

ANALYTICAL DATA SHEET

ANALYTICAL DEPT. - HEALTH AND SAFETY DIVISION

NLO

MI.14

No 8768

Industrial Hygiene or Medical Dept.

Analytical Chemistry Section:

1956

I. H. # 981 Sample Nos. 6 Date Collected 6/28 by JH Route to JH
 Location MITTS & MERRELL CO. Type of Sample air dust Analyzed for F Alpha xx
 Remarks SAGINAW, MICHIGAN U Beta
 Reducing thorium metal chunk to small particle size No₃ Ra
 pieces in Hog Grinder. Oil pH
 Be Th

Date Received 7-2-56 by Lab
 Date Reported 7-2-56 by MW
 Method of Analysis Alpha scintillation counter 2 by CJM
 Counting Data:
 BKGD .10 c/min GEO 40%

Sample No.	Hour	Sample Description	R	T	Q	Count	Time	C/min	d/m/M ³
7567	1110	BZ Operator opens sliding door atop feed hopper and places two small pieces of material into the hopper and rapidly slides door into place. Heavy dust escaping from machine. Comfo respirator worn.	.02	1	.02	32	0.38	84.11	15,020
7568	1110	GA Pump on stand 6' NW of machine during the above operation.	.02	5	.1	32	0.60	53.23	1901
7569	1120	BZ Same as 7567. This time a large chunk of metal (approx. 10 lbs.) was added. Although the operation was of short duration there was very heavy dusting in this period.	.02	.75	.015	640	2.85	224.56	53,467
7570	1120	GA Same as 7568; during the period when the large 10 lb. chunk was ground.	.02	4	.08	32	0.33	96.87	4325
7571	1124	GA Continuation of 7570. Actual grinding operations completed about 2 minutes previous to start of this sample.	.02	5	.1	32	2.75	11.54	412

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Sample No.	Hour	Sample Description	R	T	Q	Count	Time	C/min	d/m/M ³
7572	1129	GA Continuation of 7571	.02	5	.1	32	6.58	4.86	174

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