

M-144
079488 01

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy

**Department of Energy**

Oak Ridge Operations
P.O. Box 2001
Oak Ridge, Tennessee 37831-8723

July 16, 1991

Mr. Paul A. Giardina
Radiation Branch Manager
U.S. Environmental Protection Agency, Region II
Jacob K. Javits Federal Building
New York, New York 10278

Dear Mr. Giardina:

RESULTS OF RADON FLUX MONITORING AT THE MIDDLESEX SAMPLING PLANT (MSP), NIAGARA FALLS STORAGE SITE (NFSS), MAYWOOD INTERIM STORAGE SITE (MISS), AND NEW BRUNSWICK LABORATORY (NBLs)

Please find enclosed radon flux monitoring data collected at the following sites in Region II under the Formerly Utilized Sites Remedial Action Program (FUSRAP): MSP, NFSS, MISS, and NBLs. This report has been prepared for your information in the spirit of a draft Memorandum of Understanding between DOE and EPA to provide data with respect to 40 CFR Part 61, Subpart Q. Enclosed are the data for each interim storage pile at MSP, NFSS, and MISS, as well as data for the entire site at MISS. Also enclosed is the data gathered from a designated waste area at the NBLs site. A sample location map for each site is also provided.

Results of sampling indicate that the sites are in compliance with the radon flux standard of 20 pCi/m²/s. The storage pile at MSP designated on the location map as the MML cleanup pile had a range of radon flux rates from 0.03 - 0.04 pCi/m²/s and an average of 0.038 pCi/m²/s; the storage pile designated as the Phases I and II cleanup pile had a range of radon flux rates from 0.03 - 0.52 pCi/m²/s and an average of 0.157 pCi/m²/s. The waste containment facility at NFSS had a radon flux rate range of 0.04 - 0.72 pCi/m²/s and an average of 0.067 pCi/m²/s. The small interim waste piles labeled Pile 1 and Pile 2 on the location map had a range of radon flux rates of 0.09 - 0.09 pCi/m²/ and 0.07 - 0.09 pCi/m²/s respectively. Pile 1 had an average radon flux rate of 0.09 pCi/m²/s and Pile 2 had an average flux rate of 0.086 pCi/m²/s. The MISS storage pile had a radon flux rate that ranged from 0.02 - 1.76 pCi/m²/s and had an average of 0.117 pCi/m²/s. The entire Maywood site, excluding the storage pile, had a radon flux range from 0.02 - 36.7 pCi/m²/s and an average of 1.29 pCi/m²/s. The waste area at NBLs had a range of radon flux rates from 0.05 - 3.86 pCi/m²/s and an average of 0.475 pCi/m²/s.

079488

Mr. Paul A. Giardina

2

July 16, 1991

If you have any questions, please contact me at (615) 576-9634 or
(FTS) 626-9634.

Sincerely,

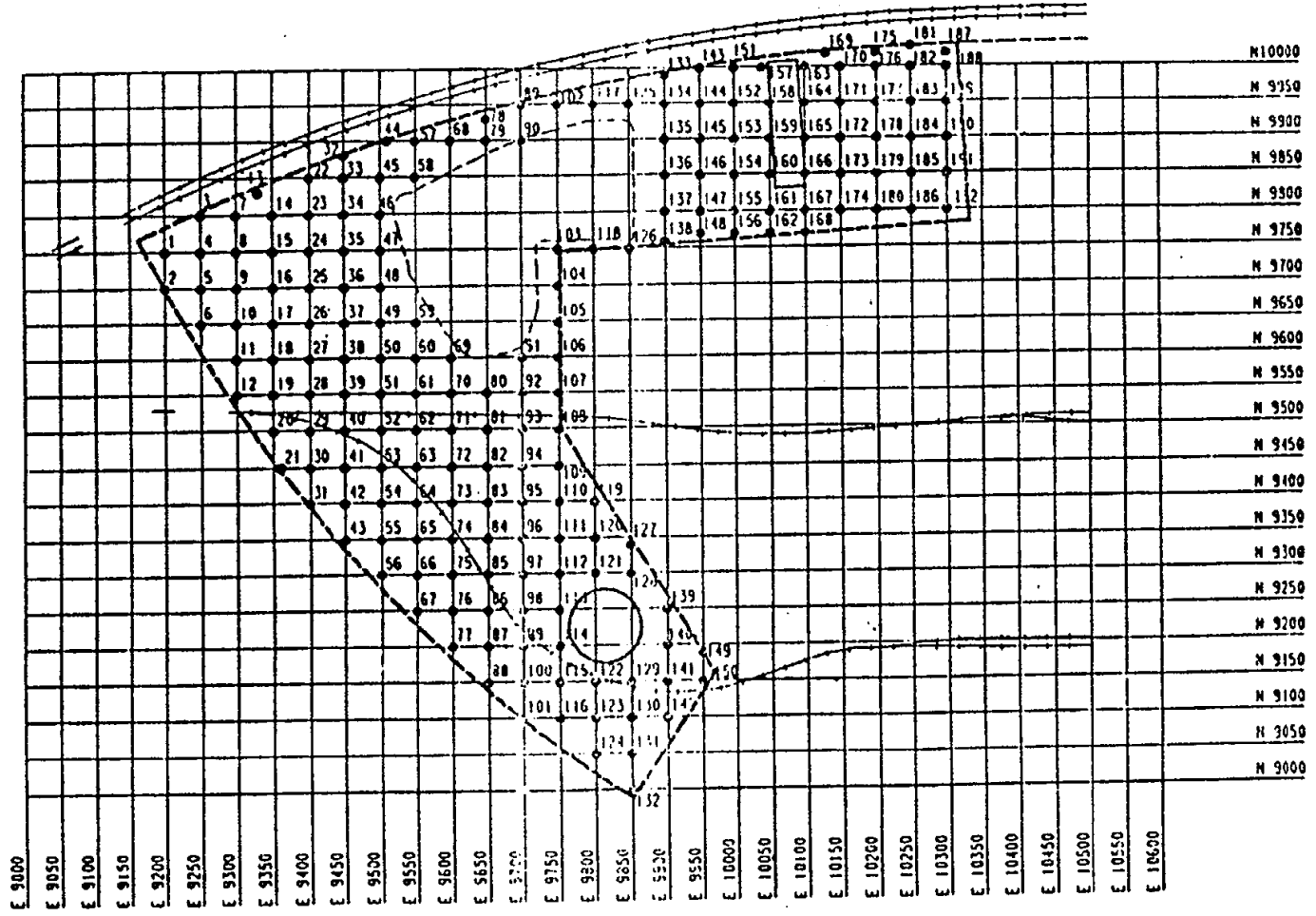
A handwritten signature in black ink, appearing to read "David G. Adler". The signature is written in a cursive style with a large initial "D".

David G. Adler, Site Manager
Former Sites Restoration Division

Enclosure

cc: Weldon Dillow, DOE/ENVPD, w/e
Andrew Wallo III, DOE/HQ, w/e

076786



138F061.DGN F1

RADON FLUX MONITORING STATIONS AT THE MAYWOOD INTERIM STORAGE SITE

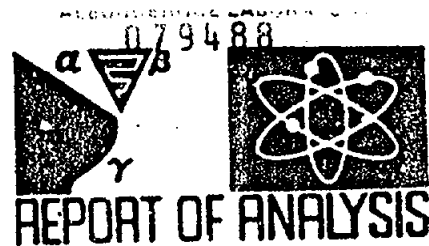
079488

Maywood RADON FLUX Locations

1	8200	9750	70	9000	9650	139	9000	9250
2	8200	9700	71	9000	9500	140	9000	9200
3	8250	9800	72	9000	9450	141	9000	9150
4	9250	9750	73	9000	9400	142	9000	9100
5	9250	9700	74	9000	9350	143	9050	10000
6	9250	9650	75	9000	9300	144	9050	9950
7	9300	9800	76	9000	9250	145	9050	9900
8	9300	9750	77	9000	9200	146	9050	9850
9	9300	9700	78	9050	9150	147	9050	9800
10	9300	9650	79	9050	9100	148	9050	9770
11	9300	9600	80	9050	9050	149	9050	9180
12	9300	9550	81	9050	9000	150	9050	9150
13	9330	9530	82	9050	8950	151	10000	10000
14	9350	9500	83	9050	8900	152	10000	9950
15	9350	9450	84	9050	8850	153	10000	9900
16	9350	9400	85	9050	8800	154	10000	9850
17	9350	9350	86	9050	8750	155	10000	9800
18	9350	9300	87	9050	8700	156	10000	9770
19	9350	9250	88	9050	8650	157	10050	10000
20	9350	9200	89	9700	9050	158	10050	9950
21	9380	9150	90	9700	9000	159	10050	9900
22	9400	9100	91	9700	8950	160	10050	9850
23	9400	9050	92	9700	8900	161	10050	9800
24	9400	9000	93	9700	8850	162	10050	9770
25	9400	8950	94	9700	8800	163	10100	10000
26	9400	8900	95	9700	8750	164	10100	9950
27	9400	8850	96	9700	8700	165	10100	9900
28	9400	8800	97	9700	8650	166	10100	9850
29	9400	8750	98	9700	8600	167	10100	9800
30	9400	8700	99	9700	8550	168	10100	9770
31	9400	8650	100	9700	8500	169	10150	10020
32	9450	8600	101	9700	8450	170	10150	10000
33	9450	8550	102	9750	8400	171	10150	9950
34	9450	8500	103	9750	8350	172	10150	9900
35	9450	8450	104	9750	8300	173	10150	9850
36	9450	8400	105	9750	8250	174	10150	9800
37	9450	8350	106	9750	8200	175	10200	10020
38	9450	8300	107	9750	8150	176	10200	10000
39	9450	8250	108	9750	8100	177	10200	9950
40	9450	8200	109	9750	8050	178	10200	9900
41	9450	8150	110	9750	8000	179	10200	9850
42	9450	8100	111	9750	7950	180	10200	9800
43	9450	8050	112	9750	7900	181	10250	10030
44	9510	8000	113	9750	7850	182	10250	10000
45	9500	7950	114	9750	7800	183	10250	9950
46	9500	7900	115	9750	7750	184	10250	9900
47	9500	7850	116	9750	7700	185	10250	9850
48	9500	7800	117	9800	7650	186	10250	9800
49	9500	7750	118	9800	7600	187	10300	10020
50	9500	7700	119	9800	7550	188	10300	10000
51	9500	7650	120	9800	7500	189	10300	9950
52	9500	7600	121	9800	7450	190	10300	9900
53	9500	7550	122	9800	7400	191	10300	9850
54	9500	7500	123	9800	7350	192	10300	9800
55	9500	7450	124	9800	7300			
56	9500	7400	125	9850	7250			
57	9550	7350	126	9850	7200			
58	9550	7300	127	9850	7150			
59	9550	7250	128	9850	7100			
60	9550	7200	129	9850	7050			
61	9550	7150	130	9850	7000			
62	9550	7100	131	9850	6950			
63	9550	7050	132	9850	6900			
64	9550	7000	133	9850	6850			
65	9550	6950	134	9850	6800			
66	9550	6900	135	9850	6750			
67	9550	6850	136	9850	6700			
68	9550	6800	137	9850	6650			
69	9550	6750	138	9850	6600			

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-001	6/3-6/4/91	Rn-222	6/5/91	0.07±0.02
138-RF-002	6/3-6/4/91	Rn-222	6/5/91	0.21±0.02
138-RF-003	6/3-6/4/91	Rn-222	6/5/91	0.31±0.02
138-RF-004	6/3-6/4/91	Rn-222	6/5/91	0.35±0.02
138-RF-005	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-006	6/3-6/4/91	Rn-222	6/5/91	0.14±0.02
138-RF-007	6/3-6/4/91	Rn-222	6/5/91	0.09±0.02
138-RF-008	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-009	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-010	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01
138-RF-011	6/3-6/4/91	Rn-222	6/5/91	0.03±0.01
138-RF-012	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01
138-RF-013	6/3-6/4/91	Rn-222	6/5/91	0.08±0.02
138-RF-014	6/3-6/4/91	Rn-222	6/5/91	0.15±0.02
138-RF-015	6/3-6/4/91	Rn-222	6/5/91	0.05±0.01
138-RF-016	6/3-6/4/91	Rn-222	6/5/91	0.02±0.01
138-RF-017	6/3-6/4/91	Rn-222	6/5/91	0.07±0.02
138-RF-018	6/3-6/4/91	Rn-222	6/5/91	0.19±0.02
138-RF-019	6/3-6/4/91	Rn-222	6/5/91	0.21±0.02
138-RF-020	6/3-6/4/91	Rn-222	6/5/91	0.08±0.02

REPORTED VIA TELEPHONE

PAGE 1 OF PAGE 12

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34

079488



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-021	6/3-6/4/91	Rn-222	6/5/91	0.14±0.02
138-RF-022	6/3-6/4/91	Rn-222	6/5/91	0.49±0.02
138-RF-023	6/3-6/4/91	Rn-222	6/5/91	0.08±0.01
138-RF-024	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-025	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-026	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-027	6/3-6/4/91	Rn-222	6/5/91	0.11±0.01
138-RF-028	6/3-6/4/91	Rn-222	6/5/91	0.16±0.02
138-RF-029	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01
138-RF-030	6/3-6/4/91	Rn-222	6/5/91	0.08±0.01
138-RF-031	6/3-6/4/91	Rn-222	6/5/91	0.19±0.02
138-RF-032	6/3-6/4/91	Rn-222	6/5/91	0.51±0.02
138-RF-033	6/3-6/4/91	Rn-222	6/5/91	0.75±0.02
138-RF-034	6/3-6/4/91	Rn-222	6/5/91	0.02±0.01
138-RF-035	6/3-6/4/91	Rn-222	6/5/91	<0.02
138-RF-036	6/3-6/4/91	Rn-222	6/5/91	0.03±0.01
138-RF-037	6/3-6/4/91	Rn-222	6/5/91	0.32±0.02
138-RF-038	6/3-6/4/91	Rn-222	6/5/91	0.13±0.01
138-RF-039	6/3-6/4/91	Rn-222	6/5/91	0.10±0.01
138-RF-040	6/3-6/4/91	Rn-222	6/5/91	0.20±0.02

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PAGE 2 OF 12 PAGE

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Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-041	6/3-6/4/91	Rn-222	6/5/91	0.11±0.01
138-RF-042	6/3-6/4/91	Rn-222	6/5/91	0.51±0.02
138-RF-043	6/3-6/4/91	Rn-222	6/5/91	0.24±0.02
138-RF-044	6/3-6/4/91	Rn-222	6/5/91	0.09±0.01
138-RF-045	6/3-6/4/91	Rn-222	6/5/91	0.20±0.02
138-RF-046	6/3-6/4/91	Rn-222	6/5/91	0.15±0.02
138-RF-047	6/3-6/4/91	Rn-222	6/5/91	0.20±0.02
138-RF-048	6/3-6/4/91	Rn-222	6/5/91	0.03±0.01
138-RF-049	6/3-6/4/91	Rn-222	6/5/91	0.02±0.01
138-RF-050	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01
138-RF-051	6/5-6/6/91	Rn-222	6/7/91	2.42±0.03
138-RF-052	6/5-6/6/91	Rn-222	6/7/91	0.19±0.02
138-RF-053	6/5-6/6/91	Rn-222	6/7/91	0.20±0.02
138-RF-054	6/5-6/6/91	Rn-222	6/7/91	0.13±0.02
138-RF-055	6/5-6/6/91	Rn-222	6/7/91	1.70±0.03
138-RF-056	6/5-6/6/91	Rn-222	6/7/91	0.26±0.02
138-RF-057	6/6-6/7/91	Rn-222	6/10/91	0.14±0.02
138-RF-058	6/6-6/7/91	Rn-222	6/10/91	0.52±0.03
138-RF-059	6/5-6/6/91	Rn-222	6/7/91	0.03±0.01
138-RF-060	6/5-6/6/91	Rn-222	6/7/91	0.86±0.02

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PAGE 3 OF 12PAGE

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Thermo Analytical Inc.

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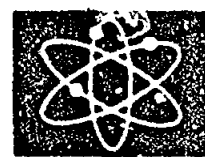
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CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISE
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34

U79408a



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-061	6/5-6/6/91	Rn-222	6/7/91	0.22±0.02
138-RF-062	6/5-6/6/91	Rn-222	6/7/91	2.53±0.03
138-RF-063	6/5-6/6/91	Rn-222	6/7/91	0.02±0.02
138-RF-064	6/5-6/6/91	Rn-222	6/7/91	0.05±0.02
138-RF-065	6/5-6/6/91	Rn-222	6/7/91	0.22±0.02
138-RF-066	6/5-6/6/91	Rn-222	6/7/91	1.26±0.02
138-RF-067	6/5-6/6/91	Rn-222	6/7/91	0.16±0.02
138-RF-068	6/6-6/7/91	Rn-222	6/10/91	<0.04
138-RF-069	6/5-6/6/91	Rn-222	6/7/91	0.29±0.02
138-RF-070	6/5-6/6/91	Rn-222	6/7/91	0.22±0.02
138-RF-071	6/5-6/6/91	Rn-222	6/7/91	0.06±0.02
138-RF-072	6/5-6/6/91	Rn-222	6/7/91	<0.02
138-RF-073	6/5-6/6/91	Rn-222	6/7/91	0.03±0.01
138-RF-074	6/5-6/6/91	Rn-222	6/7/91	0.16±0.02
138-RF-075	6/5-6/6/91	Rn-222	6/7/91	0.62±0.02
138-RF-076	6/5-6/6/91	Rn-222	6/7/91	<0.03
138-RF-077	6/5-6/6/91	Rn-222	6/7/91	0.12±0.02
138-RF-078	6/6-6/7/91	Rn-222	6/10/91	<0.04
138-RF-079	6/6-6/7/91	Rn-222	6/10/91	0.17±0.02
138-RF-080	6/5-6/6/91	Rn-222	6/7/91	0.20±0.02

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PAGE 4 OF 12 PAGE

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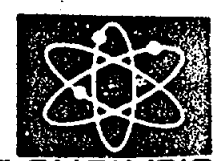
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7. CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34

079488



REPORT OF ANALYSIS

TYPE OF ANALYSIS **Radon Flux** CUSTOMER ORDER NUMBER SAMPLES RECEIVED **6/25/91**

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-081	6/5-6/6/91	Rn-222	6/7/91	0.49±0.02
138-RF-082	6/5-6/6/91	Rn-222	6/7/91	0.03±0.02
138-RF-083	6/5-6/6/91	Rn-222	6/7/91	<0.02
138-RF-084	6/5-6/6/91	Rn-222	6/7/91	0.03±0.02
138-RF-085	6/5-6/6/91	Rn-222	6/7/91	0.37±0.02
138-RF-086	6/5-6/6/91	Rn-222	6/7/91	0.04±0.01
138-RF-087	6/5-6/6/91	Rn-222	6/7/91	<0.02
138-RF-088	6/5-6/6/91	Rn-222	6/7/91	0.07±0.02
138-RF-089	6/6-6/7/91	Rn-222	6/10/91	0.07±0.02
138-RF-090	6/6-6/7/91	Rn-222	6/10/91	1.73±0.04
138-RF-091	6/5-6/6/91	Rn-222	6/7/91	0.08±0.02
138-RF-092	6/5-6/6/91	Rn-222	6/7/91	0.07±0.02
138-RF-093	6/5-6/6/91	Rn-222	6/7/91	0.06±0.02
138-RF-094	6/5-6/6/91	Rn-222	6/7/91	0.15±0.02
138-RF-095	6/5-6/6/91	Rn-222	6/7/91	0.23±0.02
138-RF-096	6/5-6/6/91	Rn-222	6/7/91	0.10±0.02
138-RF-097	6/5-6/6/91	Rn-222	6/7/91	0.15±0.02
138-RF-098	6/5-6/6/91	Rn-222	6/7/91	0.06±0.02
138-RF-099	6/5-6/6/91	Rn-222	6/7/91	0.05±0.02
138-RF-100	6/5-6/6/91	Rn-222	6/7/91	0.32±0.02

REPORTED VIA TELEPHONE

TMA Eberline
Thermo Analytical Inc.
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34

0794



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-101	6/11-6/12/91	Rn-222	6/13/91	0.37±0.02
138-RF-102	6/11-6/12/91	Rn-222	6/13/91	0.19±0.02
138-RF-103	6/11-6/12/91	Rn-222	6/13/91	0.13±0.02
138-RF-104	6/11-6/12/91	Rn-222	6/13/91	<0.03
138-RF-105	6/11-6/12/91	Rn-222	6/13/91	0.05±0.02
138-RF-106	6/11-6/12/91	Rn-222	6/13/91	0.14±0.02
138-RF-107	6/11-6/12/91	Rn-222	6/13/91	<0.03
138-RF-108	6/11-6/12/91	Rn-222	6/13/91	0.20±0.02
138-RF-109	6/11-6/12/91	Rn-222	6/13/91	0.19±0.02
138-RF-110	6/11-6/12/91	Rn-222	6/13/91	0.44±0.02
138-RF-111	6/11-6/12/91	Rn-222	6/13/91	0.27±0.02
138-RF-112	6/11-6/12/91	Rn-222	6/13/91	<0.03
138-RF-113	6/11-6/12/91	Rn-222	6/13/91	0.14±0.02
138-RF-114	6/11-6/12/91	Rn-222	6/13/91	0.04±0.02
138-RF-115	6/11-6/12/91	Rn-222	6/13/91	1.65±0.03
138-RF-116	6/11-6/12/91	Rn-222	6/13/91	0.45±0.02
138-RF-117	6/11-6/12/91	Rn-222	6/13/91	0.12±0.02
138-RF-118	6/11-6/12/91	Rn-222	6/13/91	0.02±0.02
138-RF-119	6/11-6/12/91	Rn-222	6/13/91	0.08±0.01
138-RF-120	6/11-6/12/91	Rn-222	6/13/91	0.11±0.01

 REPORTED VIA TELEPHONE

PAGE 6 OF 12 PAGE

TMA Eberline
Thermo Analytical Inc.

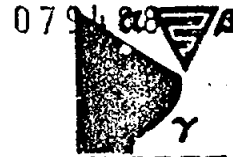
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-121	6/11-6/12/91	Rn-222	6/13/91	<0.03
138-RF-122	6/11-6/12/91	Rn-222	6/13/91	0.25±0.02
138-RF-123	6/11-6/12/91	Rn-222	6/13/91	7.85±0.05
138-RF-124	6/11-6/12/91	Rn-222	6/13/91	2.24±0.03
138-RF-125	6/11-6/12/91	Rn-222	6/13/91	0.29±0.02
138-RF-126	6/11-6/12/91	Rn-222	6/13/91	0.05±0.02
138-RF-127	6/11-6/12/91	Rn-222	6/13/91	0.06±0.01
138-RF-128	6/11-6/12/91	Rn-222	6/13/91	0.07±0.02
138-RF-129	6/11-6/12/91	Rn-222	6/13/91	0.15±0.02
138-RF-130	Sample Was Lost			
138-RF-131	6/11-6/12/91	Rn-222	6/13/91	0.13±0.02
138-RF-132	6/11-6/12/91	Rn-222	6/13/91	0.14±0.02
138-RF-133	5/30-5/31/91	Rn-222	6/3/91	0.12±0.02
138-RF-134	5/30-5/31/91	Rn-222	6/3/91	0.03±0.02
138-RF-135	6/11-6/12/91	Rn-222	6/13/91	0.05±0.02
138-RF-136	6/11-6/12/91	Rn-222	6/13/91	0.46±0.02
138-RF-137	6/11-6/12/91	Rn-222	6/13/91	0.08±0.02
138-RF-138	6/11-6/12/91	Rn-222	6/13/91	0.09±0.02
138-RF-139	6/11-6/12/91	Rn-222	6/13/91	0.16±0.02
138-RF-140	6/11-6/12/91	Rn-222	6/13/91	0.05±0.02

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PAGE 7 OF 12 PAGE

TMA Eberline
Thermo Analytical Inc.

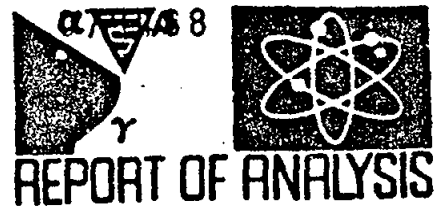
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-141	6/11-6/12/91	Rn-222	6/13/91	0.09±0.02
138-RF-142	6/11-6/12/91	Rn-222	6/13/91	0.03±0.01
138-RF-143	5/30-5/31/91	Rn-222	6/3/91	0.07±0.02
138-RF-144	5/30-5/31/91	Rn-222	6/3/91	<0.03
138-RF-145	5/30-5/31/91	Rn-222	6/3/91	<0.03
138-RF-146	5/30-5/31/91	Rn-222	6/3/91	0.04±0.02
138-RF-147	5/30-5/31/91	Rn-222	6/3/91	<0.3
138-RF-148	5/30-5/31/91	Rn-222	6/3/91	0.03±0.02
138-RF-149	6/11-6/12/91	Rn-222	6/13/91	0.27±0.02
138-RF-150	6/11-6/12/91	Rn-222	6/13/91	0.21±0.02
138-RF-151	5/30-5/31/91	Rn-222	6/3/91	0.13±0.02
138-RF-152	5/30-5/31/91	Rn-222	6/3/91	0.15±0.02
138-RF-153	5/30-5/31/91	Rn-222	6/3/91	0.08±0.02
138-RF-154	5/30-5/31/91	Rn-222	6/3/91	0.03±0.02
138-RF-155	5/30-5/31/91	Rn-222	6/3/91	0.03±0.02
138-RF-156	5/30-5/31/91	Rn-222	6/3/91	0.32±0.02
138-RF-157	5/30-5/31/91	Rn-222	6/3/91	4.16±0.05
138-RF-158	5/30-5/31/91	Rn-222	6/3/91	0.16±0.02
138-RF-159	5/30-5/31/91	Rn-222	6/3/91	0.80±0.03
138-RF-160	5/30-5/31/91	Rn-222	6/3/91	1.04±0.03

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PAGE 8 OF 12 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-161	5/30-5/31/91	Rn-222	6/3/91	2.14±0.04
138-RF-162	5/30-5/31/91	Rn-222	6/3/91	0.23±0.02
138-RF-163	5/30-5/31/91	Rn-222	6/3/91	14.30±0.08
138-RF-164	5/30-5/31/91	Rn-222	6/3/91	0.33±0.02
138-RF-165	5/30-5/31/91	Rn-222	6/3/91	10.45±0.07
138-RF-166	5/30-5/31/91	Rn-222	6/3/91	0.87±0.03
138-RF-167	5/30-5/31/91	Rn-222	6/3/91	0.11±0.02
138-RF-168	5/30-5/31/91	Rn-222	6/3/91	0.15±0.02
138-RF-169	5/30-5/31/91	Rn-222	6/3/91	0.47±0.03
138-RF-170	5/30-5/31/91	Rn-222	6/3/91	1.16±0.03
138-RF-171	5/30-5/31/91	Rn-222	6/3/91	4.81±0.05
138-RF-172	5/30-5/31/91	Rn-222	6/3/91	22.00±0.10
138-RF-173	5/30-5/31/91	Rn-222	6/3/91	25.65±0.11
138-RF-174	5/30-5/31/91	Rn-222	6/3/91	27.04±0.11
138-RF-175	5/30-5/31/91	Rn-222	6/3/91	0.13±0.02
138-RF-176	5/30-5/31/91	Rn-222	6/3/91	0.06±0.02
138-RF-177	5/30-5/31/91	Rn-222	6/3/91	0.23±0.02
138-RF-178	5/30-5/31/91	Rn-222	6/3/91	0.68±0.03
138-RF-179	5/30-5/31/91	Rn-222	6/3/91	21.90±0.10
138-RF-180	5/30-5/31/91	Rn-222	6/3/91	36.71±0.13

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PAGE 9 OF 12 PAGE

TMA Eberline
Thermo Analytical Inc.

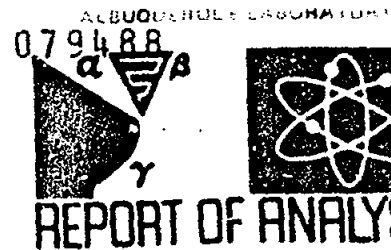
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-181	5/30-5/31/91	Rn-222	6/3/91	0.71±0.03	
138-RF-182	5/30-5/31/91	Rn-222	6/3/91	0.07±0.02	
138-RF-183	5/30-5/31/91	Rn-222	6/3/91	1.13±0.03	
138-RF-184	5/30-5/31/91	Rn-222	6/3/91	0.19±0.02	
138-RF-185	5/30-5/31/91	Rn-222	6/3/91	2.53±0.04	
138-RF-186	5/30-5/31/91	Rn-222	6/3/91	17.16±0.09	
138-RF-187	5/30-5/31/91	Rn-222	6/3/91	1.49±0.03	
138-RF-188	5/30-5/31/91	Rn-222	6/3/91	0.57±0.03	
138-RF-189	5/30-5/31/91	Rn-222	6/3/91	0.29±0.02	
138-RF-190	5/30-5/31/91	Rn-222	6/3/91	0.36±0.02	
138-RF-191	5/30-5/31/91	Rn-222	6/3/91	1.31±0.03	
138-RF-192	5/30-5/31/91	Rn-222	6/3/91	2.51±0.04	
138-RF-010	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01	LQC
138-RF-027	6/3-6/4/91	Rn-222	6/5/91	0.09±0.01	FQC
138-RF-029	6/3-6/4/91	Rn-222	6/5/91	0.09±0.01	FQC
138-RF-030	6/3-6/4/91	Rn-222	6/5/91	0.04±0.01	FQC
138-RF-030	6/3-6/4/91	Rn-222	6/5/91	0.08±0.01	LQC
138-RF-031	6/3-6/4/91	Rn-222	6/5/91	0.03±0.01	FQC
138-RF-032	6/3-6/4/91	Rn-222	6/5/91	0.44±0.02	FQC
138-RF-032	6/3-6/4/91	Rn-222	6/5/91	0.42±0.02	LQC

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PAGE 10 OF 12 PAGE

TMA Eberline
Thermo Analytical Inc.

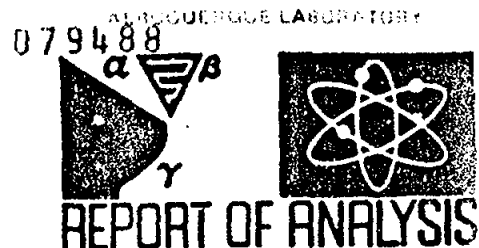
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3481

APPROVED BY

DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W O. NO.

Bechtel National, Inc. - MISS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-34



TYPE OF ANALYSIS **Radon Flux** CUSTOMER ORDER NUMBER SAMPLES RECEIVED **6/25/91**

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-036	6/3-6/4/91	Rn-222	6/5/91	<0.02	LQC
138-RF-050	6/3-6/4/91	Rn-222	6/5/91	0.37±0.02	FQC
138-RF-053	6/5-6/6/91	Rn-222	6/7/91	0.15±0.02	FQC
138-RF-058	6/6-6/7/91	Rn-222	6/10/91	0.53±0.03	LQC
138-RF-061	6/5-6/6/91	Rn-222	6/7/91	0.23±0.02	LQC
138-RF-064	6/5-6/6/91	Rn-222	6/7/91	0.07±0.02	FQC
138-RF-066	6/5-6/6/91	Rn-222	6/7/91	1.33±0.03	FQC
138-RF-077	6/5-6/6/91	Rn-222	6/7/91	0.44±0.02	FQC
138-RF-077	6/5-6/6/91	Rn-222	6/7/91	0.45±0.02	LQC
138-RF-087	6/5-6/6/91	Rn-222	6/7/91	<0.02	FQC
138-RF-087	6/5-6/6/91	Rn-222	6/7/91	<0.03	LQC
138-RF-091	6/5-6/6/91	Rn-222	6/7/91	0.08±0.02	FQC
138-RF-098	6/5-6/6/91	Rn-222	6/7/91	0.06±0.02	LQC
138-RF-098	6/5-6/6/91	Rn-222	6/7/91	0.07±0.02	FQC
138-RF-100	6/5-6/6/91	Rn-222	6/7/91	0.32±0.02	LQC
138-RF-103	6/11-6/12/91	Rn-222	6/13/91	0.14±0.02	LQC
138-RF-106	6/11-6/12/91	Rn-222	6/13/91	0.13±0.02	LQC
138-RF-116	6/11-6/12/91	Rn-222	6/13/91	1.07±0.02	FQC
138-RF-121	6/11-6/12/91	Rn-222	6/13/91	<0.03	FQC
138-RF-126	6/11-6/12/91	Rn-222	6/13/91	0.04±0.02	LQC

REPORTED VIA TELEPHONE

PAGE 11 OF 12 PAGE

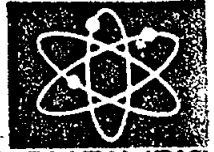
TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

DA

CUSTOMER Bechtel National, Inc. - MISS
 ATTENTION Michael McDougall
 ADDRESS P.O. Box 350
 CITY Oak Ridge, TN. 37831-0350
 W.O. NO. 74-34



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/25/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-133	5/30-5/31/91	Rn-222	6/3/91	0.15±0.02	FQC
138-RF-135	6/11-6/12/91	Rn-222	6/13/91	0.06±0.02	LQC
138-RF-136	6/11-6/12/91	Rn-222	6/13/91	0.10±0.02	FQC
138-RF-143	5/30-5/31/91	Rn-222	6/3/91	0.10±0.02	FQC
138-RF-143	5/30-5/31/91	Rn-222	6/3/91	0.11±0.02	LQC
138-RF-146	5/30-5/31/91	Rn-222	6/3/91	<0.03	FQC
138-RF-160	5/30-5/31/91	Rn-222	6/3/91	1.40±0.03	FQC
138-RF-160	5/30-5/31/91	Rn-222	6/3/91	1.36±0.03	LQC

FQC = Duplicate "Field Quality Control" Sample at same location.
 LQC = Duplicate "Laboratory Quality Control" Analyses.

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PAGE 12 OF 12 PAGE

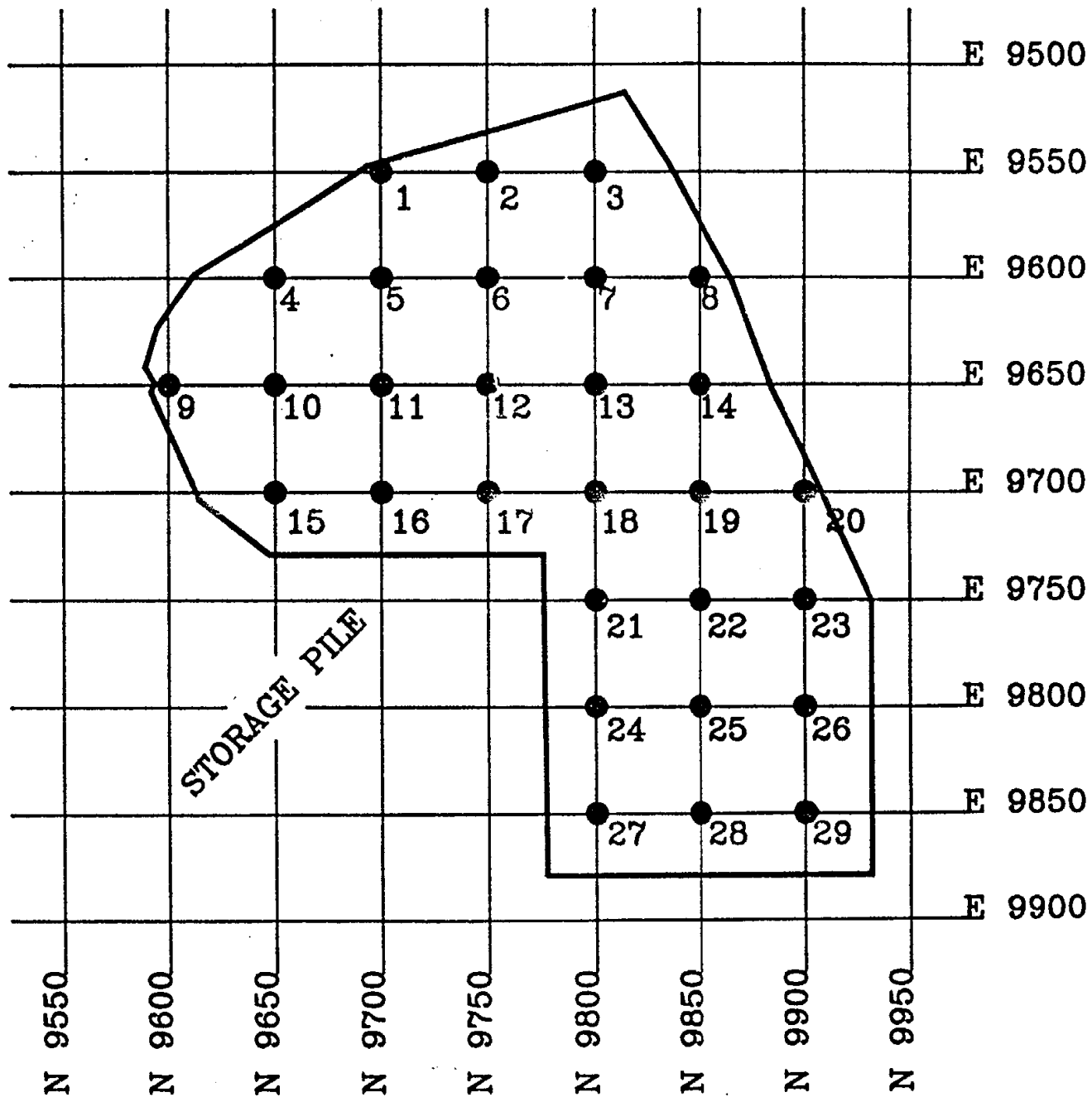
TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
 ALBUQUERQUE, NEW MEXICO 87109
 PHONE (505) 345-3461

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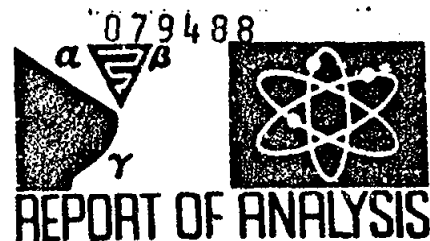
079488



MAYWOOD INTERIM STORAGE PILE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS Storage Pile
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350



TYPE OF ANALYSIS **Radon Flux** CUSTOMER ORDER NUMBER SAMPLES RECEIVED **6/7/91**

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
138-RF-01	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-02	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-03	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-04	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-05	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-06	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-07	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-08	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-09	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-010	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-011	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-012	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-013	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-014	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-015	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-016	5/28-5/29/91	Rn-222	5/30/91	1.76±0.03
138-RF-017	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-018	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-019	5/28-5/29/91	Rn-222	5/30/91	<0.03
138-RF-020	5/28-5/29/91	Rn-222	5/30/91	1.04±0.02

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PAGE 1 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

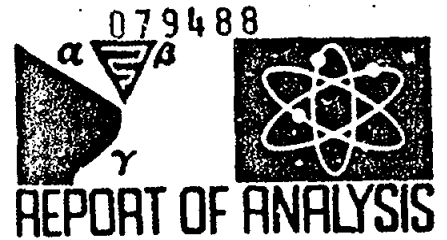
OK
ms
6/12/91

APPROVED BY *M. R. McDougall*

DATE
6/12/91

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MISS Storage Pile
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/7/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
138-RF-021	5/28-5/29/91	Rn-222	5/30/91	0.02±0.02	
138-RF-022	5/28-5/29/91	Rn-222	5/30/91	<0.03	
138-RF-023	5/28-5/29/91	Rn-222	5/30/91	<0.03	
138-RF-024	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-025	5/28-5/29/91	Rn-222	5/30/91	0.02±0.01	
138-RF-026	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-027	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-028	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-029	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-030	5/28-5/29/91	Rn-222	5/30/91	<0.02	
138-RF-03	5/28-5/29/91	Rn-222	5/30/91	<0.03	FQC
138-RF-03	5/28-5/29/91	Rn-222	5/30/91	<0.03	LQC
138-RF-010	5/28-5/29/91	Rn-222	5/30/91	<0.03	FQC
138-RF-016	5/28-5/29/91	Rn-222	5/30/91	1.76±0.03	LQC
138-RF-021	5/28-5/29/91	Rn-222	5/30/91	0.02±0.01	LQC
138-RF-021	5/28-5/29/91	Rn-222	5/30/91	<0.03	FQC

FQC = Duplicate "Field Quality Control" Measurement At The Same Location.
LQC = Duplicate "Laboratory Quality Control" Analyses.

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PAGE 2 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

ok
mcb
6/12/91

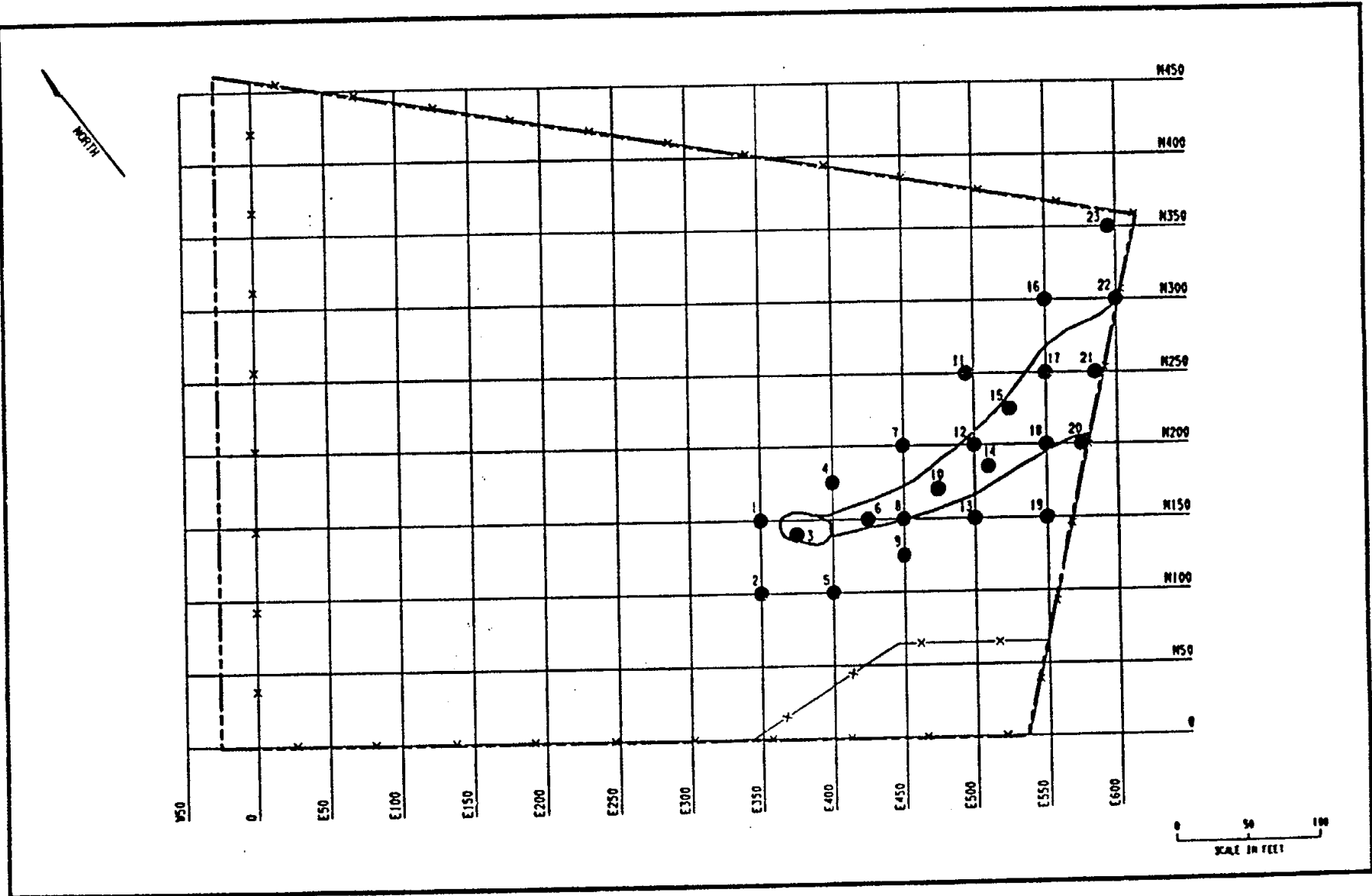
APPROVED BY

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DATE

6/21

079488



144F 006.DGN F 1

RADON FLUX MONITORING STATIONS
AT THE NEW BRUNSWICK SITE

079488

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NBL
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-35



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/11/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
44-RF-001	5/29-5/30/91	Rn-222	5/31/91	0.34±0.02
44-RF-002	5/29-5/30/91	Rn-222	5/31/91	0.07±0.02
44-RF-003	5/29-5/30/91	Rn-222	5/31/91	0.14±0.02
44-RF-004	5/29-5/30/91	Rn-222	5/31/91	0.19±0.02
44-RF-005	5/29-5/30/91	Rn-222	5/31/91	0.31±0.02
44-RF-006	5/29-5/30/91	Rn-222	5/31/91	0.22±0.02
44-RF-007	5/29-5/30/91	Rn-222	5/31/91	0.72±0.02
44-RF-008	5/29-5/30/91	Rn-222	5/31/91	0.10±0.02
44-RF-009	5/29-5/30/91	Rn-222	5/31/91	0.34±0.02
44-RF-010	5/29-5/30/91	Rn-222	5/31/91	0.62±0.02
44-RF-011	5/29-5/30/91	Rn-222	5/31/91	0.10±0.02
44-RF-012	5/29-5/30/91	Rn-222	5/31/91	3.86±0.04
44-RF-013	5/29-5/30/91	Rn-222	5/31/91	0.14±0.02
44-RF-014	5/29-5/30/91	Rn-222	5/31/91	0.29±0.02
44-RF-015	5/29-5/30/91	Rn-222	5/31/91	2.01±0.03
44-RF-016	5/29-5/30/91	Rn-222	5/31/91	0.51±0.02
44-RF-017	5/29-5/30/91	Rn-222	5/31/91	0.22±0.02
44-RF-018	5/29-5/30/91	Rn-222	5/31/91	0.08±0.02
44-RF-019	5/29-5/30/91	Rn-222	5/31/91	0.10±0.02
44-RF-020	5/29-5/30/91	Rn-222	5/31/91	0.15±0.02

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PAGE 1 OF 2 PAGE

TMA Eberline

Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

OK
WJ
6/11/91

M. McDougall

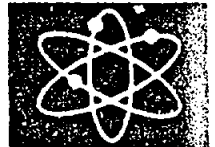
DATE

6/11/91

079488

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NBL
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-35



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/11/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
144-RF-021	5/29-5/30/91	Rn-222	5/31/91	0.11±0.02	
144-RF-022	5/29-5/30/91	Rn-222	5/31/91	0.12±0.02	
144-RF-023	5/29-5/30/91	Rn-222	5/31/91	0.10±0.02	
144-RF-003	5/29-5/30/91	Rn-222	5/31/91	0.16±0.02	FQC
144-RF-008	5/29-5/30/91	Rn-222	5/31/91	0.15±0.02	FQC
144-RF-012	5/29-5/30/91	Rn-222	5/31/91	3.79±0.04	LQC
144-RF-015	5/29-5/30/91	Rn-222	5/31/91	2.00±0.03	LQC
144-RF-016	5/29-5/30/91	Rn-222	5/31/91	0.50±0.02	LQC
144-RF-023	5/29-5/30/91	Rn-222	5/31/91	0.05±0.02	FQC

FQC = Duplicate "Field Quality Control" Sample at Same Location.

LQC = Duplicate "Laboratory Quality Control" Analyses.

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PAGE 2 OF 2 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

ok
ms
6/11/91

APPROVED BY

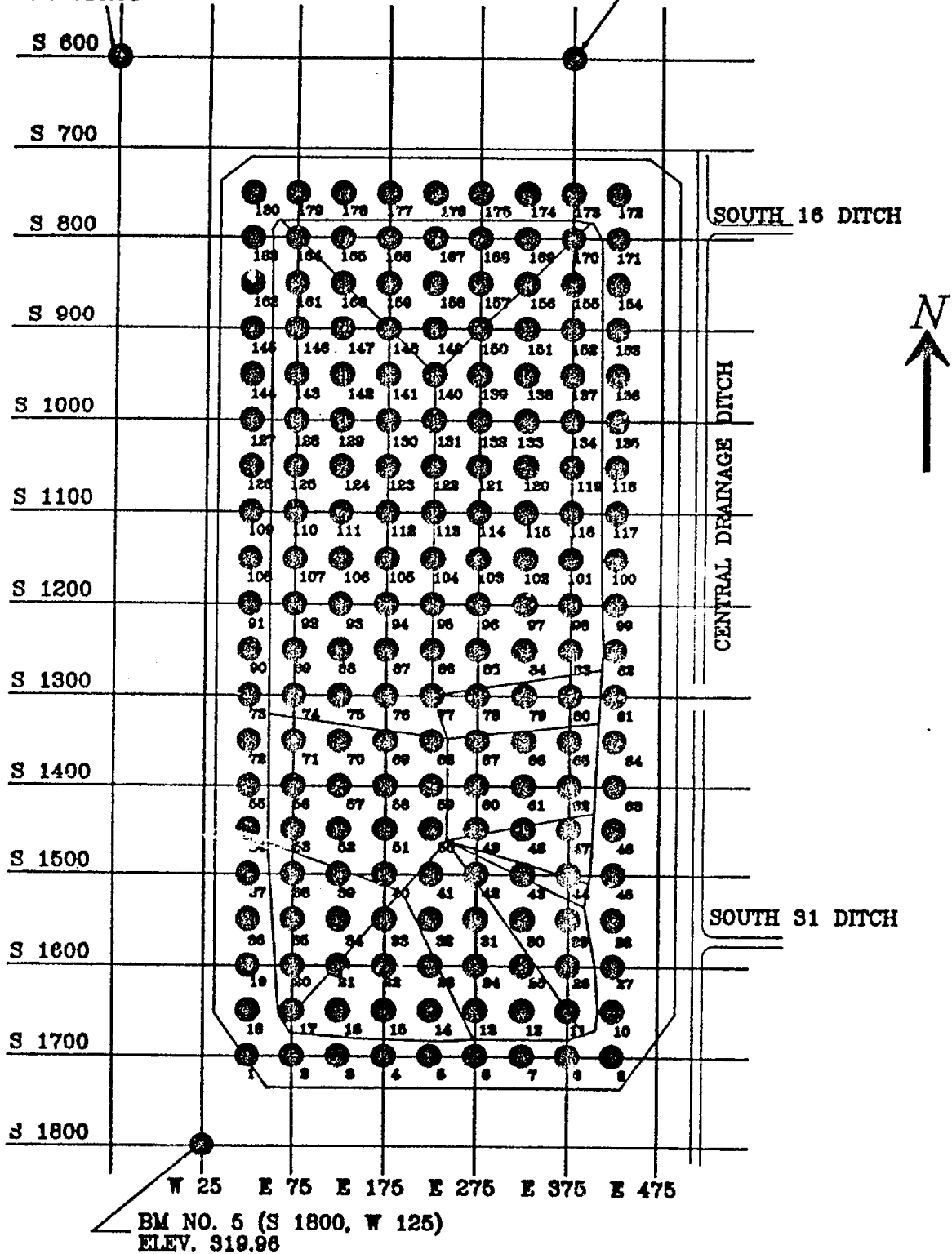
M. I. McDougall

DATE

6/11/91

BM NO. 6 (S 600, W 125)
ELEV. 318.33

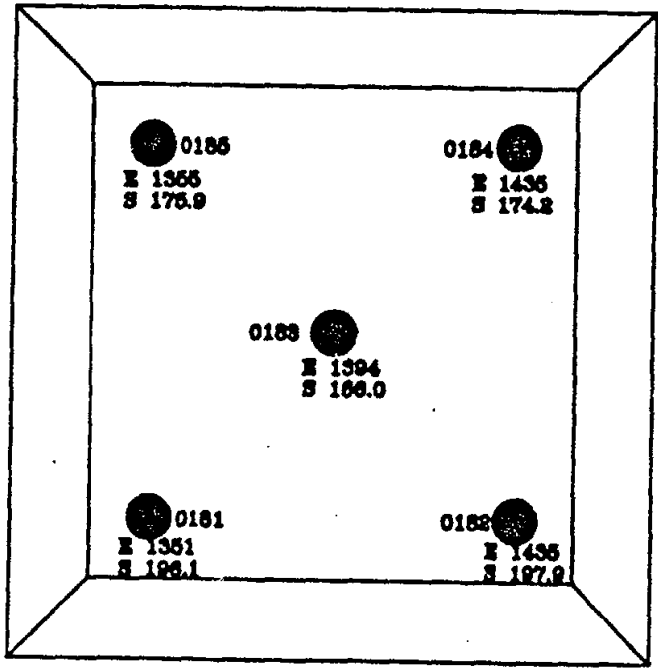
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ELEV. 316.80



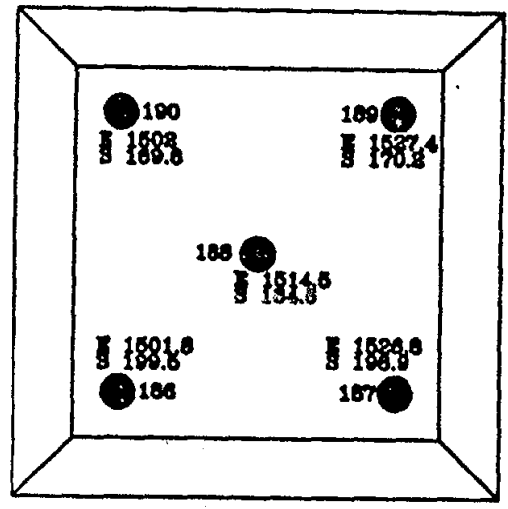
SURVEY GRID FOR THE NFSS WASTE
CONTAINMENT STRUCTURE



PILE 1



PILE 2



079488

INTERIM PILES AT NFSS

079488

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-001	4/09-4/10/91	Rn-222	4/15/91	0.06±0.03
202-RF-002	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-003	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-004	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-005	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-006	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-007	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-008	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-009	Sample Lost			
202-RF-010	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-011	Sample Lost			
202-RF-012	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-013	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-014	4/09-4/10/91	Rn-222	4/15/91	<0.04
202-RF-015	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-016	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-017	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-018	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-019	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-020	4/09-4/10/91	Rn-222	4/15/91	<0.05

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PAGE 1 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

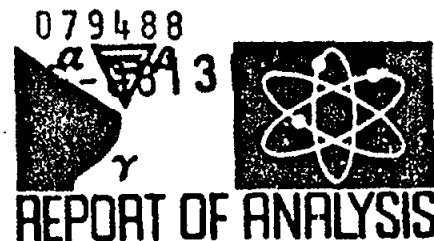
OL 1124 4/24/91

APPROVED BY *Renee Echols*

DATE *4/24/91*

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-020A	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-021	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-022	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-023	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-024	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-025	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-026	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-027	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-028	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-029	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-030	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-031	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-032	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-033	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-034	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-035	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-036	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-037	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-038	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-039	4/09-4/10/91	Rn-222	4/15/91	<0.05

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PAGE 2 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Renée Echols

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
V.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-040	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-040A	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-041	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-042	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-043	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-044	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-045	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-046	4/09-4/10/91	Rn-222	4/15/91	<0.06
202-RF-047	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-048	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-049	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-050	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-051	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-052	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-053	4/09-4/10/91	Rn-222	4/15/91	<0.05
202-RF-054	4/09-4/10/91	Rn-222	4/16/91	0.05±0.04
202-RF-055	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-056	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-057	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-058	4/09-4/10/91	Rn-222	4/16/91	<0.06

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PAGE 3 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

RENEE ECHOLS

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pci/M ² /sec
2-2-RF-059	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-060	4/09-4/10/91	Rn-222	4/16/91	<0.06
2-2-RF-060A	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-061	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-062	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-063	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-064	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-065	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-066	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-067	4/09-4/10/91	Rn-222	4/16/91	<0.05
202-RF-068	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-069	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-070	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-071	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-072	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-073	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-074	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-075	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-076	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-078	4/09-4/10/91	Rn-222	4/16/91	<0.06

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PAGE 4 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3451

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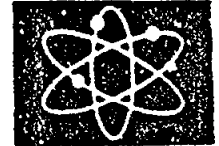
OK 4/24/91
Rene Echola

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-079	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-080	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-080A	4/09-4/10/91	Rn-222	4/16/91	<0.05
202-RF-081	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-082	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-083	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-084	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-085	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-086	4/09-4/10/91	Rn-222	4/16/91	0.07±0.04
202-RF-087	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-088	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-089	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-090	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-091	4/09-4/10/91	Rn-222	4/16/91	0.72±0.05
202-RF-092	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-093	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-094	4/09-4/10/91	Rn-222	4/16/91	<0.05
202-RF-095	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-096	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-097	4/09-4/10/91	Rn-222	4/16/91	<0.06

REPORTED VIA TELEPHONE

PAGE 5 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUEHQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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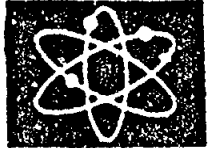
OLIVER H. HART
Renee Echols

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-098	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-099	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-100	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-100A	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-101	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-102	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-103	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-104	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-105	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-106	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-107	4/09-4/10/91	Rn-222	4/16/91	<0.05
202-RF-108	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-109	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-110	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-111	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-112	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-113	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-114	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-115	4/09-4/10/91	Rn-222	4/16/91	<0.06
202-RF-116	4/09-4/10/91	Rn-222	4/17/91	<0.07

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PAGE 6 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3451

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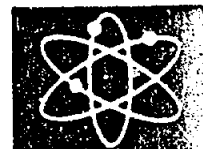
C. L. ...
Rene Echols

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488
α
β
γ



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-117	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-118	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-119	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-120	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-120A	4/09-4/10/91	Rn-222	4/17/91	<0.06
202-RF-121	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-122	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-123	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-124	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-125	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-126	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-127	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-128	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-129	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-130	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-131	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-132	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-133	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-134	4/09-4/10/91	Rn-222	4/17/91	0.06±0.05
202-RF-135	4/09-4/10/91	Rn-222	4/17/91	<0.08

REPORTED VIA TELEPHONE

PAGE 7 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

OK from 4/24/91
Renee Echols

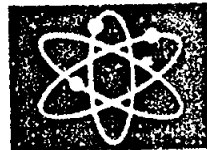
4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32

079488
D-081

REPORT OF ANALYSIS



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-136	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-137	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-138	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-139	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-140	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-140A	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-141	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-142	4/09-4/10/91	Rn-222	4/17/91	<0.07
202-RF-143	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-144	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-145	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-146	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-147	4/09-4/10/91	Rn-222	4/17/91	0.08±0.05
202-RF-148	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-149	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-150	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-151	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-152	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-153	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-154	4/09-4/10/91	Rn-222	4/17/91	<0.08

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PAGE 8 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

2/16/91 4/24/91
Renee Echols

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-155	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-156	4/09-4/10/91	Ku-222	4/17/91	<0.08
202-RF-157	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-158	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-159	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-160	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-160A	4/09-4/10/91	Rn-222	4/17/91	<0.06
202-RF-161	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-162	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-163	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-164	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-165	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-166	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-167	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-168	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-169	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-170	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-171	4/09-4/10/91	Rn-222	4/17/91	<0.08
202-RF-172	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-173	4/09-4/10/91	Rn-222	4/18/91	<0.09

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PAGE 9 OF 11 PAGE

TMA Eberline

Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

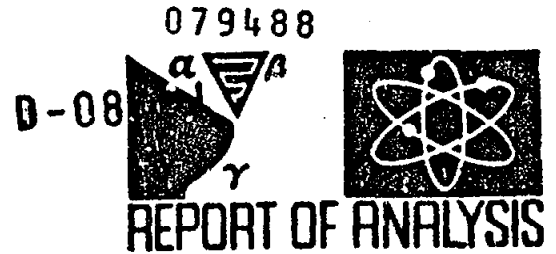
APPROVED BY

Renée Echols

4/24/91 DATE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32



TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-174	4/09-4/10/91	Rn-222	4/18/91	<0.07
202-RF-175	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-176	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-177	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-178	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-179	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-180	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-180A	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-181	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-181A	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-182	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-183	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-184	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-185	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-186	4/09-4/10/91	Rn-222	4/18/91	<0.07
202-RF-187	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-188	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-189	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-190	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-190A	4/09-4/10/91	Rn-222	4/18/91	<0.09

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PAGE 10 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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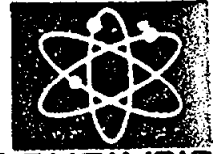
DEMAN 4/24/91
Renee Echols

4/24/91 DATE

079488

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - NFSS
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350
74-32



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 4/23/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
202-RF-002 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-004 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-017 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-025 (QA)	4/09-4/10/91	Rn-222	4/18/91	0.09±0.06
202-RF-035 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-042 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-045 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-069 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-071 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.07
202-RF-089 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-105 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-111 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-120A (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-127 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-136 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-147 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-154 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-168 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-172 (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09
202-RF-190A (QA)	4/09-4/10/91	Rn-222	4/18/91	<0.09

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PAGE 11 OF 11 PAGE

TMA Eberline
Thermo Analytical Inc.

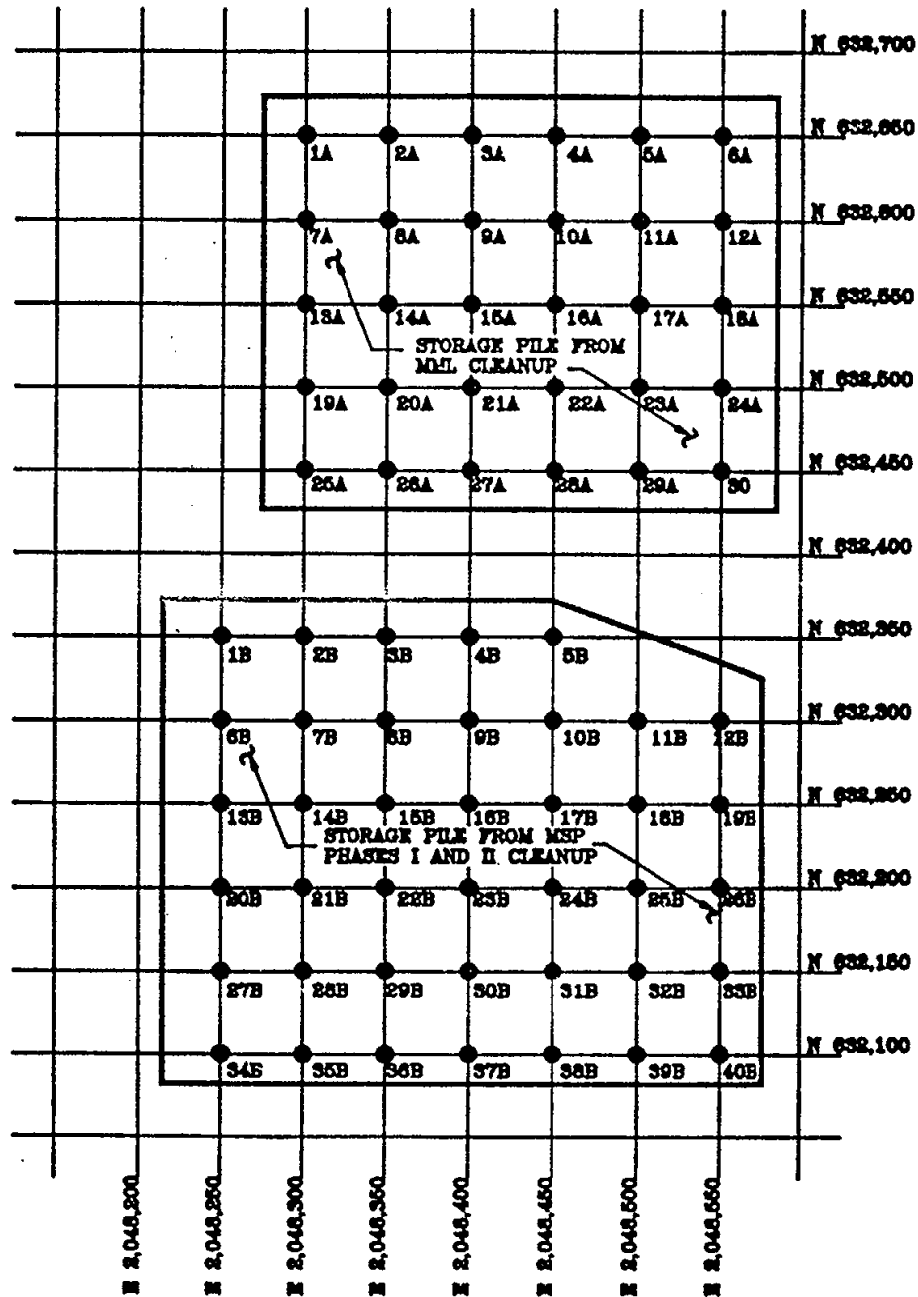
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

Renee Echols

4/24/91 DATE

079488



B4:SITE118:V1

MIDDLESEX INTERIM STORAGE PILE

CUSTOMER
ATTENTION
ADDRESS
CITY
W.G. NO.

Bechtel National, Inc. - MSP Storage Piles ⁰⁷⁹⁴⁸⁸
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350



TYPE OF ANALYSIS Radon Flux CUSTOMER ORDER NUMBER SAMPLES RECEIVED 6/6/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
118-RF-01A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-02A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-03A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-04A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-05A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-06A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-07A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-08A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-09A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-10A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-11A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-12A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-13A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-14A	5/20-5/21/91	Rn-222	5/24/91	0.03±0.02
118-RF-15A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-16A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-17A	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-18A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-19A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-20A	5/20-5/21/91	Rn-222	5/24/91	<0.04

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PAGE 1 OF 5 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

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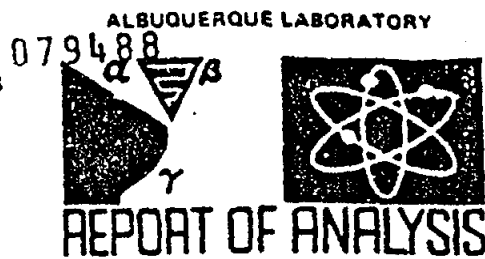
M. R. McDougall

DATE

6/6/91

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350



TYPE OF ANALYSIS: Radon Flux CUSTOMER ORDER NUMBER: SAMPLES RECEIVED: 6/6/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pci/M ² /sec
118-RF-21A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-22A	5/20-5/21/91	Rn-222	5/24/91	0.04±0.02
118-RF-23A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-24A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-25A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-26A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-27A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-28A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-29A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-30A	5/20-5/21/91	Rn-222	5/24/91	<0.04
118-RF-01B	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02
118-RF-02B	5/20-5/21/91	Rn-222	5/24/91	0.28±0.02
118-RF-03B	5/20-5/21/91	Rn-222	5/24/91	0.32±0.02
118-RF-04B	5/20-5/21/91	Rn-222	5/23/91	0.25±0.02
118-RF-05B	5/20-5/21/91	Rn-222	5/23/91	0.06±0.02
118-RF-06B	5/20-5/21/91	Rn-222	5/23/91	0.06±0.02
118-RF-07B	5/20-5/21/91	Rn-222	5/24/91	0.04±0.02
118-RF-08B	5/20-5/21/91	Rn-222	5/23/91	<0.03
118-RF-09B	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02
118-RF-10B	5/20-5/21/91	Rn-222	5/24/91	0.10±0.02

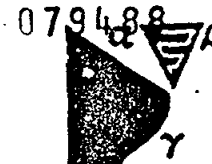
REPORTED VIA TELEPHONE

TMA Eberline
Thermo Analytical Inc.
7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY *M.R. McDougall*

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/6/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec
118-RF-11B	5/20-5/21/91	Rn-222	5/24/91	0.09±0.02
118-RF-12B	5/20-5/21/91	Rn-222	5/24/91	0.52±0.03
118-RF-13B	5/20-5/21/91	Rn-222	5/24/91	0.14±0.02
118-RF-14B	5/20-5/21/91	Rn-222	5/24/91	<0.03
118-RF-15B	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02
118-RF-16B	5/20-5/21/91	Rn-222	5/24/91	0.19±0.02
118-RF-17B	5/20-5/21/91	Rn-222	5/24/91	0.19±0.02
118-RF-18B	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02
118-RF-19B	5/20-5/21/91	Rn-222	5/24/91	0.15±0.02
118-RF-20B	5/20-5/21/91	Rn-222	5/23/91	0.13±0.02
118-RF-21B	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02
118-RF-22B	5/20-5/21/91	Rn-222	5/24/91	0.07±0.02
118-RF-23B	5/20-5/21/91	Rn-222	5/23/91	0.04±0.02
118-RF-24B	5/20-5/21/91	Rn-222	5/23/91	0.21±0.02
118-RF-25B	5/20-5/21/91	Rn-222	5/24/91	0.21±0.02
118-RF-26B	5/20-5/21/91	Rn-222	5/24/91	0.19±0.02
118-RF-27B	5/20-5/21/91	Rn-222	5/23/91	0.38±0.02
118-RF-28B	5/20-5/21/91	Rn-222	5/23/91	0.09±0.02
118-RF-29B	5/20-5/21/91	Rn-222	5/23/91	<0.03
118-RF-30B	5/20-5/21/91	Rn-222	5/23/91	0.12±0.02

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PAGE 3 OF 5 PAGE

TMA Eberline
Thermo Analytical Inc.

7021 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

M.R. McDougall

6/10/91

CUSTOMER
ATTENTION
ADDRESS
CITY
W.C. NO.

Bechtel National, Inc. - MSP Storage Piles
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350

079488



REPORT OF ANALYSIS

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED

6/6/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
118-RF-31B	5/20-5/21/91	Rn-222	5/24/91	0.16±0.02	
118-RF-32B	5/20-5/21/91	Rn-222	5/23/91	0.51±0.02	
118-RF-33B	5/20-5/21/91	Rn-222	5/23/91	0.39±0.02	
118-RF-34B	5/20-5/21/91	Rn-222	5/23/91	<0.03	
118-RF-35B	5/20-5/21/91	Rn-222	5/23/91	0.28±0.02	
118-RF-36B	5/20-5/21/91	Rn-222	5/23/91	<0.03	
118-RF-37B	5/20-5/21/91	Rn-222	5/23/91	0.16±0.02	
118-RF-38B	5/20-5/21/91	Rn-222	5/23/91	0.25±0.02	
118-RF-39B	5/20-5/21/91	Rn-222	5/24/91	0.27±0.02	
118-RF-40B	5/20-5/21/91	Rn-222	5/24/91	0.04±0.02	
118-RF-07A	5/20-5/21/91	Rn-222	5/24/91	0.04±0.02	LQC
118-RF-09A	5/20-5/21/91	Rn-222	5/24/91	<0.04	FQC
118-RF-23A	5/20-5/21/91	Rn-222	5/24/91	0.05±0.02	LQC
118-RF-28A	5/20-5/21/91	Rn-222	5/24/91	<0.04	LQC
118-RF-29A	5/20-5/21/91	Rn-222	5/24/91	<0.04	FQC
118-RF-30A	5/20-5/21/91	Rn-222	5/24/91	<0.04	LQC
118-RF-04B	5/20-5/21/91	Rn-222	5/23/91	0.25±0.02	LQC
118-RF-09B	5/20-5/21/91	Rn-222	5/23/91	0.03±0.02	FQC
118-RF-10B	5/20-5/21/91	Rn-222	5/24/91	0.17±0.02	FQC

REPORTED VIA TELEPHONE

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TMA Eberline
Thermo Analytical Inc.

221 PAN AMERICAN FREEWAY, N.E.
ALBUQUERQUE, NEW MEXICO 87109
PHONE (505) 345-3461

APPROVED BY

M. R. McLaughlin

DATE

6/10/91

079488

ALBUQUERQUE LABORATORY



REPORT OF ANALYSIS

CUSTOMER
ATTENTION
ADDRESS
CITY
W.O. NO.

Bechtel National, Inc. - MSP Storage Piles
Michael McDougall
P.O. Box 350
Oak Ridge, TN. 37831-0350

TYPE OF ANALYSIS

Radon Flux

CUSTOMER ORDER NUMBER

SAMPLES RECEIVED 6/6/91

Customer Identification	Date Collected	Type of Analysis	Date Analyzed	pCi/M ² /sec	
118-RF-15B	5/20-5/21/91	Rn-222	5/24/91	0.06±0.02	LQC
118-RF-25B	5/20-5/21/91	Rn-222	5/24/91	0.19±0.02	LQC
118-RF-27B	5/20-5/21/91	Rn-222	5/23/91	0.38±0.02	LQC
118-RF-28B	5/20-5/21/91	Rn-222	5/23/91	0.08±0.02	FQC
118-RF-39B	5/20-5/21/91	Rn-222	5/23/91	0.18±0.02	FQC

FQC = Duplicate "Field Quality Control" Sample At same Location.
LQC = Duplicate "Laboratory Quality Control" Analyses.

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MA Eberline
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APPROVED BY

M.R.M. [Signature]

DATE

6/10/91