



**Antkowiak and Mahoney
Enterprises, Inc.**

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**FINAL STATUS SURVEY
for
Elan Operations, Inc.
Princeton, NJ**

Volume 2 of 2

136610
NMCC/RONI MATERIALS-002



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Appendix III

Class III Type Surveys

Removable Activity

Pictures of Surveyed Areas with Smear Results



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Appendix IV

Sink Sample Results

Removable Activity



Sink & Floor Drain Sample Results

Room Location	Sample	Sample Type	Channel 1 (dpm/sample)	Channel 2 (dpm/sample)	Channel 3 (dpm/sample)
Main Laboratory B	1	Sink	<MDA	<MDA	<MDA
Main Laboratory B	2	Sink	<MDA	<MDA	<MDA
Main Laboratory B	3	Sink	<MDA	<MDA	<MDA
Main Laboratory B	4	Sink	<MDA	<MDA	<MDA
Main Laboratory B	5	Sink	<MDA	<MDA	<MDA
Main Laboratory B	6	Sink	<MDA	<MDA	<MDA
Main Laboratory B	7	Sink	<MDA	<MDA	<MDA
Main Laboratory B	8	Sink	<MDA	<MDA	<MDA
Main Laboratory B	9	Sink	<MDA	<MDA	<MDA
Organic Lab II	1	Sink	<MDA	<MDA	<MDA
Organic Lab II	2	Sink	<MDA	<MDA	<MDA
Organic Lab II	3	Sink	<MDA	<MDA	<MDA
Organic Lab II	4	Sink	<MDA	<MDA	<MDA
Organic Lab II	5	Sink	<MDA	<MDA	<MDA
Organic Lab II	6	Sink	<MDA	<MDA	<MDA
Animal Support Lab	1	Sink	<MDA	<MDA	<MDA
Annex II	1	Sink	<MDA	<MDA	<MDA
Main Laboratory C	1	Sink	<MDA	<MDA	<MDA
Main Laboratory C	2	Sink	<MDA	<MDA	<MDA
Main Laboratory C	3	Sink	<MDA	<MDA	<MDA
Main Laboratory C	4	Sink	<MDA	<MDA	<MDA
Main Laboratory C	5	Sink	<MDA	<MDA	<MDA
Main Laboratory C	6	Sink	<MDA	<MDA	<MDA
Main Laboratory C	7	Sink	<MDA	<MDA	<MDA
Main Laboratory C	8	Sink	<MDA	<MDA	<MDA
Main Laboratory C	9	Sink	<MDA	<MDA	<MDA
Main Laboratory C	10	Sink	<MDA	<MDA	<MDA



Sink & Floor Drain Sample Results – cont.

Room Location	Sample	Sample Type	Channel 1 (dpm/sample)	Channel 2 (dpm/sample)	Channel 3 (dpm/sample)
Main Laboratory C	11	Sink	<MDA	<MDA	<MDA
Main Laboratory C	12	Sink	<MDA	<MDA	<MDA
Main Laboratory C	13	Sink	<MDA	<MDA	<MDA
Main Laboratory C	14	Sink	<MDA	<MDA	<MDA
Main Laboratory C	15	Sink	<MDA	<MDA	<MDA
Main Laboratory C	16	Sink	<MDA	<MDA	<MDA
Main Laboratory C	17	Sink	<MDA	<MDA	<MDA
Tissue (Cell) Culture	1	Sink	<MDA	<MDA	<MDA
Organic Lab I	1	Sink	<MDA	<MDA	<MDA
Organic Lab I	2	Sink	<MDA	<MDA	<MDA
Organic Lab I	3	Sink	<MDA	<MDA	<MDA
Organic Lab I	4	Sink	<MDA	<MDA	<MDA
Organic Lab I	5	Sink	<MDA	<MDA	<MDA
Organic Lab I	6	Sink	<MDA	<MDA	<MDA
Lab Prep Room	1	Sink	<MDA	<MDA	<MDA
Lab Prep Room	2	Sink	<MDA	<MDA	<MDA
Lab Prep Room	1	Floor	<MDA	<MDA	<MDA
Lab Prep Room	2	Floor	<MDA	<MDA	<MDA
Room 212	1	Sink	<MDA	<MDA	<MDA
Room 212	2	Sink	<MDA	<MDA	<MDA
Room 212	1	Floor	<MDA	<MDA	<MDA
Room 218	1	Floor	<MDA	<MDA	<MDA
Room 225	1	Floor	<MDA	<MDA	<MDA
Room 226	1	Floor	<MDA	<MDA	<MDA
Room 226	1	Sink	<MDA	<MDA	<MDA
Room 228	1	Sink	<MDA	<MDA	<MDA
Room 228	1	Floor	<MDA	<MDA	<MDA



Sink & Floor Drain Sample Results – cont.

Room Location	Sample	Sample Type	Channel 1 (dpm/sample)	Channel 2 (dpm/sample)	Channel 3 (dpm/sample)
Room 229	1	Floor	<MDA	<MDA	<MDA
Room 231	1	Floor	<MDA	<MDA	<MDA
Room 232	1	Sink	<MDA	<MDA	<MDA
Room 232	1	Floor	<MDA	<MDA	<MDA
Room 233	1	Floor	<MDA	<MDA	<MDA
Room 236	1	Floor	<MDA	<MDA	<MDA
Room 237	1	Floor	<MDA	<MDA	<MDA
Room 237	1	Sink	<MDA	<MDA	<MDA
Room 241	1	Floor	<MDA	<MDA	<MDA
Room 242	1	Floor	<MDA	<MDA	<MDA



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Appendix V

Duct Sample Results

Removable Activity



Duct Sample Results

Room Location	Sample	Channel 1 (dpm/sample)	Channel 2 (dpm/sample)	Channel 3 (dpm/sample)
Main Laboratory B	1	<MDA	<MDA	<MDA
Main Laboratory B	2	<MDA	<MDA	<MDA
Main Laboratory B	3	<MDA	<MDA	<MDA
Main Laboratory B	4	<MDA	<MDA	<MDA
Main Laboratory B	5	<MDA	<MDA	<MDA
Main Laboratory B	6	<MDA	<MDA	<MDA
Main Laboratory B	7	<MDA	<MDA	<MDA
Main Laboratory B	8	<MDA	<MDA	<MDA
Main Laboratory B	9	<MDA	<MDA	<MDA
Main Laboratory B	10	<MDA	<MDA	<MDA
Main Laboratory B	11	<MDA	<MDA	<MDA
Main Laboratory B	12	<MDA	<MDA	<MDA
Main Laboratory B	13	<MDA	<MDA	<MDA
Main Laboratory B	14	<MDA	<MDA	<MDA
Main Laboratory B	15	<MDA	<MDA	<MDA
Main Laboratory B	16	<MDA	<MDA	<MDA
Main Laboratory B	17	<MDA	<MDA	<MDA
Main Laboratory B	18	<MDA	<MDA	<MDA
Main Laboratory B	19	<MDA	<MDA	<MDA
Main Laboratory B	20	<MDA	<MDA	<MDA
Main Laboratory B	21	<MDA	<MDA	<MDA
Main Laboratory B	22	<MDA	<MDA	<MDA
Main Laboratory B	23	<MDA	<MDA	<MDA
Organic Lab II	1	<MDA	<MDA	<MDA
Organic Lab II	2	<MDA	<MDA	<MDA
Annex II	1	<MDA	<MDA	<MDA
Annex II	2	<MDA	<MDA	<MDA



Duct Sample Results

Room Location	Sample	Channel 1 (dpm/sample)	Channel 2 (dpm/sample)	Channel 3 (dpm/sample)
Annex I	1	<MDA	<MDA	<MDA
Annex I	2	<MDA	<MDA	<MDA
Main Laboratory C	1	<MDA	<MDA	<MDA
Main Laboratory C	2	<MDA	<MDA	<MDA
Main Laboratory C	3	<MDA	<MDA	<MDA
Main Laboratory C	4	<MDA	<MDA	<MDA
Main Laboratory C	5	<MDA	<MDA	<MDA
Main Laboratory C	6	<MDA	<MDA	<MDA
Main Laboratory C	7	<MDA	<MDA	<MDA
Main Laboratory C	8	<MDA	<MDA	<MDA
Main Laboratory C	9	<MDA	<MDA	<MDA
Main Laboratory C	10	<MDA	<MDA	<MDA
Main Laboratory C	11	<MDA	<MDA	<MDA
Main Laboratory C	12	<MDA	<MDA	<MDA
Tissue (Cell) Culture	1	<MDA	<MDA	<MDA
Tissue (Cell) Culture	2	<MDA	<MDA	<MDA
Organic Lab I	1	<MDA	<MDA	<MDA
Lab Prep	1	<MDA	<MDA	<MDA



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Appendix VI

Class I Type Surveys

Scalar Measurements



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 9/27/04

MDA = 549 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View A	1	131	<MDA
Main Lab C, View A	2	155	<MDA
Main Lab C, View A	3	137	<MDA
Main Lab C, View A	4	160	<MDA
Main Lab C, View A	5	153	<MDA
Main Lab C, View A	6	188	<MDA
Main Lab C, View A	7	187	<MDA
Main Lab C, View A	8	170	<MDA
Main Lab C, View A	9	133	<MDA
Main Lab C, View A	10	179	<MDA
Main Lab C, View A	11	198	<MDA
Main Lab C, View A	12	187	<MDA
Main Lab C, View A	13	153	<MDA
Main Lab C, View A	14	266	<MDA
Main Lab C, View A	15	295	<MDA
Main Lab C, View A	16	318	<MDA
Main Lab C, View B	1	137	<MDA
Main Lab C, View B	2	201	<MDA
Main Lab C, View B	3	148	<MDA
Main Lab C, View B	4	169	<MDA
Main Lab C, View B	5	183	<MDA
Main Lab C, View B	6	154	<MDA
Main Lab C, View B	7	206	<MDA
Main Lab C, View B	8	191	<MDA
Main Lab C, View B	9	171	<MDA
Main Lab C, View B	10	220	<MDA
Main Lab C, View B	11	201	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 9/27/04

MDA = 549 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View C	1	133	<MDA
Main Lab C, View C	2	180	<MDA
Main Lab C, View C	3	147	<MDA
Main Lab C, View C	4	183	<MDA
Main Lab C, View C	5	162	<MDA
Main Lab C, View C	6	205	<MDA
Main Lab C, View C	7	152	<MDA
Main Lab C, View C	8	209	<MDA
Main Lab C, View C	9	165	<MDA
Main Lab C, View C	10	187	<MDA
Main Lab C, View C	11	186	<MDA
Main Lab C, View C	12	194	<MDA
Main Lab C, View C	13	216	<MDA
Main Lab C, View C	14	148	<MDA
Main Lab C, View C	15	190	<MDA
Main Lab C, View C	16	246	<MDA
Main Lab C, View C	17	189	<MDA
Main Lab C, View C	18	202	<MDA
Main Lab C, View C	19	210	<MDA
Main Lab C, View C	20	156	<MDA
Main Lab C, View D	1	155	<MDA
Main Lab C, View D	2	194	<MDA
Main Lab C, View D	3	151	<MDA
Main Lab C, View D	4	189	<MDA
Main Lab C, View D	5	149	<MDA
Main Lab C, View D	6	165	<MDA
Main Lab C, View D	7	150	<MDA
Main Lab C, View D	8	170	<MDA
Main Lab C, View D	9	200	<MDA
Main Lab C, View D	10	263	<MDA
Main Lab C, View D	11	167	<MDA
Main Lab C, View D	12	170	<MDA
Main Lab C, View D	13	203	<MDA
Main Lab C, View D	14	198	<MDA
Main Lab C, View D	15	208	<MDA
Main Lab C, View D	16	199	<MDA
Main Lab C, View D	17	216	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 9/27/04

MDA = 549 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View E	1	157	<MDA
Main Lab C, View E	2	187	<MDA
Main Lab C, View E	3	141	<MDA
Main Lab C, View E	4	192	<MDA
Main Lab C, View E	5	154	<MDA
Main Lab C, View E	6	175	<MDA
Main Lab C, View E	7	172	<MDA
Main Lab C, View E	8	200	<MDA
Main Lab C, View E	9	216	<MDA
Main Lab C, View E	10	217	<MDA
Main Lab C, View E	11	208	<MDA
Main Lab C, View E	12	177	<MDA
Main Lab C, View E	13	217	<MDA
Main Lab C, View E	14	214	<MDA
Main Lab C, View E	15	244	<MDA
Main Lab C, View F	1	189	<MDA
Main Lab C, View F	2	202	<MDA
Main Lab C, View F	3	210	<MDA
Main Lab C, View F	4	189	<MDA
Main Lab C, View F	5	202	<MDA
Main Lab C, View F	6	210	<MDA
Main Lab C, View F	7	156	<MDA
Main Lab C, View F	8	206	<MDA
Main Lab C, View F	9	191	<MDA
Main Lab C, View F	10	171	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772 Surveyed: 9/27/04 MDA = 549 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View G	1	144	<MDA
Main Lab C, View G	2	176	<MDA
Main Lab C, View G	3	147	<MDA
Main Lab C, View G	4	172	<MDA
Main Lab C, View G	5	166	<MDA
Main Lab C, View G	6	177	<MDA
Main Lab C, View G	7	152	<MDA
Main Lab C, View G	8	161	<MDA
Main Lab C, View G	9	165	<MDA
Main Lab C, View G	10	171	<MDA
Main Lab C, View G	11	179	<MDA
Main Lab C, View G	12	181	<MDA
Main Lab C, View G	13	173	<MDA
Main Lab C, View G	14	169	<MDA
Main Lab C, View G	15	166	<MDA
Main Lab C, View G	16	173	<MDA
Main Lab C, View G	17	211	<MDA
Main Lab C, View G	18	205	<MDA
Main Lab C, View G	19	216	<MDA
Main Lab C, View G	20	198	<MDA
Main Lab C, View H	1	155	<MDA
Main Lab C, View H	2	152	<MDA
Main Lab C, View H	3	149	<MDA
Main Lab C, View H	4	162	<MDA
Main Lab C, View H	5	169	<MDA
Main Lab C, View H	6	158	<MDA
Main Lab C, View H	7	149	<MDA
Main Lab C, View H	8	154	<MDA
Main Lab C, View H	9	199	<MDA
Main Lab C, View H	10	201	<MDA
Main Lab C, View H	11	216	<MDA
Main Lab C, View H	12	209	<MDA
Main Lab C, View H	13	222	<MDA
Main Lab C, View H	14	231	<MDA
Main Lab C, View H	15	Not taken	
Main Lab C, View H	16	Not taken	



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 9/27/04

MDA = 549 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View I	1	142	<MDA
Main Lab C, View I	2	151	<MDA
Main Lab C, View I	3	144	<MDA
Main Lab C, View I	4	148	<MDA
Main Lab C, View I	5	155	<MDA
Main Lab C, View I	6	Not taken	
Main Lab C, View J	1	155	<MDA
Main Lab C, View J	2	147	<MDA
Main Lab C, View J	3	161	<MDA
Main Lab C, View J	4	151	<MDA
Main Lab C, View J	5	211	<MDA
Main Lab C, View J	6	216	<MDA
Main Lab C, View J	7	198	<MDA
Main Lab C, View J	8	189	<MDA
Main Lab C, View J	9	Not taken	
Main Lab C, View J	10	169	<MDA
Main Lab C, View J	11	209	<MDA
Main Lab C, View K	1	151	<MDA
Main Lab C, View K	2	153	<MDA
Main Lab C, View K	3	158	<MDA
Main Lab C, View K	4	163	<MDA
Main Lab C, View K	5	171	<MDA
Main Lab C, View K	6	166	<MDA
Main Lab C, View K	7	172	<MDA
Main Lab C, View K	8	159	<MDA
Main Lab C, View L	1	155	<MDA
Main Lab C, View L	2	152	<MDA
Main Lab C, View L	3	158	<MDA
Main Lab C, View L	4	161	<MDA
Main Lab C, View L	5	167	<MDA
Main Lab C, View L	6	163	<MDA
Main Lab C, View L	7	192	<MDA
Main Lab C, View L	8	199	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/1/04

MDA = 542 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View M	1	149	<MDA
Main Lab C, View M	2	155	<MDA
Main Lab C, View M	3	161	<MDA
Main Lab C, View M	4	162	<MDA
Main Lab C, View M	5	222	<MDA
Main Lab C, View M	6	217	<MDA
Main Lab C, View M	7	231	<MDA
Main Lab C, View M	8	211	<MDA
Main Lab C, View N	1	153	<MDA
Main Lab C, View N	2	162	<MDA
Main Lab C, View N	3	158	<MDA
Main Lab C, View N	4	157	<MDA
Main Lab C, View N	5	161	<MDA
Main Lab C, View N	6	153	<MDA
Main Lab C, View N	7	161	<MDA
Main Lab C, View N	8	149	<MDA
Main Lab C, View N	9	217	<MDA
Main Lab C, View O	1	157	<MDA
Main Lab C, View O	2	164	<MDA
Main Lab C, View O	3	167	<MDA
Main Lab C, View O	4	162	<MDA
Main Lab C, View O	5	171	<MDA
Main Lab C, View O	6	168	<MDA
Main Lab C, View O	7	276	<MDA
Main Lab C, View O	8	268	<MDA
Main Lab C, View O	9	289	<MDA
Main Lab C, View O	10	281	<MDA
Main Lab C, View O	11	255	<MDA
Main Lab C, View O	12	288	<MDA
Main Lab C, View O	13	299	<MDA
Main Lab C, View O	14	284	<MDA
Main Lab C, View O	15	286	<MDA
Main Lab C, View O	16	279	<MDA
Main Lab C, View O	17	292	<MDA
Main Lab C, View O	18 and 19	Not taken	



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/1/04

MDA = 542 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View P	1	166	<MDA
Main Lab C, View P	2	158	<MDA
Main Lab C, View P	3	151	<MDA
Main Lab C, View P	4	160	<MDA
Main Lab C, View P	5	233	<MDA
Main Lab C, View P	6	178	<MDA
Main Lab C, View P	7	201	<MDA
Main Lab C, View P	8	209	<MDA
Main Lab C, View Q	1	183	<MDA
Main Lab C, View Q	2	189	<MDA
Main Lab C, View Q	3	187	<MDA
Main Lab C, View Q	4	186	<MDA
Main Lab C, View Q	5	221	<MDA
Main Lab C, View Q	6	276	<MDA
Main Lab C, View Q	7	282	<MDA
Main Lab C, View R	1	173	<MDA
Main Lab C, View R	2	168	<MDA
Main Lab C, View R	3	175	<MDA
Main Lab C, View R	4	174	<MDA
Main Lab C, View R	5	233	<MDA
Main Lab C, View R	6	241	<MDA
Main Lab C, View R	7	255	<MDA
Main Lab C, View R	8	222	<MDA
Main Lab C, View R	9	229	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/1/04

MDA = 542 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View S	1	168	<MDA
Main Lab C, View S	2	176	<MDA
Main Lab C, View S	3	171	<MDA
Main Lab C, View S	4	159	<MDA
Main Lab C, View S	5	173	<MDA
Main Lab C, View S	6	166	<MDA
Main Lab C, View S	7	181	<MDA
Main Lab C, View S	8	177	<MDA
Main Lab C, View S	9	233	<MDA
Main Lab C, View S	10	212	<MDA
Main Lab C, View S	11	255	<MDA
Main Lab C, View S	12	267	<MDA
Main Lab C, View S	13	178	<MDA
Main Lab C, View S	14	240	<MDA
Main Lab C, View S	15	235	<MDA
Main Lab C, View T	1	166	<MDA
Main Lab C, View T	2	174	<MDA
Main Lab C, View T	3	159	<MDA
Main Lab C, View T	4	159	<MDA
Main Lab C, View T	5	244	<MDA
Main Lab C, View T	6	232	<MDA
Main Lab C, View T	7	247	<MDA
Main Lab C, View T	8	Not taken	
Main Lab C, View T	9	222	<MDA
Main Lab C, View T	10	216	<MDA
Main Lab C, View T	11	227	<MDA
Main Lab C, View U	1	155	<MDA
Main Lab C, View U	2	168	<MDA
Main Lab C, View U	3	166	<MDA
Main Lab C, View U	4	169	<MDA
Main Lab C, View U	5	173	<MDA
Main Lab C, View U	6	169	<MDA
Main Lab C, View U	7	177	<MDA
Main Lab C, View U	8	168	<MDA
Main Lab C, View U	9	238	<MDA
Main Lab C, View U	10	242	<MDA
Main Lab C, View U	11	241	<MDA
Main Lab C, View U	12	219	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/1/04

MDA = 542 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View V	1	147	<MDA
Main Lab C, View V	2	155	<MDA
Main Lab C, View V	3	149	<MDA
Main Lab C, View V	4	153	<MDA
Main Lab C, View V	5	151	<MDA
Main Lab C, View V	6	158	<MDA
Main Lab C, View V	7	239	<MDA
Main Lab C, View V	8	243	<MDA
Main Lab C, View V	9	Not taken	
Main Lab C, View V	10	251	<MDA
Main Lab C, View V	11	247	<MDA
Main Lab C, View V	12	228	<MDA
Main Lab C, View V	13	219	<MDA
Main Lab C, View W	1	155	<MDA
Main Lab C, View W	2	166	<MDA
Main Lab C, View W	3	163	<MDA
Main Lab C, View W	4	158	<MDA
Main Lab C, View W	5	156	<MDA
Main Lab C, View W	6	154	<MDA
Main Lab C, View W	7	154	<MDA
Main Lab C, View W	8	161	<MDA
Main Lab C, View W	9	244	<MDA
Main Lab C, View W	10	223	<MDA
Main Lab C, View W	11	231	<MDA
Main Lab C, View W	12	238	<MDA
Main Lab C, View W	13	221	<MDA
Main Lab C, View W	14	255	<MDA
Main Lab C, View W	15	269	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/1/04

MDA = 542 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View X	1	177	<MDA
Main Lab C, View X	2	167	<MDA
Main Lab C, View X	3	175	<MDA
Main Lab C, View X	4	176	<MDA
Main Lab C, View X	5	171	<MDA
Main Lab C, View X	6	177	<MDA
Main Lab C, View X	7	172	<MDA
Main Lab C, View X	8	179	<MDA
Main Lab C, View X	9	211	<MDA
Main Lab C, View X	10	199	<MDA
Main Lab C, View X	11	208	<MDA
Main Lab C, View X	12	264	<MDA
Main Lab C, View X	13	263	<MDA
Main Lab C, View Y	1	178	<MDA
Main Lab C, View Y	2	174	<MDA
Main Lab C, View Y	3	182	<MDA
Main Lab C, View Y	4	181	<MDA
Main Lab C, View Y	5	179	<MDA
Main Lab C, View Y	6	177	<MDA
Main Lab C, View Y	7	181	<MDA
Main Lab C, View Y	8	181	<MDA
Main Lab C, View Y	9	244	<MDA
Main Lab C, View Y	10	222	<MDA
Main Lab C, View Y	11	227	<MDA
Main Lab C, View Y	12	219	<MDA
Main Lab C, View Y	13	251	<MDA
Main Lab C, View Z	1	177	<MDA
Main Lab C, View Z	2	177	<MDA
Main Lab C, View Z	3	181	<MDA
Main Lab C, View Z	4	179	<MDA
Main Lab C, View Z	5	176	<MDA
Main Lab C, View Z	6	177	<MDA
Main Lab C, View Z	7	182	<MDA
Main Lab C, View Z	8	181	<MDA
Main Lab C, View Z	9	222	<MDA
Main Lab C, View Z	10	226	<MDA
Main Lab C, View Z	11	225	<MDA
Main Lab C, View Z	12	248	<MDA
Main Lab C, View Z	13	255	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/4/04

MDA = 536 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View AA	1	155	<MDA
Main Lab C, View AA	2	161	<MDA
Main Lab C, View AA	3	167	<MDA
Main Lab C, View AA	4	164	<MDA
Main Lab C, View AA	5	164	<MDA
Main Lab C, View AA	6	159	<MDA
Main Lab C, View AA	7	163	<MDA
Main Lab C, View AA	8	166	<MDA
Main Lab C, View AA	9	233	<MDA
Main Lab C, View AA	10	238	<MDA
Main Lab C, View AA	11	222	<MDA
Main Lab C, View AA	12	229	<MDA
Main Lab C, View AA	13	225	<MDA
Main Lab C, View BB	1	166	<MDA
Main Lab C, View BB	2	162	<MDA
Main Lab C, View BB	3	155	<MDA
Main Lab C, View BB	4	156	<MDA
Main Lab C, View BB	5	197	<MDA
Main Lab C, View BB	6	191	<MDA
Main Lab C, View BB	7	233	<MDA
Main Lab C, View BB	8	225	<MDA
Main Lab C, View BB	9	222	<MDA
Main Lab C, View BB	10	Not taken	
Main Lab C, View CC	1	148	<MDA
Main Lab C, View CC	2	151	<MDA
Main Lab C, View CC	3	155	<MDA
Main Lab C, View CC	4	151	<MDA
Main Lab C, View CC	5	160	<MDA
Main Lab C, View CC	6	150	<MDA
Main Lab C, View CC	7	149	<MDA
Main Lab C, View CC	8	153	<MDA
Main Lab C, View CC	9	211	<MDA
Main Lab C, View CC	10	219	<MDA
Main Lab C, View CC	11	207	<MDA
Main Lab C, View CC	12	211	<MDA
Main Lab C, View CC	13	222	<MDA
Main Lab C, View CC	14	233	<MDA
Main Lab C, View CC	15	245	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/4/04

MDA = 536 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View DD	1	155	<MDA
Main Lab C, View DD	2	161	<MDA
Main Lab C, View DD	3	167	<MDA
Main Lab C, View DD	4	164	<MDA
Main Lab C, View DD	5	164	<MDA
Main Lab C, View DD	6	159	<MDA
Main Lab C, View DD	7	163	<MDA
Main Lab C, View DD	8	166	<MDA
Main Lab C, View DD	9	Not taken	
Main Lab C, View DD	10	238	<MDA
Main Lab C, View DD	11	222	<MDA
Main Lab C, View DD	12	229	<MDA
Main Lab C, View DD	13	225	<MDA
Main Lab C, View DD	14	219	
Main Lab C, View DD	15	229	<MDA
Main Lab C, View EE	1	161	<MDA
Main Lab C, View EE	2	166	<MDA
Main Lab C, View EE	3	167	<MDA
Main Lab C, View EE	4	162	<MDA
Main Lab C, View EE	5	159	<MDA
Main Lab C, View EE	6	165	<MDA
Main Lab C, View EE	7	202	<MDA
Main Lab C, View EE	8	200	<MDA
Main Lab C, View EE	9	244	<MDA
Main Lab C, View EE	10	278	<MDA
Main Lab C, View EE	11	255	<MDA
Main Lab C, View EE	12	261	<MDA
Main Lab C, View FF	1	162	<MDA
Main Lab C, View FF	2	163	<MDA
Main Lab C, View FF	3	158	<MDA
Main Lab C, View FF	4	162	<MDA
Main Lab C, View FF	5	157	<MDA
Main Lab C, View FF	6	165	<MDA
Main Lab C, View FF	7	191	<MDA
Main Lab C, View FF	8	199	<MDA
Main Lab C, View FF	9	244	<MDA
Main Lab C, View FF	10	251	<MDA
Main Lab C, View FF	11	233	<MDA
Main Lab C, View FF	12	249	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/4/04

MDA = 536 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View GG	1	166	<MDA
Main Lab C, View GG	2	161	<MDA
Main Lab C, View GG	3	165	<MDA
Main Lab C, View GG	4	161	<MDA
Main Lab C, View GG	5	211	<MDA
Main Lab C, View GG	6	211	<MDA
Main Lab C, View GG	7	245	<MDA
Main Lab C, View GG	8	265	<MDA
Main Lab C, View GG	9	255	<MDA
Main Lab C, View GG	10	249	<MDA
Main Lab C, View HH	1	171	<MDA
Main Lab C, View HH	2	168	<MDA
Main Lab C, View HH	3	173	<MDA
Main Lab C, View HH	4	165	<MDA
Main Lab C, View HH	5	221	<MDA
Main Lab C, View HH	6	264	<MDA
Main Lab C, View HH	7	271	<MDA
Main Lab C, View HH	8	231	<MDA
Main Lab C, View HH	9	208	<MDA
Main Lab C, View II	1	166	<MDA
Main Lab C, View II	2	161	<MDA
Main Lab C, View II	3	165	<MDA
Main Lab C, View II	4	161	<MDA
Main Lab C, View II	5	155	<MDA
Main Lab C, View II	6	171	<MDA
Main Lab C, View II	7	168	<MDA
Main Lab C, View II	8	175	<MDA
Main Lab C, View II	9	227	<MDA
Main Lab C, View II	10	231	<MDA
Main Lab C, View II	11	244	<MDA
Main Lab C, View II	12	229	<MDA
Main Lab C, View II	13	275	<MDA
Main Lab C, View II	14	267	<MDA
Main Lab C, View II	15	278	<MDA



Direct Measurements – Main Lab C

Ludlum Model 12, serial no. 193772

Surveyed: 10/4/04

MDA = 536 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab C, View JJ	1	163	<MDA
Main Lab C, View JJ	2	163	<MDA
Main Lab C, View JJ	3	217	<MDA
Main Lab C, View JJ	4	223	<MDA
Main Lab C, View JJ	5	238	<MDA
Main Lab C, View JJ	6	241	<MDA
Main Lab C, View JJ	7	188	<MDA
Main Lab C, View KK	1	155	<MDA
Main Lab C, View KK	2	158	<MDA
Main Lab C, View KK	3	158	<MDA
Main Lab C, View KK	4	154	<MDA
Main Lab C, View KK	5	161	<MDA
Main Lab C, View KK	6	157	<MDA
Main Lab C, View KK	7	162	<MDA
Main Lab C, View KK	8	178	<MDA
Main Lab C, View KK	9	198	<MDA
Main Lab C, View KK	10	194	<MDA
Main Lab C, View KK	11	Not taken	



Direct Measurements – Organic Lab I

Ludlum Model 12, serial no. 193772

Surveyed: 10/6/04

MDA = 548 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab I, View A	1	137	<MDA
Organic Lab I, View A	2	144	<MDA
Organic Lab I, View A	3	141	<MDA
Organic Lab I, View A	4	136	<MDA
Organic Lab I, View A	5	162	<MDA
Organic Lab I, View A	6	165	<MDA
Organic Lab I, View A	7	152	<MDA
Organic Lab I, View B	1	171	<MDA
Organic Lab I, View B	2	168	<MDA
Organic Lab I, View B	3	165	<MDA
Organic Lab I, View B	4	161	<MDA
Organic Lab I, View B	5	159	<MDA
Organic Lab I, View C	1	164	<MDA
Organic Lab I, View C	2	168	<MDA
Organic Lab I, View C	3	166	<MDA
Organic Lab I, View C	4	188	<MDA
Organic Lab I, View C	5	171	<MDA
Organic Lab I, View D	1	144	<MDA
Organic Lab I, View D	2	152	<MDA
Organic Lab I, View D	3	158	<MDA
Organic Lab I, View D	4	148	<MDA
Organic Lab I, View D	5	168	<MDA
Organic Lab I, View D	6	177	<MDA
Organic Lab I, View D	7	188	<MDA
Organic Lab I, View D	8	149	<MDA
Organic Lab I, View E	1	151	<MDA
Organic Lab I, View E	2	144	<MDA
Organic Lab I, View E	3	141	<MDA
Organic Lab I, View E	4	152	<MDA
Organic Lab I, View E	5	153	<MDA
Organic Lab I, View E	6	140	<MDA



Direct Measurements – Organic Lab I

Ludlum Model 12, serial no. 193772 Surveyed: 10/6/04 MDA = 548 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab I,View F	1	155	<MDA
Organic Lab I,View F	2	151	<MDA
Organic Lab I,View F	3	145	<MDA
Organic Lab I,View F	4	151	<MDA
Organic Lab I,View F	5	159	<MDA
Organic Lab I,View F	6	156	<MDA
Organic Lab I,View F	7	162	<MDA
Organic Lab I,View F	8	158	<MDA
Organic Lab I,View F	9	Not taken	
Organic Lab I,View F	10	Not Taken	
Organic Lab I,View F	11	172	<MDA
Organic Lab I,View F	12	159	<MDA
Organic Lab I,View F	13	151	<MDA
Organic Lab I,View F	14	167	<MDA
Organic Lab I,View F	15	164	<MDA
Organic Lab I,View F	16	195	<MDA
Organic Lab I,View F	17	162	<MDA
Organic Lab I,View F	18	156	<MDA
Organic Lab I,View F	19	164	<MDA
Organic Lab I,View F	20	159	<MDA
Organic Lab I,View F	21	159	<MDA
Organic Lab I,View F	22	165	<MDA
Organic Lab I,View F	23	162	<MDA
Organic Lab I,View F	24	Not taken	
Organic Lab I,View F	25	166	<MDA
Organic Lab I,View F	26	157	<MDA
Organic Lab I,View F	27	168	<MDA
Organic Lab I,View F	28	176	<MDA
Organic Lab I,View G	1	161	<MDA
Organic Lab I,View G	2	144	<MDA
Organic Lab I,View G	3	155	<MDA
Organic Lab I,View G	4	159	<MDA
Organic Lab I,View G	5	189	<MDA
Organic Lab I,View G	6	145	<MDA



Direct Measurements – Organic Lab I

Ludlum Model 12, serial no. 193772 Surveyed: 10/6/04 MDA = 548 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab I, View H	1	301	<MDA
Organic Lab I, View H	2	290	<MDA
Organic Lab I, View H	3	282	<MDA
Organic Lab I, View H	4	294	<MDA
Organic Lab I, View H	5	144	<MDA
Organic Lab I, View H	6	158	<MDA
Organic Lab I, View H	7	177	<MDA
Organic Lab I, View H	8	167	<MDA
Organic Lab I, View H	9	165	<MDA
Organic Lab I, View H	10	193	<MDA
Organic Lab I, View I	1	155	<MDA
Organic Lab I, View I	2	158	<MDA
Organic Lab I, View I	3	169	<MDA
Organic Lab I, View I	4	166	<MDA
Organic Lab I, View I	5	163	<MDA
Organic Lab I, View I	6	168	<MDA
Organic Lab I, View I	7	188	<MDA
Organic Lab I, Hood	1	249	<MDA
Organic Lab I, Hood	2	257	<MDA
Organic Lab I, Hood	3	280	<MDA
Organic Lab I, Hood	4	287	<MDA
Organic Lab I, Hood	5	276	<MDA
Organic Lab I, Hood	6	167	<MDA
Organic Lab I, Hood	7	172	<MDA
Organic Lab I, Hood	8	148	<MDA



Direct Measurements – Organic Lab II

Ludlum Model 12, serial no. 193772 Surveyed: 10/6/04

MDA = 530 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab II, View A	1	177	<MDA
Organic Lab II, View A	2	182	<MDA
Organic Lab II, View A	3	224	<MDA
Organic Lab II, View A	4	229	<MDA
Organic Lab II, View A	5	245	<MDA
Organic Lab II, View A	6	188	<MDA
Organic Lab II, View A	7	247	<MDA
Organic Lab II, View A	8	239	<MDA
Organic Lab II, View A	9	208	<MDA
Organic Lab II, View B	1	181	<MDA
Organic Lab II, View B	2	182	<MDA
Organic Lab II, View B	3	185	<MDA
Organic Lab II, View B	4	181	<MDA
Organic Lab II, View B	5	229	<MDA
Organic Lab II, View C	1	181	<MDA
Organic Lab II, View C	2	181	<MDA
Organic Lab II, View C	3	180	<MDA
Organic Lab II, View C	4	188	<MDA
Organic Lab II, View C	5	221	<MDA
Organic Lab II, View C	6	211	<MDA
Organic Lab II, View D	1	183	<MDA
Organic Lab II, View D	2	185	<MDA
Organic Lab II, View D	3	229	<MDA
Organic Lab II, View D	4	237	<MDA
Organic Lab II, View D	5	235	<MDA
Organic Lab II, View D	6	241	<MDA
Organic Lab II, View D	7	237	<MDA
Organic Lab II, View D	8	244	<MDA
Organic Lab II, View D	9	244	<MDA
Organic Lab II, View D	10	188	<MDA



Direct Measurements – Organic Lab II

Ludlum Model 12, serial no. 193772 Surveyed: 10/6/04 MDA = 530 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab II, View E	1	190	<MDA
Organic Lab II, View E	2	188	<MDA
Organic Lab II, View E	3	193	<MDA
Organic Lab II, View E	4	187	<MDA
Organic Lab II, View E	5	185	<MDA
Organic Lab II, View E	6	188	<MDA
Organic Lab II, View F	1	188	<MDA
Organic Lab II, View F	2	191	<MDA
Organic Lab II, View F	3	187	<MDA
Organic Lab II, View F	4	187	<MDA
Organic Lab II, View F	5	191	<MDA
Organic Lab II, View F	6	186	<MDA
Organic Lab II, View F	7	181	<MDA
Organic Lab II, View F	8	183	<MDA
Organic Lab II, View F	9	181	<MDA
Organic Lab II, View F	10	188	<MDA
Organic Lab II, View G	1	179	<MDA
Organic Lab II, View G	2	183	<MDA
Organic Lab II, View G	3	188	<MDA
Organic Lab II, View G	4	188	<MDA
Organic Lab II, View G	5	186	<MDA
Organic Lab II, View G	6	184	<MDA
Organic Lab II, View G	7	251	<MDA
Organic Lab II, View G	8	247	<MDA
Organic Lab II, View G	9	212	<MDA
Organic Lab II, View G	10	233	<MDA
Organic Lab II, View G	11	235	<MDA
Organic Lab II, View G	12	244	<MDA
Organic Lab II, View G	13	212	<MDA
Organic Lab II, View G	14	209	<MDA
Organic Lab II, View G	15	218	<MDA
Organic Lab II, View G	16	188	<MDA
Organic Lab II, View G	17	189	<MDA
Organic Lab II, View G	18	Not taken	



Direct Measurements – Organic Lab II

Ludlum Model 12, serial no. 193772 Surveyed: 10/6/04 MDA = 530 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Organic Lab II, View H	1	182	<MDA
Organic Lab II, View H	2	178	<MDA
Organic Lab II, View H	3	180	<MDA
Organic Lab II, View H	4	181	<MDA
Organic Lab II, View H	5	Not taken	
Organic Lab II, View H	6	256	<MDA
Organic Lab II, View H	7	267	<MDA
Organic Lab II, View H	8	276	<MDA
Organic Lab II, View H	9	274	<MDA
Organic Lab II, View H	10	268	<MDA
Organic Lab II, View H	11	259	<MDA
Organic Lab II, View H	12	251	<MDA
Organic Lab II, View H	13	225	<MDA
Organic Lab II, View I	1	179	<MDA
Organic Lab II, View I	2	183	<MDA
Organic Lab II, View I	3	188	<MDA
Organic Lab II, View I	4	188	<MDA
Organic Lab II, View I	5	Not taken	
Organic Lab II, View I	6	266	<MDA
Organic Lab II, View I	7	272	<MDA
Organic Lab II, View I	8	289	<MDA
Organic Lab II, View I	9	277	<MDA
Organic Lab II, View I	10	269	<MDA
Organic Lab II, View I	11	235	<MDA
Organic Lab II, View I	12	235	<MDA
Organic Lab II, View I	13	228	<MDA
Organic Lab II, View I	14	233	<MDA
Organic Lab II, View I	15	229	<MDA
Organic Lab II, View I	16	233	<MDA
Organic Lab II, View I	17	245	<MDA



Direct Measurements – Annex I

Ludlum Model 12, serial no. 193772 Surveyed: 11/3/04 MDA = 514 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Annex I, View A	1	155	<MDA
Annex I, View A	2	158	<MDA
Annex I, View A	3	164	<MDA
Annex I, View A	4	161	<MDA
Annex I, View A	5	164	<MDA
Annex I, View A	6	165	<MDA
Annex I, View A	7	155	<MDA
Annex I, View A	8	152	<MDA
Annex I, View A	9	169	<MDA
Annex I, View A	10	163	<MDA
Annex I, View A	11	151	<MDA
Annex I, View A	12	161	<MDA
Annex I, View A	13	173	<MDA
Annex I, View A	14	168	<MDA
Annex I, View A	15	161	<MDA
Annex I, View B	1	160	<MDA
Annex I, View B	2	168	<MDA
Annex I, View B	3	167	<MDA
Annex I, View B	4	169	<MDA
Annex I, View B	5	164	<MDA
Annex I, View B	6	165	<MDA
Annex I, View B	7	177	<MDA
Annex I, View B	8	184	<MDA
Annex I, View B	9	186	<MDA
Annex I, View B	10	189	<MDA
Annex I, View B	11-wall	156	<MDA
Annex I, View C	1	166	<MDA
Annex I, View C	2	161	<MDA
Annex I, View C	3	161	<MDA
Annex I, View C	4	167	<MDA
Annex I, View C	5	189	<MDA
Annex I, View C	6	195	<MDA
Annex I, View C	7	175	<MDA
Annex I, View C	8	185	<MDA
Annex I, View C	9	177	<MDA
Annex I, View C	10	172	<MDA



Direct Measurements – Annex I

Ludlum Model 12, serial no. 193772 Surveyed: 11/3/04 MDA = 514 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Annex I, View D	1	162	<MDA
Annex I, View D	2	166	<MDA
Annex I, View D	3	167	<MDA
Annex I, View D	4	159	<MDA
Annex I, View D	5	161	<MDA
Annex I, View D	6	163	<MDA
Annex I, View D	7	199	<MDA
Annex I, View D	8	193	<MDA
Annex I, View D	9	171	<MDA
Annex I, View D	10	177	<MDA
Annex I, View D	11	173	<MDA
Annex I, View E	1	159	<MDA
Annex I, View E	2	165	<MDA
Annex I, View E	3	165	<MDA
Annex I, View E	4	165	<MDA
Annex I, View E	5	163	<MDA
Annex I, View E	6	168	<MDA
Annex I, View E	7	172	<MDA
Annex I, View E	8	188	<MDA
Annex I, View E	9	171	<MDA
Annex I, View E	10	177	<MDA



Direct Measurements – Annex II

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Annex II, View A	1	166	<MDA
Annex II, View A	2	206	<MDA
Annex II, View A	3	171	<MDA
Annex II, View A	4	180	<MDA
Annex II, View A	5	239	<MDA
Annex II, View A	6	209	<MDA
Annex II, View A	7	213	<MDA
Annex II, View A	8	177	<MDA
Annex II, View A	9	171	<MDA
Annex II, View A	10	248	<MDA
Annex II, View B	1	199	<MDA
Annex II, View B	2	204	<MDA
Annex II, View B	3	199	<MDA
Annex II, View B	4	210	<MDA
Annex II, View B	5	211	<MDA
Annex II, View B	6	201	<MDA
Annex II, View B	7	213	<MDA
Annex II, View B	8	198	<MDA
Annex II, View B	9	211	<MDA
Annex II, View B	10	222	<MDA
Annex II, View B	11	219	<MDA
Annex II, View B	12	219	<MDA
Annex II, View B	13	210	<MDA
Annex II, View B	14	186	<MDA
Annex II, View B	15	188	<MDA
Annex II, View C	1	166	<MDA
Annex II, View C	2	171	<MDA
Annex II, View C	3	177	<MDA
Annex II, View C	4	207	<MDA
Annex II, View C	5	238	<MDA
Annex II, View C	6	238	<MDA
Annex II, View C	7	196	<MDA
Annex II, View C	8	180	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View A	1	188	<MDA
Main Lab B, View A	2	182	<MDA
Main Lab B, View A	3	191	<MDA
Main Lab B, View A	4	181	<MDA
Main Lab B, View A	5	198	<MDA
Main Lab B, View A	6	201	<MDA
Main Lab B, View A	7	189	<MDA
Main Lab B, View A	8	193	<MDA
Main Lab B, View A	9	245	<MDA
Main Lab B, View A	10	252	<MDA
Main Lab B, View A	11	179	<MDA
Main Lab B, View B	1	191	<MDA
Main Lab B, View B	2	186	<MDA
Main Lab B, View B	3	186	<MDA
Main Lab B, View B	4	185	<MDA
Main Lab B, View B	5	189	<MDA
Main Lab B, View B	6	190	<MDA
Main Lab B, View B	7	199	<MDA
Main Lab B, View B	8	201	<MDA
Main Lab B, View B	9	244	<MDA
Main Lab B, View B	10	237	<MDA
Main Lab B, View B	11	205	<MDA
Main Lab B, View C	1	200	<MDA
Main Lab B, View C	2	193	<MDA
Main Lab B, View C	3	188	<MDA
Main Lab B, View C	4	195	<MDA
Main Lab B, View C	5	179	<MDA
Main Lab B, View C	6	182	<MDA
Main Lab B, View C	7	188	<MDA
Main Lab B, View C	8	190	<MDA
Main Lab B, View C	9	204	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View D	1	198	<MDA
Main Lab B, View D	2	187	<MDA
Main Lab B, View D	3	193	<MDA
Main Lab B, View D	4	205	<MDA
Main Lab B, View D	5	267	<MDA
Main Lab B, View D	6	255	<MDA
Main Lab B, View D	7	248	<MDA
Main Lab B, View D	8	287	<MDA
Main Lab B, View D	9	269	<MDA
Main Lab B, View D	10	273	<MDA
Main Lab B, View D	11	208	<MDA
Main Lab B, View D	12	234	<MDA
Main Lab B, View D	13	241	<MDA
Main Lab B, View E	1	176	<MDA
Main Lab B, View E	2	171	<MDA
Main Lab B, View E	3	185	<MDA
Main Lab B, View E	4	182	<MDA
Main Lab B, View E	5	179	<MDA
Main Lab B, View E	6	180	<MDA
Main Lab B, View E	7	235	<MDA
Main Lab B, View E	8	244	<MDA
Main Lab B, View E	9	240	<MDA
Main Lab B, View E	10	219	<MDA
Main Lab B, View E	11	222	<MDA
Main Lab B, View E	12	217	<MDA
Main Lab B, View E	13	229	<MDA
Main Lab B, View E	14	231	<MDA
Main Lab B, View E	15	242	<MDA
Main Lab B, View E	16	238	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View F	1	176	<MDA
Main Lab B, View F	2	179	<MDA
Main Lab B, View F	3	203	<MDA
Main Lab B, View F	4	211	<MDA
Main Lab B, View F	5	211	<MDA
Main Lab B, View F	6	233	<MDA
Main Lab B, View F	7	277	<MDA
Main Lab B, View F	8	287	<MDA
Main Lab B, View F	9	226	<MDA
Main Lab B, View G	1	182	<MDA
Main Lab B, View G	2	178	<MDA
Main Lab B, View G	3	191	<MDA
Main Lab B, View G	4	188	<MDA
Main Lab B, View G	5	222	<MDA
Main Lab B, View G	6	217	<MDA
Main Lab B, View G	7	271	<MDA
Main Lab B, View H	1	172	<MDA
Main Lab B, View H	2	175	<MDA
Main Lab B, View H	3	169	<MDA
Main Lab B, View H	4	175	<MDA
Main Lab B, View H	5	233	<MDA
Main Lab B, View I	1	177	<MDA
Main Lab B, View I	2	177	<MDA
Main Lab B, View I	3	179	<MDA
Main Lab B, View I	4	168	<MDA
Main Lab B, View I	5	229	<MDA
Main Lab B, View J	1	199	<MDA
Main Lab B, View J	2	187	<MDA
Main Lab B, View J	3	189	<MDA
Main Lab B, View J	4	192	<MDA
Main Lab B, View J	5	249	<MDA
Main Lab B, View J	6	183	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View K	1	188	<MDA
Main Lab B, View K	2	193	<MDA
Main Lab B, View K	3	189	<MDA
Main Lab B, View K	4	187	<MDA
Main Lab B, View K	5	227	<MDA
Main Lab B, View K	6	184	<MDA
Main Lab B, View K	7	220	<MDA
Main Lab B, View L	1	189	<MDA
Main Lab B, View L	2	192	<MDA
Main Lab B, View L	3	189	<MDA
Main Lab B, View L	4	193	<MDA
Main Lab B, View L	5	222	<MDA
Main Lab B, View L	6	243	<MDA
Main Lab B, View M	1	182	<MDA
Main Lab B, View M	2	199	<MDA
Main Lab B, View M	3	197	<MDA
Main Lab B, View M	4	193	<MDA
Main Lab B, View M	5	211	<MDA
Main Lab B, View M	6	254	<MDA
Main Lab B, View N	1	182	<MDA
Main Lab B, View N	2	202	<MDA
Main Lab B, View N	3	198	<MDA
Main Lab B, View N	4	197	<MDA
Main Lab B, View N	5	219	<MDA
Main Lab B, View N	6	223	<MDA
Main Lab B, View N	7	231	<MDA
Main Lab B, View N	8	255	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View O	1	177	<MDA
Main Lab B, View O	2	171	<MDA
Main Lab B, View O	3	181	<MDA
Main Lab B, View O	4	179	<MDA
Main Lab B, View O	5	232	<MDA
Main Lab B, View O	6	219	<MDA
Main Lab B, View O	7	221	<MDA
Main Lab B, View O	8	183	<MDA
Main Lab B, View O	9	183	<MDA
Main Lab B, View O	10	177	<MDA
Main Lab B, View O	11	171	<MDA
Main Lab B, View O	12	169	<MDA
Main Lab B, View P	1	177	<MDA
Main Lab B, View P	2	174	<MDA
Main Lab B, View P	3	181	<MDA
Main Lab B, View P	4	182	<MDA
Main Lab B, View P	5	201	<MDA
Main Lab B, View P	6	199	<MDA
Main Lab B, View P	7	212	<MDA
Main Lab B, View P	8	244	<MDA
Main Lab B, View Q	1	169	<MDA
Main Lab B, View Q	2	177	<MDA
Main Lab B, View Q	3	176	<MDA
Main Lab B, View Q	4	179	<MDA
Main Lab B, View Q	5	203	<MDA
Main Lab B, View Q	6	233	<MDA
Main Lab B, View R	1	181	<MDA
Main Lab B, View R	2	177	<MDA
Main Lab B, View R	3	176	<MDA
Main Lab B, View R	4	180	<MDA
Main Lab B, View R	5	199	<MDA
Main Lab B, View R	6	248	<MDA
Main Lab B, View R	7	206	<MDA
Main Lab B, View R	8	184	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04

MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View S	1	177	<MDA
Main Lab B, View S	2	191	<MDA
Main Lab B, View S	3	189	<MDA
Main Lab B, View S	4	190	<MDA
Main Lab B, View S	5	199	<MDA
Main Lab B, View S	6	192	<MDA
Main Lab B, View S	7	216	<MDA
Main Lab B, View S	8	211	<MDA
Main Lab B, View S	9	199	<MDA
Main Lab B, View S	10	244	<MDA
Main Lab B, View S	11	237	<MDA
Main Lab B, View S	12	245	<MDA
Main Lab B, View T	1	188	<MDA
Main Lab B, View T	2	181	<MDA
Main Lab B, View T	3	211	<MDA
Main Lab B, View T	4	217	<MDA
Main Lab B, View T	5	233	<MDA
Main Lab B, View T	6	210	<MDA
Main Lab B, View T	7	256	<MDA
Main Lab B, View T	8	249	<MDA
Main Lab B, View U	1	183	<MDA
Main Lab B, View U	2	188	<MDA
Main Lab B, View U	3	181	<MDA
Main Lab B, View U	4	181	<MDA
Main Lab B, View U	5	200	<MDA
Main Lab B, View U	6	203	<MDA
Main Lab B, View U	7	233	<MDA
Main Lab B, View U	8	240	<MDA
Main Lab B, View U	9	244	<MDA
Main Lab B, View U	10	242	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/3/04

MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View V	1	179	<MDA
Main Lab B, View V	2	191	<MDA
Main Lab B, View V	3	188	<MDA
Main Lab B, View V	4	187	<MDA
Main Lab B, View V	5	203	<MDA
Main Lab B, View V	6	201	<MDA
Main Lab B, View V	7	235	<MDA
Main Lab B, View V	8	240	<MDA
Main Lab B, View V	9	231	<MDA
Main Lab B, View V	10	Not taken	
Main Lab B, View W	1	181	<MDA
Main Lab B, View W	2	188	<MDA
Main Lab B, View W	3	184	<MDA
Main Lab B, View W	4	184	<MDA
Main Lab B, View W	5	216	<MDA
Main Lab B, View W	6	230	<MDA
Main Lab B, View X	1	177	<MDA
Main Lab B, View X	2	181	<MDA
Main Lab B, View X	3	183	<MDA
Main Lab B, View X	4	180	<MDA
Main Lab B, View X	5	205	<MDA
Main Lab B, View X	6	204	<MDA
Main Lab B, View X	7	210	<MDA
Main Lab B, View X	8	245	<MDA
Main Lab B, View X	9	201	<MDA
Main Lab B, View Y	1	181	<MDA
Main Lab B, View Y	2	182	<MDA
Main Lab B, View Y	3	183	<MDA
Main Lab B, View Y	4	178	<MDA
Main Lab B, View Y	5	181	<MDA
Main Lab B, View Y	6	181	<MDA
Main Lab B, View Y	7	209	<MDA
Main Lab B, View Y	8	208	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04

MDA = 531 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View Z	1	169	<MDA
Main Lab B, View Z	2	171	<MDA
Main Lab B, View Z	3	173	<MDA
Main Lab B, View Z	4	171	<MDA
Main Lab B, View Z	5	177	<MDA
Main Lab B, View Z	6	175	<MDA
Main Lab B, View Z	7	175	<MDA
Main Lab B, View Z	8	173	<MDA
Main Lab B, View Z	9	213	<MDA
Main Lab B, View Z	10	215	<MDA
Main Lab B, View Z	11	229	<MDA
Main Lab B, View Z	12	234	<MDA
Main Lab B, View Z	13	235	<MDA
Main Lab B, View Z	14	231	<MDA
Main Lab B, View Z	15	Not taken	
Main Lab B, View Z	16	201	<MDA
Main Lab B, View AA	1	177	<MDA
Main Lab B, View AA	2	175	<MDA
Main Lab B, View AA	3	197	<MDA
Main Lab B, View AA	4	175	<MDA
Main Lab B, View AA	5	201	<MDA
Main Lab B, View AA	6	195	<MDA
Main Lab B, View BB	1	182	<MDA
Main Lab B, View BB	2	180	<MDA
Main Lab B, View BB	3	180	<MDA
Main Lab B, View BB	4	177	<MDA
Main Lab B, View BB	5	199	<MDA
Main Lab B, View BB	6	197	<MDA
Main Lab B, View BB	7	237	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04 MDA = 531 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View CC	1	168	<MDA
Main Lab B, View CC	2	171	<MDA
Main Lab B, View CC	3	174	<MDA
Main Lab B, View CC	4	175	<MDA
Main Lab B, View CC	5	173	<MDA
Main Lab B, View CC	6	208	<MDA
Main Lab B, View CC	7	212	<MDA
Main Lab B, View CC	8	244	<MDA
Main Lab B, View CC	9	239	<MDA
Main Lab B, View DD	1	177	<MDA
Main Lab B, View DD	2	181	<MDA
Main Lab B, View DD	3	176	<MDA
Main Lab B, View DD	4	177	<MDA
Main Lab B, View DD	5	211	<MDA
Main Lab B, View DD	6	209	<MDA
Main Lab B, View DD	7	249	<MDA
Main Lab B, View EE	1	169	<MDA
Main Lab B, View EE	2	171	<MDA
Main Lab B, View EE	3	178	<MDA
Main Lab B, View EE	4	178	<MDA
Main Lab B, View EE	5	177	<MDA
Main Lab B, View EE	6	175	<MDA
Main Lab B, View EE	7	244	<MDA
Main Lab B, View EE	8	248	<MDA
Main Lab B, View EE	9	227	<MDA
Main Lab B, View EE	10	221	<MDA
Main Lab B, View EE	11	179	<MDA
Main Lab B, View FF	1	177	<MDA
Main Lab B, View FF	2	185	<MDA
Main Lab B, View FF	3	181	<MDA
Main Lab B, View FF	4	179	<MDA
Main Lab B, View FF	5	180	<MDA
Main Lab B, View FF	6	180	<MDA
Main Lab B, View FF	7	255	<MDA
Main Lab B, View FF	8	258	<MDA
Main Lab B, View FF	9	234	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04 MDA = 531 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View GG	1	180	<MDA
Main Lab B, View GG	2	178	<MDA
Main Lab B, View GG	3	176	<MDA
Main Lab B, View GG	4	177	<MDA
Main Lab B, View GG	5	230	<MDA
Main Lab B, View GG	6	228	<MDA
Main Lab B, View GG	7	227	<MDA
Main Lab B, View HH	1	183	<MDA
Main Lab B, View HH	2	182	<MDA
Main Lab B, View HH	3	179	<MDA
Main Lab B, View HH	4	182	<MDA
Main Lab B, View HH	5	183	<MDA
Main Lab B, View HH	6	178	<MDA
Main Lab B, View HH	7	175	<MDA
Main Lab B, View HH	8	179	<MDA
Main Lab B, View HH	9	251	<MDA
Main Lab B, View HH	10	247	<MDA
Main Lab B, View HH	11	222	<MDA
Main Lab B, View II	1	184	<MDA
Main Lab B, View II	2	182	<MDA
Main Lab B, View II	3	186	<MDA
Main Lab B, View II	4	185	<MDA
Main Lab B, View II	5	289	<MDA
Main Lab B, View II	6	272	<MDA
Main Lab B, View II	7	288	<MDA
Main Lab B, View II	8	277	<MDA
Main Lab B, View II	9	298	<MDA
Main Lab B, View II	10	281	<MDA
Main Lab B, View II	11	228	<MDA



Direct Measurements – Main Lab B

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04 MDA = 531 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Main Lab B, View JJ	1	188	<MDA
Main Lab B, View JJ	2	189	<MDA
Main Lab B, View JJ	3	182	<MDA
Main Lab B, View JJ	4	183	<MDA
Main Lab B, View JJ	5	296	<MDA
Main Lab B, View JJ	6	292	<MDA
Main Lab B, View JJ	7	288	<MDA
Main Lab B, View JJ	8	290	<MDA
Main Lab B, View JJ	9	295	<MDA
Main Lab B, View JJ	10	277	<MDA
Main Lab B, View JJ	11	271	<MDA
Main Lab B, View JJ	12	228	<MDA
Main Lab B, View JJ	13	231	<MDA
Main Lab B, View KK	1	179	<MDA
Main Lab B, View KK	2	181	<MDA
Main Lab B, View KK	3	181	<MDA
Main Lab B, View KK	4	179	<MDA
Main Lab B, View KK	5	178	<MDA
Main Lab B, View KK	6	210	<MDA
Main Lab B, View KK	7	207	<MDA
Main Lab B, View KK	1	169	<MDA
Main Lab B, View KK	2	171	<MDA
Main Lab B, View KK	3	171	<MDA
Main Lab B, View KK	4	171	<MDA
Main Lab B, View KK	5	232	<MDA
Main Lab B, View KK	6	229	<MDA



Direct Measurements – Waste Storage Shed

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04 MDA = 497 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Waste Shed	1	196	<MDA
Waste Shed	2	201	<MDA
Waste Shed	3	203	<MDA
Waste Shed	4	201	<MDA
Waste Shed	5	204	<MDA
Waste Shed	6	199	<MDA
Waste Shed	7	203	<MDA
Waste Shed	8	199	<MDA
Waste Shed	9	197	<MDA
Waste Shed	10	208	<MDA
Waste Shed	11	206	<MDA
Waste Shed	12	203	<MDA
Waste Shed	13	204	<MDA
Waste Shed	14	205	<MDA
Waste Shed	15	200	<MDA
Waste Shed	16	199	<MDA
Waste Shed	17	202	<MDA
Waste Shed	18	211	<MDA
Waste Shed	19	210	<MDA
Waste Shed	20	213	<MDA
Waste Shed	21	217	<MDA
Waste Shed	22	208	<MDA
Waste Shed	23	203	<MDA
Waste Shed	24	205	<MDA
Waste Shed	25	199	<MDA
Waste Shed	26	197	<MDA
Waste Shed	27	201	<MDA
Waste Shed	28	207	<MDA
Waste Shed	29	198	<MDA
Waste Shed	30	200	<MDA



**Antkowiak and Mahoney
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Appendix VII

Class II Type Surveys

Scalar Measurements



Direct Measurements – Animal Support Room

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04

MDA = 497 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Animal Support, View A	2	188	<MDA
Animal Support, View A	3	222	<MDA
Animal Support, View A	4	237	<MDA
Animal Support, View A	6	234	<MDA
Animal Support, View B	4	192	<MDA
Animal Support, View B	6	201	<MDA
Animal Support, View B	8	189	<MDA
Animal Support, View B	10	187	<MDA
Animal Support, View B	11	200	<MDA
Animal Support, View B	12	193	<MDA
Animal Support, View C	2	200	<MDA
Animal Support, View C	4	189	<MDA
Animal Support, View C	5-in drawer	193	<MDA
Animal Support, View C	8	202	<MDA
Animal Support, View C	10	212	<MDA
Animal Support, View C	11	234	<MDA
Animal Support, View C	13	241	<MDA
Animal Support, View D	2	219	<MDA
Animal Support, View D	4	212	<MDA
Animal Support, View D	7	222	<MDA
Animal Support, View D	9	199	<MDA
Animal Support, View D	11	209	<MDA
Animal Support, View D	13	210	<MDA
Animal Support, View E	2	226	<MDA
Animal Support, View E	5	221	<MDA
Animal Support, View E	8	247	<MDA
Animal Support, View E	9	212	<MDA
Animal Support, View E	10	231	<MDA
Animal Support, View F	3	216	<MDA
Animal Support, View F	5	211	<MDA



Direct Measurements – Animal Support Room

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04

MDA = 497 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Animal Support, View G	1	200	<MDA
Animal Support, View G	5	230	<MDA
Animal Support, View G	7	234	<MDA
Animal Support, View G	9	198	<MDA
Animal Support, View H	2	185	<MDA
Animal Support, View H	3	189	<MDA
Animal Support, View H	6	183	<MDA
Animal Support, View H	8	239	<MDA
Animal Support, View H	10	221	<MDA
Animal Support, View H	11	219	<MDA
Animal Support, View I	1	225	<MDA
Animal Support, View I	4	231	<MDA
Animal Support, View I	6	234	<MDA
Animal Support, View I	8	230	<MDA
Animal Support, View I	11	203	<MDA
Animal Support, View J	2	212	<MDA
Animal Support, View J	4	209	<MDA
Animal Support, View J	6	239	<MDA
Animal Support, View K	1	239	<MDA
Animal Support, View K	3	242	<MDA
Animal Support, View K	7	188	<MDA
Animal Support, View K	10	211	<MDA
Animal Support, View L	1	193	<MDA
Animal Support, View L	5	210	<MDA
Animal Support, View L	8	218	<MDA
Animal Support, View L	1	189	<MDA
Animal Support, View L	4	192	<MDA
Animal Support, View L	5	187	<MDA



Direct Measurements – Cold Room, Lab Hall, & Instrument Hall

Ludlum Model 12, serial no. 193772 Surveyed: 12/17/04 MDA = 522 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Cold Room, View A	1	222	<MDA
Cold Room, View A	2	227	<MDA
Cold Room, View A	4	210	<MDA
Cold Room, View A	5	212	<MDA
Cold Room, View B	2	224	<MDA
Cold Room, View B	3	219	<MDA
Cold Room, View C	2	224	<MDA
Cold Room, View C	4	221	<MDA
Cold Room, View C	6	217	<MDA
Cold Room, View C	8	222	<MDA
Lab Hall, View A	1	201	<MDA
Lab Hall, View A	2	207	<MDA
Lab Hall, View A	4	221	<MDA
Lab Hall, View B	2	226	<MDA
Lab Hall, View B	3	199	<MDA
Lab Hall, View B	4	224	<MDA
Lab Hall, View C	1	201	<MDA
Lab Hall, View C	2	207	<MDA
Lab Hall, View C	4	221	<MDA
Lab Hall, View C	7	209	<MDA
Instrument Hall, View A	1	214	<MDA
Instrument Hall, View A	3	217	<MDA
Instrument Hall, View A	6	211	<MDA
Instrument Hall, View A	7	199	<MDA
Instrument Hall, View A	8	224	<MDA
Instrument Hall, View B	2	217	<MDA
Instrument Hall, View B	4	216	<MDA
Instrument Hall, View B	7	201	<MDA
Instrument Hall, View B	8	221	<MDA
Instrument Hall, View C	1	203	<MDA
Instrument Hall, View C	2	199	<MDA
Instrument Hall, View C	4	219	<MDA
Instrument Hall, View C	5	221	<MDA



Direct Measurements – Lab Prep Room & Stock Room

Ludlum Model 12, serial no. 193772 Surveyed: 9/17/04 MDA = 524 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Lab Prep, View A	1	223	<MDA
Lab Prep, View A	2	226	<MDA
Lab Prep, View A	3	231	<MDA
Lab Prep, View A	4	211	<MDA
Lab Prep, View A	5	219	<MDA
Lab Prep, View A	6	222	<MDA
Lab Prep, View A	7	220	<MDA
Lab Prep, View B	1	227	<MDA
Lab Prep, View B	3	221	<MDA
Lab Prep, View B	5	233	<MDA
Lab Prep, View B	7	199	<MDA
Lab Prep, View C	1	220	<MDA
Lab Prep, View C	3	209	<MDA
Lab Prep, View C	5	200	<MDA
Lab Prep, View D	1	218	<MDA
Lab Prep, View D	2	227	<MDA
Lab Prep, View D	4	222	<MDA
Lab Prep, View D	6	211	<MDA
Lab Prep, View E	1	209	<MDA
Lab Prep, View E	4	211	<MDA
Lab Prep, View E	7	208	<MDA
Lab Prep, View E	8	208	<MDA
Lab Prep, View E	10	209	<MDA
Stock Room	2	221	<MDA
Stock Room	3	222	<MDA
Stock Room	5	217	<MDA
Stock Room	7	217	<MDA
Stock Room	8	219	<MDA
Stock Room	9	211	<MDA
Stock Room	10	224	<MDA



Direct Measurements – Tissue Culture Room (Views A through G)

Ludlum Model 12, serial no. 193772 Surveyed: 9/17/04 MDA = 524 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Tissue Culture, View A	1	200	<MDA
Tissue Culture, View A	2	208	<MDA
Tissue Culture, View A	3	211	<MDA
Tissue Culture, View A	4	210	<MDA
Tissue Culture, View A	5	217	<MDA
Tissue Culture, View A	6	222	<MDA
Tissue Culture, View B	2	190	<MDA
Tissue Culture, View B	4	233	<MDA
Tissue Culture, View B	6	211	<MDA
Tissue Culture, View B	9	255	<MDA
Tissue Culture, View B	10	224	<MDA
Tissue Culture, View C	1	241	<MDA
Tissue Culture, View C	2	228	<MDA
Tissue Culture, View C	3	197	<MDA
Tissue Culture, View C	5	230	<MDA
Tissue Culture, View C	8	219	<MDA
Tissue Culture, View D	2	191	<MDA
Tissue Culture, View D	4	189	<MDA
Tissue Culture, View E	3	242	<MDA
Tissue Culture, View E	4	215	<MDA
Tissue Culture, View F	1	229	<MDA
Tissue Culture, View F	2	233	<MDA
Tissue Culture, View F	3	233	<MDA
Tissue Culture, View F	4	235	<MDA
Tissue Culture, View F	5	228	<MDA
Tissue Culture, View F	7	224	<MDA
Tissue Culture, View F	8	209	<MDA
Tissue Culture, View F	11	198	<MDA
Tissue Culture, View F	12	212	<MDA
Tissue Culture, View G	1	196	<MDA
Tissue Culture, View G	4	189	<MDA
Tissue Culture, View G	5	221	<MDA
Tissue Culture, View G	7	244	<MDA
Tissue Culture, View G	9	223	<MDA
Tissue Culture, View G	10	200	<MDA



Direct Measurements – Tissue Culture Room (Views H & I) & Room 316
(Views A through D)

Ludlum Model 12, serial no. 193772 Surveyed: 9/17/04 MDA = 524 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Tissue Culture, View H	2	192	<MDA
Tissue Culture, View H	4	197	<MDA
Tissue Culture, View H	5	196	<MDA
Tissue Culture, View H	8	233	<MDA
Tissue Culture, View H	9	241	<MDA
Tissue Culture, View H	11	194	<MDA
Tissue Culture, View H	13	218	<MDA
Tissue Culture, View I	1	198	<MDA
Tissue Culture, View I	4	189	<MDA
Tissue Culture, View I	6	188	<MDA
Tissue Culture, View I	8	191	<MDA
Tissue Culture, View I	10	196	<MDA
Room 316, View A	1	188	<MDA
Room 316, View A	4	191	<MDA
Room 316, View A	6	189	<MDA
Room 316, View A	7	187	<MDA
Room 316, View A	9	227	<MDA
Room 316, View A	11	219	<MDA
Room 316, View A	12	221	<MDA
Room 316, View B	2	192	<MDA
Room 316, View B	5	189	<MDA
Room 316, View B	6	189	<MDA
Room 316, View C	2	209	<MDA
Room 316, View C	3	199	<MDA
Room 316, View C	5	201	<MDA
Room 316, View C	8	211	<MDA
Room 316, View C	9	219	<MDA
Room 316, View D	1	187	<MDA
Room 316, View D	4	191	<MDA
Room 316, View D	6	207	<MDA
Room 316, View D	2	193	<MDA
Room 316, View D	5	193	<MDA
Room 316, View D	6	196	<MDA



Direct Measurements – Room 316 (Hoods), Room 218 & Room 233

Ludlum Model 12, serial no. 193772 Surveyed: 9/17/04 MDA = 524 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Room 316, Hood #1	1	227	<MDA
Room 316, Hood #1	2	223	<MDA
Room 316, Hood #1	3	231	<MDA
Room 316, Hood #1	4	232	<MDA
Room 316, Hood #1	5	231	<MDA
Room 316, Hood #1	6	232	<MDA
Room 316, Hood #1	9	208	<MDA
Room 316, Hood #2	1	225	<MDA
Room 316, Hood #2	2	224	#DIV/0!
Room 316, Hood #2	3	224	<MDA
Room 316, Hood #2	4	224	<MDA
Room 316, Hood #2	5	229	<MDA
Room 316, Hood #2	6	227	<MDA
Room 316, Hood #2	9	211	<MDA
Room 218, View A	2	189	<MDA
Room 218, View A	5	192	<MDA
Room 218, View A	6	188	<MDA
Room 218, View A	7	184	<MDA
Room 218, View A	8	183	<MDA
Room 218, View A	9	188	<MDA
Room 218, View B	1	183	<MDA
Room 218, View B	2	188	<MDA
Room 233, View A	1	179	<MDA
Room 233, View A	2	181	<MDA
Room 233, View A	3	183	<MDA
Room 233, View A	6	184	<MDA
Room 233, View A	7	183	<MDA
Room 233, View A	1	182	<MDA
Room 233, View A	2	181	<MDA
Room 233, View A	4	185	<MDA
Room 233, View A	5	186	<MDA



Direct Measurements – Room 228 & Room 229

Ludlum Model 12, serial no. 193772 Surveyed: 9/30/04

MDA = 520 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Room 228, View A	1	198	<MDA
Room 228, View A	3	210	<MDA
Room 228, View A	4	208	<MDA
Room 228, View A	6	209	<MDA
Room 228, View A	8	211	<MDA
Room 228, View A	10	212	<MDA
Room 228, View B	2	189	<MDA
Room 228, View B	4	187	<MDA
Room 228, View B	7	196	<MDA
Room 228, View C	1	191	<MDA
Room 228, View C	6	188	<MDA
Room 228, View C	7	188	<MDA
Room 228, View D	2	192	<MDA
Room 228, View D	5	187	<MDA
Room 228, View D	6	188	<MDA
Room 228, View E	1	196	<MDA
Room 228, View E	2	228	<MDA
Room 228, View E	4	201	<MDA
Room 228, View E	6	233	<MDA
Room 228, View D	1	194	<MDA
Room 228, View D	4	184	<MDA
Room 228, View D	5	187	<MDA
Room 228, View A	1	193	<MDA
Room 228, View A	2	199	<MDA
Room 228, View A	4	203	<MDA
Room 228, View A	6	201	<MDA
Room 228, View A	7	198	<MDA
Room 228, View A	1	228	<MDA
Room 228, View A	3	201	<MDA
Room 228, View A	6	203	<MDA
Room 228, View A	8	202	<MDA
Room 228, View A	10	202	<MDA



Direct Measurements – Room 225 & 226

Ludlum Model 12, serial no. 193772 Surveyed: 9/30/04 MDA = 520 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Room 225 & 226, View A	1	230	<MDA
Room 225 & 226, View A	2	227	<MDA
Room 225 & 226, View A	3	202	<MDA
Room 225 & 226, View A	6	205	<MDA
Room 225 & 226, View A	8	224	<MDA
Room 225 & 226, View B	2	211	<MDA
Room 225 & 226, View B	3	198	<MDA
Room 225 & 226, View B	6	192	<MDA
Room 225 & 226, View B	7	226	<MDA
Room 225 & 226, View B	9	235	<MDA
Room 225 & 226, View B	11	208	<MDA
Room 225 & 226, View C	2	198	<MDA
Room 225 & 226, View C	4	196	<MDA
Room 225 & 226, View C	5	196	<MDA
Room 225 & 226, View D	3	199	<MDA
Room 225 & 226, View D	4	202	<MDA
Room 225 & 226, View E	2	198	<MDA
Room 225 & 226, View E	5	203	<MDA
Room 225 & 226, View E	7	204	<MDA
Room 225 & 226, View E	8	203	<MDA
Room 225 & 226, View E	9	199	<MDA
Room 225 & 226, View F	1	219	<MDA
Room 225 & 226, View F	4	216	<MDA
Room 225 & 226, View F	7	216	<MDA
Room 225 & 226, View F	10	208	<MDA
Room 225 & 226, View F	1	207	<MDA
Room 225 & 226, View F	3	203	<MDA
Room 225 & 226, View F	4	211	<MDA



Direct Measurements – Room 231 & 232; Room 241 (View A)

Ludlum Model 12, serial no. 193772 Surveyed: 9/30/04 MDA = 520 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Room 231 & 232, View A	1	203	<MDA
Room 231 & 232, View A	4	200	<MDA
Room 231 & 232, View A	6	206	<MDA
Room 231 & 232, View A	8	206	<MDA
Room 231 & 232, View B	2	207	<MDA
Room 231 & 232, View B	4	201	<MDA
Room 231 & 232, View B	6	198	<MDA
Room 231 & 232, View C	1	211	<MDA
Room 231 & 232, View C	5	214	<MDA
Room 231 & 232, View C	7	208	<MDA
Room 231 & 232, View C	9	208	<MDA
Room 231 & 232, View D	2	197	<MDA
Room 231 & 232, View D	3	193	<MDA
Room 231 & 232, View D	6	197	<MDA
Room 231 & 232, View D	7	234	<MDA
Room 231 & 232, View D	9	229	<MDA
Room 231 & 232, View D	10	218	<MDA
Room 231 & 232, View E	2	194	<MDA
Room 231 & 232, View E	3	197	<MDA
Room 231 & 232, View E	6	214	<MDA
Room 231 & 232, View F	1	198	<MDA
Room 231 & 232, View F	2	189	<MDA
Room 231 & 232, View F	3	193	<MDA
Room 231 & 232, View F	4	200	<MDA
Room 241, View A	1	219	<MDA
Room 241, View A	4	215	<MDA
Room 241, View A	7	221	<MDA
Room 241, View A	9	221	<MDA
Room 241, View A	10	219	<MDA
Room 241, View A	12	217	<MDA
Room 241, View A	13	224	<MDA



Direct Measurements –Room 241 (Views B & C); Room 242

Ludlum Model 12, serial no. 193772 Surveyed: 9/30/04 MDA = 520 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Room 241, View B	3	193	<MDA
Room 241, View B	4	198	<MDA
Room 241, View B	5	218	<MDA
Room 241, View B	6	211	<MDA
Room 241, View B	7	224	<MDA
Room 241, View C	1	220	<MDA
Room 241, View C	2	195	<MDA
Room 241, View C	5	222	<MDA
Room 241, View C	6	227	<MDA
Room 242, View A	1	227	<MDA
Room 242, View A	3	221	<MDA
Room 242, View A	5	219	<MDA
Room 242, View A	7	221	<MDA
Room 242, View A	9	223	<MDA
Room 242, View B	2	193	<MDA
Room 242, View B	4	189	<MDA
Room 242, View B	5	223	<MDA
Room 242, View B	6	215	<MDA
Room 242, View B	8	227	<MDA
Room 242, View B	1	193	<MDA
Room 242, View B	2	226	<MDA
Room 242, View B	3	197	<MDA
Room 242, View B	4	229	<MDA
Room 242, View B	5	228	<MDA



**Antkowiak and Mahoney
Enterprises, Inc.**

Appendix VIII

Class III Type Surveys

Scalar Measurements



Direct Measurements – Class III Halls

Ludlum Model 12, serial no. 193772 Surveyed: 9/30/04 MDA = 520 dpm/100 cm²

Location	Smear Number	Reading (cpm)	Activity (dpm/100 cm ²)
Vivarium Hall, View A	1	188	<MDA
Vivarium Hall, View A	2	192	<MDA
Vivarium Hall, View A	3	193	<MDA
Vivarium Hall, View B	1	194	<MDA
Vivarium Hall, View B	2	200	<MDA
Vivarium Hall, View B	3	199	<MDA
Hall Back of Main Lab C-Rt	1	210	<MDA
Hall Back of Main Lab C-Rt	2	214	<MDA
Hall Back of Main Lab C-Rt	3	221	<MDA
Hall Back of Main Lab C-Rt	4	219	<MDA
Hall Back of Main Lab C-Rt	5	221	<MDA
Hall Back of Main Lab C-L	1	218	<MDA
Hall Back of Main Lab C-L	2	211	<MDA
Hall Back of Main Lab C-L	3	217	<MDA
Hall Back of Main Lab C-L	4	220	<MDA
Hall by Room 316	1	222	<MDA
Hall by Room 316	2	218	<MDA
Hall by Room 316	3	217	<MDA
Hall Front of Main Lab C	1	222	<MDA
Hall Front of Main Lab C	2	218	<MDA
Hall Front of Main Lab B	1	218	<MDA
Hall Front of Main Lab B	2	221	<MDA
Hall Front of Main Lab B	3	218	<MDA



**Antkowiak and Mahoney
Enterprises, Inc.**

Appendix IX

Pre-decontamination Status of Rooms

Room: Annex I, View B

Name:

Notes:

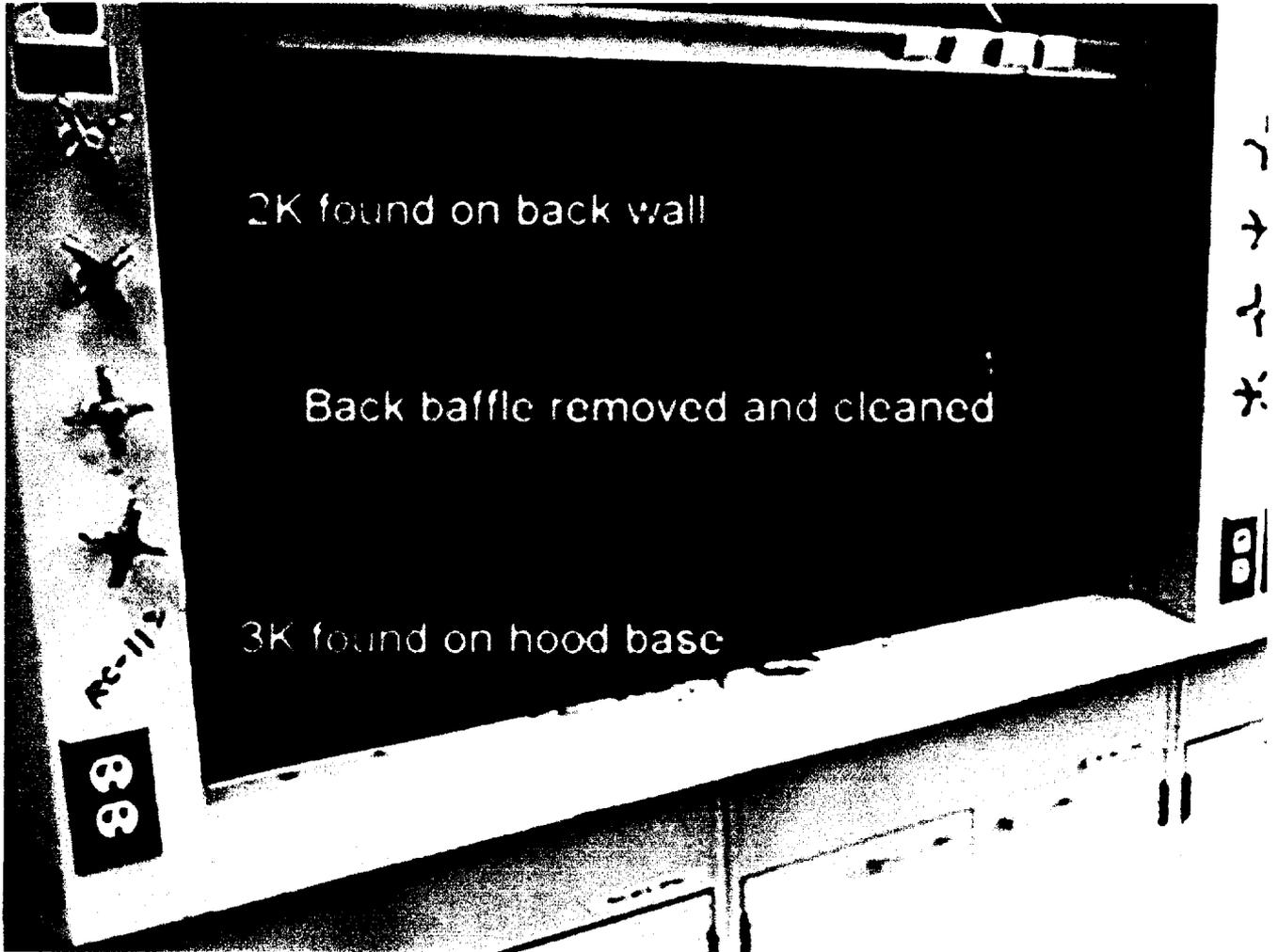


Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA	11	<MDA	<MDA	<MDA
2	<MDA	<MDA	<MDA				
3	<MDA	<MDA	<MDA				
4	<MDA	<MDA	<MDA				
5	<MDA	<MDA	<MDA				
6	<MDA	<MDA	<MDA				
7	<MDA	<MDA	<MDA				
8	<MDA	<MDA	<MDA				
9	<MDA	<MDA	<MDA				
10	1495	<MDA	<MDA				

Room: Main Lab B from View JJ

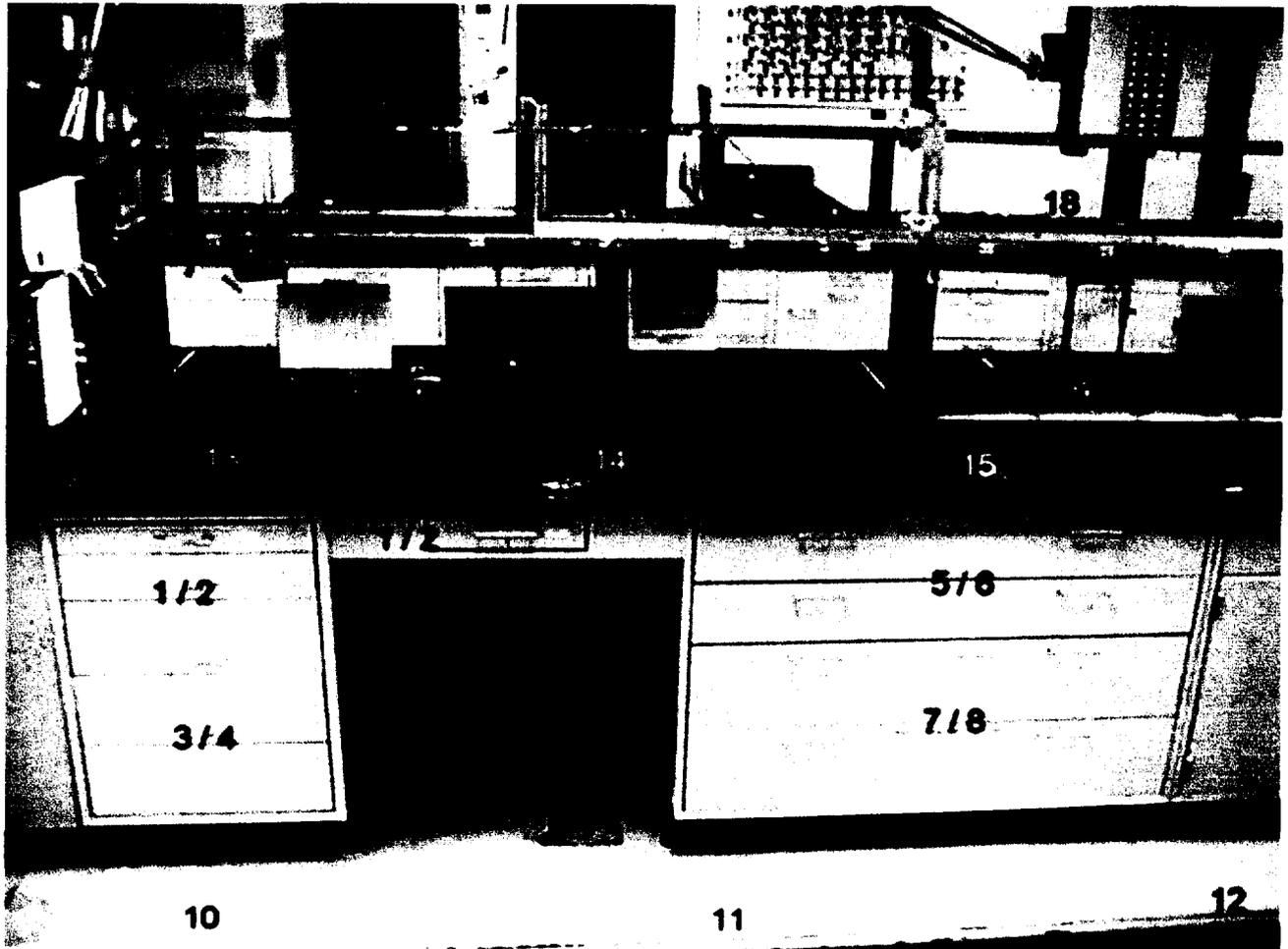




Room: Main Lab C, View CC

Name:

Notes:



Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA	11	<MDA	<MDA	<MDA
2	1967	<MDA	<MDA	12	<MDA	<MDA	<MDA
3	<MDA	<MDA	<MDA	13	<MDA	<MDA	<MDA
4	<MDA	<MDA	<MDA	14	<MDA	<MDA	<MDA
5	<MDA	<MDA	<MDA	15	<MDA	<MDA	<MDA
6	<MDA	<MDA	<MDA				
7	<MDA	<MDA	<MDA				
8	<MDA	<MDA	<MDA				
9	<MDA	<MDA	<MDA				
10	<MDA	<MDA	<MDA				

Room: Main Lab C, View FF

Name:

Notes:



Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA	11	<MDA	<MDA	<MDA
2	<MDA	<MDA	<MDA	12	<MDA	<MDA	<MDA
3	<MDA	<MDA	<MDA				
4	134	<MDA	<MDA				
5	<MDA	<MDA	<MDA				
6	<MDA	<MDA	<MDA				
7	<MDA	<MDA	<MDA				
8	<MDA	<MDA	<MDA				
9	<MDA	<MDA	<MDA				
10	<MDA	<MDA	<MDA				

Room: Main Lab C, View GG

Name:

Notes:



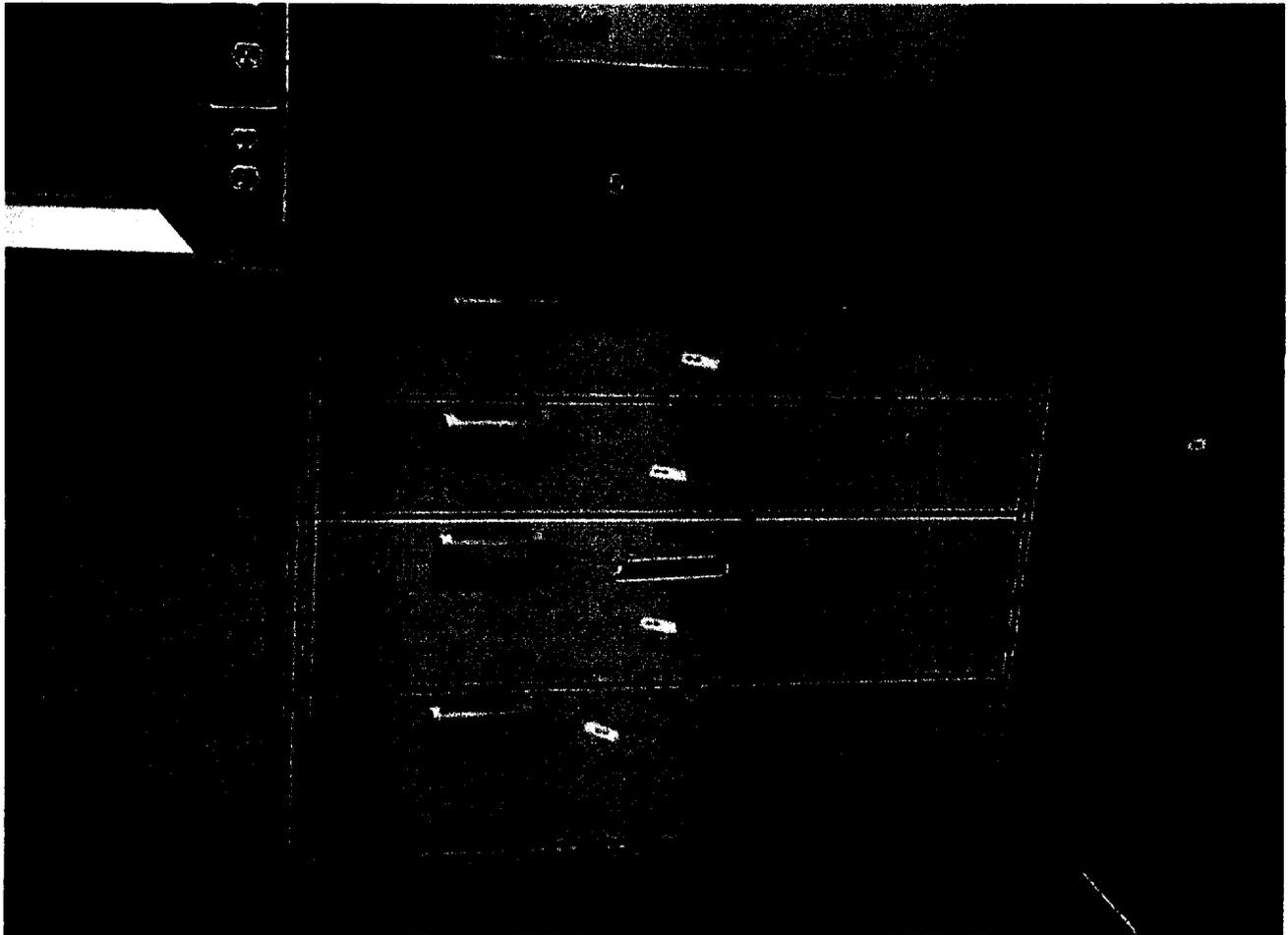
Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA				
2	<MDA	<MDA	<MDA				
3	<MDA	<MDA	<MDA				
4	<MDA	<MDA	<MDA				
5	<MDA	<MDA	<MDA				
6	<MDA	<MDA	<MDA				
7	<MDA	<MDA	<MDA				
8	<MDA	<MDA	<MDA				
9	981	<MDA	<MDA				
10	<MDA	<MDA	<MDA				

Room: Organic Lab 1, View G

Name:

Notes:



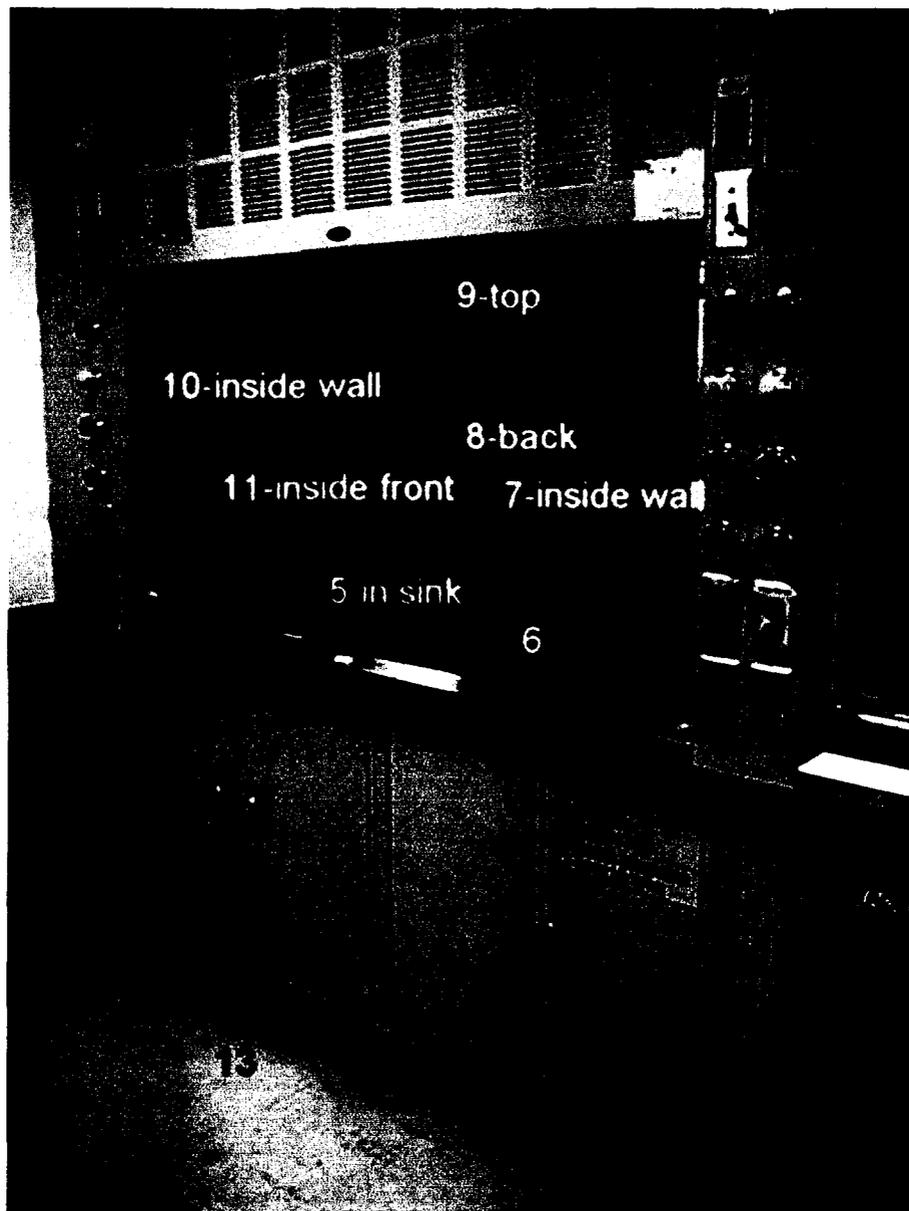
Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA				
2	<MDA	<MDA	<MDA				
3	<MDA	<MDA	<MDA				
4	123	<MDA	<MDA				
5	<MDA	<MDA	<MDA				
6	<MDA	<MDA	<MDA				

Room: Organic Lab 2, View H

Name:

Notes:



Smear Analysis Results - Analysis by Liquid Scintillation Counting

Smear ID	Channel 1	Channel 2	Channel 3	Smear ID	Channel 1	Channel 2	Channel 3
1	<MDA	<MDA	<MDA	11	<MDA	<MDA	<MDA
2	<MDA	<MDA	<MDA	12	<MDA	<MDA	<MDA
3	<MDA	<MDA	<MDA	13	<MDA	<MDA	<MDA
4	<MDA	<MDA	<MDA				
5	117	<MDA	<MDA				
6	<MDA	<MDA	<MDA				
7	<MDA	<MDA	<MDA				
8	<MDA	<MDA	<MDA				
9	<MDA	<MDA	<MDA				
10	<MDA	<MDA	<MDA				



**Antkowiak and Mahoney
Enterprises, Inc.**

Appendix X
Calibration Certificates

Certificate of Calibration



Antkowiak and Mahoney
Enterprises, Inc.

3 Valley Court
Chester, NY 10918

Company Antkowiak & Mahoney Enterprises

Certificate Number: 421

Manufacturer Ludlum

Model 12

Serial Number 195030

Probe Model 43-68

Serial Number PR178507

Calibration Type Linearity and Efficiency Check

Calibration Geometry 2 Pi

Battery Check Pass

High Voltage 1700 v

Background Reading 300 cpm

Pulse Generator: Ludlum Model 500, serial number 189500, calibrated August 27, 2004

Scale	Calibration Point (cpm)	As Found (cpm)	Meter Reading (cpm)	Correction Factor
x100	340,000	340,000	340,000	N/A
x100	170,000	170,000	170,000	N/A
x10	34,000	34,000	34,000	N/A
x10	17,000	17,000	17,000	N/A
x1	3,400	3,400	3,400	N/A
x1	1,700	1,700	1,700	N/A
x0.1	340	340	340	N/A
x0.1	170	170	170	N/A

Source Isotope	Source Activity	Source Serial Number	Source Reading	Efficiency
Carbon-14	1.793 kBq	1010-66-2	15,000	0.137
Silicon-32	1.870 kBq	1010-66-3	45,000	0.401

Calibrated by Joel Antkowiak

Calibration Date July 21, 2004

Approved by 

Approval Date REISSUE 1/31/05

Comments

Certificate of Calibration



Antkowiak and Mahoney
Enterprises, Inc.

3 Valley Court
Chester, NY 10918

Company Antkowiak & Mahoney Enterprises

Certificate Number: 420

Manufacturer Ludlum

Model 12

Serial Number 193772

Probe Model 43-68

Serial Number PR178433

Calibration Type Linearity and Efficiency Check

Calibration Geometry 2 Pi

Battery Check Pass

High Voltage 1600 v

Background Reading 250 cpm

Pulse Generator: Ludlum Model 500, serial number 189500, calibrated August 27, 2004

Scale	Calibration Point (cpm)	As Found (cpm)	Meter Reading (cpm)	Correction Factor
x100	340,000	pegged	340,000	N/A
x100	170,000	340,000	170,000	N/A
x10	34,000	35,000	34,000	N/A
x10	17,000	18,000	17,000	N/A
x1	3,400	3,800	3,400	N/A
x1	1,700	2,100	1,700	N/A
x0.1	340	pegged	340	N/A
x0.1	170	500	170	N/A

Source Isotope	Source Activity	Source Serial Number	Source Reading	Efficiency
Carbon-14	1.793 kBq	1010-66-2	15,000	0.137
Silicon-32	1.870 kBq	1010-66-3	42,000	0.374

Calibrated by Joel Antkowiak

Calibration Date July 21, 2004

Approved by *Joel Antkowiak*

Approval Date RS-15502 11/3/05

Comments Do not use on x1 scale.

Certificate of Calibration



Antkowiak and Mahoney
Enterprises, Inc.

Company Antkowiak & Mahoney Enterprises

Certificate Number: AME 420 B

Manufacturer Ludlum

Model 12

Serial Number 193772

Probe Model 43-37-1

Serial Number PR136363

Calibration Type Linearity and Efficiency Check

Calibration Geometry 2 Pi

Battery Check Pass

High Voltage 1600 v

Background Reading 250 cpm

Pulse Generator: Ludlum Model 500, serial number 189500, calibrated August 27, 2004

Scale	Calibration Point (cpm)	As Found (cpm)	Meter Reading (cpm)	Correction Factor
x100	340,000	pegged	340,000	N/A
x100	170,000	340,000	170,000	N/A
x10	34,000	35,000	34,000	N/A
x10	17,000	18,000	17,000	N/A
x1	3,400	3,800	3,400	N/A
x1	1,700	2,100	1,700	N/A
x0.1	340	pegged	340	N/A
x0.1	170	500	170	N/A

Source Isotope	Source Activity	Source Serial Number	Source Reading	Efficiency
Carbon-14	1.793 kBq	1010-66-2	13,000	0.119
Silicon-32	1.870 kBq	1010-66-3	32,000	0.285

Calibrated by Robert Mahoney

Calibration Date October 21, 2004

Approved by 

Approval Date October 21, 2004

Comments Ludlum floor monitor Model 239-1F

Certificate of Calibration



Antkowiak and Mahoney
Enterprises, Inc.

Company Antkowiak & Mahoney Enterprises **Certificate Number:** AMEIH 002

Manufacturer Keithley

Model 36155 **Serial Number** 36025

Probe Model Ion chamber **Serial Number** N/A

Calibration Type Dose Rate **Calibration Geometry** Parallel

Background Reading 0 **Battery Check** Pass

Scale	Calibration Point (mR/hr)	As Found (mR/hr)	Meter Reading (mR/hr)	Correction Factor
2R	593	568	540	N/A
2R	392	380	355	N/A
200 mR	107	112	97	N/A
200 mR	44.5	49.0	41.5	N/A
20 mR	15.9	19.0	16.9	N/A
20 mR	8.43	11.0	9.0	N/A

Calibrated using a JL Shepherd model 28-5A beam calibrator serial number 10270.
Cesium-137, 120 mCi, serial number 7881-GF.

Calibrated by Joel Antkowiak

Calibration Date 3/23/2004

Approved by 

Approval Date 3/23/2004

Comments

RE-15605
1/31/05