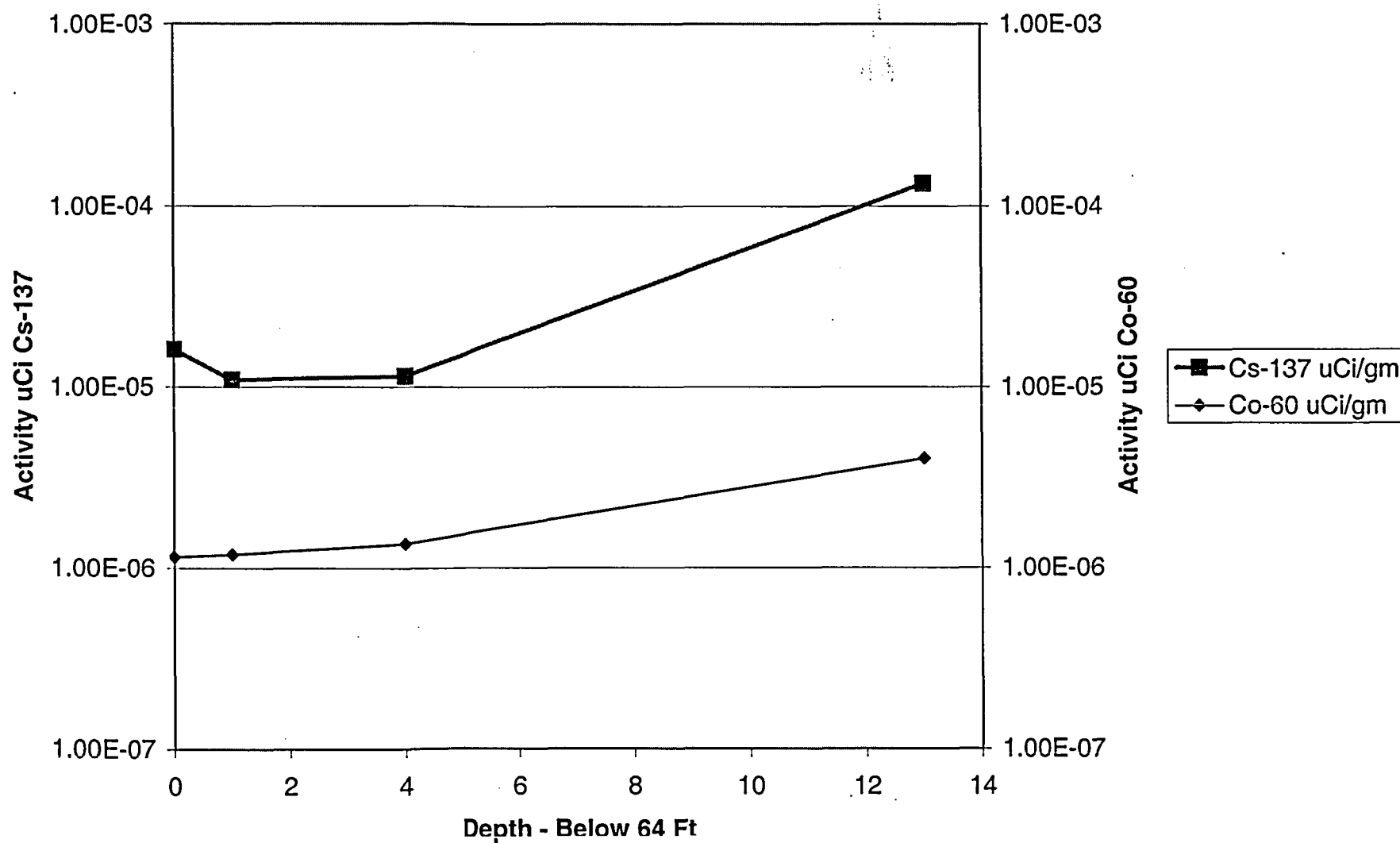
1/2" Drilled Hole - Activity vs Depth into Wall



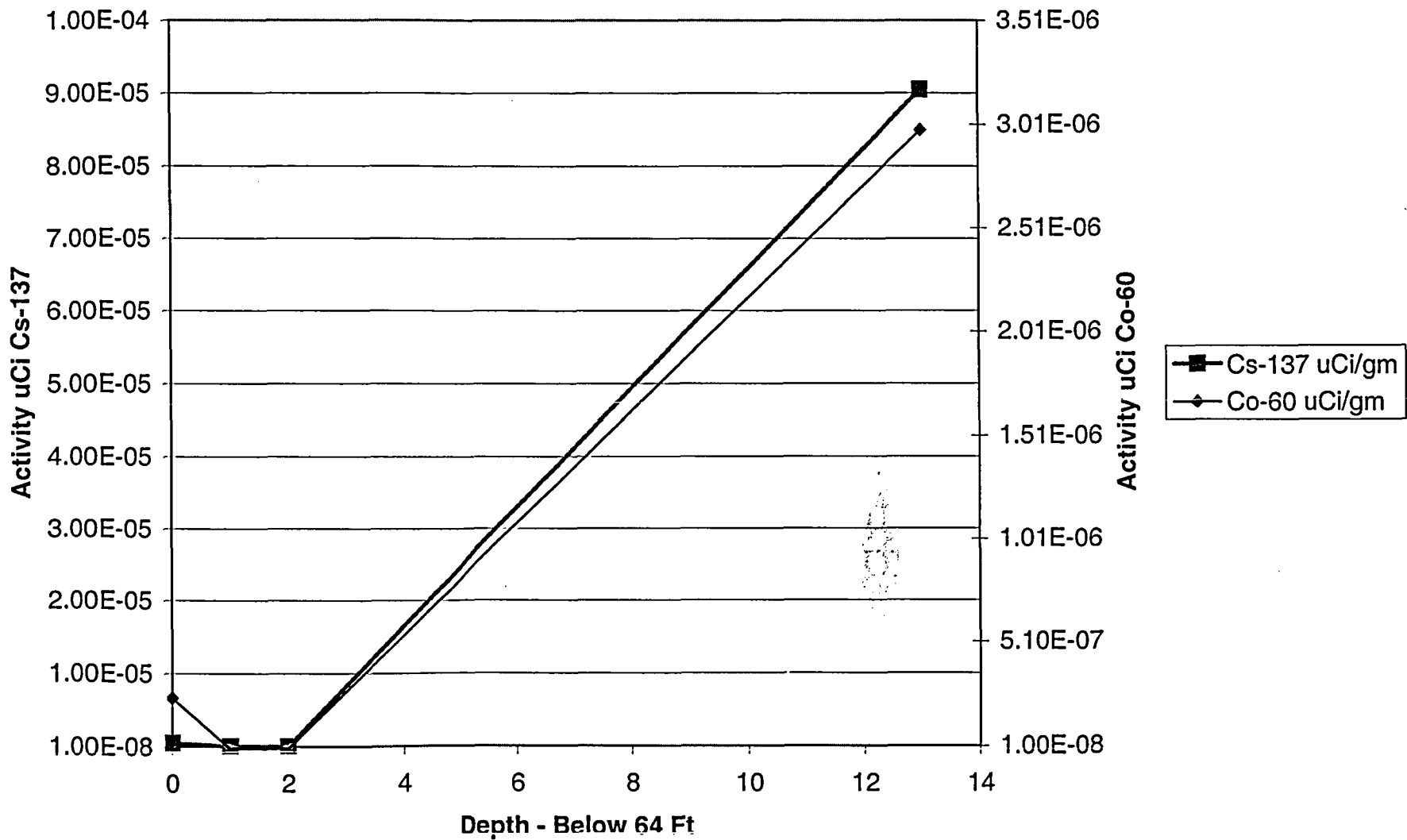
Activity vs Depth - Wall Contact



Activty vs Depth - 1 Foot from Wall



Activty vs Depth - 2 Foot from Wall

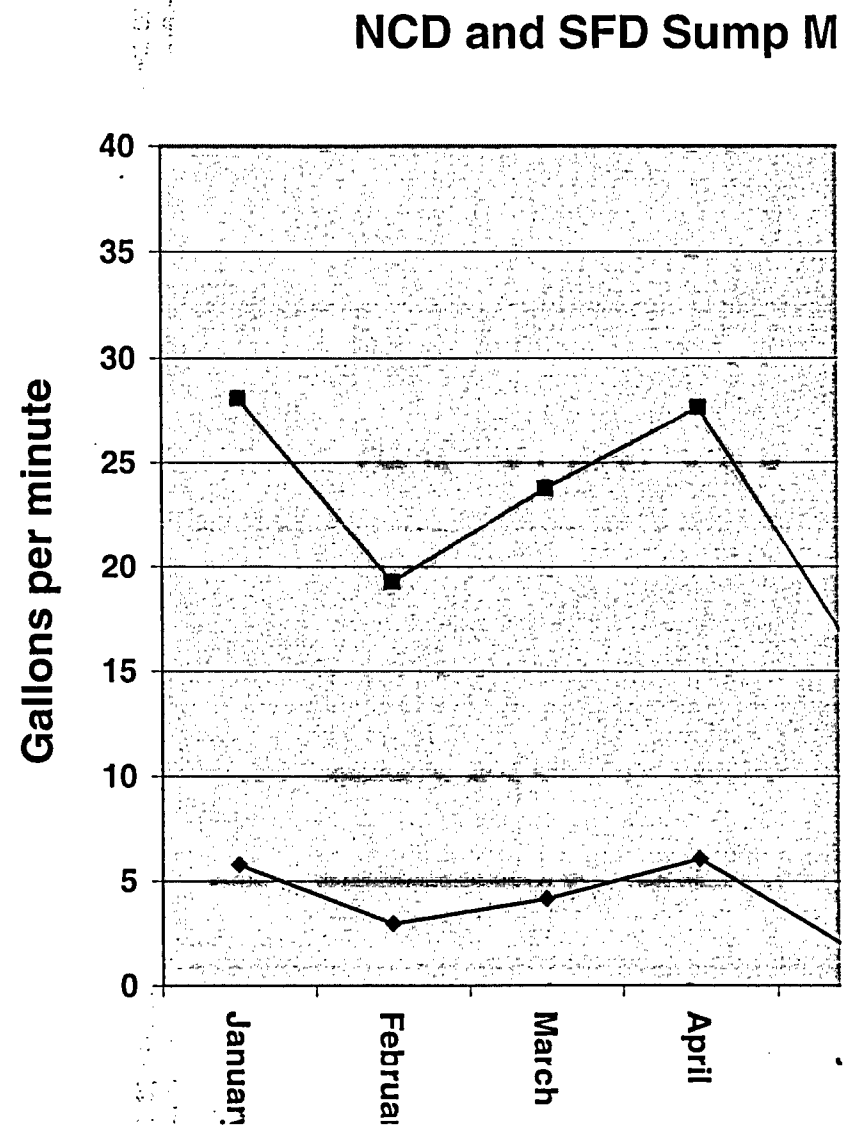


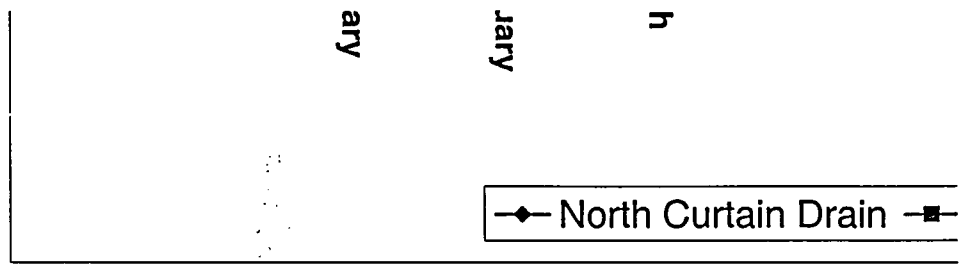
Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	0	0	1.05E-05	3.98E-06	2.92E-04
09/08/2005	0	1	5.90E-06	3.54E-06	1.63E-04
09/08/2005	0	2	1.38E-05	1.43E-05	6.00E-04
09/13/2005	0	4	2.17E-06	1.01E-06	3.60E-05
9/26/05 13:00	0	9	1.25E-05	8.66E-06	2.99E-04
9/29/05 12:00	0	13	1.60E-06	6.56E-07	2.49E-05

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	1	0	1.15E-06	ND	1.61E-05
09/08/2005	1	1	1.19E-06	1.82E-07	1.09E-05
09/13/2005	1	4	1.36E-06	ND	1.14E-05
9/29/05 8:45	1	13	4.04E-06	2.14E-06	1.33E-04

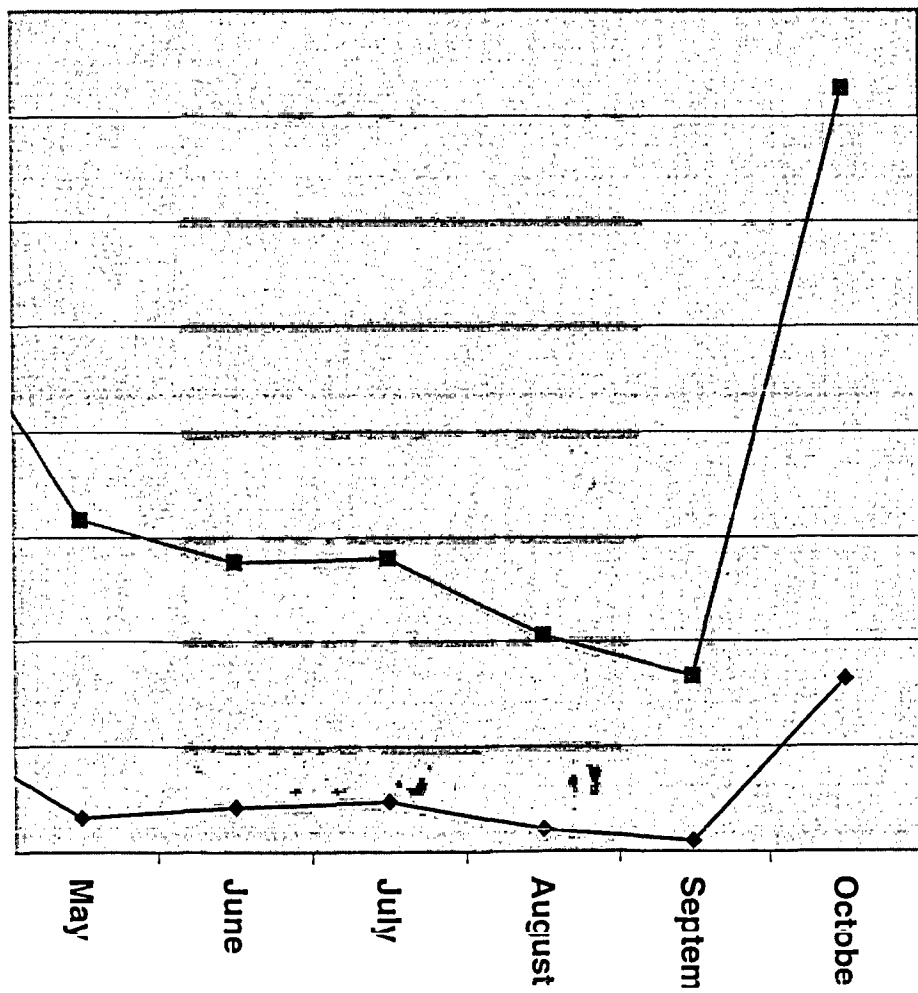
Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	2	0	2.42E-07	ND	5.07E-07
09/08/2005	2	1	ND	ND	9.44E-08
09/08/2005	2	2	ND	ND	ND
9/29/05 8:45	2	13	2.98E-06	1.85E-06	9.05E-05

Month in 2005	NCD Vol (gai)	SFDS Vol (gpm)	
January	5.8	28.1	0.0
February	2.9	19.3	0.0
March	4.1	23.8	0.0
April	6.1	27.6	0.0
May	1.6	15.9	0.0
June	2.1	13.8	0.0
July	2.4	14.0	0.0
August	1.1	10.3	0.0
September	0.5	8.3	0.0
October	8.2	36.3	0.0
November			
December			
Total	1.52E+06	8.64E+06	





Monthly Water Totals



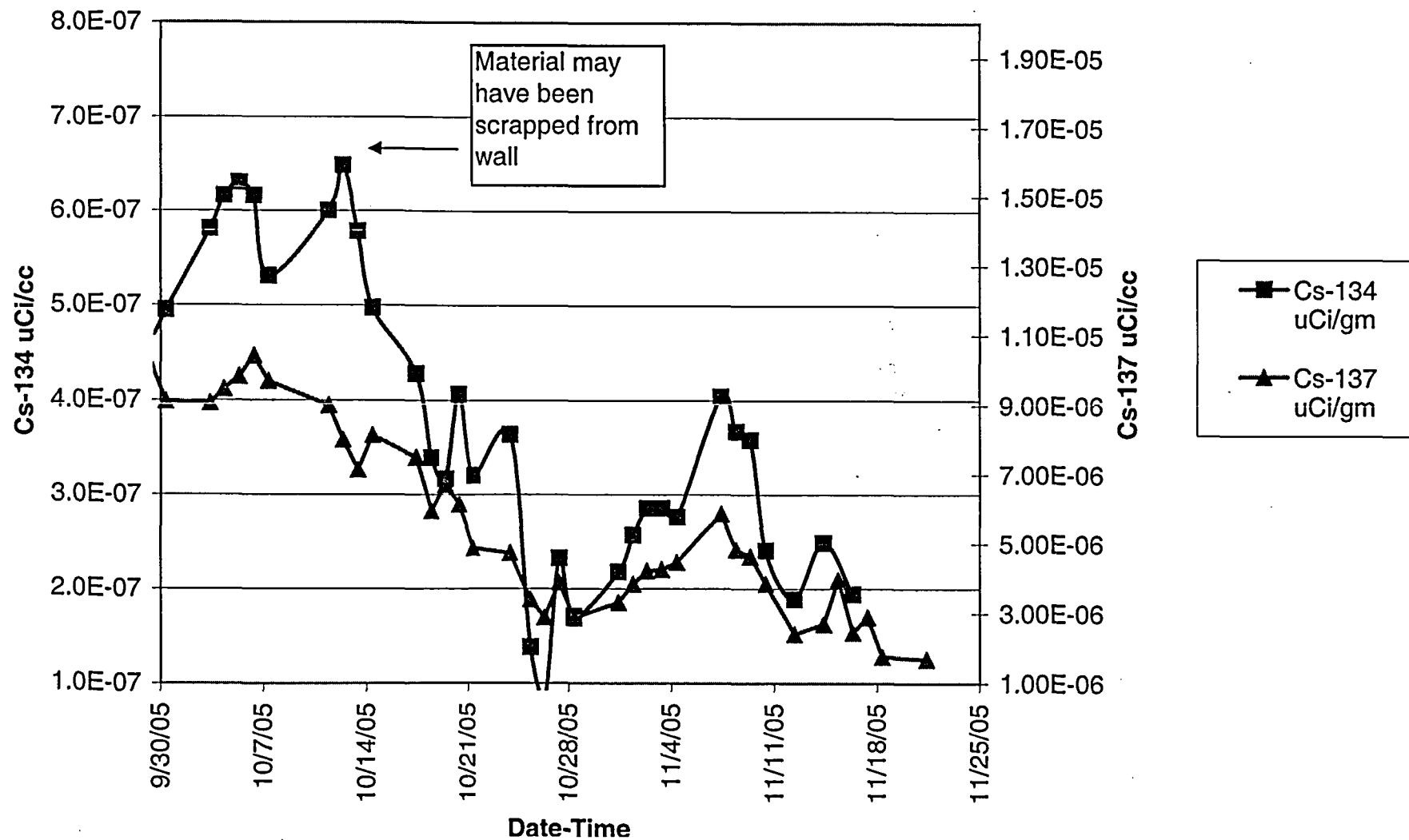
Month	ber	st
Sphere Foundation Drain Sump		

SAMPLE POINT	GROUND LEVEL	WATER LEVEL	TIME	WATER LEVEL	TIME	DATE
HIGH TIDE 1020		TO THE TOP OF		TO THE TOP OF		
LOW TIDE 1717		THE PIPE		THE PIPE		
		HIGH TIDE		LOW TIDE		
MW-107	140'	16' 8.5"	1125	17'	1628	10/16/2005
MW-108	14.5'	4' 1.5"	1025	4' 2"	1740	10/16/2005
MW-109	14.5'	4' 4"	1024	4' 4.5"	1741	10/16/2005
MW-110	134.5'	14' 8"	1115	15' 1"	1638	10/16/2005
MW-111	19'	7' 8.5"	1044	8'	1728	10/16/2005
U3-1	15'	5' 7"	1023	5' 8"	1743	10/16/2005
U3-2	15'	7' 9"	1018	8' 2"	1746	10/16/2005
U3-3	15'	7' 6.5"	1015	8' 1.5"	1747	10/16/2005
U3-4	15'	9' 1.5"	1010	9' 5.5"	1749	10/16/2005
U3-T2	5'	20" ABOVE FLOOR	1000	20" ABOVE FLOOR	1755	10/16/2005
U3-C1	15'6"	8' 5.5"	1020	12' 5"	1745	10/16/2005
U1-C1	12'	5' 2.5"	1026	8' 3"	1736	10/16/2005
MAN HOLES	GROUND LEVEL	HIGH TIDE	TIME	LOW TIDE		DATE
MW5-U1-fd 12"PIPE FROM EAST	18'	10'2"	1040	10'2"	1720	10/16/2005
MW5-u1-fdwd 12" PIPE FROM EAST	18'	1"	1040	1"	1720	10/16/2005
MW4A-fd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
MW4A-fdwd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
NOTE	The water is 6' 5" down from the ground level and the pipe to the north is complete under the wat					

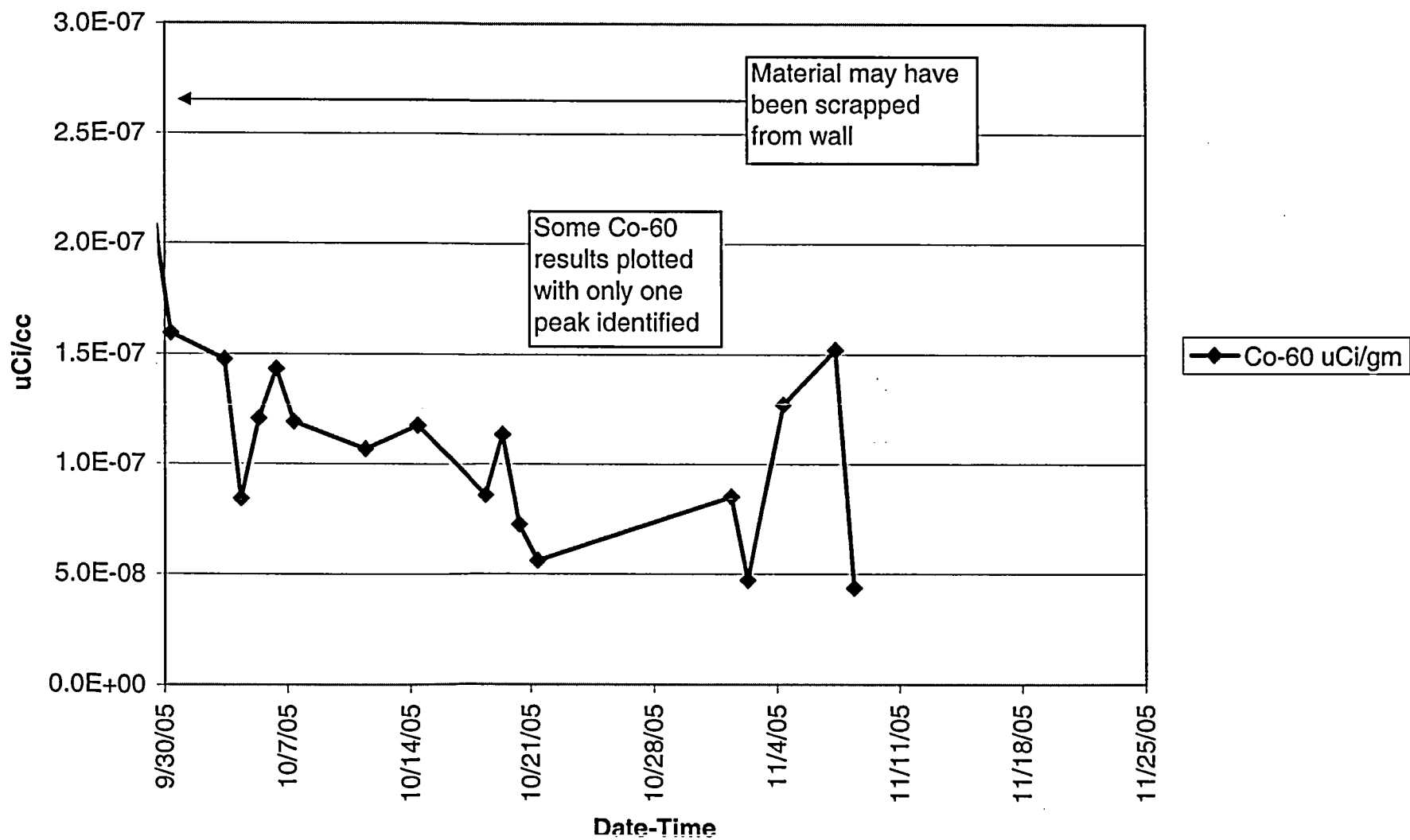
SAMPLE POINT	GROUND LEVEL	WATER LEVEL	TIME	WATER LEVEL	TIME	DATE
HIGH TIDE 1020		TO THE TOP OF		TO THE TOP OF		
LOW TIDE 1717		THE PIPE		THE PIPE		
		HIGH TIDE		LOW TIDE		
MW-107	140'	16' 8.5"	1125	17'	1628	10/16/2005
MW-108	14.5'	4' 1.5"	1025	4' 2"	1740	10/16/2005
MW-109	14.5'	4' 4"	1024	4' 4.5"	1741	10/16/2005
MW-110	134.5'	14' 8"	1115	15' 1"	1638	10/16/2005
MW-111	19'	7' 8.5"	1044	8'	1728	10/16/2005
U3-1	15'	5' 7"	1023	5' 8"	1743	10/16/2005
U3-2	15'	7' 9"	1018	8' 2"	1746	10/16/2005
U3-3	15'	7' 6.5"	1015	8' 1.5"	1747	10/16/2005
U3-4	15'	9' 1.5"	1010	9' 5.5"	1749	10/16/2005
U3-T2	5'	20" ABOVE FLOOR	1000	20" ABOVE FLOOR	1755	10/16/2005
U3-C1	15'6"	8' 5.5"	1020	12' 5"	1745	10/16/2005
U1-C1	12'	5' 2.5"	1026	8' 3"	1736	10/16/2005
MAN HOLES	GROUND LEVEL	HIGH TIDE	TIME	LOW TIDE		DATE
MW5-U1-fd 12"PIPE FROM EAST	18'	10'2"	1040	10'2"	1720	10/16/2005
MW5-u1-fdwd 12" PIPE FROM EAST	18'	1"	1040	1"	1720	10/16/2005
MW4A-fd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
MW4A-fdwd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
NOTE	The water is 6' 5" down from the ground level and the pipe to the north is complete under the wat					

Cs-137 uCi/gm	Iron ppm leachate	Boron ppm leachate
ND	96	159
1.65E-03	628	72
8.46E-04	640	56
1.27E-04	3285	28
1.75E-05	60	226

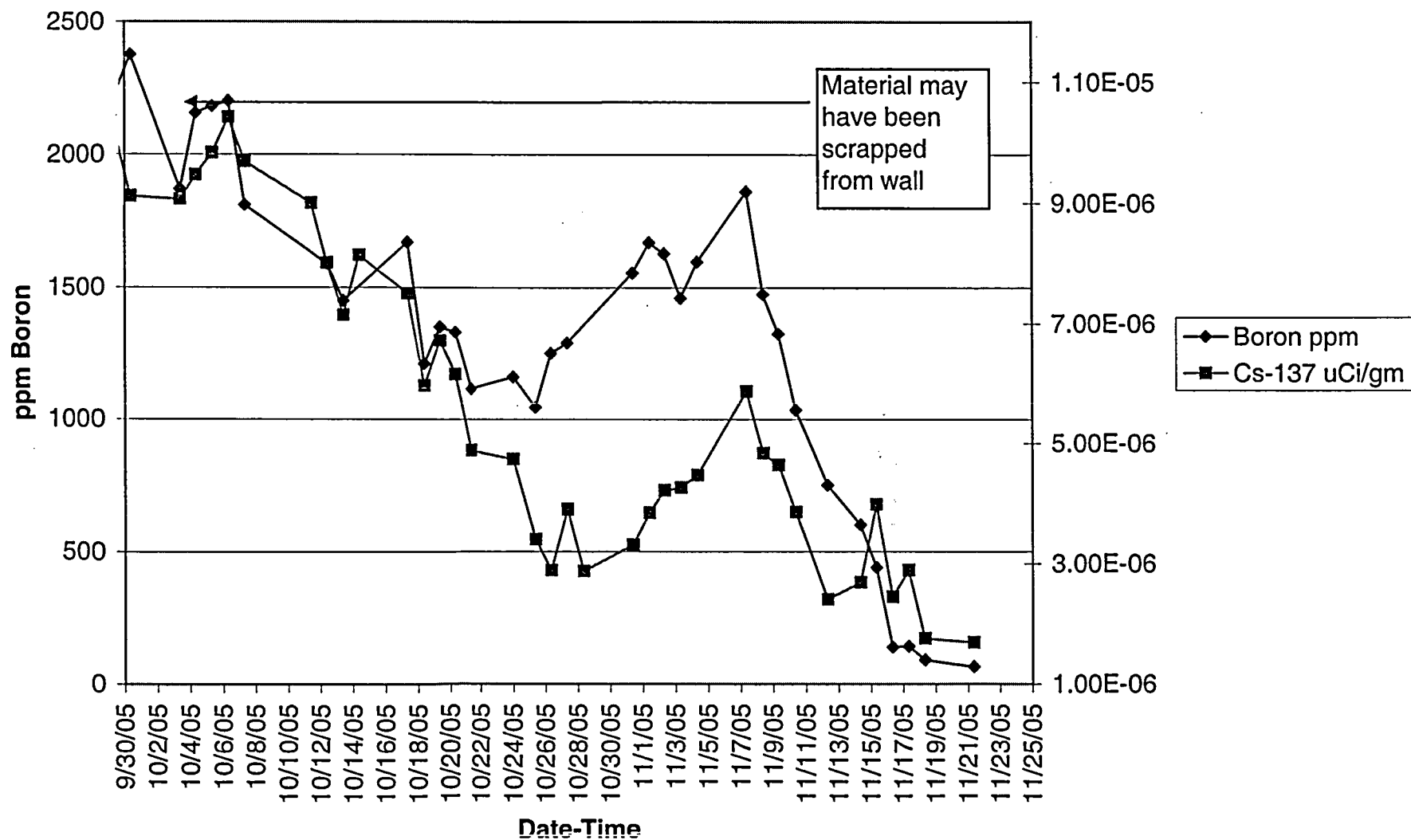
FSB Crack Water Activity



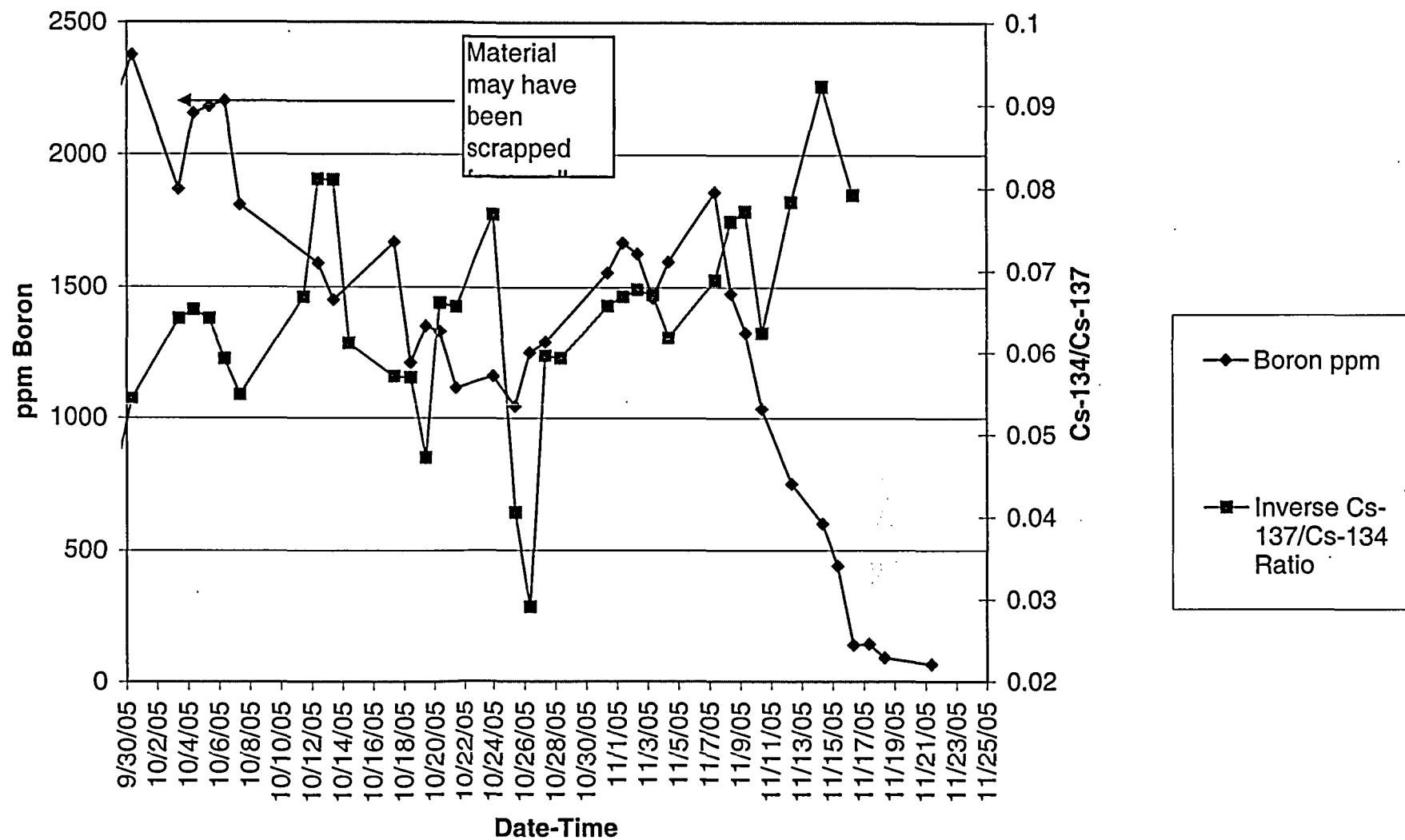
FSB Crack Water Activity



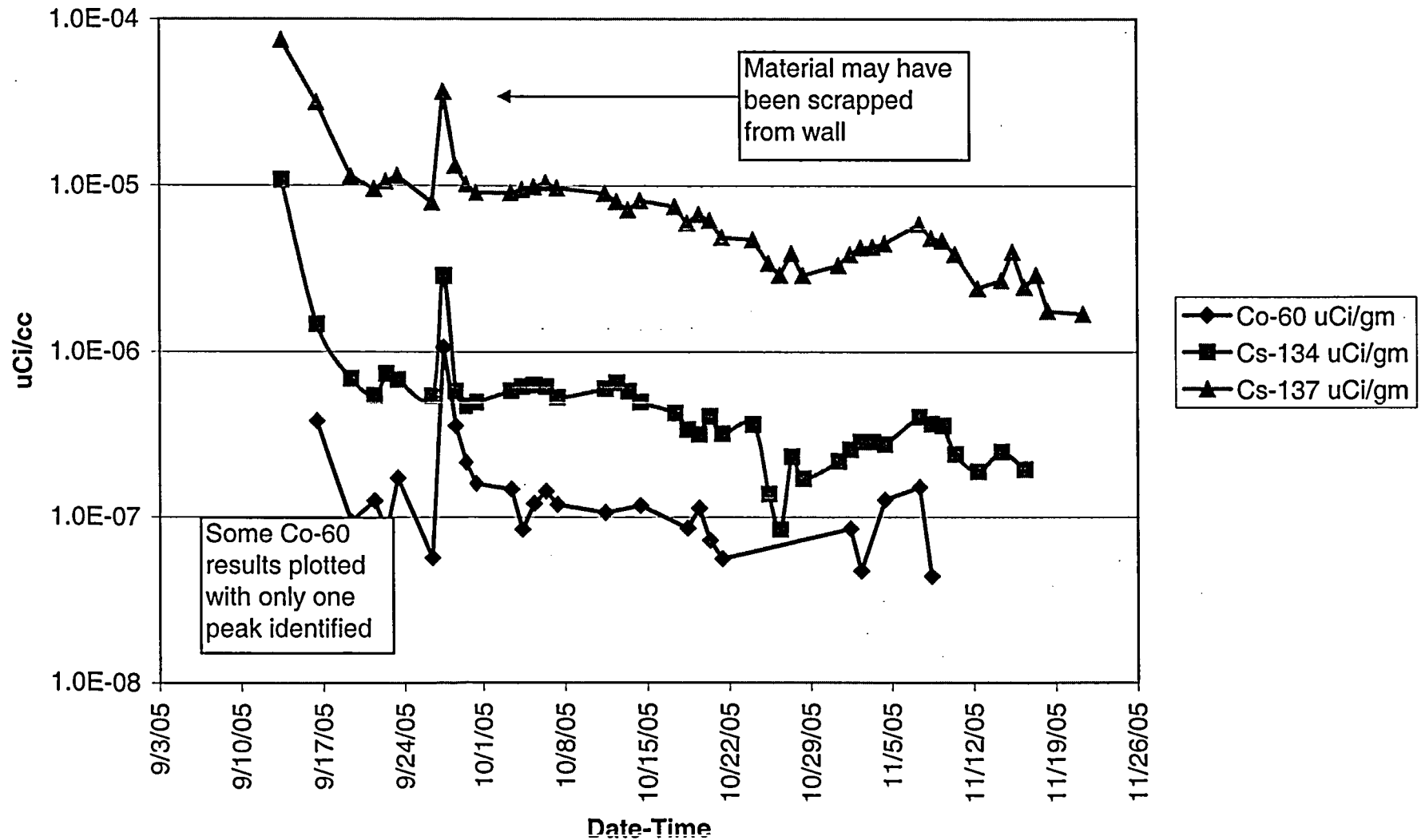
FSB Crack Water Boron vs Cs-137



FSB Crack Water Boron vs Cs-Ratios

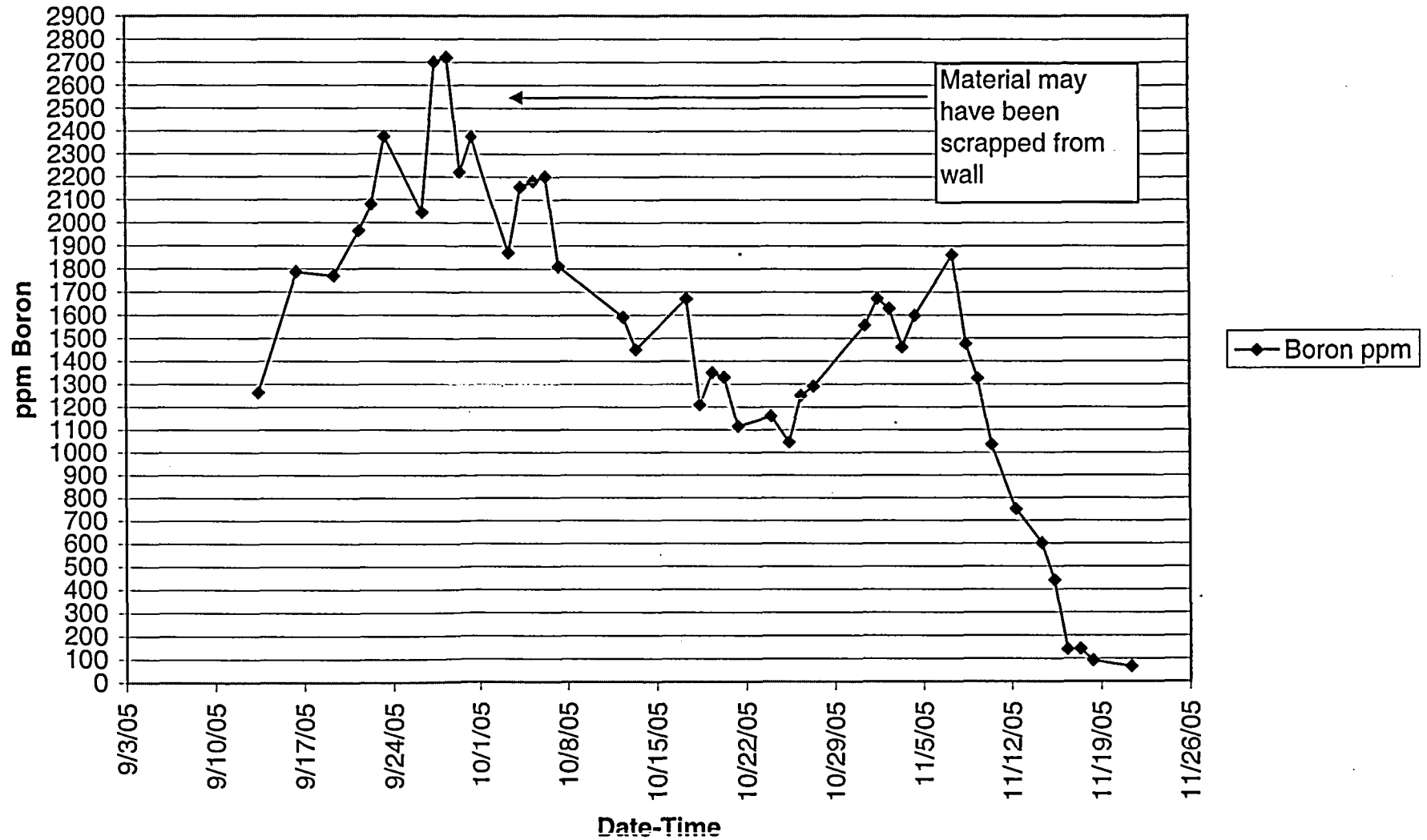


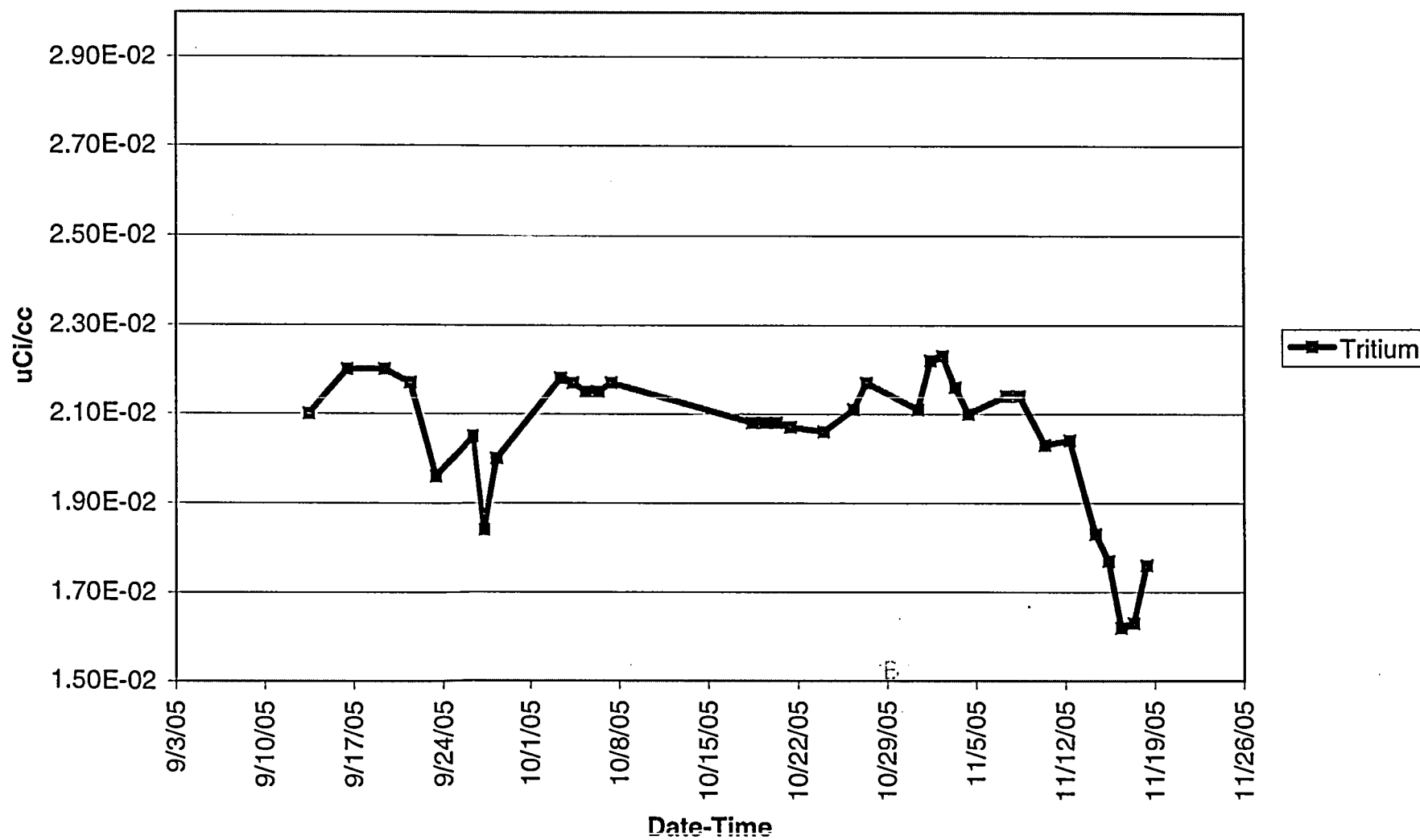
FSB Crack Water Activity



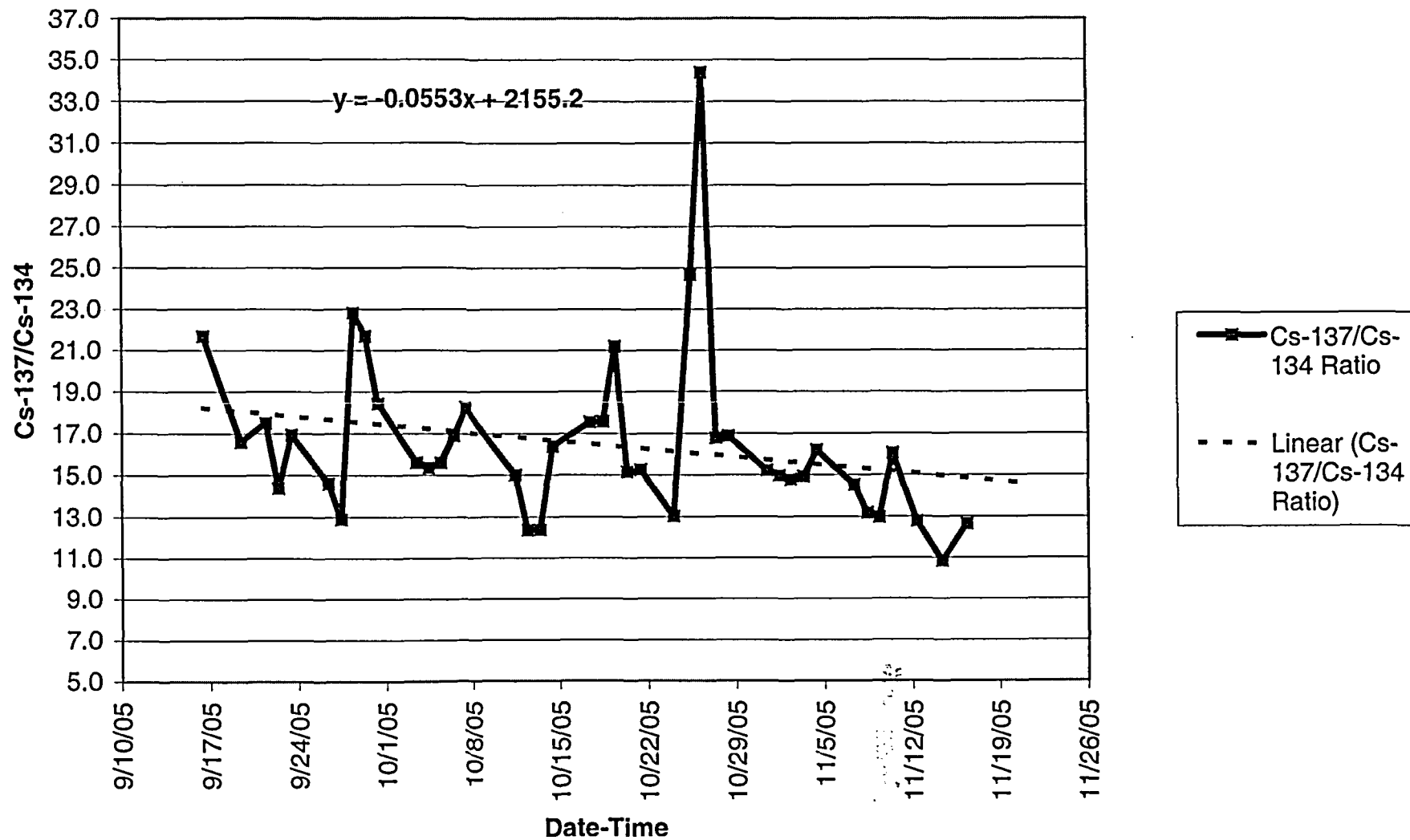
Collection
may have
included

FSB Crack Water Boron

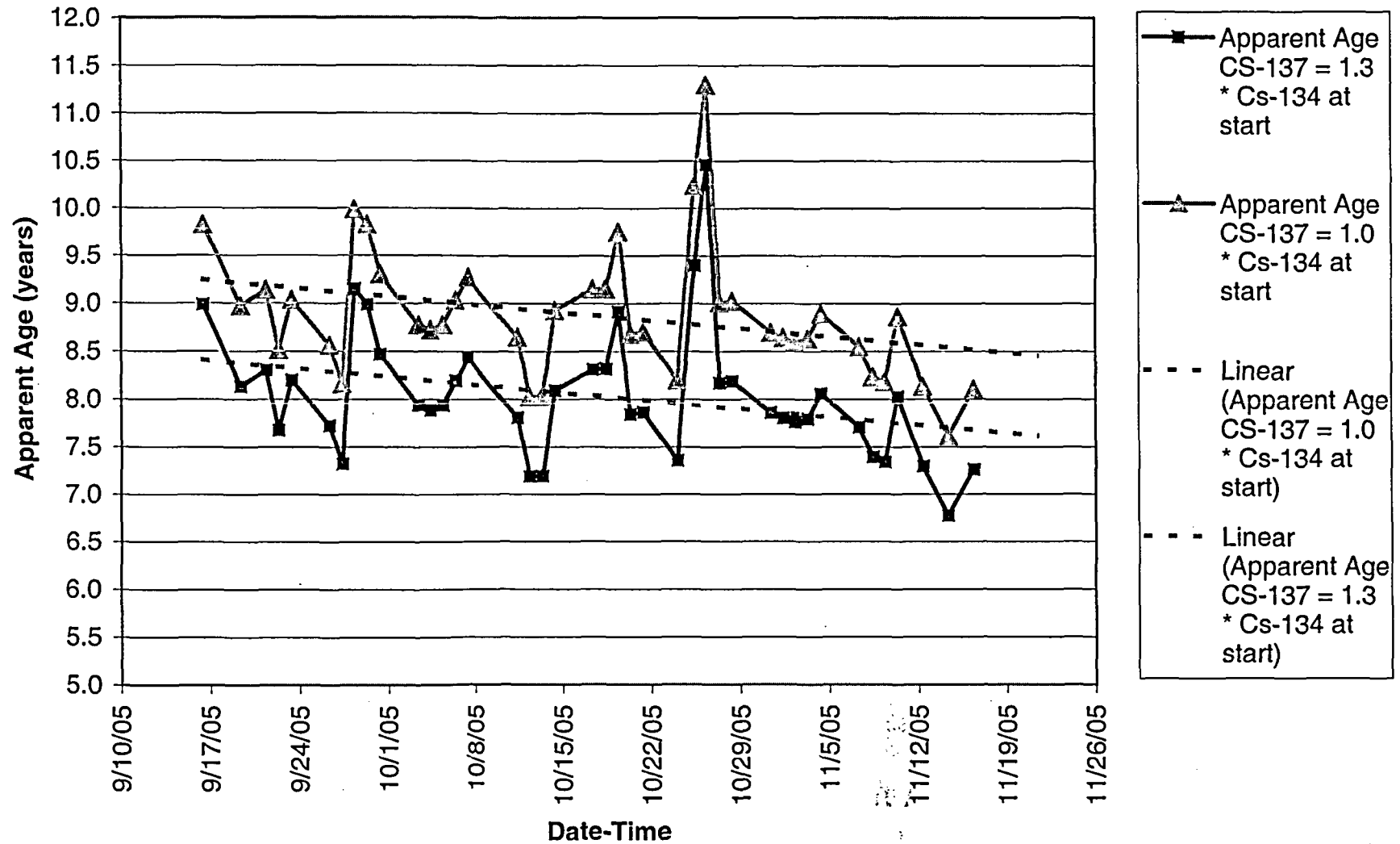


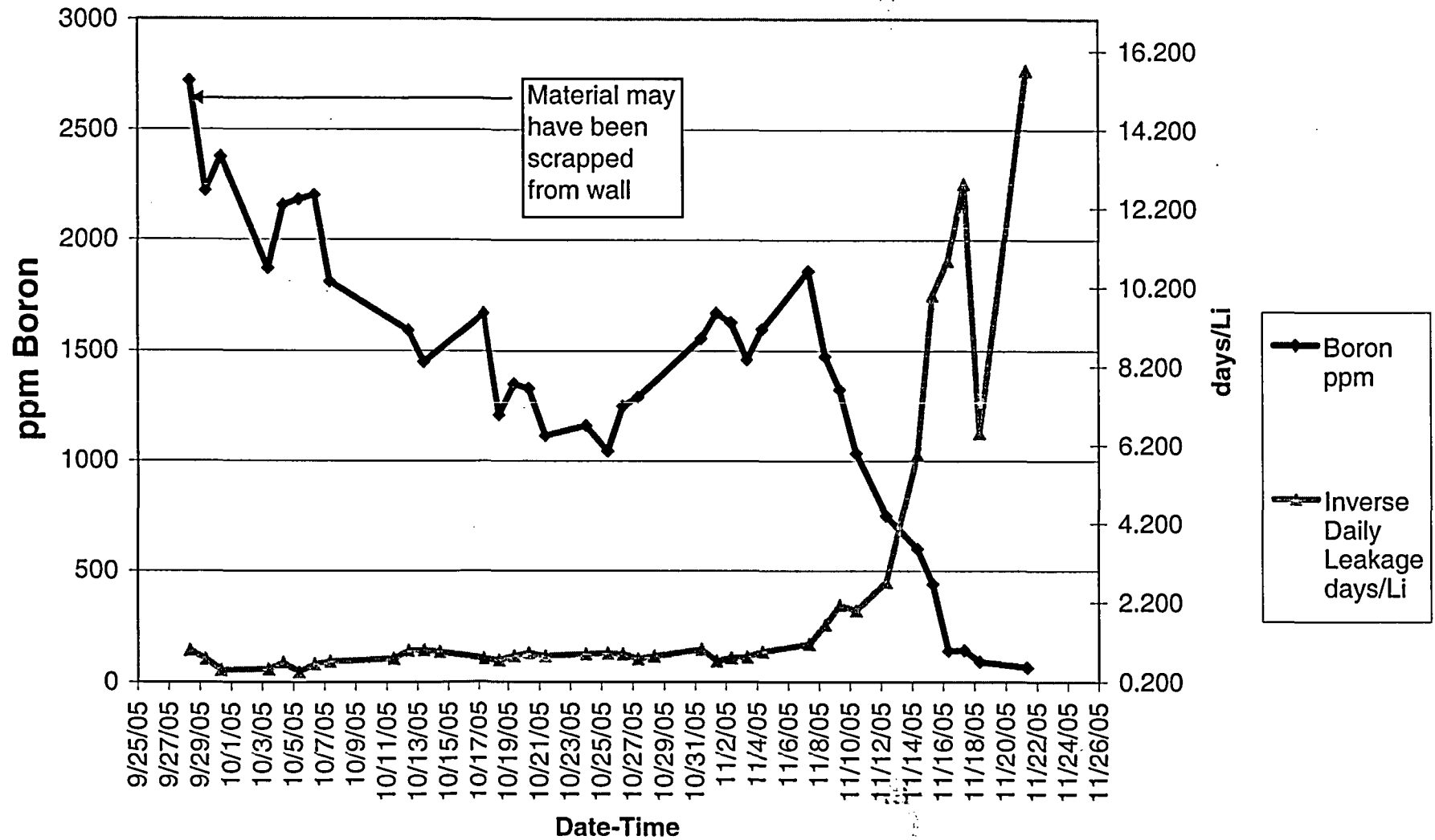
FSB Crack Water Tritium Activity

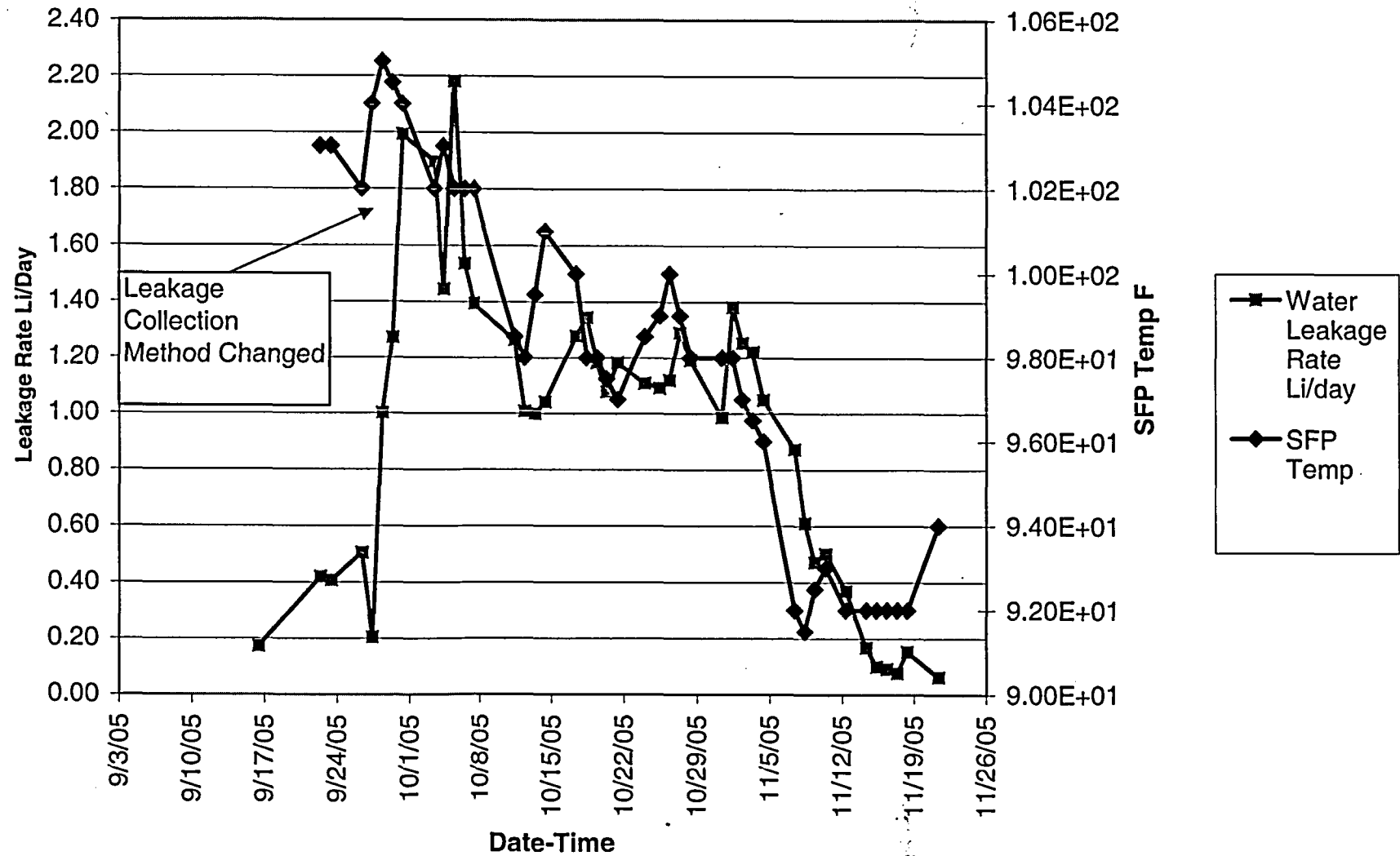
FSB Crack Water Cs-137/Cs-134 Ratio



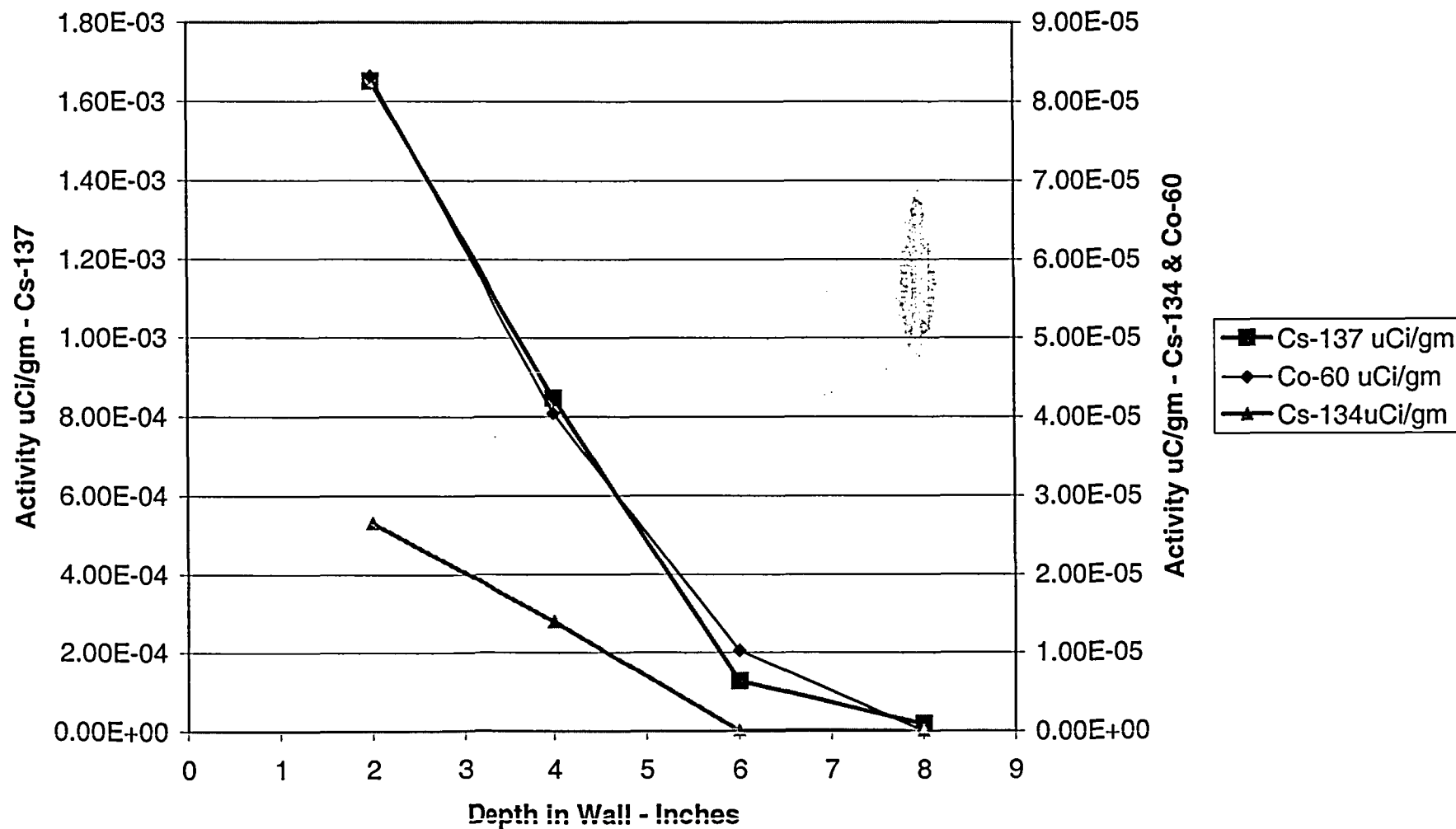
FSB Crack Water Apparent Age



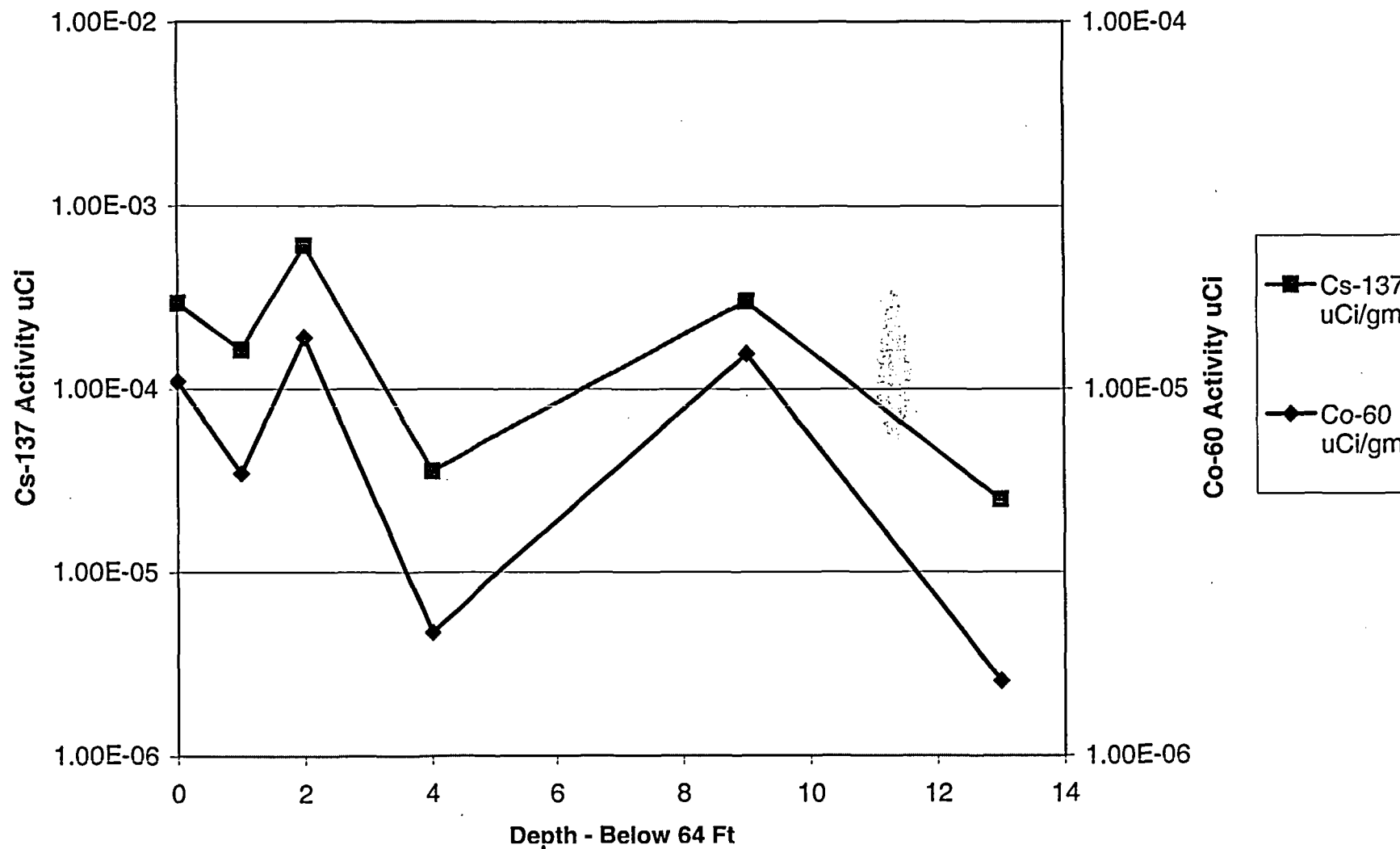
FSB Crack Water Boron vs Leakage Rate from 9-28-05

FSB Crack Leakage Collection Rate Li/Day

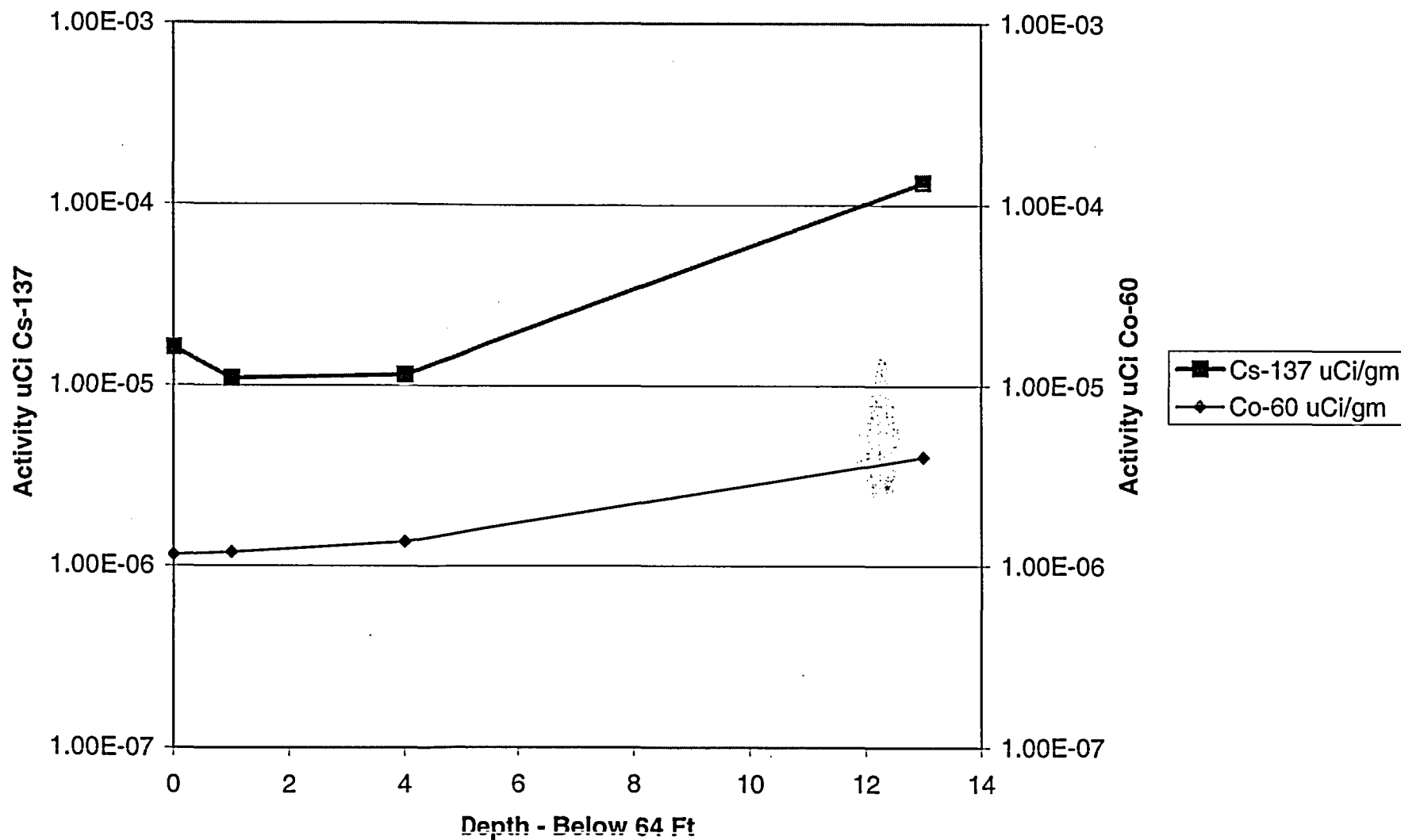
1/2" Drilled Hole - Activity vs Depth into Wall



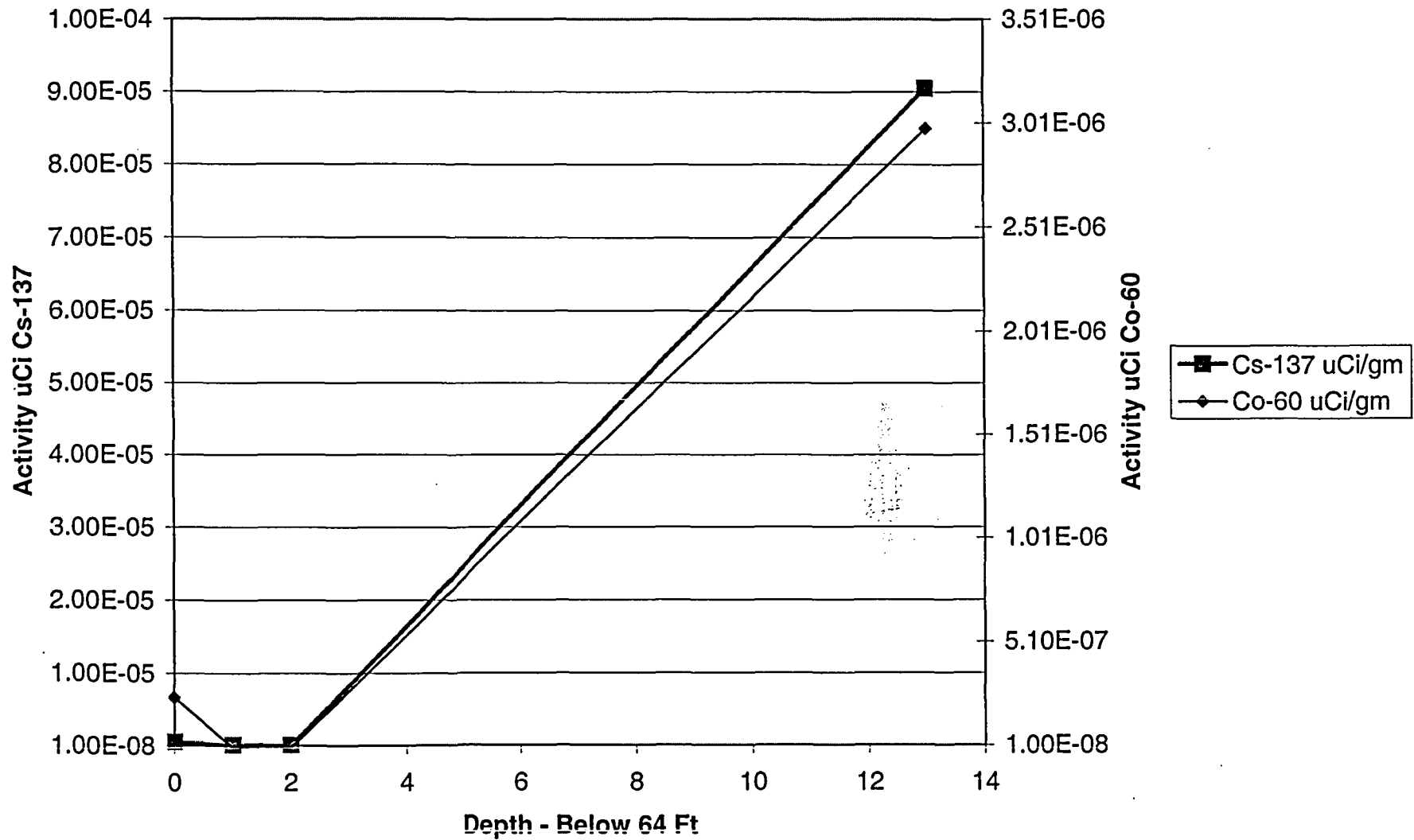
Activity vs Depth - Wall Contact



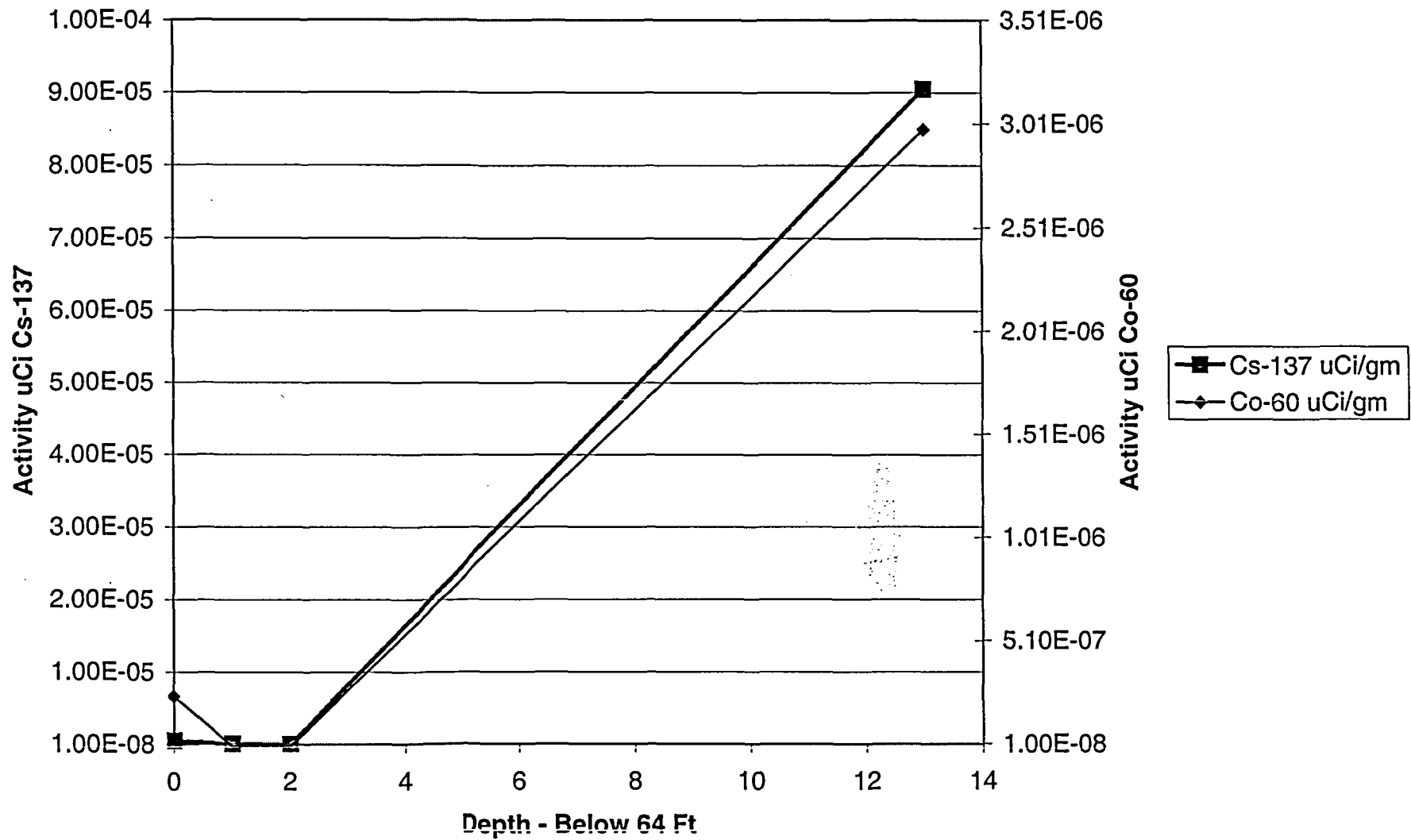
Activity vs Depth - 1 Foot from Wall



Activity vs Depth - 2 Foot from Wall



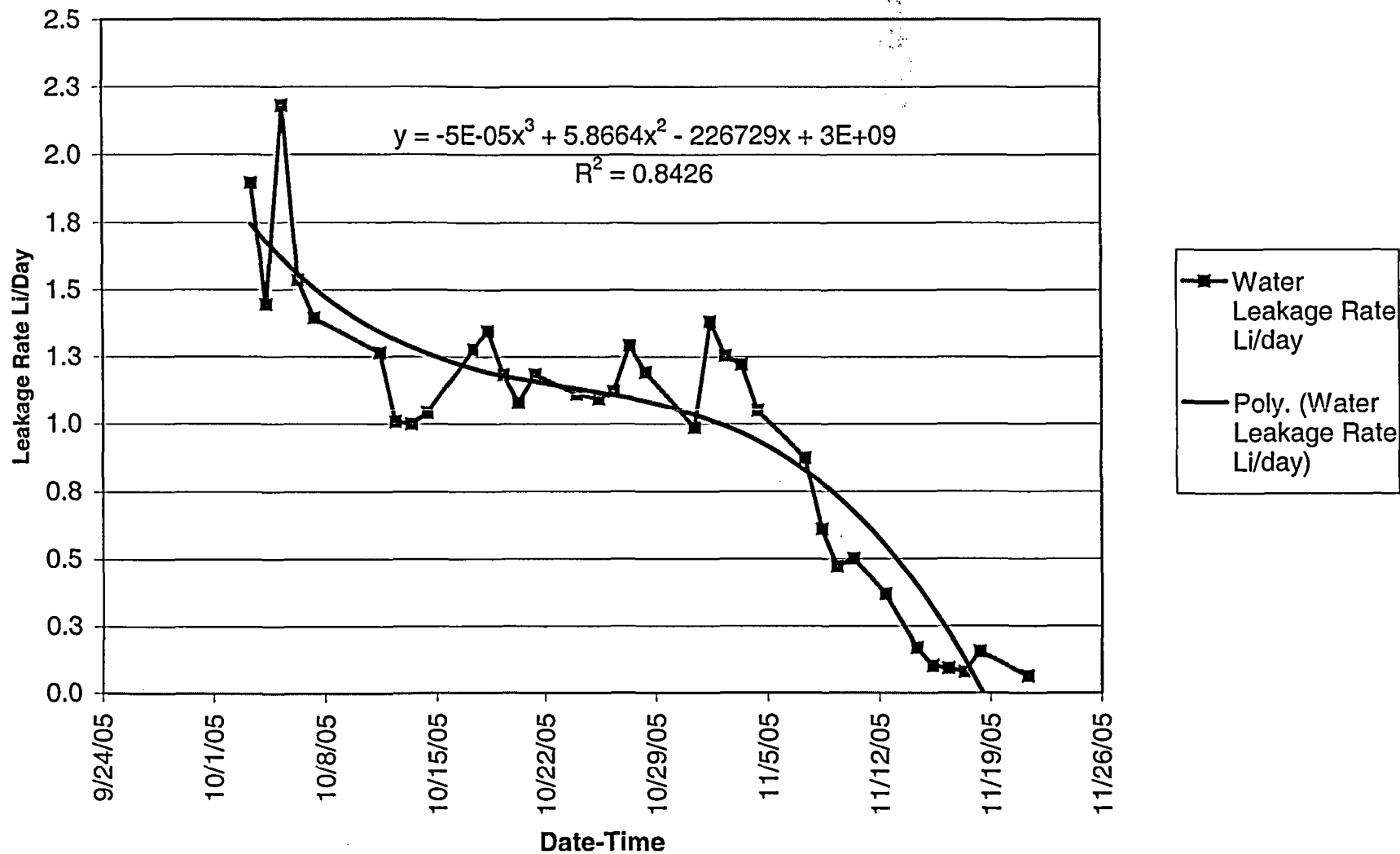
Activity vs Depth - 2 Foot from Wall



Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	0	0	1.05E-05	3.98E-06	2.92E-04
09/08/2005	0	1	5.90E-06	3.54E-06	1.63E-04
09/08/2005	0	2	1.38E-05	1.43E-05	6.00E-04
09/13/2005	0	4	2.17E-06	1.01E-06	3.60E-05
9/26/05 13:00	0	9	1.25E-05	8.66E-06	2.99E-04
9/29/05 12:00	0	13	1.60E-06	6.56E-07	2.49E-05

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	1	0	1.15E-06	ND	1.61E-05
09/08/2005	1	1	1.19E-06	1.82E-07	1.09E-05
09/13/2005	1	4	1.36E-06	ND	1.14E-05
9/29/05 8:45	1	13	4.04E-06	2.14E-06	1.33E-04

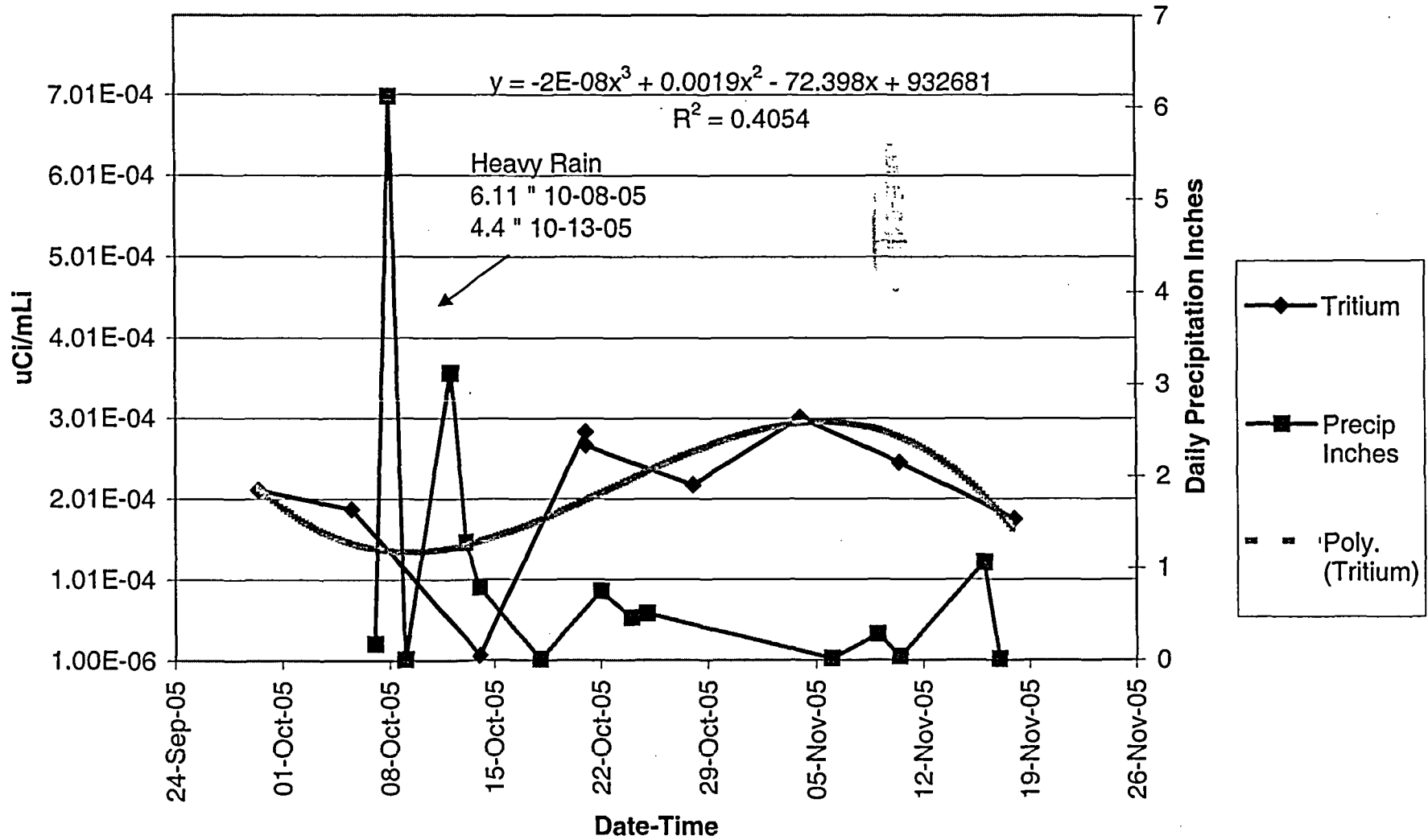
Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	2	0	2.42E-07	ND	5.07E-07
09/08/2005	2	1	ND	ND	9.44E-08
09/08/2005	2	2	ND	ND	ND
9/29/05 8:45	2	13	2.98E-06	1.85E-06	9.05E-05

FSB Crack Leakage Collection Rate Li/Day

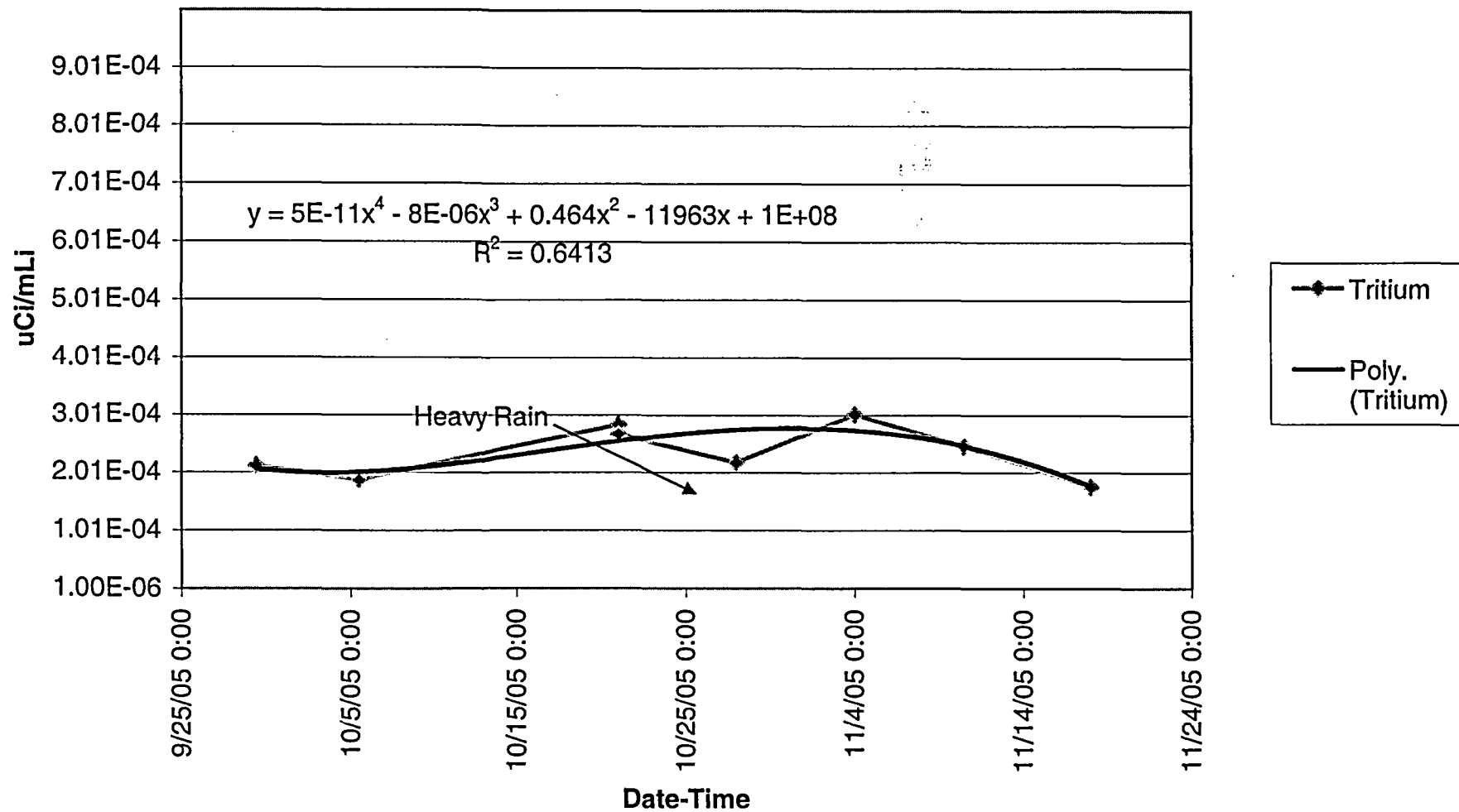
[illegible]

[illegible]

MW-111 Tritium



MW-111 Tritium w/o Outlier



Sample Date	Location	Type	Co-60 uCi/gm
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Water - not a valid counting geometry - Potential trace level of Cs-134 Identified after spectrum reanalyzed 20% Detector 10 min.	#N/A
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Raw Water - Sediment in bottom. Geometry may not be valid. 40% Detector	3.82E-07
9/19/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - Co-60 Confirming peak not found - 40% Detector - 1 hour count	9.42E-08
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.26E-07
9/22/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 419 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	8.13E-08
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.73E-07
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:930 9-23-05 to 08:45 9-26-05	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	5.67E-08
9/27/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~205 mLi - Notes: Collection system failed. Collection method may have caused collection of material plated on wall into water sample.	~205 mLi - 40% Detector - 1 hour count	1.06E-06

9/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 1000 mLi - Notes: Collection system changed. Collection method may have caused collection of material plated on wall into water sample.	~1000 mLi - 40% Detector - 1 hour count	3.58E-07
9/29/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1259.7 mLi - Notes:	40% Detector - 1 hour count	2.14E-07
9/30/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 2000 mLi - Notes:	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.59E-07
10/3/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5701 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.48E-07
10/4/05 8:20	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1445 mLi: Note: One peak of Co-60 Not identified	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	8.41E-08
10/5/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1489 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.21E-07
10/6/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1536 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.43E-07
10/7/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1394 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.19E-07
10/11/05 10:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5155.9 mLi over 98 hours	40% Detector - 1 hour count	1.07E-07
10/12/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 966.3 mLi over ~23 hours	40% Detector - 1 hour count	#N/A

10/13/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 957 mLi over ~23 hours	40% Detector - 1 hour count	#N/A
10/14/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1041 mLi over 24 hours	40% Detector - 1 hour count	1.18E-07
10/17/05 9:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3682.2 mLi over 72 hours	40% Detector - 1 hour count	#N/A
10/18/05 10:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1344 mLi over 24 hours	40% Detector - 1 hour count	8.57E-08
10/19/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1182 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	1.14E-07
10/20/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1078 mLi over 24 hours	40% Detector	7.24E-08
10/21/05 9:15	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1288 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	5.60E-08
10/24/05 0:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3306 mLi over 71.5 hours	40% Detector - 1 hour count	#N/A
10/25/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1091.5 mLi over 24 hours	40% Detector - 1 hour count	#N/A
10/26/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1074 mLi over 23 hours - Note: Boron and Tritium values are from weekly composite sample	40% Detector - 1 hour count	#N/A

10/27/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1290 mLi over 24 hours	40% Detector - 1 hour count	#N/A
10/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1191 mLi over 24 hours	40% Detector - 1 hour count	#N/A
10/31/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3000 mLi over 73 hours	40% Detector - 1 hour count	#N/A
11/1/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1381 mLi over 24 hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	8.49E-08
11/2/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1253 mLi over 24 hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	4.71E-08
11/3/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1245 mLi over 24.5 hours	40% Detector - 1 hour count	#N/A
11/4/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1049 mLi over 24 hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	1.27E-07
11/7/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 2658 mLi over 73 hours	40% Detector - 1 hour count	1.52E-07
11/8/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 585 mLi over 23 hours	40% Detector - 1 hour count	4.36E-08
11/9/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 472 mLi over 24 hours	40% Detector - 1 hour count	#N/A

11/10/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 501 mLi over 24 hours	40% Detector - 1 hour count	#N/A
11/12/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 738 mLi over ~48 hours	40% Detector - 1 hour count	#N/A
11/14/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 336.4 mLi over ~48 hours	40% Detector - 1 hour count	#N/A
11/15/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 100 mLi over ~24 hours	40% Detector - 1 hour count	#N/A
11/16/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 91.75 mLi over ~24 hours	40% Detector - 1 hour count	#N/A
11/17/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 75 mLi over ~23 hours	40% Detector - 1 hour count	#N/A
11/18/05 8:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 160 mLi over ~24 hours	40% Detector - 1 hour count	#N/A
11/21/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 191 mLi over ~72 hours	40% Detector - 1 hour count	#N/A

Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Boron ppm	Tritium	Apparent Age CS-137 = 1.3 * Cs-134 at start	Apparent Age CS-137 = 1.0 * Cs-134 at start	Water Leakage Rate Li/day
1.08E-05	7.47E-05	7	1265	2.10E-02	5.3	6.2	#N/A
1.46E-06	3.17E-05	22	1786	2.20E-02	9.0	9.8	0.173
6.86E-07	1.14E-05	17	1769	2.20E-02	8.1	9.0	#N/A
5.44E-07	9.52E-06	17	1965	2.17E-02	8.3	9.1	#N/A
7.35E-07	1.06E-05	14	2080	#N/A	7.7	8.5	0.419
6.76E-07	1.14E-05	17	2375	1.96E-02	8.2	9.0	0.407
5.40E-07	7.89E-06	15	2045	2.05E-02	7.7	8.6	0.504
2.85E-06	3.67E-05	13	2700	1.84E-02	7.3	8.2	0.205

5.77E-07	1.32E-05	23	2720	2.00E-02	9.1	10.0	1.0008
4.71E-07	1.02E-05	22	2220		9.0	9.8	1.272
4.95E-07	9.11E-06	18	2375	#N/A	8.5	9.3	1.992
5.81E-07	9.06E-06	16	1870	2.18E-02	7.9	8.8	1.896
6.16E-07	9.46E-06	15	2155	2.17E-02	7.9	8.7	1.445
6.30E-07	9.82E-06	16	2180	2.15E-02	7.9	8.8	2.180
6.16E-07	1.04E-05	17	2200	2.15E-02	8.2	9.0	1.536
5.31E-07	9.68E-06	18	1810	2.17E-02	8.4	9.3	1.394
6.00E-07	8.99E-06	15	#N/A	#N/A	7.8	8.6	1.263
6.48E-07	8.01E-06	12	1590	#N/A	7.2	8.0	1.008

5.78E-07	7.14E-06	12	1450		7.2	8.0	0.999
4.97E-07	8.14E-06	16	#N/A		8.1	8.9	1.041
4.28E-07	7.50E-06	18	1670		8.3	9.1	1.277
3.39E-07	5.96E-06	18	1210	2.08E-02	8.3	9.2	1.344
3.17E-07	6.71E-06	21	1350	2.08E-02	8.9	9.8	1.182
4.06E-07	6.15E-06	15	1330	2.08E-02	7.8	8.7	1.078
3.20E-07	4.88E-06	15	1115	2.07E-02	7.9	8.7	1.182
3.64E-07	4.73E-06	13	1160	2.06E-02	7.4	8.2	1.109
1.38E-07	3.40E-06	25	1045	#N/A	9.4	10.2	1.092
8.40E-08	2.89E-06	34	1250	2.11E-02	10.5	11.3	1.120

2.32E-07	3.90E-06	17	1290	2.17E-02	8.2	9.0	1.290
1.71E-07	2.88E-06	17		#N/A	8.2	9.0	1.191
2.18E-07	3.31E-06	15	1555	2.11E-02	7.9	8.7	0.986
2.57E-07	3.84E-06	15	1670	2.22E-02	7.8	8.6	1.381
2.85E-07	4.21E-06	15	1628	2.23E-02	7.8	8.6	1.253
2.85E-07	4.26E-06	15	1460	2.16E-02	7.8	8.6	1.220
2.76E-07	4.47E-06	16	1597	2.10E-02	8.1	8.9	1.049
4.04E-07	5.86E-06	15	1860	2.14E-02	7.7	8.5	0.873
3.67E-07	4.83E-06	13	1475	2.14E-02	7.4	8.2	0.610
3.58E-07	4.64E-06	13	1325	#N/A	7.3	8.2	0.472

2.40E-07	3.85E-06	16	1035	2.03E-02	8.0	8.9	0.501
1.89E-07	2.41E-06	13	750	2.04E-02	7.3	8.1	0.369
2.48E-07	2.69E-06	11	600	1.83E-02	6.8	7.6	0.168
#N/A	3.98E-06	#N/A	440	1.77E-02	#N/A	#N/A	0.100
1.94E-07	2.45E-06	13	140	1.62E-02	7.3	8.1	0.092
#N/A	2.89E-06	#N/A	142	1.63E-02	#N/A	#N/A	0.078
#N/A	1.76E-06	#N/A	91	1.76E-02	#N/A	#N/A	0.154
#N/A	1.69E-06	#N/A	65		#N/A	#N/A	0.064

	Inverse Cs-137/Cs-134 Ratio	Inverse Daily Leakage days/Li	SFP Temp
0.99685	0.144157	#N/A	#N/A
	0.046164	5.780	#N/A
	0.060299	#N/A	#N/A
	0.057149	#N/A	#N/A
	0.069574	2.387	103
	0.0591	2.457	103
	0.0685	1.984	102
	0.077626	4.878	104

0.043878	0.999	105
0.046141	0.786	104.5
0.054297	0.502	104
0.064095	0.527	102
0.065137	0.692	103
0.064101	0.459	102
0.059164	0.651	102
0.054803	0.717	102
0.066719	0.792	98.5
0.080977	0.992	98

0.080936	1.001	99.5
0.061094	0.961	101
0.057042	0.783	100
0.056898	0.744	98
0.047199	0.846	98
0.066022	0.928	97.5
0.065581	0.846	97
0.07686	0.902	98.5
0.040541	0.916	99
0.029086	0.893	100

0.059615	0.775	99
0.059318	0.840	98
0.06572	1.014	98
0.066849	0.724	98
0.067711	0.798	97
0.067058	0.820	96.5
0.0618	0.953	96
0.068873	1.145	92
0.075952	1.639	91.5
0.077188	2.119	92.5

0.062367	1.996	93
0.078322	2.710	92
0.09223	5.952	92
#N/A	10.000	92
0.079184	10.870	92
#N/A	12.821	92
#N/A	6.510	92
#N/A	15.706	94

[illegible]

—+—

—+—

Cs-137 uCi/gm	Cs-137/Cs- 134 Ratio	Tritium	Apparent Age CS-137 = 1.3 * Cs- 134 at start	Apparent Age CS-137 = 1.0 * Cs- 134 at start
ND	NA	2.12E-04	NA	NA
ND	NA	1.88E-04	NA	NA
ND	NA	6.82E-06	NA	NA
ND	NA	2.84E-04	NA	NA
NA	NA	2.67E-04	NA	NA
ND	NA	2.18E-04	NA	NA
ND	NA	3.02E-04	NA	NA
ND	NA	2.46E-04	NA	NA
ND	NA	1.76E-04	NA	NA

Precip
Inches

0.18
6.11
0.01
3.12
1.28

0.79
0.01

0.75
0.46
0.51

0.02
0.28

0.04
1.06
0.01

[illegible]

Date	System	Gamma Activity uCi/cc	Boron ppm	Tritium uCi/cc
10/27/2005	Spent Fuel Pool- West Unit 1	9.21E-03		4.00E-02
11/01/2005	Spent Fuel Pool- West Unit 1		153	
11/08/2005	Spent Fuel Pool- West Unit 1			2.75E-03

Date	System	CO-60 uCi/cc	CS-134 uCi/cc	CS-137 uCi/cc	Tritium uCi/cc
10/03/2005	SFP Isotopic Unit 2	3.95E-04	5.73E-04	7.96E-04	
10/10/2005	SFP Isotopic Unit 2	6.04E-04	7.89E-04	1.16E-03	
10/10/2005	Spent Fuel Pit (Unit 2)				2.52E-02
10/17/2005	SFP Isotopic Unit 2	7.43E-04	9.62E-04	1.45E-03	
10/21/2005	SFP Isotopic Unit 2	7.99E-04	1.03E-03	1.59E-03	
10/24/2005	SFP Isotopic Unit 2	8.65E-04	1.16E-03	1.74E-03	
10/31/2005	SFP Isotopic Unit 2	9.53E-04	1.24E-03	1.95E-03	
10/31/2005	Spent Fuel Pit (Unit 2)				4.50E-03
11/07/2005	SFP Isotopic Unit 2	1.07E-03	1.44E-03	2.24E-03	
11/07/2005	Spent Fuel Pit (Unit 2)				2.58E-02
11/14/2005	SFP Isotopic Unit 2	1.13E-03	1.53E-03	2.45E-03	

Date	System	Ethanolamine ppm
10/01/2005	Condensate Pump Discharge	3.42
10/01/2005	Condensate Pump Discharge	3.39
10/01/2005	Condensate Pump Discharge	3.35
10/02/2005	Condensate Pump Discharge	3.31
10/02/2005	Condensate Pump Discharge	3.269
10/02/2005	Condensate Pump Discharge	3.221
10/03/2005	Condensate Pump Discharge	3.18
10/03/2005	Condensate Pump Discharge	3.128
10/03/2005	Condensate Pump Discharge	3.3
10/04/2005	Condensate Pump Discharge	3.57
10/04/2005	Condensate Pump Discharge	3.605
10/04/2005	Condensate Pump Discharge	3.54
10/05/2005	Condensate Pump Discharge	3.35
10/05/2005	Condensate Pump Discharge	3.323
10/05/2005	Condensate Pump Discharge	3.27
10/06/2005	Condensate Pump Discharge	3.27

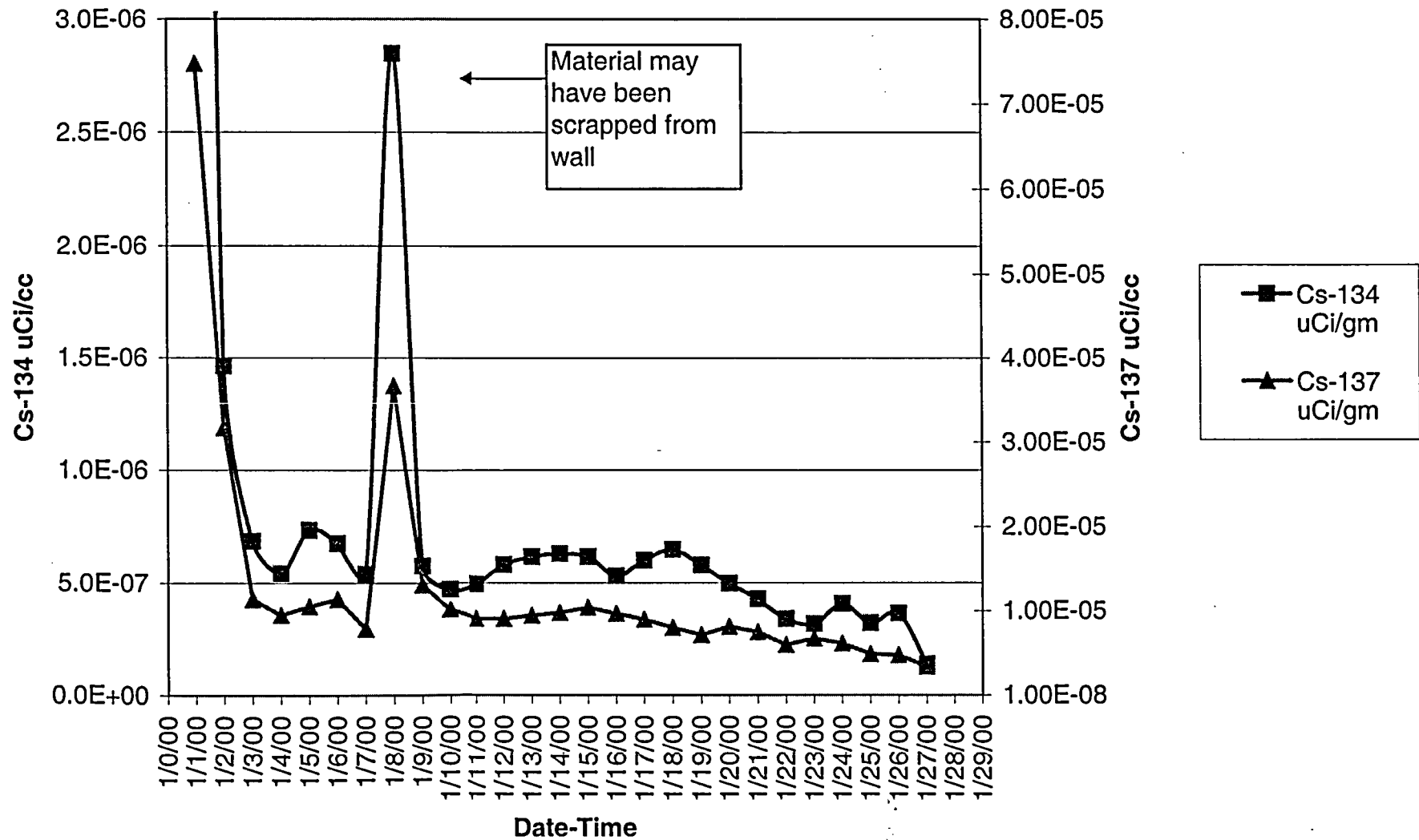
10/06/2005 Condensate Pump Discharge	3.29
10/06/2005 Condensate Pump Discharge	3.27
10/07/2005 Condensate Pump Discharge	3.24
10/07/2005 Condensate Pump Discharge	3.24
10/07/2005 Condensate Pump Discharge	3.21
10/08/2005 Condensate Pump Discharge	3.25
10/08/2005 Condensate Pump Discharge	3.27
10/08/2005 Condensate Pump Discharge	3.3
10/09/2005 Condensate Pump Discharge	3.25
10/09/2005 Condensate Pump Discharge	3.21
10/09/2005 Condensate Pump Discharge	3.19
10/10/2005 Condensate Pump Discharge	2.95
10/10/2005 Condensate Pump Discharge	2.9
10/10/2005 Condensate Pump Discharge	2.93
10/11/2005 Condensate Pump Discharge	3.08
10/11/2005 Condensate Pump Discharge	3.13
10/11/2005 Condensate Pump Discharge	3.58
10/12/2005 Condensate Pump Discharge	3.1
10/12/2005 Condensate Pump Discharge	2.7
10/12/2005 Condensate Pump Discharge	2.48
10/13/2005 Condensate Pump Discharge	2.28
10/13/2005 Condensate Pump Discharge	2.41
10/13/2005 Condensate Pump Discharge	2.5
10/14/2005 Condensate Pump Discharge	2.72
10/14/2005 Condensate Pump Discharge	3.23
10/14/2005 Condensate Pump Discharge	3.04
10/15/2005 Condensate Pump Discharge	2.89
10/15/2005 Condensate Pump Discharge	2.86
10/15/2005 Condensate Pump Discharge	2.95
10/16/2005 Condensate Pump Discharge	3.1
10/16/2005 Condensate Pump Discharge	3.46
10/16/2005 Condensate Pump Discharge	3.54
10/17/2005 Condensate Pump Discharge	3.58
10/17/2005 Condensate Pump Discharge	3.52
10/17/2005 Condensate Pump Discharge	3.44
10/18/2005 Condensate Pump Discharge	3.48
10/18/2005 Condensate Pump Discharge	3.37
10/18/2005 Condensate Pump Discharge	3.33
10/19/2005 Condensate Pump Discharge	3.28
10/19/2005 Condensate Pump Discharge	3.19
10/19/2005 Condensate Pump Discharge	3.21
10/20/2005 Condensate Pump Discharge	3.22
10/20/2005 Condensate Pump Discharge	3.15

10/20/2005 Condensate Pump Discharge	3.11
10/21/2005 Condensate Pump Discharge	3.17
10/21/2005 Condensate Pump Discharge	3.26
10/21/2005 Condensate Pump Discharge	3.29
10/22/2005 Condensate Pump Discharge	3.27
10/22/2005 Condensate Pump Discharge	3.24
10/22/2005 Condensate Pump Discharge	3.35
10/23/2005 Condensate Pump Discharge	3.34
10/23/2005 Condensate Pump Discharge	3.3
10/23/2005 Condensate Pump Discharge	3.16
10/24/2005 Condensate Pump Discharge	3.15
10/24/2005 Condensate Pump Discharge	3.11
10/24/2005 Condensate Pump Discharge	3.2
10/25/2005 Condensate Pump Discharge	3.28
10/25/2005 Condensate Pump Discharge	3.3
10/25/2005 Condensate Pump Discharge	3.3
10/26/2005 Condensate Pump Discharge	3.33
10/26/2005 Condensate Pump Discharge	3.33
10/26/2005 Condensate Pump Discharge	3.3
10/27/2005 Condensate Pump Discharge	2.31
10/27/2005 Condensate Pump Discharge	2.14
10/27/2005 Condensate Pump Discharge	2.604
10/28/2005 Condensate Pump Discharge	3.78
10/28/2005 Condensate Pump Discharge	3.88
10/28/2005 Condensate Pump Discharge	3.54
10/29/2005 Condensate Pump Discharge	2.81
10/29/2005 Condensate Pump Discharge	2.69
10/29/2005 Condensate Pump Discharge	2.82
10/30/2005 Condensate Pump Discharge	2.92
10/30/2005 Condensate Pump Discharge	2.96
10/30/2005 Condensate Pump Discharge	3.01
10/31/2005 Condensate Pump Discharge	2.97
10/31/2005 Condensate Pump Discharge	2.99
10/31/2005 Condensate Pump Discharge	3.06
11/01/2005 Condensate Pump Discharge	3.07
11/01/2005 Condensate Pump Discharge	3.16
11/01/2005 Condensate Pump Discharge	3.41
11/02/2005 Condensate Pump Discharge	3.42
11/02/2005 Condensate Pump Discharge	3.5
11/02/2005 Condensate Pump Discharge	3.33
11/03/2005 Condensate Pump Discharge	3.15
11/03/2005 Condensate Pump Discharge	2.95
11/03/2005 Condensate Pump Discharge	2.79

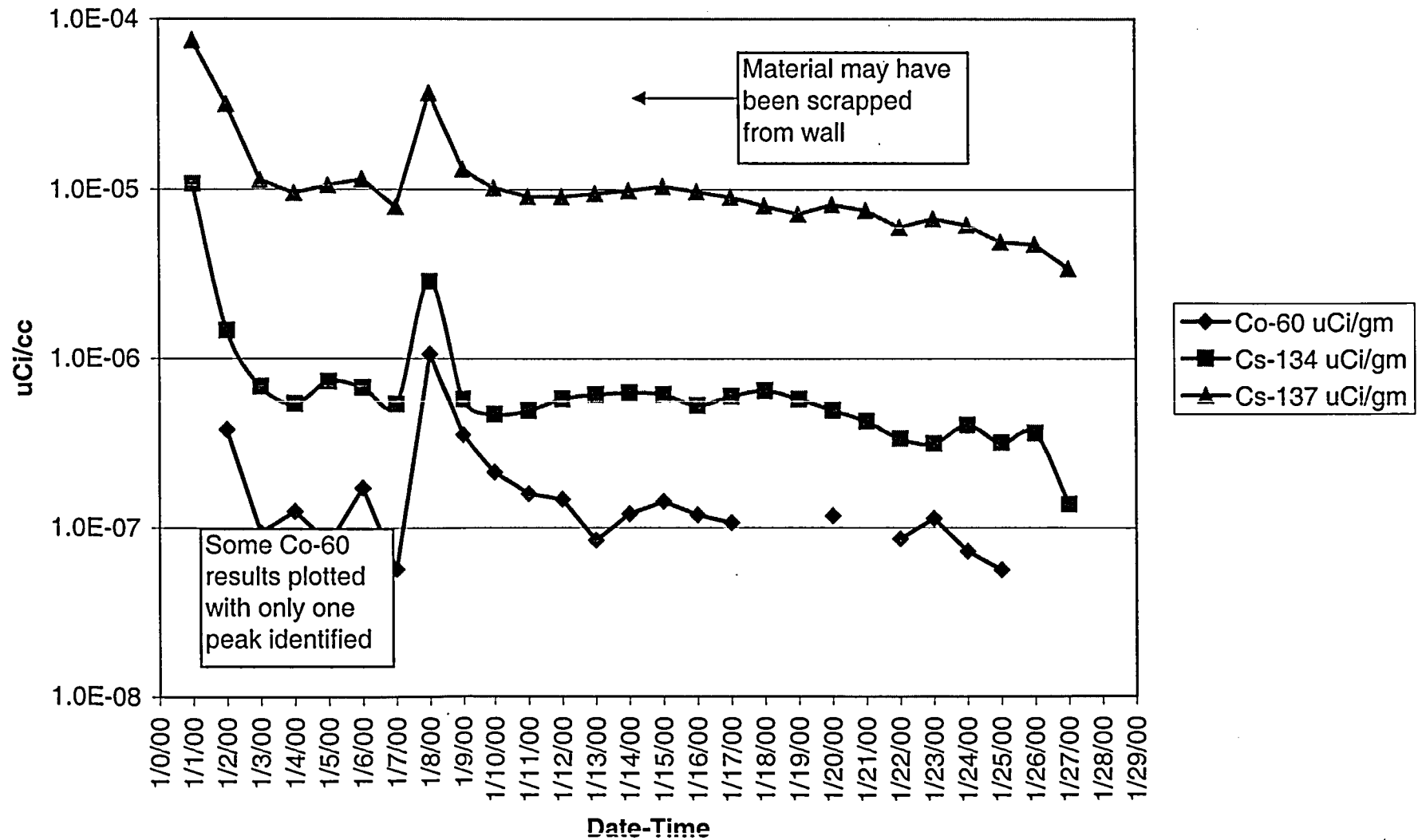
<u>Date</u>	<u>Sample of Hole Drilled in North</u> <u>FSB Wall</u>	<u>Detph of Hole</u> <u>in Wall</u>	<u>pH</u>	<u>Co-60 uCi/gm</u>	<u>Cs-134uCi/gm</u>
09/07/05	(1) Base line	2	11.74	ND	ND
09/07/05	(2) First 2" (0-2") of crack	2	10.7	8.31E-05	2.65E-05
09/07/05	(3) Second 2" (2-4") of crack	4	11.46	4.04E-05	1.39E-05
09/07/05	(4) Third 2" (4-6") of crack	6	11.75	1.02E-05	ND
09/07/05	(5) Fourth 2" (6-8") of crack	8	11.79	ND	ND

Cs-137 uCi/gm	Iron ppm leachate	Boron ppm leachate
ND	96	159
1.65E-03	628	72
8.46E-04	640	56
1.27E-04	3285	28
1.75E-05	60	226

FSB Crack Water Activity

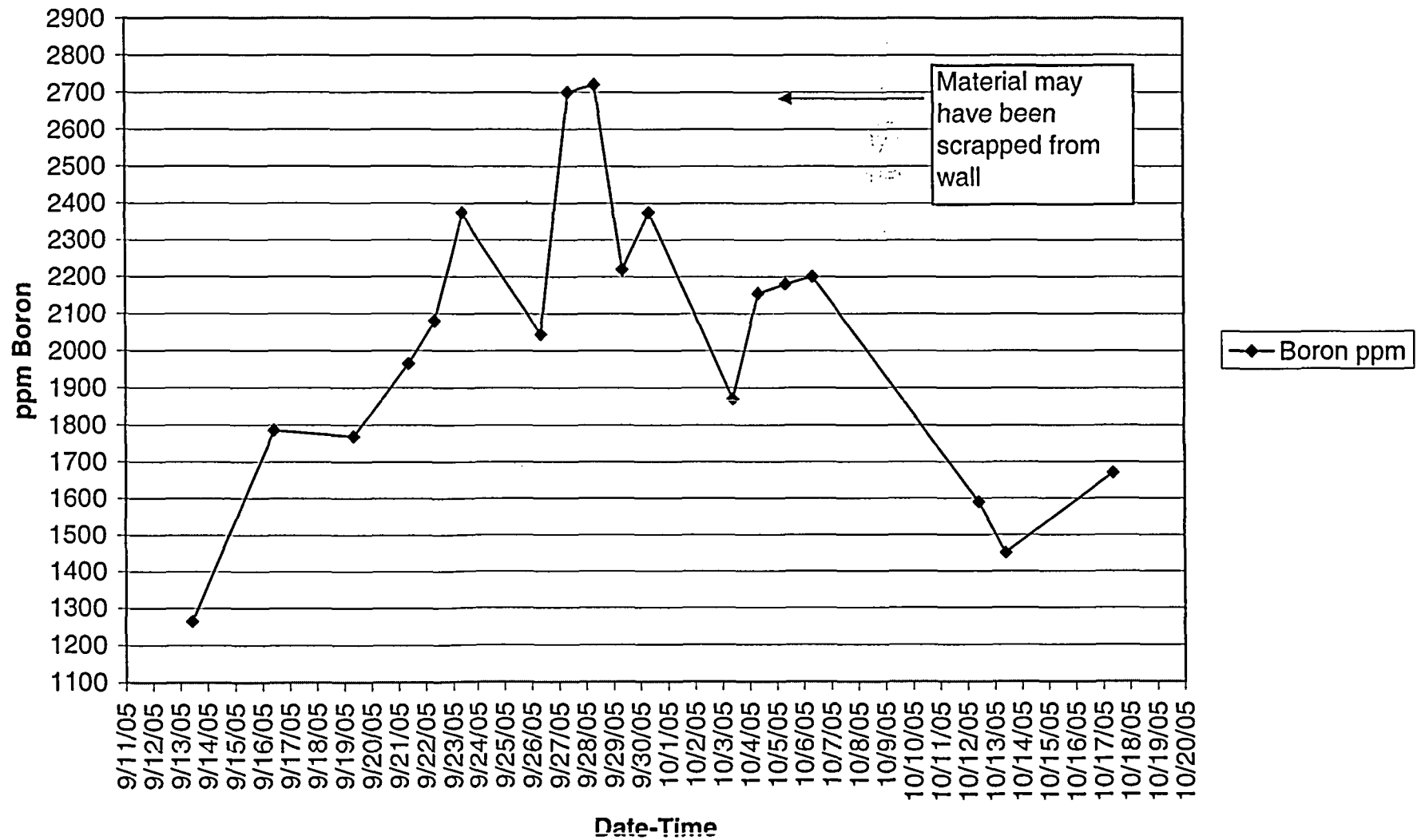


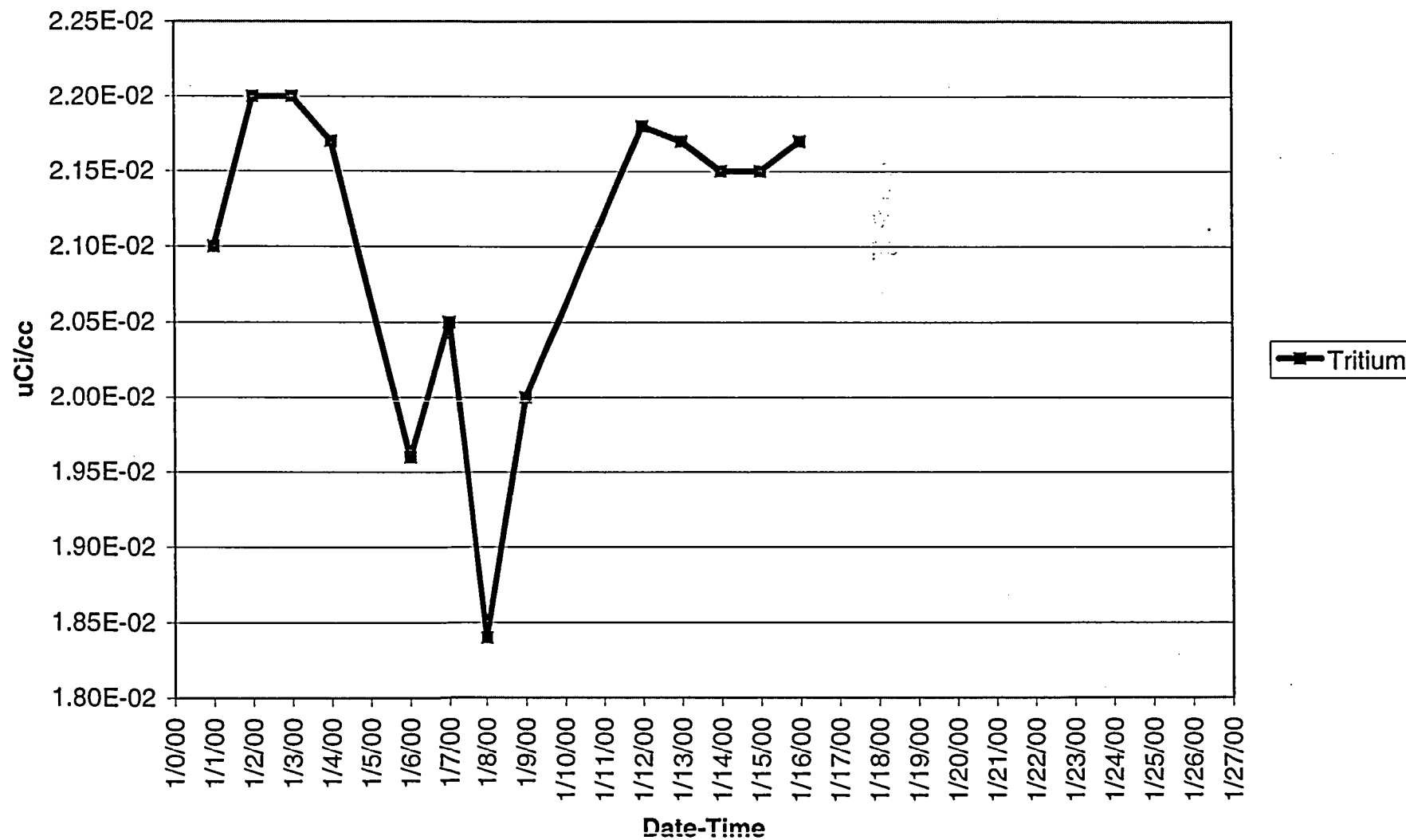
FSB Crack Water Activity



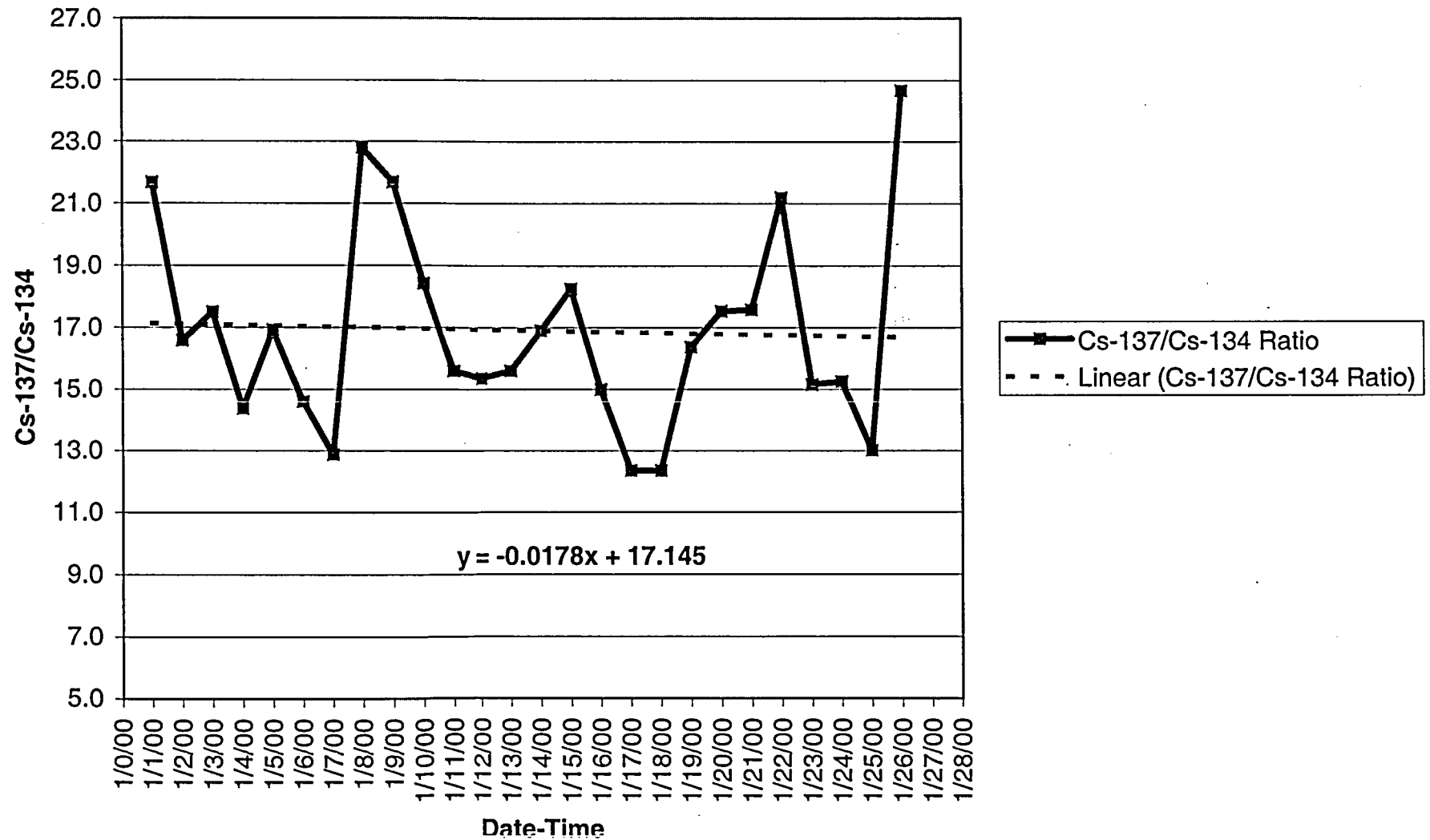
Collection
may have
included

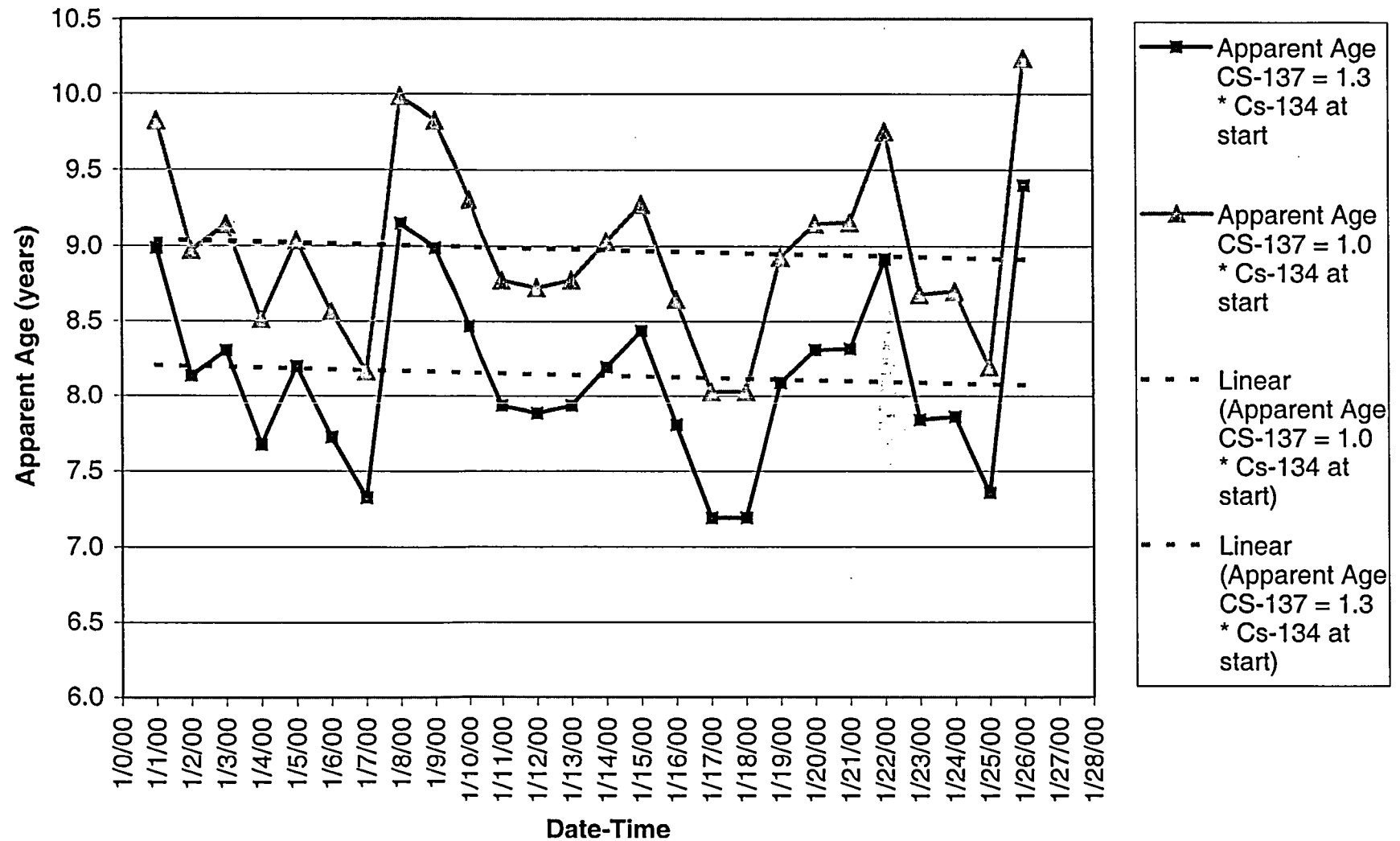
FSB Crack Water Boron



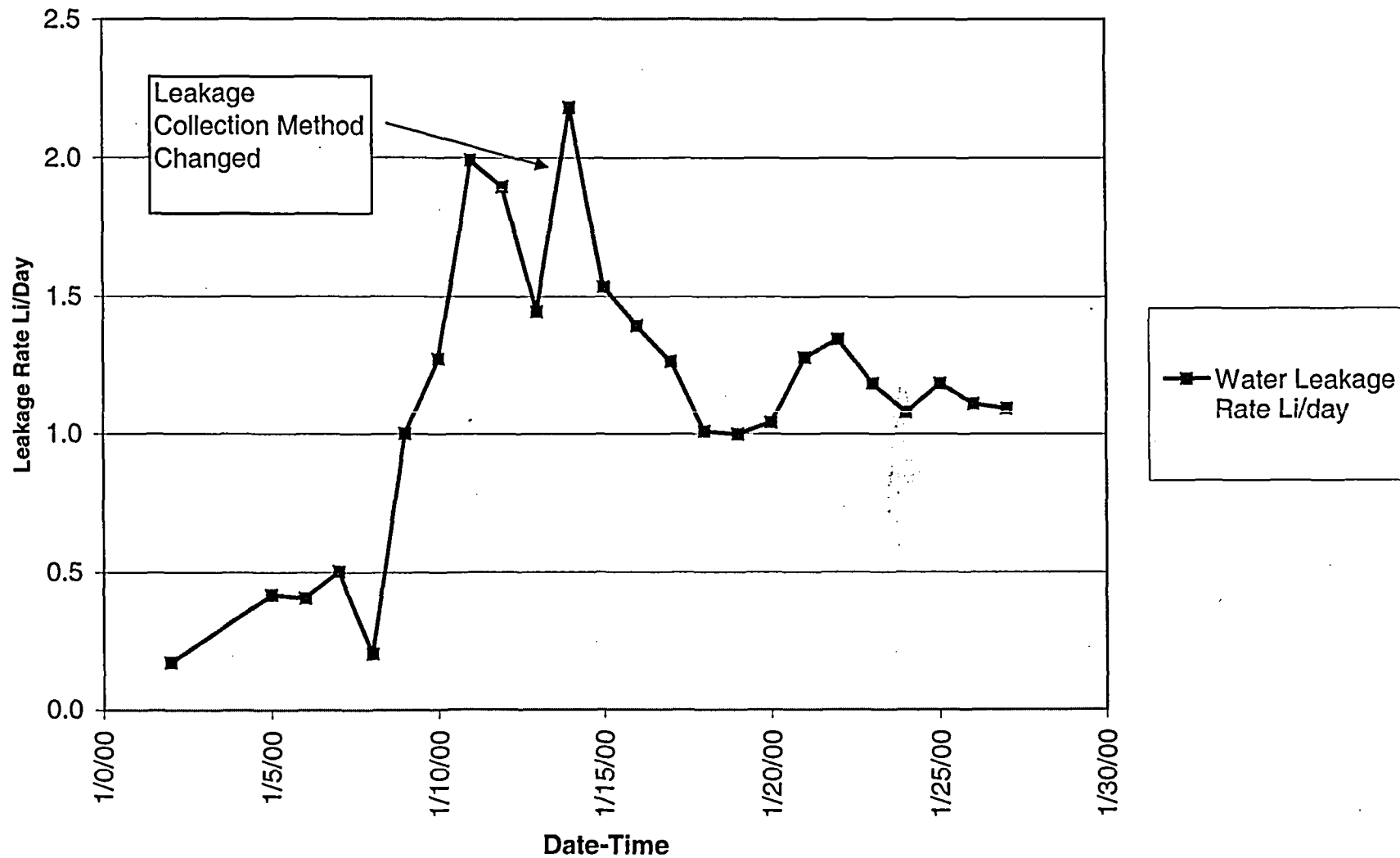
FSB Crack Water Tritium Activity

FSB Crack Water Cs-137/Cs-134 Ratio

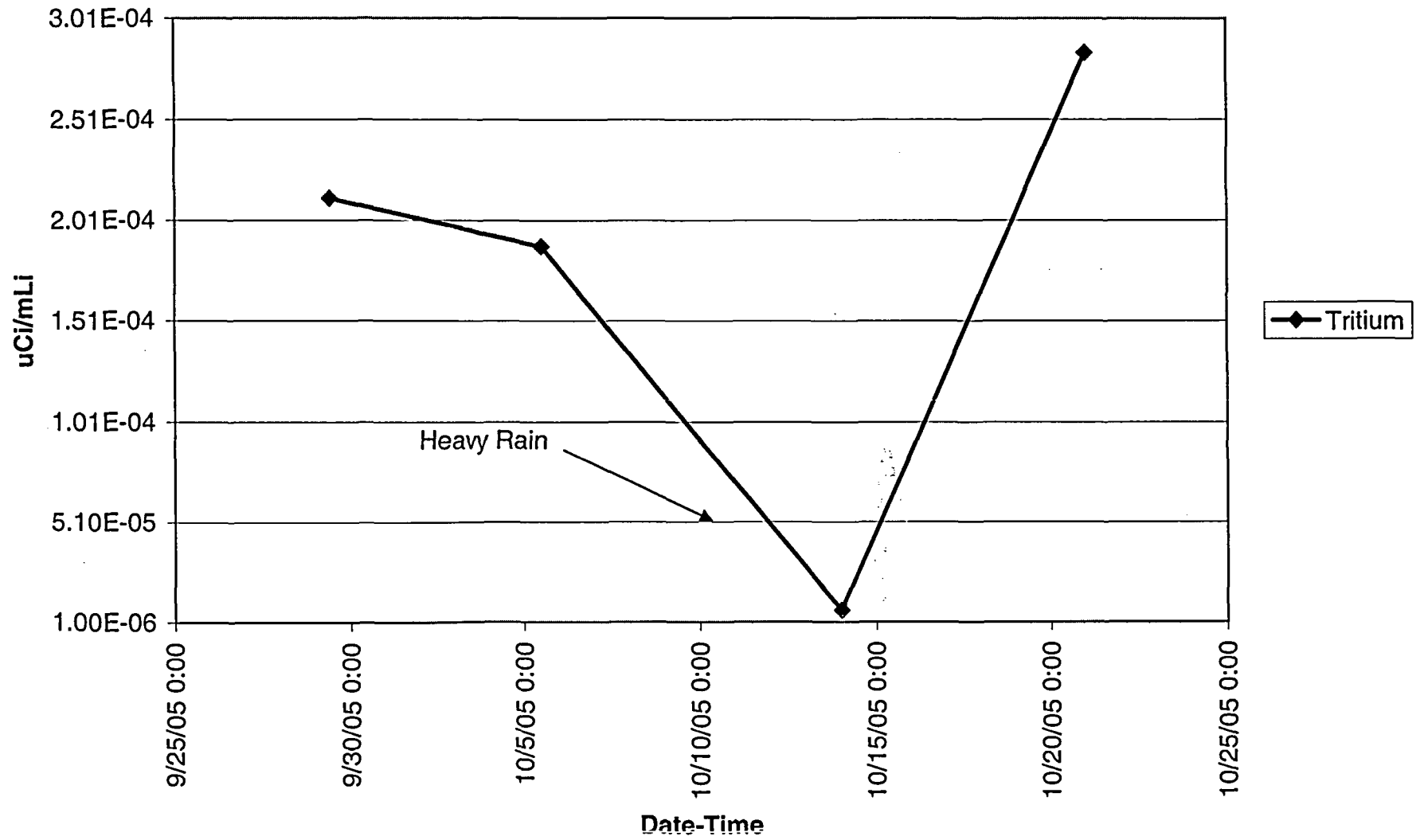


FSB Crack Water Apparent Age

FSB Crack Leakage Collection Rate Li/Day



MW-111 Tritium



Sample Date	Location	Type	Co-60 uCi/gm
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Water - not a valid counting geometry - Potential trace level of Cs-134 Identified after spectrum reanalyzed 20% Detector 10 min.	ND
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Raw Water - Sediment in bottom. Geometry may not be valid. 40% Detector	3.82E-07
9/19/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - Co-60 Confirming peak not found - 40% Detector - 1 hour count	9.42E-08
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.26E-07
9/22/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 419 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	8.13E-08
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.73E-07
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:930 9-23-05 to 08:45 9-26-05	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	5.67E-08
9/27/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~205 mLi - Notes: Collection system failed. Collection method may have caused collection of material plated on wall into water sample.	~205 mLi - 40% Detector - 1 hour count	1.06E-06

9/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 1000 mLi - Notes: Collection system changed. Collection method may have caused collection of material plated on wall into water sample.	~1000 mLi - 40% Detector - 1 hour count	3.58E-07
9/29/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1259.7 mLi - Notes:	40% Detector - 1 hour count	2.14E-07
9/30/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 2000 mLi - Notes:	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.59E-07
10/3/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5701 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.48E-07
10/4/05 8:20	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1445 mLi: Note: One peak of Co-60 Not identified	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	8.41E-08
10/5/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1489 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.21E-07
10/6/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1536 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.43E-07
10/7/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1394 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.19E-07
10/11/05 10:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5155.9 mLi over 98 hours	40% Detector - 1 hour count	1.07E-07
10/12/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 966.3 mLi over ~23 hours	40% Detector - 1 hour count	ND

10/13/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 957 mLi over ~23 hours	40% Detector - 1 hour count	ND
10/14/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1041 mLi over 24 hours	40% Detector - 1 hour count	1.18E-07
10/17/05 9:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3682.2 mLi over 72 hours	40% Detector - 1 hour count	ND
10/18/05 10:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1344 mLi over 24 hours	40% Detector - 1 hour count	8.57E-08
10/19/2005 09:30AM	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1182 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	1.14E-07
10/20/2005 08:00AM	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1078 mLi over 24 hours	40% Detector	7.24E-08
10/21/2005 09:15AM	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1288 mLi over hours	40% Detector - 1 hour count Only one Co-60 Peak Identified	5.60E-08
10/24/05 0:00	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 3306 mLi over 71.5 hours	40% Detector - 1 hour count	ND
10/25/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1091.5 mLi over 24 hours	40% Detector - 1 hour count	ND

Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Boron ppm	Tritium	Apparent Age CS-137 = 1.3 * Cs-134 at start	Apparent Age CS-137 = 1.0 * Cs-134 at start	Water Leakage Rate Li/day
1.08E-05	7.47E-05	7	1265.	2.10E-02	5.3	6.2	
1.46E-06	3.17E-05	22	1786	2.20E-02	9.0	9.8	0.173
6.86E-07	1.14E-05	17	1769	2.20E-02	8.1	9.0	
5.44E-07	9.52E-06	17	1965	2.17E-02	8.3	9.1	
7.35E-07	1.06E-05	14	2080		7.7	8.5	0.419
6.76E-07	1.14E-05	17	2375	1.96E-02	8.2	9.0	0.407
5.40E-07	7.89E-06	15	2045	2.05E-02	7.7	8.6	0.504
2.85E-06	3.67E-05	13	2700	1.84E-02	7.3	8.2	0.205

5.77E-07	1.32E-05	23	2720	2.00E-02	9.1	10.0	1.0008
4.71E-07	1.02E-05	22	2220		9.0	9.8	1.272
4.95E-07	9.11E-06	18	2375		8.5	9.3	1.992
5.81E-07	9.06E-06	16	1870	2.18E-02	7.9	8.8	1.896
6.16E-07	9.46E-06	15	2155	2.17E-02	7.9	8.7	1.445
6.30E-07	9.82E-06	16	2180	2.15E-02	7.9	8.8	2.180
6.16E-07	1.04E-05	17	2200	2.15E-02	8.2	9.0	1.536
5.31E-07	9.68E-06	18		2.17E-02	8.4	9.3	1.394
6.00E-07	8.99E-06	15			7.8	8.6	1.263
6.48E-07	8.01E-06	12	1590		7.2	8.0	1.008

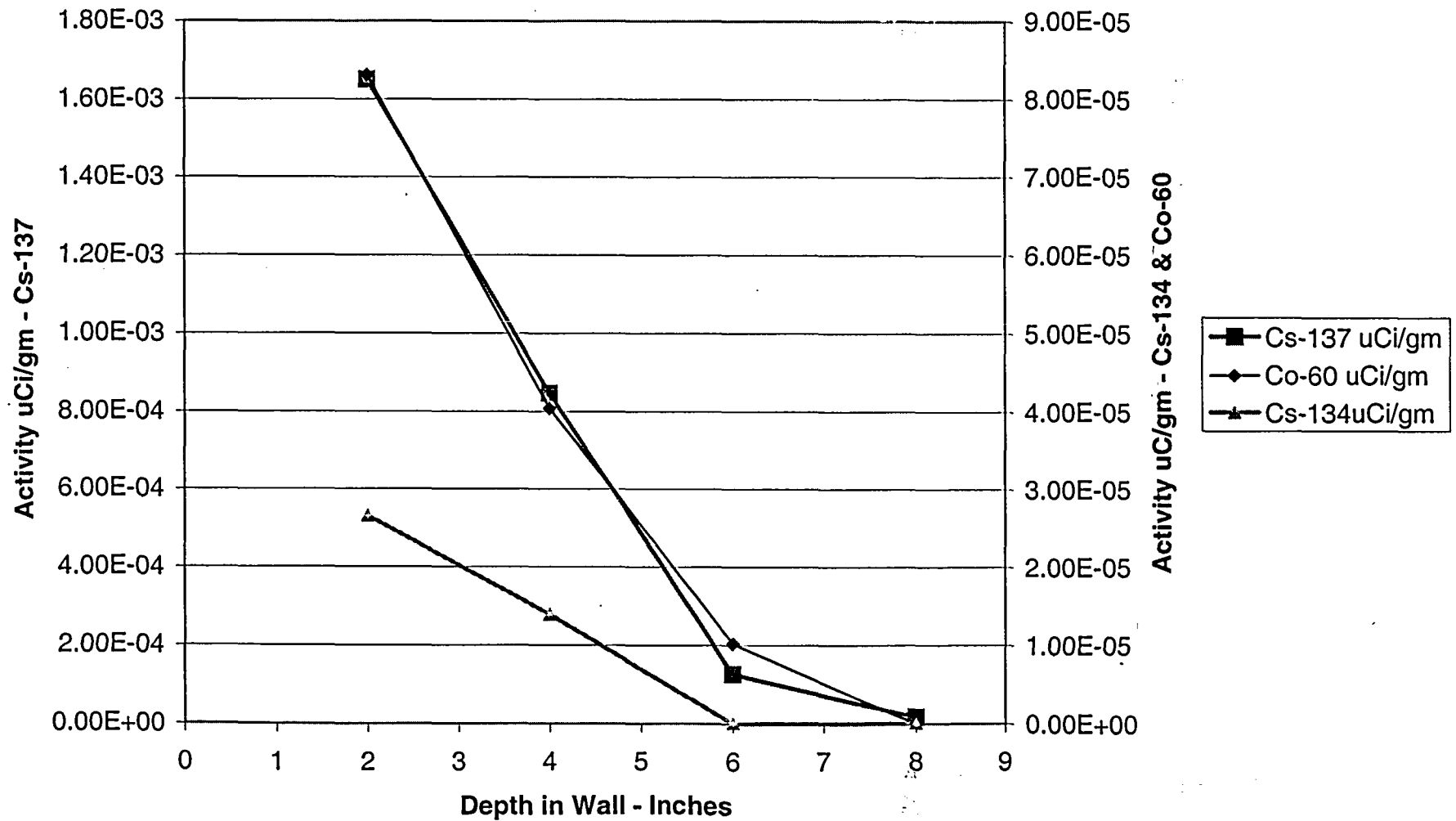
5.78E-07	7.14E-06	12	1450		7.2	8.0	0.999
4.97E-07	8.14E-06	16			8.1	8.9	1.041
4.28E-07	7.50E-06	18	1670		8.3	9.1	1.277
3.39E-07	5.96E-06	18			8.3	9.2	1.344
3.17E-07	6.71E-06	21			8.9	9.8	1.182
4.06E-07	6.15E-06	15			7.8	8.7	1.078
3.20E-07	4.88E-06	15			7.9	8.7	1.182
3.64E-07	4.73E-06	13			7.4	8.2	1.109
1.38E-07	3.40E-06	25			9.4	10.2	1.092

[illegible]

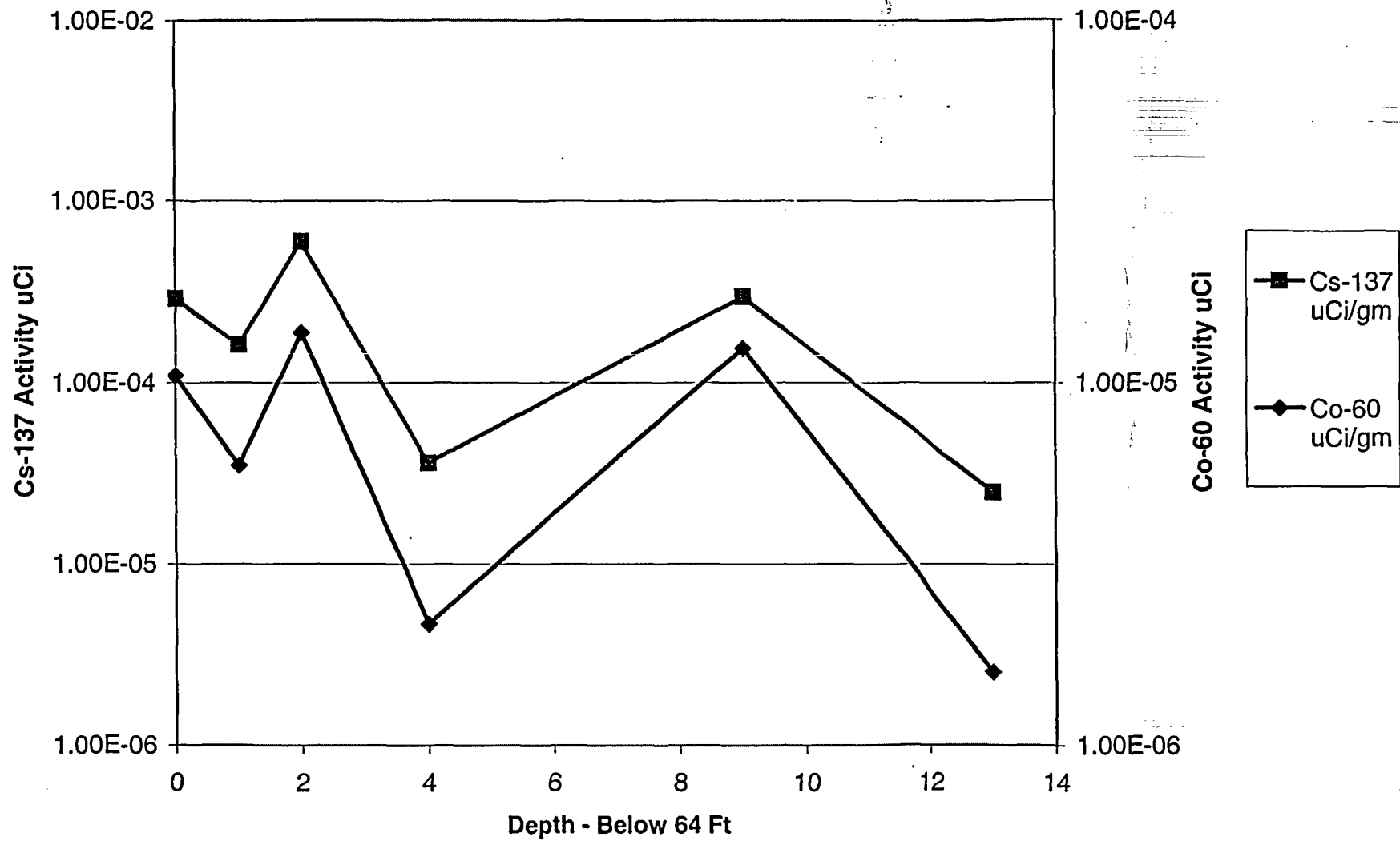
[illegible]

SAMPLE POINT	GROUND LEVEL	WATER LEVEL	TIME	WATER LEVEL	TIME	DATE
HIGH TIDE 1020		TO THE TOP OF		TO THE TOP OF		
LOW TIDE 1717		THE PIPE		THE PIPE		
		HIGH TIDE		LOW TIDE		
MW-107	140'	16' 8.5"	1125	17'	1628	10/16/2005
MW-108	14.5'	4' 1.5"	1025	4' 2"	1740	10/16/2005
MW-109	14.5'	4' 4"	1024	4' 4.5"	1741	10/16/2005
MW-110	134.5'	14' 8"	1115	15' 1"	1638	10/16/2005
MW-111	19'	7' 8.5"	1044	8'	1728	10/16/2005
U3-1	15'	5' 7"	1023	5' 8"	1743	10/16/2005
U3-2	15'	7' 9"	1018	8' 2"	1746	10/16/2005
U3-3	15'	7' 6.5"	1015	8' 1.5"	1747	10/16/2005
U3-4	15'	9' 1.5"	1010	9' 5.5"	1749	10/16/2005
U3-T2	5'	20" ABOVE FLOOR	1000	20" ABOVE FLOOR	1755	10/16/2005
U3-C1	15'6"	8' 5.5"	1020	12' 5"	1745	10/16/2005
U1-C1	12'	5' 2.5"	1026	8' 3"	1736	10/16/2005
MAN HOLES	GROUND LEVEL	HIGH TIDE	TIME	LOW TIDE		DATE
MW5-U1-fd 12"PIPE FROM EAST	18'	10'2"	1040	10'2"	1720	10/16/2005
MW5-u1-fdwd 12" PIPE FROM EAST	18'	1"	1040	1"	1720	10/16/2005
MW4A-fd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
MW4A-fdwd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
NOTE	The water is 6' 5" down from the ground level and the pipe to the north is complete under the wat					

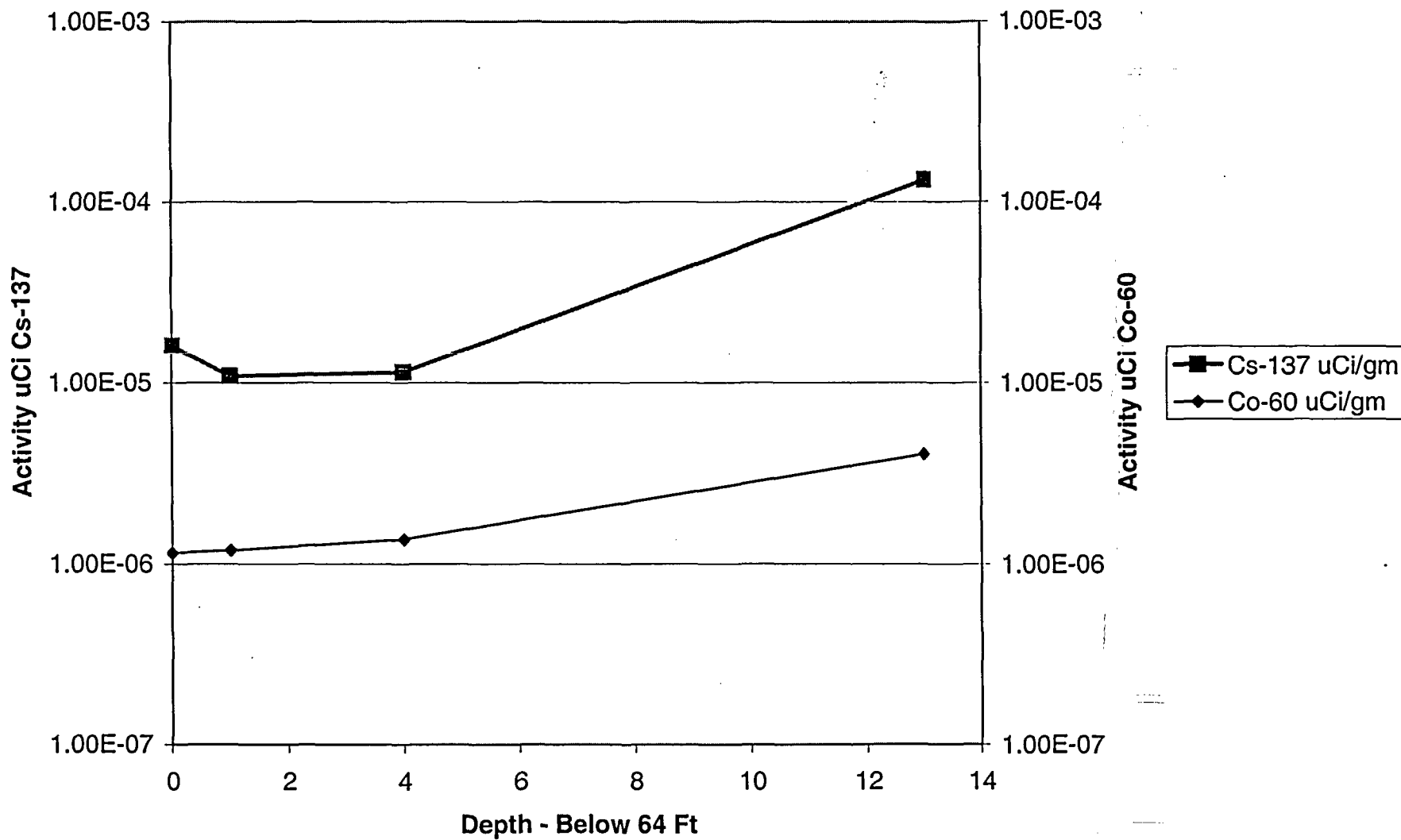
1/2" Drilled Hole - Activity vs Depth into Wall



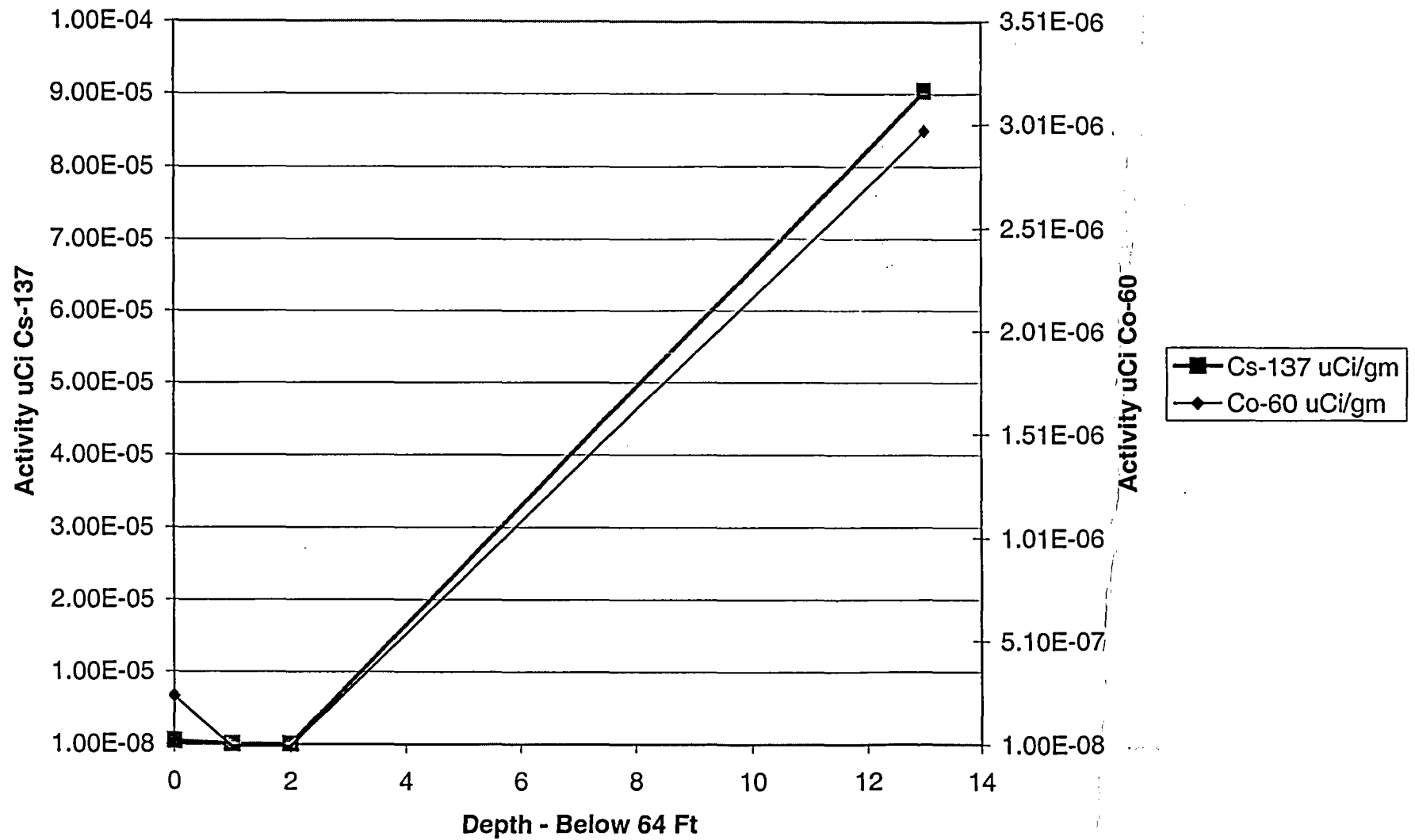
Activity vs Depth - Wall Contact



Activity vs Depth - 1 Foot from Wall



Activity vs Depth - 2 Foot from Wall



Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	0	0	1.05E-05	3.98E-06	2.92E-04
09/08/2005	0	1	5.90E-06	3.54E-06	1.63E-04
09/08/2005	0	2	1.38E-05	1.43E-05	6.00E-04
09/13/2005	0	4	2.17E-06	1.01E-06	3.60E-05
9/26/05 13:00	0	9	1.25E-05	8.66E-06	2.99E-04
9/29/05 12:00	0	13	1.60E-06	6.56E-07	2.49E-05

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	1	0	1.15E-06	ND	1.61E-05
09/08/2005	1	1	1.19E-06	1.82E-07	1.09E-05
09/13/2005	1	4	1.36E-06	ND	1.14E-05
9/29/05 8:45	1	13	4.04E-06	2.14E-06	1.33E-04

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	2	0	2.42E-07	ND	5.07E-07
09/08/2005	2	1	ND	ND	9.44E-08
09/08/2005	2	2	ND	ND	ND
9/29/05 8:45	2	13	2.98E-06	1.85E-06	9.05E-05

SAMPLE POINT	GROUND LEVEL	WATER LEVEL	TIME	WATER LEVEL	TIME	DATE
HIGH TIDE 1020		TO THE TOP OF		TO THE TOP OF		
LOW TIDE 1717		THE PIPE		THE PIPE		
		HIGH TIDE		LOW TIDE		
MW-107	140'	16' 8.5"	1125	17'	1628	10/16/2005
MW-108	14.5'	4' 1.5"	1025	4' 2"	1740	10/16/2005
MW-109	14.5'	4' 4"	1024	4' 4.5"	1741	10/16/2005
MW-110	134.5'	14' 8"	1115	15' 1"	1638	10/16/2005
MW-111	19'	7' 8.5"	1044	8'	1728	10/16/2005
U3-1	15'	5' 7"	1023	5' 8"	1743	10/16/2005
U3-2	15'	7' 9"	1018	8' 2"	1746	10/16/2005
U3-3	15'	7' 6.5"	1015	8' 1.5"	1747	10/16/2005
U3-4	15'	9' 1.5"	1010	9' 5.5"	1749	10/16/2005
U3-T2	5'	20" ABOVE FLOOR	1000	20" ABOVE FLOOR	1755	10/16/2005
U3-C1	15'6"	8' 5.5"	1020	12' 5"	1745	10/16/2005
U1-C1	12'	5' 2.5"	1026	8' 3"	1736	10/16/2005
MAN HOLES	GROUND LEVEL	HIGH TIDE	TIME	LOW TIDE		DATE
MW5-U1-fd 12" PIPE FROM EAST	18'	10'2"	1040	10'2"	1720	10/16/2005
MW5-u1-fdwd 12" PIPE FROM EAST	18'	1"	1040	1"	1720	10/16/2005
MW4A-fd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
MW4A-fdwd 24" PIPE FROM NORTH	12'	SEE NOTE	1315	SEE NOTE	1724	10/16/2005
NOTE	The water is 6' 5" down from the ground level and the pipe to the north is complete under the wat					

Sample Date-time	Location	Type	Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Cs-137/Cs-134 Ratio	
9/1/05 10:00 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	3.03E-04	1.92E-03	6	
9/1/05 10:12 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	6.24E-04	4.64E-03	7	
9/1/05 12:00 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.68E-03	NA	
9/13/05 10:30 AM	N. Wall at leak at 60' Elev.	Large Area Smear	6.64E-04	5.34E-04	8.71E-03	16	
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 1	Dirt	ND	ND	8.75E-08	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 2	Dirt	ND	ND	ND	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 3	Dirt	ND	ND	1.03E-07	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 4	Dirt	ND	ND	5.61E-07	NA	
9/8/05 10:00 AM	Outside MOB Dirt on Hill area 4 Re-sample	Dirt	ND	ND	2.18E-07	NA	

Date	Sample of Hole Drilled in North FSB Wall	pH	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Iron ppm leachate	Boron ppm leachate
09/07/05	(1) Base line	11.74	ND	ND	ND	NA	96	159
09/07/05	(2) First 2" (0-2") of crack at 64' Elev.	10.7	8.31E-05	2.65E-05	1.65E-03	62	628	72
09/07/05	(3) Second 2" (2-4") of crack at 64' Elev.	11.46	4.04E-05	1.39E-05	8.46E-04	61	640	56
09/07/05	(4) Third 2" (4-6") of crack at 64' Elev.	11.75	1.02E-05	ND	1.27E-04	NA	3285	28
09/07/05	(5) Fourth 2" (6-8") of crack at 64' Elev.	11.79	ND	ND	1.75E-05	NA	60	226

		Tritium	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio

9/8/05 9:30 AM	Water under Plastic North Wall C-1		ND	ND	1.09E-04	NA
----------------	------------------------------------	--	----	----	----------	----

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium pico Ci/gm
9/6/05 1:00 PM	Against North Wall below Leak at 64' Elev.	Dirt	1.05E-05	3.98E-06	2.92E-04	73		176.0
9/6/05 1:00 PM	1 ft from N. Wall Below Leak at 64' Elev.	Dirt	1.15E-06	ND	1.61E-05	NA	1.49E-05	40.3
9/6/05 1:00 PM	2 ft from N. Wall Below Leak at 64' Elev.	Dirt	2.42E-07	ND	5.07E-07	NA		7.0
9/6/05 1:00 PM	3 ft from N. Wall Below Leak at 64' Elev.	Dirt	ND	ND	1.19E-07	NA	1.95E-05	7.1

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 1 ft depth	Dirt	5.90E-06	3.54E-06	1.63E-04	46	1.79E-05
9/8/05 2:00 PM	1 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	1.19E-06	1.82E-07	1.09E-05	60	1.44E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	ND	ND	9.44E-08	NA	1.48E-05
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 2 ft depth	Dirt	1.38E-05	1.43E-05	6.00E-04	42	2.73E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 2 ft depth	Dirt	ND	ND	ND	NA	1.33E-05

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16

09/12/2005 10:30	East Core bore hole at 64' Elev.	rock-dust	ND	2.47E-05	1.38E-04	6
09/12/2005 10:30	West Core bore hole at 64' Elev.	rock-dust	6.11E-06	2.97E-05	1.80E-04	6

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40
9/12/05 10:45 AM	Sample (1) Grid 8B&C	Dirt	ND	ND	7.87E-08	NA	
9/12/05 11:00 AM	Sample (2) Grid 8B&C	Dirt	ND	ND	ND	NA	
9/12/05 11:13 AM	Sample (3) Grid 7B&C	Dirt	ND	ND	2.73E-07	NA	
9/12/05 11:25 AM	Sample (4) Grid 7B&C	Dirt	ND	ND	4.36E-07	NA	
9/12/05 12:30 PM	Sample (5) Grid B8	Dirt	ND	ND	3.40E-07	NA	
9/12/2005 13:15:00 PM	Sample (6) Grid BC7	Dirt	ND	ND	1.51E-07	NA	
9/12/2005 13:27:00 PM	Sample (7) Grid BC6	Dirt	ND	ND	1.72E-07	NA	
9/12/2005 13:45:00 PM	Sample (8) Grid C1&2 (to LSA Crate) <MDA Co-60 ~1.5E-7 only 1 peak found	Dirt	ND	ND	1.53E-07	NA	
9/12/2005 14:02:00 PM	Sample (9) Grid AB1	Dirt	ND	ND	ND	NA	
9/12/2005 14:30:00 PM	Sample (10) Grid B1	Dirt	ND	ND	1.53E-07	NA	
9/12/2005 14:45:00 PM	Sample (11) Grid B1&2	Dirt	ND	ND	ND	NA	

Sample Date	Location		Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Boron ppm	Tritium	Cs-137/Cs-134 Ratio
09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	water - not a valid counting geometry - Potential trace level of Cs-134	ND	1.08E-05	7.47E-05	1265		7

09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Filtrate - from sample water - Potential trace level of Cs-134	ND	2.99E-06	1.48E-05	NA		5
------------------	--	--	----	----------	----------	----	--	---

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Boron ppm	Cs-137/Cs-134 Ratio
09/13/2005 17:00	IP-2 Pipe Penn Mezzanine to Section 1 - Wall Crack	Scraping - Dry powder 1.42 gm	1.16E-04	1.47E-05	2.95E-04		20

<u>Date</u>	<u>Sample of Hole Drilled in North</u> <u>FSB Wall</u>	<u>Detph of Hole</u> <u>in Wall</u>	<u>pH</u>	<u>Co-60 uCi/gm</u>	<u>Cs-134uCi/gm</u>
09/07/05	(1) Base line	2	11.74	ND	ND
09/07/05	(2) First 2" (0-2") of crack	2	10.7	8.31E-05	2.65E-05
09/07/05	(3) Second 2" (2-4") of crack	4	11.46	4.04E-05	1.39E-05
09/07/05	(4) Third 2" (4-6") of crack	6	11.75	1.02E-05	ND
09/07/05	(5) Fourth 2" (6-8") of crack	8	11.79	ND	ND

Sample Date-time	Location	Type	Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Cs-137/Cs-134 Ratio	
9/1/05 10:00 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	3.03E-04	1.92E-03	6	
9/1/05 10:12 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	6.24E-04	4.64E-03	7	
9/1/05 12:00 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.68E-03	NA	
9/13/05 10:30 AM	N. Wall at leak at 60' Elev.	Large Area Smear	6.64E-04	5.34E-04	8.71E-03	16	
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 1	Dirt	ND	ND	8.75E-08	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 2	Dirt	ND	ND	ND	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 3	Dirt	ND	ND	1.03E-07	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 4	Dirt	ND	ND	5.61E-07	NA	
9/8/05 10:00 AM	Outside MOB Dirt on Hill area 4 Re-sample	Dirt	ND	ND	2.18E-07	NA	

Date	Sample of Hole Drilled in North FSB Wall	pH	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Iron ppm leachate	Boron ppm leachate
09/07/05	(1) Base line	11.74	ND	ND	ND	NA	96	159
09/07/05	(2) First 2" (0-2") of crack at 64' Elev.	10.7	8.31E-05	2.65E-05	1.65E-03	62	628	72
09/07/05	(3) Second 2" (2-4") of crack at 64' Elev.	11.46	4.04E-05	1.39E-05	8.46E-04	61	640	56
09/07/05	(4) Third 2" (4-6") of crack at 64' Elev.	11.75	1.02E-05	ND	1.27E-04	NA	3285	28
09/07/05	(5) Fourth 2" (6-8") of crack at 64' Elev.	11.79	ND	ND	1.75E-05	NA	60	226

		Tritium	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
--	--	---------	--------------	--------------	---------------	---------------------

9/8/05 9:30 AM	Water under Plastic North Wall C-1		ND	ND	1.09E-04	NA
----------------	------------------------------------	--	----	----	----------	----

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium pico Ci/gm
9/6/05 1:00 PM	Against North Wall below Leak at 64' Elev.	Dirt	1.05E-05	3.98E-06	2.92E-04	73		176.0
9/6/05 1:00 PM	1 ft from N. Wall Below Leak at 64' Elev.	Dirt	1.15E-06	ND	1.61E-05	NA	1.49E-05	40.3
9/6/05 1:00 PM	2 ft from N. Wall Below Leak at 64' Elev.	Dirt	2.42E-07	ND	5.07E-07	NA		7.0
9/6/05 1:00 PM	3 ft from N. Wall Below Leak at 64' Elev.	Dirt	ND	ND	1.19E-07	NA	1.95E-05	7.1

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 1 ft depth	Dirt	5.90E-06	3.54E-06	1.63E-04	46	1.79E-05
9/8/05 2:00 PM	1 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	1.19E-06	1.82E-07	1.09E-05	60	1.44E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	ND	ND	9.44E-08	NA	1.48E-05
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 2 ft depth	Dirt	1.38E-05	1.43E-05	6.00E-04	42	2.73E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 2 ft depth	Dirt	ND	ND	ND	NA	1.33E-05

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16

09/12/2005 10:30	East Core bore hole at 64' Elev.	rock-dust	ND	2.47E-05	1.38E-04	6
09/12/2005 10:30	West Core bore hole at 64' Elev.	rock-dust	6.11E-06	2.97E-05	1.80E-04	6

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40
9/12/05 10:45 AM	Sample (1) Grid 8B&C	Dirt	ND	ND	7.87E-08	NA	
9/12/05 11:00 AM	Sample (2) Grid 8B&C	Dirt	ND	ND	ND	NA	
9/12/05 11:13 AM	Sample (3) Grid 7B&C	Dirt	ND	ND	2.73E-07	NA	
9/12/05 11:25 AM	Sample (4) Grid 7B&C	Dirt	ND	ND	4.36E-07	NA	
9/12/05 12:30 PM	Sample (5) Grid B8	Dirt	ND	ND	3.40E-07	NA	
9/12/2005 13:15:00 PM	Sample (6) Grid BC7	Dirt	ND	ND	1.51E-07	NA	
9/12/2005 13:27:00 PM	Sample (7) Grid BC6	Dirt	ND	ND	1.72E-07	NA	
9/12/2005 13:45:00 PM	Sample (8) Grid C1&2 (to LSA Crate) <MDA Co-60 ~1.5E-7 only 1 peak found	Dirt	ND	ND	1.53E-07	NA	
9/12/2005 14:02:00 PM	Sample (9) Grid AB1	Dirt	ND	ND	ND	NA	
9/12/2005 14:30:00 PM	Sample (10) Grid B1	Dirt	ND	ND	1.53E-07	NA	
9/12/2005 14:45:00 PM	Sample (11) Grid B1&2	Dirt	ND	ND	ND	NA	

Sample Date	Location		Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Boron ppm	Tritium	Cs-137/Cs-134 Ratio
09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	water - not a valid counting geometry - Potential trace level of Cs-134	ND	1.08E-05	7.47E-05	1265		7

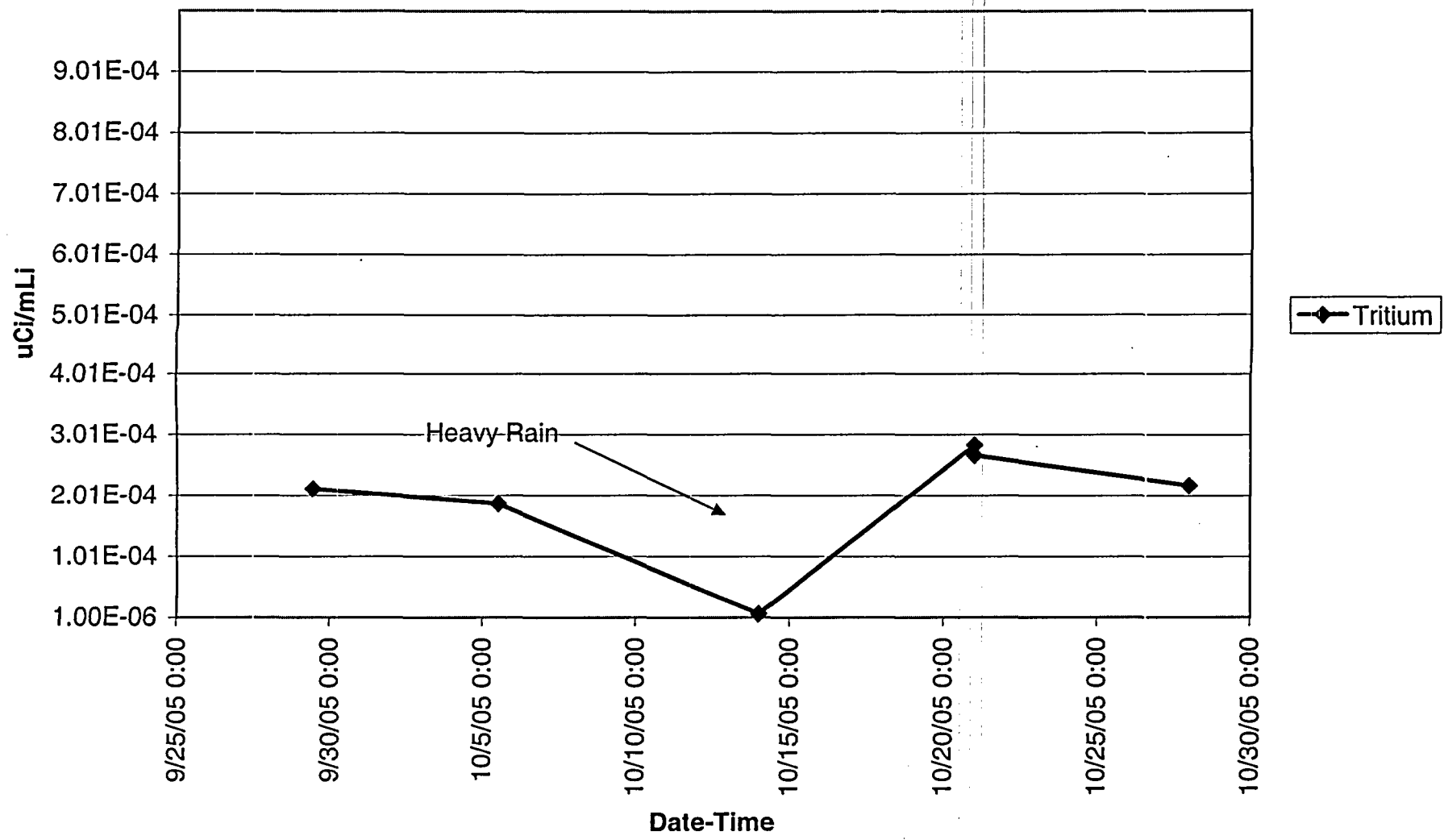
09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Filtrate - from sample water - Potential trace level of Cs-134	ND	2.99E-06	1.48E-05	NA		5
------------------	--	--	----	----------	----------	----	--	---

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Boron ppm	Cs-137/Cs-134 Ratio
09/13/2005 17:00	IP-2 Pipe Penn Mezzanine to Section 1 - Wall Crack	Scraping - Dry powder 1.42 gm	1.16E-04	1.47E-05	2.95E-04		20

<u>Date</u>	<u>Sample of Hole Drilled in North</u> <u>FSB Wall</u>	<u>Detph of Hole</u> <u>in Wall</u>	<u>pH</u>	<u>Co-60 uCi/gm</u>	<u>Cs-134uCi/gm</u>
09/07/05	(1) Base line	2	11.74	ND	ND
09/07/05	(2) First 2" (0-2") of crack	2	10.7	8.31E-05	2.65E-05
09/07/05	(3) Second 2" (2-4") of crack	4	11.46	4.04E-05	1.39E-05
09/07/05	(4) Third 2" (4-6") of crack	6	11.75	1.02E-05	ND
09/07/05	(5) Fourth 2" (6-8") of crack	8	11.79	ND	ND

Cs-137 uCi/gm	Iron ppm leachate	Boron ppm leachate
ND	96	159
1.65E-03	628	72
8.46E-04	640	56
1.27E-04	3285	28
1.75E-05	60	226

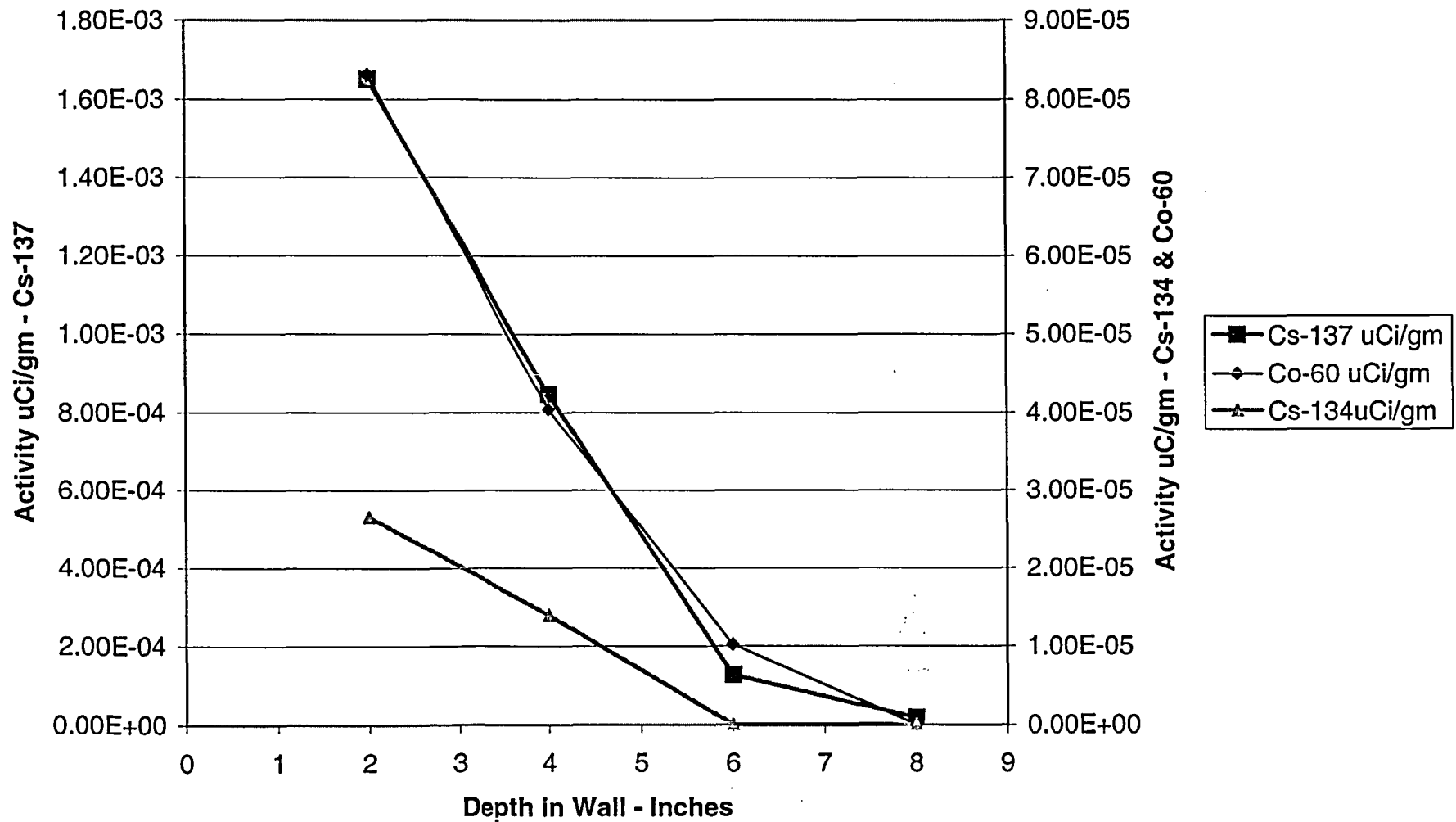
MW-111 Tritium



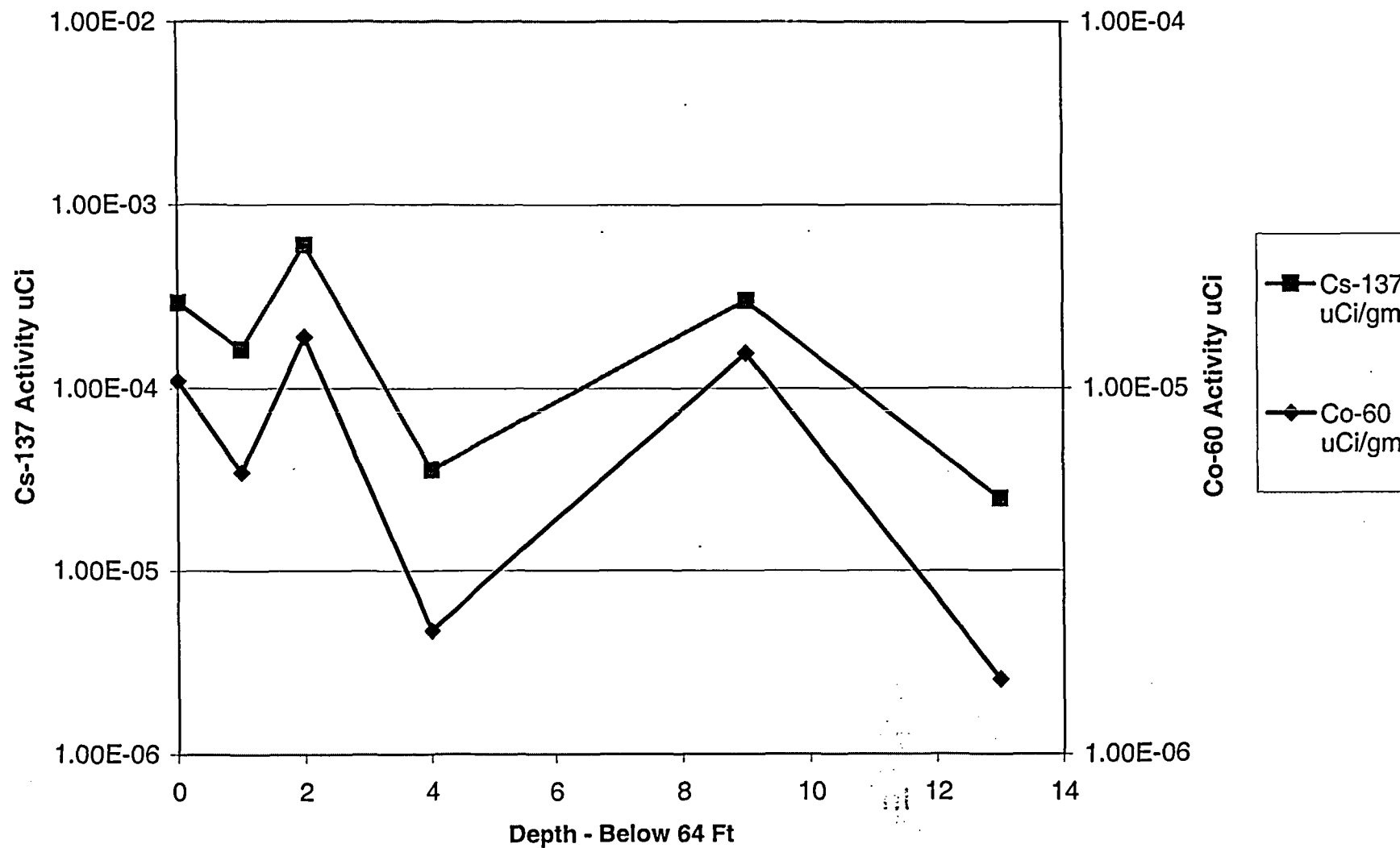
Sample Date	Location	Type	Co-60 uCi/gm
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Water - not a valid counting geometry - Potential trace level of Cs-134 Identified after spectrum reanalyzed 20% Detector 10 min.	ND
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Raw Water - Sediment in bottom. Geometry may not be valid. 40% Detector	3.82E-07
9/19/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - Co-60 Confirming peak not found - 40% Detector - 1 hour count	9.42E-08
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.26E-07
9/22/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 419 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	8.13E-08
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.73E-07
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:30 9-23-05 to 08:45 9-26-05	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	5.67E-08
9/27/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~205 mLi - Notes: Collection system failed. Collection method may have caused collection of material plated on wall into water sample.	~205 mLi - 40% Detector - 1 hour count	1.06E-06

9/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 1000 mLi - Notes: Collection system changed. Collection method may have caused collection of material plated on wall into water sample.	~1000 mLi - 40% Detector - 1 hour count	3.58E-07
9/29/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1259.7 mLi - Notes:	40% Detector - 1 hour count	2.14E-07
9/30/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 2000 mLi - Notes:	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.59E-07
10/3/05 9:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5701 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.48E-07
10/4/05 8:20	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1445 mLi: Note: One peak of Co-60 Not identified	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	8.41E-08
10/5/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1489 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.21E-07
10/6/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1536 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.43E-07
10/7/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 1394 mLi	40% Detector - 1 hour count - NOTE: Data not yet reviewed by Chem. Supv.	1.19E-07
10/11/05 10:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 5155.9 mLi over 98 hours	40% Detector - 1 hour count	1.07E-07
10/12/05 9:45	Behind plastic on 60' & 64' Elev North wall Grid C-1 Gutter. 966.3 mLi over ~23 hours	40% Detector - 1 hour count	ND

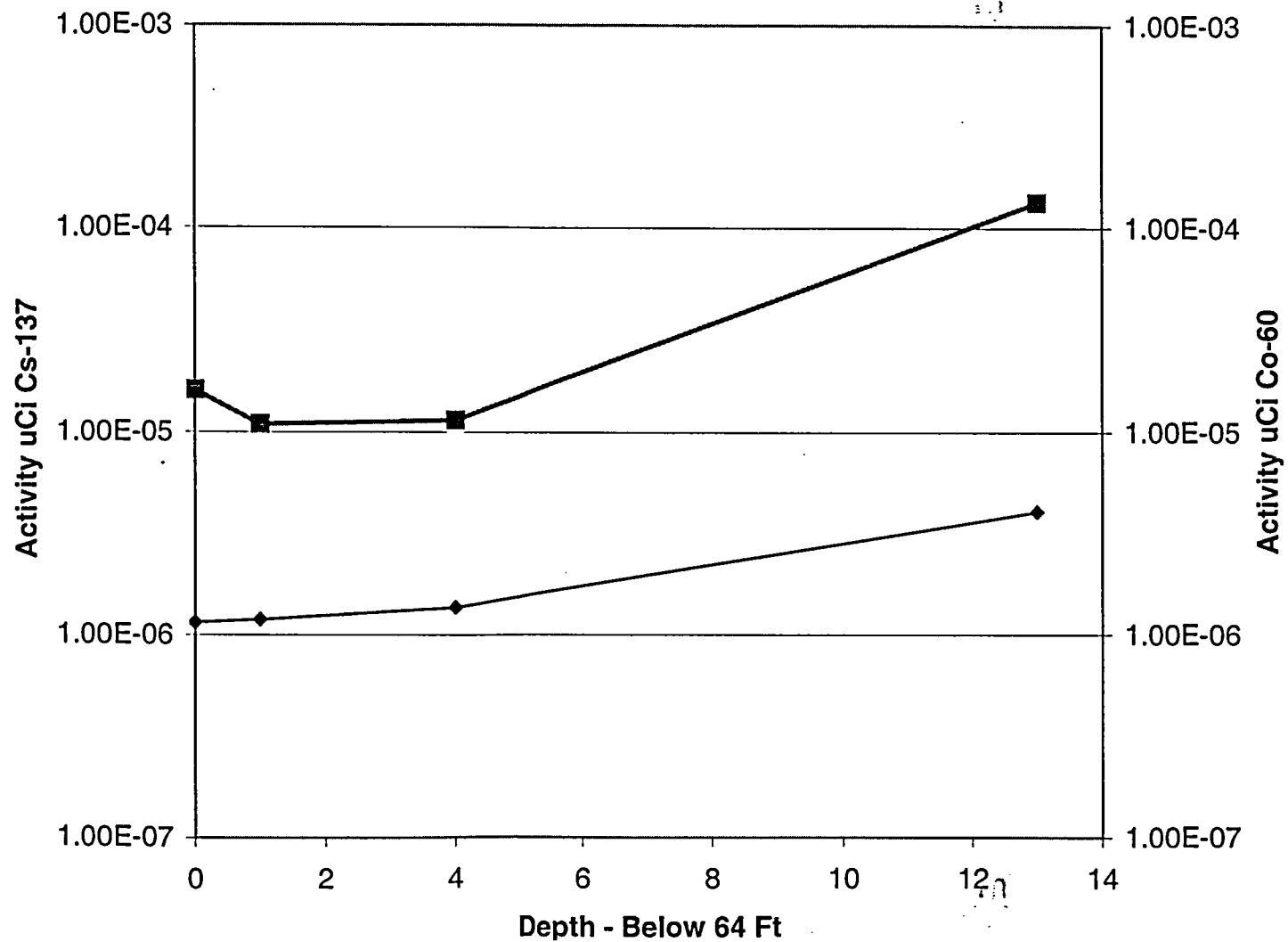
1/2" Drilled Hole - Activity vs Depth into Wall



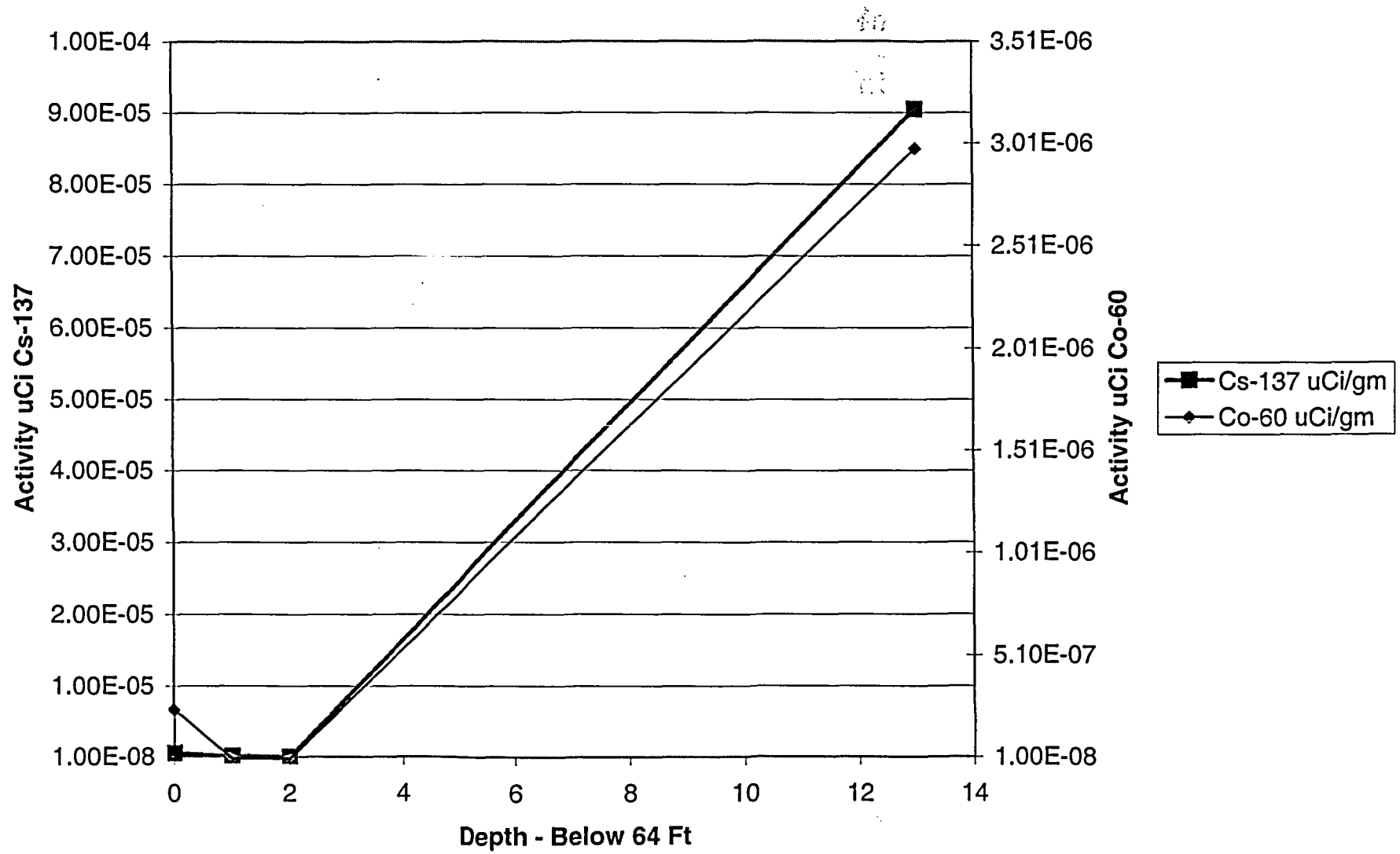
Activity vs Depth - Wall Contact



Activity vs Depth - 1 Foot from Wall



Activity vs Depth - 2 Foot from Wall



Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	0	0	1.05E-05	3.98E-06	2.92E-04
09/08/2005	0	1	5.90E-06	3.54E-06	1.63E-04
09/08/2005	0	2	1.38E-05	1.43E-05	6.00E-04
09/13/2005	0	4	2.17E-06	1.01E-06	3.60E-05
9/26/05 13:00	0	9	1.25E-05	8.66E-06	2.99E-04
9/29/05 12:00	0	13	1.60E-06	6.56E-07	2.49E-05

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	1	0	1.15E-06	ND	1.61E-05
09/08/2005	1	1	1.19E-06	1.82E-07	1.09E-05
09/13/2005	1	4	1.36E-06	ND	1.14E-05
9/29/05 8:45	1	13	4.04E-06	2.14E-06	1.33E-04

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	2	0	2.42E-07	ND	5.07E-07
09/08/2005	2	1	ND	ND	9.44E-08
09/08/2005	2	2	ND	ND	ND
9/29/05 8:45	2	13	2.98E-06	1.85E-06	9.05E-05