WESTON
MANAGERS DESIGNERS/CONSULTANTS

ORIGINAL (Red)

SHEET 1 of 1

CLIENT/SUBJECT Dead Shrubs 5/11/94 W.O. NO.

TASK DESCRIPTION Original planting 6/28/93 TASK NO.

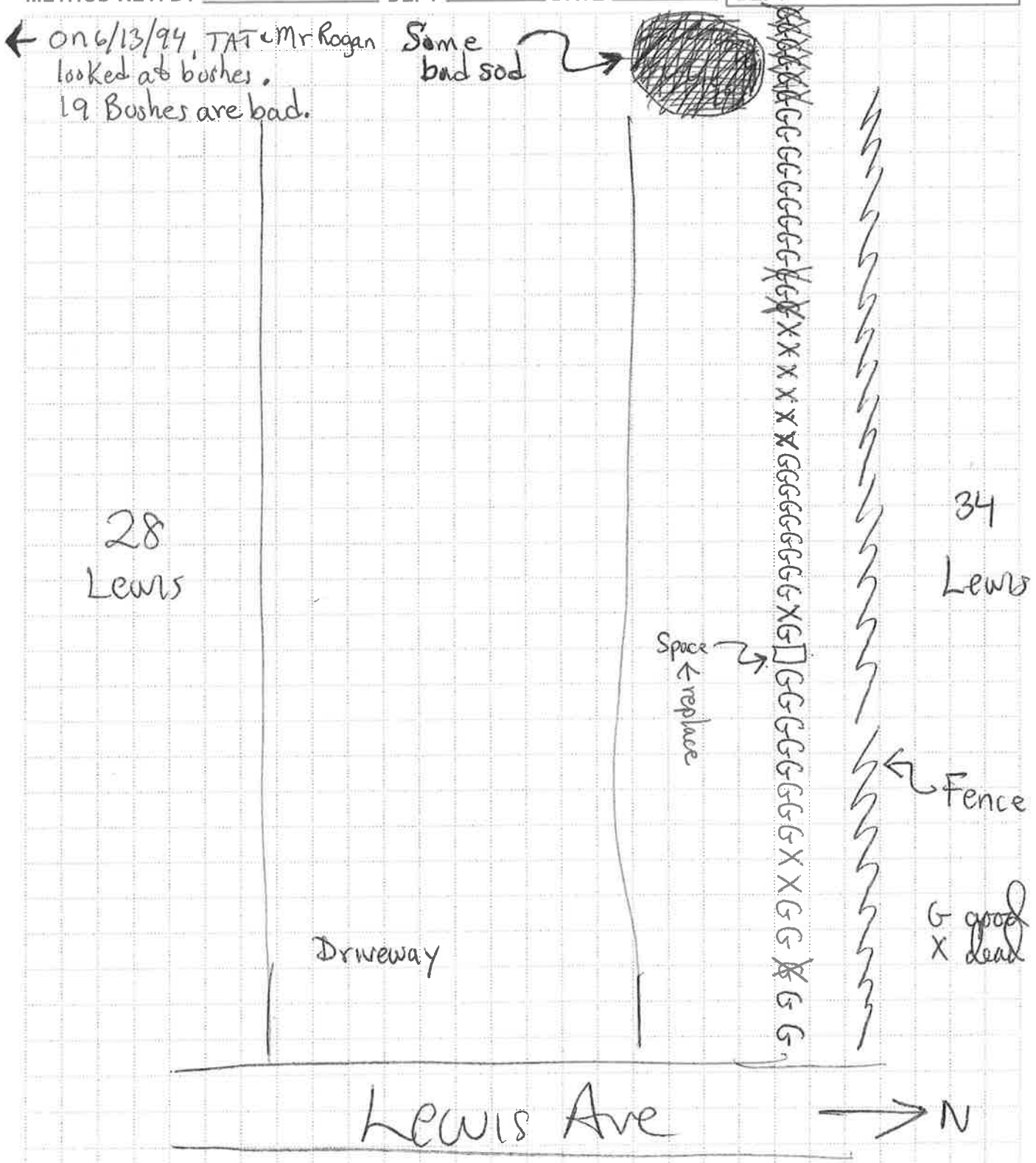
PREPARED BY Z replaced 8/9/93 DEPT DATE

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE



RFW 10-05-003/A-5/85
512-5643

ORIGINAL (Red)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
841 Chestnut Building
Philadelphia, PA 19107

2 September 1992

Ms. Millie Cassidy
28 Lewis Avenue
East Lansdowne, PA 19050

re: Austin Avenue Radiation Site
Soil Sampling at 28 Lewis Av.

Dear Ms. Cassidy:

This letter is a formal request from the United States Environmental Protection Agency (EPA) requesting access to your property at 28 Lewis Avenue in East Lansdowne, Pennsylvania to conduct soil sampling. The sampling is associated with the neighboring property, 34 Lewis Avenue, where EPA has confirmed the presence of radium contamination in the building and surrounding soil.

Results of soil sampling at 34 Lewis Avenue show contamination up to the property line adjacent to 28 Lewis. In order to accurately determine the extent of contamination, we need to sample the soil surrounding your building. Results of this sampling will be made available to you as soon as they are processed at our on-site laboratory.

Please call Leanne Nurse, EPA Community Relations Coordinator, at 597-6920 to schedule the sampling; we would like to do the work as soon as possible. Please feel free to call Leanne at the above number or call me directly at the command post, 622-1603 if you have any questions.

Sincerely,

Walter F. Lee (3HW31)

Walter F. Lee (3HW31)
On-Scene Coordinator

ORIGINAL

ORIGINAL (Red)

Date: **September 11, 1992**

To: **Walter Lee, EPA OSC**

From: **John Hamm, CWM Project Manager** John O. Hamm

Subject: **Addendum to Soil Characterization Report For 34 Lewis Avenue (28 Lewis Avenue)**

****

Eight samples which exceeded the limit for tailings in soil at 34 Lewis Avenue were in close proximity to the property line between 34 Lewis Avenue and 28 Lewis Avenue.

In order to properly characterize the boundaries of the contamination the EPA obtained permission from the owner of 28 Lewis Avenue for CWM to obtain samples from ten points adjacent to the contaminated area at 34 Lewis Avenue.

The CWM survey team arrived at the property on September 3, 1992 at approximately 12:15 PM, received a brief on the results of the adjacent sample and commenced sampling in accordance with the Health and Safety Plan and the Operations Plan. Sampling was completed September 4, 1992 at approximately 8:45 AM.

Six samples obtained at 28 Lewis Avenue exceeded the surface (0"-6") limit for tailings in soil: 5ρCi/g above background (average background - 2.2ρCi/g).

Four samples obtained at 28 Lewis exceeded the sub-surface (> 6" deep) limit for tailings in soil: 15ρCi/g.

All other samples obtained at 28 Lewis Avenue were less than limits for tailings in soil.

Based on these results, complete characterization of the 28 Lewis Avenue property will be required to determine the extent of the contaminated soil.

/joh

Attachment (8 pages)

c: File

WESTON
MANAGERS DESIGNERS/CONSULTANTS

ORIGINAL (Rev) 8

SHEET

CLIENT/SUBJECT 28 Lewis Ave, W.O. NO.

TASK DESCRIPTION Overhead view 1 block = 4' x 4' TASK NO.

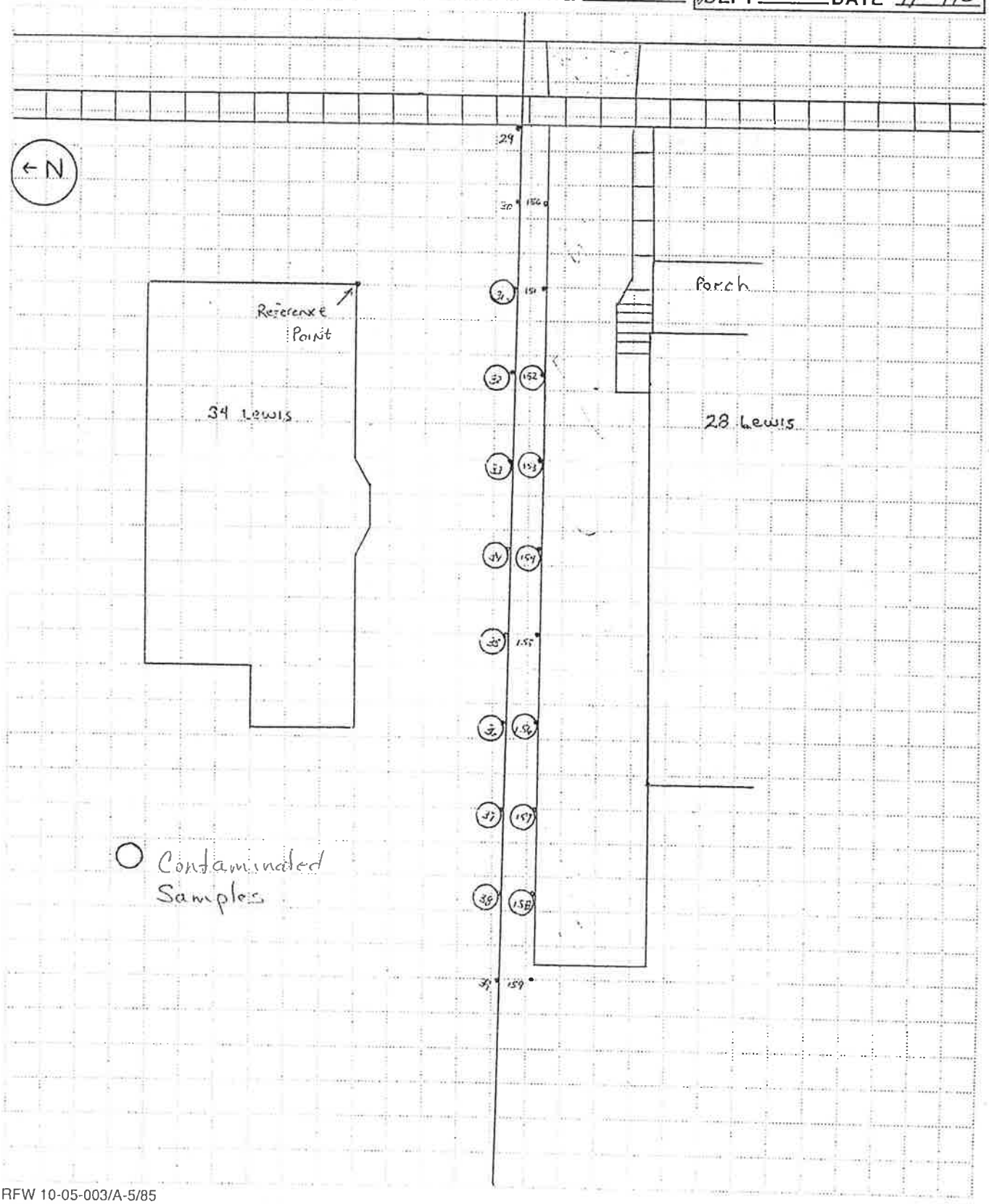
PREPARED BY Bill Rankin DEPT 572 DATE 9-8-3-92

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY John O Hamm

DEPT DATE 9/11/92



RFW 10-05-003/A-5/85
512 5C42

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 LEWIS AVE DATE 03 September 92

INSTRUMENT/SERIAL #2221/44-10/#84733 & #68280 PAGE 2 OF 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

#84733 #68280

HOLE ID: 148 (24N, 32W)		HOLE ID: 156 (22S, 10W)		HOLE ID: 150 (22S, 10W)		HOLE ID: 151 (22S, 0)	
TIME DRILLED: 1400		TIME DRILLED: 1440		TIME DRILLED: 1446		TIME DRILLED: 1455	
TIME LOGGED: 1402		TIME LOGGED: 1445		TIME LOGGED: 1453		TIME LOGGED: 1501	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	54408	SURFACE	1614	SURFACE	1703	SURFACE	2194
0"	49057	0"	1754	0"	1851	0"	2462
6"	40816	6"	15039	6"	2026	6"	2822
12"	34165	12"	16300	12"	2502	12"	2687
18"	35137	18"	18230	18"	2346	18"	2413
24"	43247	24"	2316	24"	2300	24"	2343
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1885	Field Check	1324	Field Check	1456	Field Check	1451

REMARKS: METER S/N 84733 FAILED @ HOLE #150 - REPLACED W/ #68280 AND MODELED

Reviewed John A Hamm 9/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 LEWIS AVE. DATE 03 September 1992

INSTRUMENT/SERIAL # 2221/44-40/468280 PAGE 3 OF 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 152 (22S, 10W)		HOLE ID: 153 (22S, 20W)		HOLE ID: 154 (22S, 30W)		HOLE ID: 155 (22S, 40W)	
TIME DRILLED: 1510		TIME DRILLED: 1525		TIME DRILLED: 1545		TIME DRILLED: 1555	
TIME LOGGED: 1515		TIME LOGGED: 1527		TIME LOGGED: 1551		TIME LOGGED: 1602	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	5248	SURFACE	5361	SURFACE	4267	SURFACE	3963
0"	4933	0"	5495	0"	4077	0"	3981
6"	5186	6"	6235	6"	3329	6"	3112
12"	3543	12"	6092	12"	3186	12"	3126
18"	2869	18"	3488	18"	2716	18"	2640
24"	2490	24"	2550	24"	2460	24"	2537
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1350	Field Check	1320	Field Check	1195	Field Check	1195

REMARKS:

Witnessed [illegible] John O'Hanna 9/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 3416 LEWIS AVE. DATE 03 September 1992

INSTRUMENT/SERIAL # 2221/44-10/#68780 PAGE 4 OF 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 156 (21S, 50W)		HOLE ID: 157 (21S, 60W)		HOLE ID: 158 (21S, 70W)		HOLE ID: 159 (21S, 80W)	
TIME DRILLED: 1620		TIME DRILLED: 1635		TIME DRILLED:		TIME DRILLED:	
TIME LOGGED: 1623		TIME LOGGED: 1641		TIME LOGGED:		TIME LOGGED:	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE:		SOIL TYPE:	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	6359	SURFACE	4647	SURFACE		SURFACE	
0"	6750	0"	5866	0"	N	0"	
6"	15769	6"	13157	6"	A	6"	
12"	19665	12"	20364	12"		12"	
18"	9637	18"	13010	18"		18"	
24"	4189	24"	4488	24"		24"	
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1416	Field Check	1330	Field Check		Field Check	

REMARKS:

Reviewed John O'Hanna 8/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 Lewis Ave DATE 04 Sept 92

INSTRUMENT/SERIAL # 2221 w/44-10 #08:30 PAGE 5 OF 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 158 (70W, 21S)		HOLE ID: 159 (80W, 21S)		HOLE ID:		HOLE ID:	
TIME DRILLED: 0825		TIME DRILLED: 0850		TIME DRILLED:		TIME DRILLED:	
TIME LOGGED: 0834		TIME LOGGED: 0853		TIME LOGGED:		TIME LOGGED:	
SOIL TYPE: clay/loam		SOIL TYPE: clay/loam		SOIL TYPE:		SOIL TYPE:	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	4704	SURFACE	1617	SURFACE		SURFACE	
0"	4786	0"	1645	0"		0"	
6"	11062	6"	2695	6"	N/A	6"	
12"	13175	12"	3106	12"		12"	
18"	7593	18"	2792	18"		18"	
24"	3702	24"	2559	24"		24"	
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1287	Field Check	1281	Field Check		Field Check	

REMARKS:

Reviewed John O'Hanna 9/11/92

ORIGINAL (Red)

SOIL SAMPLE LOG

Radium-226

PROPERTY 34 Lewis Ave.

SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
150 (22S, 10W) 0-6"	1440		663.9	2.6 ± 46	JdH
150 (22S, 10W) 6-12"	1440		615.2	1.4 ± 135	JdH
150 (22S, 10W) 12-18"	1440		780.5	2.6 ± 52	JdH
150 (22S, 10W) 18-24"	1440		743.1	1.7 ± 79	JdH
151 (22S, 0) 0-6"	1433		612.6	4.8 ± 33	JdH
151 (22S, 0) 6-12"	1433		655.0	1.5 ± 123	JdH
151 (22S, 0) 12-18"	1433		791.6	1.9 ± 75	JdH
151 (22S, 0) 18-24"	1433		796.0	2.5 ± 55	JdH
152 (22S, 10W) 0-6"	1370	9-9-92	547.3	16.8 ± 17	JdH
152 (22S, 10W) 6-12"	1370		603.9	10.2 ± 30	JdH
152 (22S, 10W) 12-18"	1370		709.9	1.8 ± 90	JdH
152 (22S, 10W) 18-24"	1370		755.9	1.7 ± 77	JdH

Received by: [signature] 1735.

MDA = DEPTH 0-6" + @ 1.6 pCi/g

Remarks >6" + @ 2.1

Reviewed John O'Hanna 9/11/92

[signature] RCHA

ORIGINAL (Red)

SOIL SAMPLE LOG

Radium–226

PROPERTY 34 Lewis Ave.

SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
# 153 (22S, 20W) 0-6"	9/3/92 1525	9-9-92	641.8	15.3 ± 17	JdH
153 (22S, 20W) 6-12"	1525		747.4	8.2 ± 28	JdH
153 (22S, 20W) 12-18"	1525		774.9	3.1 ± 51	JdH
153 (22S, 20W) 18-24"	1525		798.1	2.0 ± 78	JdH
# 154 (22S, 30W) 0-6"	1545		687.8	6.8 ± 25	JdH
154 (22S, 30W) 6-12"	1545		748.8	5.3 ± 40	JdH
154 (22S, 30W) 12-18"	1545		818.9	3.5 ± 40	JdH
154 (22S, 30W) 18-24"	1545		601.6	1.7 ± 112	JdH
# 155 (22S, 40W) 0-6"	1535		737.7	4.9 ± 33	JdH
155 (22S, 40W) 6-12"	1535		804.3	4.2 ± 41	JdH
155 (22S, 40W) 12-18"	1535		668.9	3.3 ± 42	JdH
155 (22S, 40W) 18-24"	1535		686.2	3.6 ± 40	JdH
# 156 (21S, 50W) 0-6"	1620		660.6	36.9 ± 10	JdH
156 (21S, 50W) 6-12"	1620		772.2	74.3 ± 10	JdH
156 (21S, 50W) 12-18"	1620		949.8	7.6 ± 32	JdH
156 (21S, 50W) 18-24"	1620		829.7	4.0 ± 36	JdH
# 157 (21S, 60W) 0-6"	1635		683.1	25.4 ± 11	JdH
157 (21S, 60W) 6-12"	1635		845.3	51.0 ± 11	JdH
157 (21S, 60W) 12-18"	1635		774.6	12.0 ± 26	JdH
157 (21S, 60W) 18-24"	1635		738.3	4.9 ± 35	JdH

Received by: J. Hanna 1735.

MDA = DEPTH 0-6" ≠ @ 1.6 pCi/g

Remarks >6" ≠ @ 2.1

Reviewed John O'Hanna 9/11/92

Review 10/08 [illegible]

ORIGINAL (Red)

SOIL SAMPLE LOG

Radium–226

PROPERTY 34 Lewis Ave.

	SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
H	158 (70W,21S) 0-6"	9/4/92 0825	9/8/92	568.4	20.1 ± 13	MK
	158 (70W,21S) 6-12"	0825	9/8/92	590.6	30.3 ± 16	MK
	158 (70W,21S) 12-18"	0825	9/8/92	594.7	4.0 ± 45	MK
	158 (70W,21S) 18-24"	0825	9/8/92	645.5	1.5 ± 86	MK
H	159 (80W,21S) 0-6"	0850	9/8/92	644.0	3.6 ± 37	MK
	159 (80W,21S) 6-12"	0850	9/8/92	610.1	5.2 ± 38	MK
	159 (80W,21S) 12-18"	0850	9/8/92	742.3	2.4 ± 49	MK
	159 (80W,21S) 18-24"	0850	9/8/92	698.1	3.1 ± 41	MK

Received by: [signature]

MDA = DEPTH 0-6" @ 1.6 pCi/g

Remarks >6" @ 2.1

Reviewed [signature] 9/11/92

Reviewed QA/QC [signature]

ORIGINAL

ORIGINAL (Red)

Date: **September 11, 1992**

To: **Walter Lee, EPA OSC**

From: **John Hamm, CWM Project Manager** John O Hamm

Subject: **Addendum to Soil Characterization Report For 34 Lewis Avenue (28 Lewis Avenue)**

****

Eight samples which exceeded the limit for tailings in soil at 34 Lewis Avenue were in close proximity to the property line between 34 Lewis Avenue and 28 Lewis Avenue.

In order to properly characterize the boundaries of the contamination the EPA obtained permission from the owner of 28 Lewis Avenue for CWM to obtain samples from ten points adjacent to the contaminated area at 34 Lewis Avenue.

The CWM survey team arrived at the property on September 3, 1992 at approximately 12:15 PM, received a brief on the results of the adjacent sample and commenced sampling in accordance with the Health and Safety Plan and the Operations Plan. Sampling was completed September 4, 1992 at approximately 8:45 AM.

Six samples obtained at 28 Lewis Avenue exceeded the surface (0"-6") limit for tailings in soil: 5ρCi/g above background (average background - 2.2ρCi/g).

Four samples obtained at 28 Lewis exceeded the sub-surface (> 6" deep) limit for tailings in soil: 15ρCi/g.

All other samples obtained at 28 Lewis Avenue were less than limits for tailings in soil.

Based on these results, complete characterization of the 28 Lewis Avenue property will be required to determine the extent of the contaminated soil.

/joh

Attachment (8 pages)

c: File

WESTON
MANAGERS DESIGNERS/CONSULTANTS

ORIGINAL PAGE 8

SHEET 1 of 8

CLIENT/SUBJECT 28 Lewis Ave, W.O. NO.

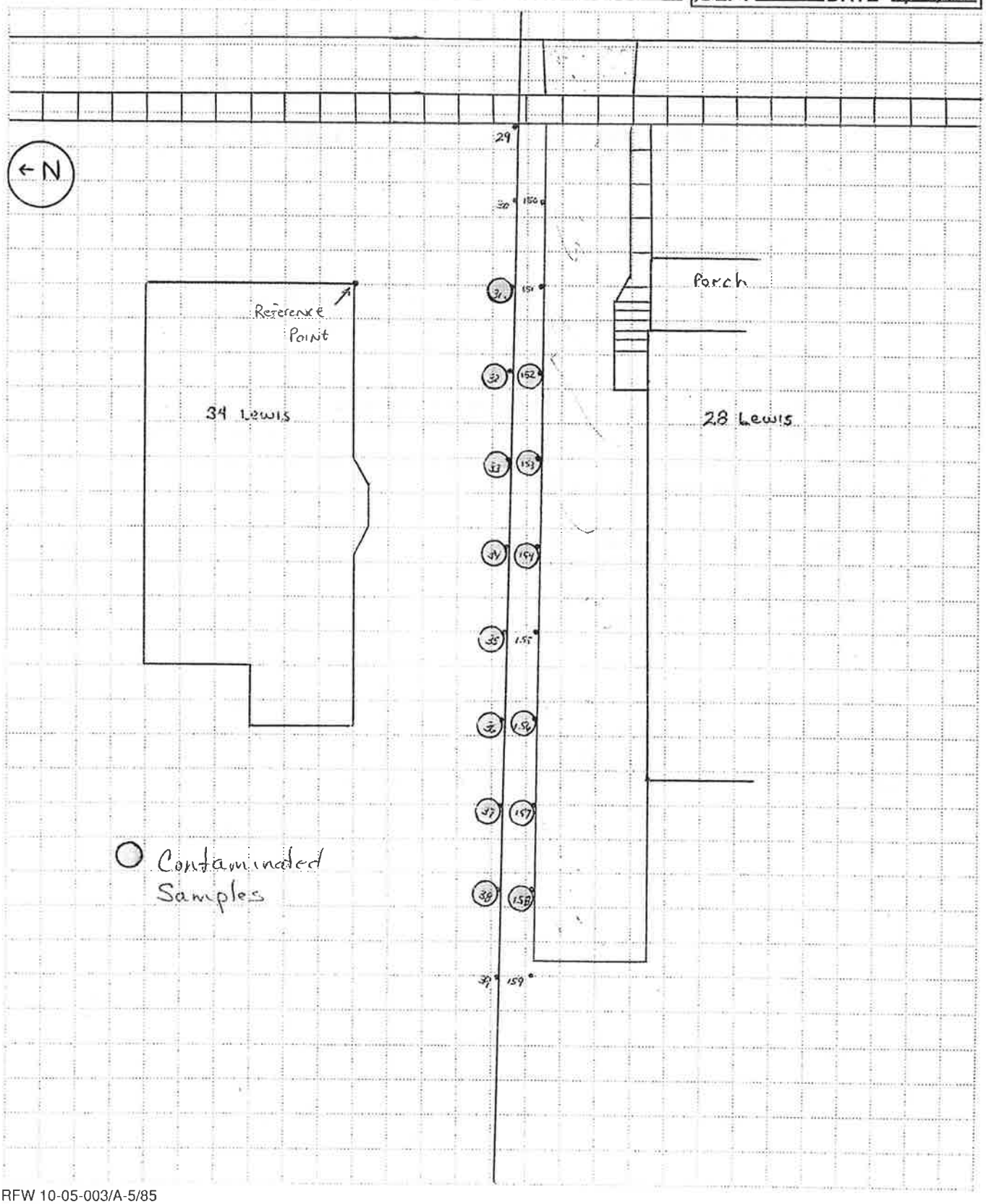
TASK DESCRIPTION Overhead View 1 block = 4' x 4' TASK NO.

PREPARED BY Bill Rankin DEPT 572 DATE 9-8-3-92

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY John O'Hanlon
DEPT DATE 9/11/92



RFW 10-05-003/A-5/85
512-5042

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 LEWIS AVE **DATE** 03 September 92

INSTRUMENT/SERIAL # 2221/44-10/#84733 & #68780 **PAGE** 2 **OF** 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

#84733 #68780

HOLE ID: 148 (24N, 32W)		HOLE ID: 156 (22S, 10W)		HOLE ID: 150 (22S, 10W)		HOLE ID: 151 (22S, 0)	
TIME DRILLED: 1400		TIME DRILLED: 1440		TIME DRILLED: 1446		TIME DRILLED: 1455	
TIME LOGGED: 1402		TIME LOGGED: 1445		TIME LOGGED: 1453		TIME LOGGED: 1501	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	54408	SURFACE	1614	SURFACE	1703	SURFACE	2194
0"	49057	0"	1754	0"	1851	0"	2462
6"	40816	6"	15039	6"	2026	6"	2822
12"	34165	12"	16300	12"	2502	12"	2687
18"	35137	18"	12310	18"	2346	18"	2413
24"	43247	24"	2316	24"	2300	24"	2343
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1885	Field Check	1324	Field Check	1456	Field Check	1451

REMARKS: METER S/N 84733 FAILED @ HOLE #150 - REPLACED W/ #68780 AND MUCELDED

Reviewed John O'Hanna 9/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 LEWIS AVE. **DATE** 03 September 1992

INSTRUMENT/SERIAL # 2221/44-10/468780 **PAGE** 3 **OF** 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 152 (22S, 10W)		HOLE ID: 153 (22S, 20W)		HOLE ID: 154 (22S, 30W)		HOLE ID: 155 (22S, 40W)	
TIME DRILLED: 1510		TIME DRILLED: 1525		TIME DRILLED: 1545		TIME DRILLED: 1555	
TIME LOGGED: 1515		TIME LOGGED: 1527		TIME LOGGED: 1551		TIME LOGGED: 1602	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	5248	SURFACE	5361	SURFACE	4267	SURFACE	3963
0"	4933	0"	5495	0"	4077	0"	3981
6"	5186	6"	6235	6"	3329	6"	3112
12"	3543	12"	6092	12"	3126	12"	3126
18"	2869	18"	3488	18"	2716	18"	2648
24"	2430	24"	2550	24"	2460	24"	2537
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1350	Field Check	1320	Field Check	1195	Field Check	1195

REMARKS:

Reviewed [illegible] 9/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 LEWIS AVE. **DATE** 03 September 92

INSTRUMENT/SERIAL # 222/44-10/#68780 **PAGE** 4 **OF** 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 156 (21.5, 50W)		HOLE ID: 157 (21.5, 60W)		HOLE ID: 158 (21.5, 70W)		HOLE ID: 159 (21.5, 80W)	
TIME DRILLED: 1620		TIME DRILLED: 1635		TIME DRILLED:		TIME DRILLED:	
TIME LOGGED: 1623		TIME LOGGED: 1641		TIME LOGGED:		TIME LOGGED:	
SOIL TYPE: CLAY/LOAM		SOIL TYPE: CLAY/LOAM		SOIL TYPE:		SOIL TYPE:	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	6359	SURFACE	4647	SURFACE		SURFACE	
0"	6750	0"	5866	0"	N	0"	
6"	15769	6"	13157	6"		6"	
12"	19665	12"	20364	12"	A	12"	
18"	9637	18"	13010	18"		18"	
24"	4189	24"	4488	24"		24"	
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1416	Field Check	1330	Field Check		Field Check	

REMARKS:

Reviewed John O'Hanna 9/11/92

ORIGINAL (Red)

BORE HOLE LOG

PROPERTY 34 Lewis Ave **DATE** 04 Sept 92

INSTRUMENT/SERIAL # 2221 / 944-10 #03730 **PAGE** 5 **OF** 8

NOTES:
1. All holes are 3 inch diameter.
2. Record unusual conditions such as water in bore hole or obstructions.

HOLE ID: 158 (70W, 21S)		HOLE ID: 159 / 80W, 21S)		HOLE ID:		HOLE ID:	
TIME DRILLED 0825		TIME DRILLED: 0850		TIME DRILLED:		TIME DRILLED:	
TIME LOGGED: 0834		TIME LOGGED: 0853		TIME LOGGED:		TIME LOGGED:	
SOIL TYPE: clay / loam		SOIL TYPE: clay / loam		SOIL TYPE:		SOIL TYPE:	
DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN	DEPTH	COUNTS/.1MIN
SURFACE	4704	SURFACE	1617	SURFACE		SURFACE	
0"	4786	0"	1645	0"		0"	
6"	11062	6"	2695	6"	N/A	6"	
12"	13175	12"	3106	12"		12"	
18"	7593	18"	2792	18"		18"	
24"	3702	24"	2559	24"		24"	
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
Field Check	1287	Field Check	1281	Field Check		Field Check	

REMARKS:

Reviewed John O'Hanna 9/11/92

ORIGINAL (Red)

SOIL SAMPLE LOG

Radium-226

PROPERTY 34 Lewis Ave.

SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
150 (22S, 10W) 0-6"	1440		663.9	2.6 ± 46	JdH
150 (22S, 10W) 6-12"	1440		615.2	1.4 ± 135	JdH
150 (22S, 10W) 12-18"	1440		780.5	2.6 ± 52	JdH
150 (22S, 10W) 18-24"	1440		743.1	1.7 ± 79	JdH
151 (22S, 0) 0-6"	1455		612.6	4.8 ± 33	JdH
151 (22S, 0) 6-12"	1455		655.0	1.5 ± 123	JdH
151 (22S, 0) 12-18"	1455		791.6	1.9 ± 75	JdH
151 (22S, 0) 18-24"	1455		796.0	2.5 ± 55	JdH
152 (22S, 10W) 0-6"	1570	9-9-92	547.3	16.8 ± 17	JdH
152 (22S, 10W) 6-12"	1570		603.9	10.2 ± 30	JdH
152 (22S, 10W) 12-18"	1570		709.9	1.8 ± 90	JdH
152 (22S, 10W) 18-24"	1570		755.9	1.7 ± 77	JdH

Received by: [signature] 1735.

MDA = DEPTH 0-6" ≠ @ 1.6 pCi/g

Remarks >6" ≠ @ 2.1

Reviewed John O Hamm 9/11/92

[signature]

SOIL SAMPLE LOG

Radium-226

PROPERTY 34 LEWIS AVE.

	SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
#	153 (22S, 20W) 0-6"	9/3/92 1525	9-9-92	641.8	15.3 ± 17	JdH
	153 (22S, 20W) 6-12"	1525		747.4	8.2 ± 28	JdH
	153 (22S, 20W) 12-18"	1525		774.9	3.1 ± 51	JdH
	153 (22S, 20W) 18-24"	1525		798.1	2.0 ± 78	JdH
#	154 (22S, 30W) 0-6"	1545		687.8	6.8 ± 25	JdH
	154 (22S, 30W) 6-12"	1545		748.8	5.3 ± 40	JdH
	154 (22S, 30W) 12-18"	1545		818.9	3.5 ± 40	JdH
	154 (22S, 30W) 18-24"	1545		601.6	1.7 ± 112	JdH
#	155 (22S, 40W) 0-6"	1555		737.7	4.9 ± 33	JdH
	155 (22S, 40W) 6-12"	1555		804.3	4.2 ± 41	JdH
	155 (22S, 40W) 12-18"	1555		668.9	3.3 ± 42	JdH
	155 (22S, 40W) 18-24"	1555		686.2	3.6 ± 40	JdH
#	156 (21S, 50W) 0-6"	1620		660.6	36.9 ± 10	JdH
	156 (21S, 50W) 6-12"	1620		772.2	74.3 ± 10	JdH
	156 (21S, 50W) 12-18"	1620		949.8	7.6 ± 32	JdH
	156 (21S, 50W) 18-24"	1620		829.7	4.0 ± 36	JdH
#	157 (21S, 60W) 0-6"	1635		683.1	25.4 ± 11	JdH
	157 (21S, 60W) 6-12"	1635		845.3	51.0 ± 11	JdH
	157 (21S, 60W) 12-18"	1635		774.6	12.0 ± 26	JdH
	157 (21S, 60W) 18-24"	1635		738.3	4.9 ± 35	JdH

Received by: J. Hamm 1735.

MDA = DEPTH 0-6" ± @ 1.6 pCi/g

Remarks >6" ± @ 2.1

Reviewed John O'Hanlon 9/11/92

REVIEW 9/14/92

ORIGINAL (Red)

SOIL SAMPLE LOG

Radium–226

PROPERTY 34 Lewis Ave.

SAMPLE ID	DATE/TIME Sampled	DATE/TIME Counted	WEIGHT grams	ACTIVITY pCi/gram +/- %error	COUNT By
H 158 (70W,21S) 0-6"	9/4/92 0825	9/8/92	568.4	20.1 ± 13	MK
158 (70W,21S) 6-12"	0825	9/8/92	590.6	30.3 ± 16	MK
158 (70W,21S) 12-18"	0825	9/8/92	594.7	4.0 ± 45	MK
158 (70W,21S) 18-24"	0825	9/8/92	645.5	1.5 ± 86	MK
H 159 (80W,21S) 0-6"	0850	9/8/92	644.0	3.6 ± 37	MK
159 (80W,21S) 6-12"	0850	9/8/92	610.1	5.2 ± 38	MK
159 (80W,21S) 12-18"	0850	9/8/92	742.3	2.4 ± 49	MK
159 (80W,21S) 18-24"	0850	9/8/92	698.1	3.1 ± 41	MK

Received by: [signature]

MDA = DEPTH 0-6" + @ 1.6 pCi/g

Remarks >6" + @ 2.1

Reviewed [signature] 9/11/92

Reviewed QA/QC [signature]

COMPANY: ETI EMPLOYEE ID NAME: FROM: 08 30 92 THRU: 09 11 92

NONEXEMPT TIMECARD

	Project Name	Project	Phase	Task	SubTask	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Total	PM Approval:	Alternate Destination	Office Use
CONTRACTS	Austin Ave	C 00956	003																				
	Overtime Hours Approved in Advance for Pay:																						
		C																					
	Overtime Hours Approved in Advance for Pay:																						
		C																					
	Overtime Hours Approved in Advance for Pay:																						
		C																					
	Overtime Hours Approved in Advance for Pay:																						
BID & PROPOSAL		P																					
	Overtime Hours Approved in Advance for Pay:																						
		P																					
	Overtime Hours Approved in Advance for Pay:																						
		P																					
	Overtime Hours Approved in Advance for Pay:																						
		P																					
	Overtime Hours Approved in Advance for Pay:																						
INDIRECT	Paid Days Off	X X X X X X	X X X	X X	X X																		
	Overtime Hours Approved in Advance for Pay:																						
	Overtime Hours Approved in Advance for Pay:																						

SUBTOTAL OF ALL ADDITIONAL PAGES:																					
	REGULAR HOURS																				PAGE ___ OF ___
	APPROVED OVERTIME HOURS																				
	TOTAL REGULAR HOURS (ALL PAGES)																				Period Total
	TOTAL APPROVED OVERTIME HOURS (ALL PAGES)																				

EMPLOYEE SIGNATURE: _____ DATE: ___ _____ SUPERVISOR'S SIGNATURE: ___ _____