

4. Wall insulation located in the 2<sup>nd</sup> floor Boiler Room area of the facility was found to contain up to 65% Chrysotile asbestos. This material was in fair to good condition. No disturbance of this material should be allowed.
5. 12"x12" Beige and 12"x12" White/Brown floor tile was found to contain up to 5% Chrysotile asbestos. The material was in good condition.
6. 9"x9" Green floor tile was found to contain up to 5% Chrysotile asbestos. The material was in good condition.
7. The floor tile mastic below the 12"x12" Beige, 12"x12" White/Brown, and 9"x9" Green floor tile was found to contain up to 10% Chrysotile asbestos. All material was found to be in good condition.

*It should be noted that some of the identified ACM is friable.*

Results of the 2001 survey for Building 7 are included in the following table.

### 2001 Asbestos Survey Results – Building 7

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
01	9" x 9" Green Floor Tile	No	Fair	Building 7 outside Breakroom	5% Chrysotile
02	9" x 9" Green Floor Tile	No	Fair	Building 7 outside Breakroom	5% Chrysotile
03	9" x 9" Green Floor Tile	No	Fair	Building 7 outside Breakroom	5% Chrysotile
04	Black Floor Tile Mastic	No	Good	Building 7 under Floor Tile	5% Chrysotile
05	Black Floor Tile Mastic	No	Good	Building 7 under Floor Tile	5% Chrysotile
06	Black Floor Tile Mastic	No	Good	Building 7 under Floor Tile	5% Chrysotile
07	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
08	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
09	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
10	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
11	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
12	2' X 4' Ceiling Tile	Yes	Good	Building 7 Breakroom	NAD
13	2' X 4' Ceiling Tile, Smooth	Yes	Good	Building 7 Breakroom	NAD
14	2' X 4' Ceiling Tile, Smooth	Yes	Good	Building 7 Breakroom	NAD
15	2' X 4' Ceiling Tile, Smooth	Yes	Good	Building 7 Breakroom	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
16	Window Putty	No	Good	Building 7 Breakroom	NAD
17	Window Putty	No	Good	Building 7 Breakroom	NAD
18	Window Putty	No	Good	Building 7 Breakroom	NAD
19	Gray Cove Base	No	Good	Building 7 Breakroom	NAD
20	Gray Cove Base	No	Good	Building 7 Breakroom	NAD
21	Gray Cove Base	No	Good	Building 7 Breakroom	NAD
22	Cove Base Mastic	No	Good	Building 7 Breakroom	NAD
23	Cove Base Mastic	No	Good	Building 7 Breakroom	NAD
24	Cove Base Mastic	No	Good	Building 7 Breakroom	NAD
25	2' X 2' Ceiling Tile, White	Yes	Good	Building 7 Warehouse Office	NAD
26	2' X 2' Ceiling Tile, White	Yes	Good	Building 7 Warehouse Office	NAD
27	2' X 2' Ceiling Tile, White	Yes	Good	Building 7 Warehouse Office	NAD
28	2' X 2' Ceiling Tile, Smooth	Yes	Good	Building 7 Warehouse Office	NAD
29	2' X 2' Ceiling Tile, Smooth	Yes	Good	Building 7 Warehouse Office	NAD
30	2' X 2' Ceiling Tile, Smooth	Yes	Good	Building 7 Warehouse Office	NAD
31	12" X 12" White/brown Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
32	12" X 12" White/brown Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
33	12" X 12" White/brown Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
34	Black Mastic Under Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
35	Black Mastic Under Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
36	Black Mastic Under Floor Tile	No	Good	Building 7 Warehouse Office	5% Chrysotile
37	Brown CoveBase	No	Good	Building 7 Office	NAD
38	Brown CoveBase	No	Good	Building 7 Office	NAD
39	Brown CoveBase	No	Good	Building 7 Office	NAD
40	Brown CoveBase Mastic	No	Good	Building 7 Office	NAD
41	Brown CoveBase Mastic	No	Good	Building 7 Office	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
42	Brown CoveBase Mastic	No	Good	Building 7 Office	NAD
43	12" X 12" Gray Floor Tile	No	Good	Building 7 Office on top of Beige Floor Tile	NAD
44	12" X 12" Gray Floor Tile	No	Good	Building 7 Office on top of Beige Floor Tile	NAD
45	12" X 12" Gray Floor Tile	No	Good	Building 7 Office on top of Beige Floor Tile	NAD
46	Yellow Floor Tile Mastic	No	Good	Building 7 Office under gray floor tile	NAD
47	Yellow Floor Tile Mastic	No	Good	Building 7 Office under gray floor tile	NAD
48	Yellow Floor Tile Mastic	No	Good	Building 7 Office under gray floor tile	NAD
49	Beige 12"x12" Floor Tile	No	Good	Building 7 Office	5% Chrysotile
50	Beige 12"x12" Floor Tile	No	Good	Building 7 Office	5% Chrysotile
51	Beige 12"x12" Floor Tile	No	Good	Building 7 Office	5% Chrysotile
52	Black Mastic Under Beige Floor Tile	No	Good	Building 7 Office	10% Chrysotile
53	Black Mastic Under Beige Floor Tile	No	Good	Building 7 Office	10% Chrysotile
54	Black Mastic Under Beige Floor Tile	No	Good	Building 7 Office	10% Chrysotile
55	White 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
56	White 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
57	White 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
58	Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
59	Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
60	Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
61	Lightly Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
62	Lightly Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
63	Lightly Dappled 2' X 2' Ceiling Tile	Yes	Good	Building 7 Office	NAD
64	2' X 4' Ceiling Tile	Yes	Good	Building 7 Office, Computer Room	NAD
65	2' X 4' Ceiling Tile	Yes	Good	Building 7 Office, Computer Room	NAD
66	2' X 4' Ceiling Tile	Yes	Good	Building 7 Office, Computer Room	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
67	Joint Compound on Sheetrock	Yes	Good	Building 7 Office, Partition Walls throughout	3% Chrysotile
68	Joint Compound on Sheetrock	Yes	Good	Building 7 Office, Partition Walls throughout	3% Chrysotile
69	Joint Compound on Sheetrock	Yes	Good	Building 7 Office, Partition Walls throughout	3% Chrysotile
70	9" X 9" Green Floor Tile	No	Fair	2 <sup>nd</sup> Floor Area	5% Chrysotile
71	9" X 9" Green Floor Tile	No	Fair	2 <sup>nd</sup> Floor Area	5% Chrysotile
72	9" X 9" Green Floor Tile	No	Fair	2 <sup>nd</sup> Floor Area	5% Chrysotile
73	Mastic under Floor Tile	No	Good	Under 9" X 9" Green Floor Tile	10% Chrysotile
74	Mastic under Floor Tile	No	Good	Under 9" X 9" Green Floor Tile	10% Chrysotile
75	Mastic under Floor Tile	No	Good	Under 9" X 9" Green Floor Tile	10% Chrysotile
76	1' X 1' Ceiling Tile	Yes	Good	2 <sup>nd</sup> Floor Area	NAD
77	1' X 1' Ceiling Tile	Yes	Good	2 <sup>nd</sup> Floor Area	NAD
78	1' X 1' Ceiling Tile	Yes	Good	2 <sup>nd</sup> Floor Area	NAD
79	Brown Glue Dots above ceiling tile	No	Good	2 <sup>nd</sup> Floor Area	5% Chrysotile
80	Brown Glue Dots above ceiling tile	No	Good	2 <sup>nd</sup> Floor Area	5% Chrysotile
81	Brown Glue Dots above ceiling tile	No	Good	2 <sup>nd</sup> Floor Area	5% Chrysotile
82	Small Pipe Elbows	Yes	Good	Boiler Room	35% Chrysotile 5% Amosite
83	Small Pipe Elbows	Yes	Good	Boiler Room	35% Chrysotile 5% Amosite
84	Small Pipe Elbows	Yes	Good	Boiler Room	35% Chrysotile 10% Amosite
85	Small Pipe Insulation	Yes	Good	Boiler Room	10% Chrysotile
86	Small Pipe Insulation	Yes	Good	Boiler Room	10% Chrysotile
87	Small Pipe Insulation	Yes	Good	Boiler Room	20% Chrysotile
88	Boiler Jacket Insulation	Yes	Good	Boiler Room	10% Chrysotile 25% Amosite
89	Boiler Jacket Insulation	Yes	Good	Boiler Room	10% Chrysotile 25% Amosite
90	Boiler Jacket Insulation	Yes	Good	Boiler Room	10% Chrysotile 25% Amosite
91	Large Elbows	Yes	Good	Boiler Rooms	65% Chrysotile

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
92	Large Elbows	Yes	Good	Boiler Rooms	65%Chrysotile
93	Large Elbows	Yes	Good	Boiler Rooms	65%Chrysotile
94	Large Pipe Insulation	Yes	Good	Boiler Rooms	65%Chrysotile
95	Large Pipe Insulation	Yes	Good	Boiler Rooms	10%Chrysotile 20%Amosite
96	Large Pipe Insulation	Yes	Good	Boiler Rooms	10%Chrysotile 20%Amosite
97	Pipe Elbows and Tees	Yes	Good	Bathroom Pipe Chase	65% Chrysotile
98	Pipe Elbows and Tees	Yes	Good	Bathroom Pipe Chase	65% Chrysotile
99	Pipe Elbows and Tees	Yes	Good	Bathroom Pipe Chase	65% Chrysotile
100	Pipe Insulation	Yes	Good	Bathroom Pipe Chase	10%Chrysotile
101	Pipe Insulation	Yes	Good	Bathroom Pipe Chase	10%Chrysotile
102	Pipe Insulation	Yes	Good	Bathroom Pipe Chase	10%Chrysotile
103	Wall Insulation	Yes	Good	Boiler Rooms	65%Chrysotile
104	Wall Insulation	Yes	Good	Boiler Rooms	65%Chrysotile
105	Wall Insulation	Yes	Good	Boiler Rooms	65%Chrysotile
106	Mastic under Floor	No	Good	Computer Room	NAD
107	Mastic under Floor	No	Good	Computer Room	NAD
108	Mastic under Floor	No	Good	Computer Room	NAD
109	Mastic on Cork	No	Good	Boiler Room	NAD
110	Mastic on Cork	No	Good	Boiler Room	NAD
111	Mastic on Cork	No	Good	Boiler Room	NAD
112	Riser Insulation	Yes	Good	Office Area	20% Chrysotile 15% Amosite
113	Riser Insulation	Yes	Good	Office Area	20% Chrysotile 15% Amosite
114	Riser Insulation	Yes	Good	Office Area	20% Chrysotile 15% Amosite
115	Carpet Mastic	No	Good	Office Area	NAD
116	Carpet Mastic	No	Good	Office Area	NAD
117	Carpet Mastic	No	Good	Office Area	NAD
118	Pipe Insulation	Yes	Good	Ceiling Office Area	20% Chrysotile 10% Amosite
119	Pipe Insulation	Yes	Good	Ceiling Office Area	20% Chrysotile 10% Amosite
120	Pipe Insulation	Yes	Good	Ceiling Office Area	20% Chrysotile 10% Amosite
121	Tees and Elbows	Yes	Good	Ceiling Office Area	30% Chrysotile 10% Amosite
122	Tees and Elbows	Yes	Good	Ceiling Office Area	30% Chrysotile 10% Amosite

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
123	Tees and Elbows	Yes	Good	Ceiling Office Area	30% Chrysotile 15% Amosite
124	Pipe Insulation	Yes	Good	High, Warehouse Area	15% Chrysotile
125	Pipe Insulation	Yes	Good	High, Warehouse Area	10% Chrysotile
126	Pipe Insulation	Yes	Good	High, Warehouse Area	10% Chrysotile
127	Window Putty	No	Good	Warehouse	TR<1% Chrysotile
128	Window Putty	No	Good	Warehouse	NAD
129	Window Putty	No	Good	Warehouse	NAD
130	Plaster Skim Coat	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
131	Plaster Skim Coat	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
132	Plaster Skim Coat	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
133	Wall Plaster	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
134	Wall Plaster	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
135	Wall Plaster	No	Good	Office Area 2 <sup>nd</sup> Floor	NAD
136	Plaster Skim Coat	No	Good	Office Area	NAD
137	Plaster Skim Coat	No	Good	Office Area	NAD
138	Plaster Skim Coat	No	Good	Office Area	NAD
139	Wall Plaster	No	Good	Office Area	NAD
140	Wall Plaster	No	Good	Office Area	NAD
141	Wall Plaster	No	Good	Office Area	NAD

#### 4.1.2 2007 Survey – Building 7

At the time of this visual survey the southern section (unoccupied office space) of Building 7 was proposed for demolition; therefore, a visual survey of this area was not conducted. The northern section, which is used for warehousing of product, was surveyed on November 13, 2007. Piping runs from the south section to the north section do exist and have been identified as ACM. During the 2007 visual survey, all ACM identified in the warehouse side of Building 7 during the 2001 survey was visually inspected and found to be in good condition.

#### 4.1.3 2013 Survey – Building 7

On May 13, 2013 G7 performed a visual survey of the ACM in Building No. 7. No changes were found in the findings of the 2007 survey. Photographs of Building 7 are included in Appendix D.

#### 4.2 Building 10 – Forklift Maintenance/Emergency Generator

Building 10 is comprised of two (2) areas: (1) the North Bay area is used for forklift maintenance, and (2) the South bay is used to house an emergency generator. The

total area of Building 10 is approximately 6,600 square feet.

#### 4.2.1 2001 Survey – Building 10

Field observations and laboratory analysis indicated that all identified ACM was found in the south bay and included the following:

1. Some thermal system insulation (pipe insulation) was found to contain up to 4% Chrysotile asbestos and 5% Amosite asbestos. The material was found in good condition.
2. Cementitious fittings (elbows, tee's, and valves) were found to contain up to 3% Chrysotile asbestos and 4% Amosite asbestos. The material was found in good condition.
3. The 12"x12" Beige/Brown floor tile was found to contain 7% to 8% Chrysotile asbestos. The material was found in good condition.
4. The floor tile mastic below the 12"x12" Beige/Brown floor tile was found to contain 12% to 15% Chrysotile asbestos. All material was found to be in good condition.

The following table summarizes the samples taken and the results of the laboratory analysis.

#### 2001 Asbestos Survey Results – Building 10

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
01	2"x 4"Ceiling Tile	Yes	Good	Office Area, North Bay	NAD
01	2"x 4"Ceiling Tile	Yes	Good	Office Area, North Bay	NAD
01	2"x 4"Ceiling Tile	Yes	Good	Office Area, North Bay	NAD
04	12"X12"Floor Tile	No	Good	Office Area, North Bay	NAD
05	12"X12"Floor Tile	No	Good	Office Area, North Bay	NAD
06	12"X12"Floor Tile	No	Good	Office Area, North Bay	NAD
07	Floor Tile Mastic	Yes	Good	Office Area, North Bay	NAD
08	Floor Tile Mastic	Yes	Good	Office Area, North Bay	NAD
09	Floor Tile Mastic	Yes	Good	Office Area, North Bay	NAD
10	Large Pipe Elbow	Yes	Good	North Bay	2% Chrysotile, 4% Amosite
11	Large Pipe Elbow	Yes	Good	North Bay	2% Chrysotile, 3% Amosite

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
12	Large Pipe Elbow	Yes	Good	North Bay	3% Chrysotile, 3% Amosite
13	TSI Small Pipe	Yes	Good	North Bay	4% Chrysotile, site
14	TSI Small Pipe	Yes	Good	North Bay	2% Chrysotile, 3% Amosite
15	TSI Small Pipe	Yes	Good	North Bay	2% Chrysotile, 3% Amosite
16	TSI Small Elbow	Yes	Good	North Bay	3% Chrysotile, 3% Amosite
17	TSI Small Elbow	Yes	Good	North Bay	3% Chrysotile, 4% Amosite
18	TSI Small Elbow	Yes	Good	North Bay	3% Chrysotile, 2% Amosite
19	12"X 12" Brown Floor Tile	No	Good	Office Area	7% Chrysotile
20	Black Floor Tile Mastic	No	Good	Office Area	15% Chrysotile
21	12" X 12" Gray Floor Tile	No	Good	Office Area	8% Chrysotile
22	2'X2' Ceiling Tile	Yes	Good	Office Area	NAD
23	2'X2' Ceiling Tile	Yes	Good	Office Area	NAD
24	2'X2' Ceiling Tile	Yes	Good	Office Area	NAD
25	Carpet Mastic	Yes	Good	Southbay	NAD
26	Carpet Mastic	Yes	Good	Southbay	NAD
27	Carpet Mastic	Yes	Good	Southbay	NAD

#### 4.2.2 2007 Survey – Building 10

The North and South bays of Building 10 were visually surveyed on November 13, 2007. ACM that was identified in the 2001 survey appeared to be in the same condition during the 2007 visual survey.

#### 4.2.3 2013 Survey – Building 10

On May 13, 2013 G7 performed a visual survey of the ACM in Building No. 10. No changes were found in the findings of the 2007 survey.

#### 4.3 Building 1 – Administration and Distribution

Building 1 is the largest building at the Merck facility. The southernmost part of Building 1 is occupied by administration personnel and includes abandoned office space on the second floor; the northernmost part is currently used for distribution. In the past, the north part of Building 1 was used for manufacturing as well as



### 2001 Asbestos Survey Results – Building 1

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
01	Tank Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
02	Tank Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
03	Tank Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
04	Boiler Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
05	Boiler Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
06	Boiler Insulation	Yes	Good	Building 1 Distribution	85% Chrysotile
07	Large Elbows	Yes	Good	Building 1 Distribution	85% Chrysotile
08	Large Elbows	Yes	Good	Building 1 Distribution	85% Chrysotile
09	Large Elbows	Yes	Good	Building 1 Distribution	85% Chrysotile
10	Small Elbows	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
11	Small Elbows	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
12	Small Elbows	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
13	Small Pipe Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
14	Small Pipe Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
15	Small Pipe Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
16	Steam Tank Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
17	Steam Tank Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
18	Steam Tank Insulation	Yes	Good	Building 1 Distribution	20% Chrysotile 5% Amosite
19	Large Pipe Insulation	Yes	Good	Building 1 Distribution	15% Amosite
20	Large Pipe Insulation	Yes	Good	Building 1 Distribution	15% Amosite
21	Large Pipe Insulation	Yes	Good	Building 1 Distribution	15% Amosite
22	Duct Insulation	Yes	Good	Building 1 Distribution	70% Chrysotile
23	Duct Insulation	Yes	Good	Building 1 Distribution	70% Chrysotile
24	Duct Insulation	Yes	Good	Building 1 Distribution	70% Chrysotile
25	Boiler Insulation	Yes	Good	Building 1 Distribution	20% Amosite
26	Boiler Insulation	Yes	Good	Building 1 Distribution	20% Amosite
27	Boiler Insulation	Yes	Good	Building 1 Distribution	20% Amosite
28	Large Pipe Elbow Mud	Yes	Good	Building 1 Distribution	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
29	Large Pipe Elbow Mud	Yes	Good	Building 1 Distribution	NAD
30	Large Pipe Elbow Mud	Yes	Good	Building 1 Distribution	NAD
31	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
32	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
33	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
34	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
35	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
36	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
37	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
38	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
39	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
40	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
41	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
42	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
43	Cove Base Mastic	No	Good	Building 1 Administration	NAD
44	Cove Base Mastic	No	Good	Building 1 Administration	NAD
45	Cove Base Mastic	No	Good	Building 1 Administration	NAD
46	12" X 12" Floor Tile. Beige	No	Good	Building 1 Administration	5% Chrysotile
47	Black Floor Tile Mastic	No	Good	Building 1 Administration	10% Chrysotile
48	Cove Base Mastic	No	Good	Building 1 Administration	NAD
49	Cove Base Mastic	No	Good	Building 1 Administration	NAD
50	Cove Base Mastic	No	Good	Building 1 Administration	NAD
51	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
52	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
53	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
54	Carpet Mastic	No	Good	Building 1 Administration	NAD
55	Carpet Mastic	No	Good	Building 1 Administration	NAD
56	Carpet Mastic	No	Good	Building 1 Administration	NAD
57	Joint Compound	No	Good	Building 1 Administration	NAD
58	Joint Compound	No	Good	Building 1 Administration	NAD
59	Joint Compound	No	Good	Building 1 Administration	NAD
60	Sheetrock	No	Good	Building 1 Administration	NAD
61	Sheetrock	No	Good	Building 1 Administration	NAD
62	Sheetrock	No	Good	Building 1 Administration	NAD
63	Cove Base Mastic	No	Good	Building 1 Administration	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
64	Cove Base Mastic	No	Good	Building 1 Administration	NAD
65	Cove Base Mastic	No	Good	Building 1 Administration	NAD
66	Joint Compound	No	Good	Building 1 Administration	NAD
67	Joint Compound	No	Good	Building 1 Administration	NAD
68	Joint Compound	No	Good	Building 1 Administration	NAD
69	Pipe Insulation	Yes	Good	<b>Building 1 Administration</b>	<b>5% Chrysotile</b>
70	9' X 9' Floor Tile	No	Good	<b>Building 1 Administration</b>	<b>5% Chrysotile</b>
71	Black Mastic	No	Good	Building 1 Administration	NAD
72	Black Mastic	No	Good	Building 1 Administration	NAD
73	Black Mastic	No	Good	Building 1 Administration	NAD
74	Cove Base Mastic	No	Good	Building 1 Administration	NAD
75	Cove Base Mastic	No	Good	Building 1 Administration	NAD
76	Cove Base Mastic	No	Good	Building 1 Administration	NAD
77	Pipe Insulation	Yes	Good	<b>Building 1 Administration</b>	<b>15% Chrysotile</b>
78	Sheetrock & Mud	No	Good	Building 1 Administration	NAD
79	Sheetrock & Mud	No	Good	Building 1 Administration	NAD
80	Sheetrock & Mud	No	Good	Building 1 Administration	NAD
81	TSI Fittings	Yes	Good	<b>Building 1 Administration</b>	<b>60% Chrysotile</b>
82	Cove Base Mastic	No	Good	Building 1 Administration	NAD
83	Cove Base Mastic	No	Good	Building 1 Administration	NAD
84	Cove Base Mastic	No	Good	Building 1 Administration	NAD
85	2" X 2" Ceiling Tile	Yes	Good	Building 1 Administration	NAD
86	2" X 2" Ceiling Tile	Yes	Good	Building 1 Administration	NAD
87	2" X 2" Ceiling Tile	Yes	Good	Building 1 Administration	NAD
88	2" X 2" Ceiling Tile Bathroom	Yes	Yes	Building 1 Administration	NAD
89	2" X 2" Ceiling Tile Bathroom	Yes	Yes	Building 1 Administration	NAD
90	2" X 2" Ceiling Tile Bathroom	Yes	Yes	Building 1 Administration	NAD
91	Kitchen Riser TSI	Yes	Good	<b>Building 1 Administration</b>	<b>15% Chrysotile</b>
92	Pipe Fitting	Yes	Good	Building 1 Administration	NAD
93	Pipe Fitting	Yes	Good	Building 1 Administration	NAD
94	Pipe Fitting	Yes	Good	Building 1 Administration	NAD
95	Spray Applied Insulation	Yes	Good	Building 1 Administration	NAD
96	Spray Applied Insulation	Yes	Good	Building 1 Administration	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
97	Spray Applied Insulation	Yes	Good	Building 1 Administration	NAD
98	Cafeteria Spray On	Yes	Good	Building 1 Administration	NAD
99	Cafeteria Spray On	Yes	Good	Building 1 Administration	NAD
100	Cafeteria Spray On	Yes	Good	Building 1 Administration	NAD
101	Pipe Fittings	Yes	Good	Building 1 Administration	NAD
102	Pipe Fittings	Yes	Good	Building 1 Administration	NAD
103	Pipe Fittings	Yes	Good	Building 1 Administration	NAD
104	Pipe Insulation	Yes	Good	Building 1 Administration	10% Chrysotile
105	Sheet Rock	Yes	Good	Building 1 Administration	NAD
106	Sheet Rock	Yes	Good	Building 1 Administration	NAD
107	Sheet Rock	Yes	Good	Building 1 Administration	NAD
108	Joint Compound	No	Good	Building 1 Administration	NAD
109	Joint Compound	No	Good	Building 1 Administration	NAD
110	Joint Compound	No	Good	Building 1 Administration	NAD
111	Joint Compound	No	Good	Building 1 Administration	NAD
112	Joint Compound	No	Good	Building 1 Administration	NAD
113	Joint Compound	No	Good	Building 1 Administration	NAD
114	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
115	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
116	12" X 12" Floor Tile. Grey	No	Good	Building 1 Administration	NAD
117	Black Floor Tile Mastic	No	Good	Building 1 Administration	2% Chrysotile
118	12" X 12" Floor Tile. Gray/Black	No	Good	Building 1 Administration	NAD
119	12" X 12" Floor Tile. Gray/Black	No	Good	Building 1 Administration	NAD
120	12" X 12" Floor Tile. Gray/Black	No	Good	Building 1 Administration	NAD
121	Floor Tile Mastic	No	Good	Building 1 Administration	NAD
122	Floor Tile Mastic	No	Good	Building 1 Administration	NAD
123	Floor Tile Mastic	No	Good	Building 1 Administration	NAD
124	Cove Base Mastic	No	Good	Building 1 Administration	NAD
125	Cove Base Mastic	No	Good	Building 1 Administration	NAD
126	Cove Base Mastic	No	Good	Building 1 Administration	NAD
127	Pipe Insulation	Yes	Good	Building 1 Administration	NAD
128	Pipe Insulation	Yes	Good	Building 1 Administration	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
129	Pipe Insulation	Yes	Good	Building 1 Administration	NAD
130	Elbow Insulation	Yes	Good	Building 1 Administration	10% Chrysotile
131	Pipe Insulation	Yes	Good	Building 1 Administration	10% Chrysotile
132	Heater Elbows	Yes	Good	Building 1 Administration	NAD
133	Heater Elbows	Yes	Good	Building 1 Administration	NAD
134	Heater Elbows	Yes	Good	Building 1 Administration	NAD
135	Heater Pipe Insulation	Yes	Good	Building 1 Administration	10% Chrysotile
136	Air Pipe Insulation	Yes	Good	Building 1 Administration	NAD
137	Air Pipe Insulation	Yes	Good	Building 1 Administration	NAD
138	Air Pipe Insulation	Yes	Good	Building 1 Administration	2% Chrysotile
139	12" X 12" Floor Tile. Beige	No	Good	Building 1 Administration	5% Chrysotile
140	Floor Tile Mastic	No	Good	Building 1 Administration	10% Chrysotile
141	12" X 12" Floor Tile. Beige	No	Good	Building 1 Administration	5% Chrysotile
142	Floor Tile Mastic	No	Good	Building 1 Administration	10% Chrysotile
143	Heater Elbows	Yes	Good	Building 1 Administration	NAD
144	Heater Elbows	Yes	Good	Building 1 Administration	NAD
145	Heater Elbows	Yes	Good	Building 1 Administration	NAD
146	Heater Airpipe Insulation	Yes	Good	Building 1 Administration	NAD
147	Heater Airpipe Insulation	Yes	Good	Building 1 Administration	NAD
148	Heater Airpipe Insulation	Yes	Good	Building 1 Administration	NAD
149	Heater Pipe Insulation	Yes	Good	Building 1 Administration	10% Chrysotile
150	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
151	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
152	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
153	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
154	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
155	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
156	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
157	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
158	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
159	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
160	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
161	2' X 2' Ceiling Tile	Yes	Good	Building 1 Administration	NAD
162	Ceiling Panels Roofing Insulation	Yes	Good	Building 1 Distribution	12% Amosite 10% Chrysotile
163	Ceiling Panels Roofing Insulation	Yes	Good	Building 1 Distribution	10% Amosite 10% Chrysotile
164	Ceiling Panels Roofing Insulation	Yes	Good	Building 1 Distribution	8% Amosite 8% Chrysotile

#### 4.3.2 2007 Survey – Building 1

During the 2007 visual survey, Building 1 was broken out into the following five (5) areas:

- *Second Floor, Old Office- Mechanical Rooms 1,2&3*
- *Second Floor, Administration*
- *First Floor, Administration*
- *Distribution*
- *Mezzanine*

#### 4.3.3 Second Floor, Old Office - Mechanical Rooms 1, 2 & 3 - Building 1

Located on the 2<sup>nd</sup> floor of the southern part of Building 1, this area is unoccupied office space. Areas surveyed included Mechanical Rooms 1, 2, and 3. Identified ACM in these rooms is in the form of pipe and elbow insulation on air handling units (AHUs). The condition of the ACM appears "good", as it was during the 2001 survey.

#### 4.3.4 Second Floor, Administration - Building 1

This area of Building 1 is currently unoccupied. The areas surveyed appeared in "good" condition as indicated during the 2001 survey. ACM in the form of pipe insulation, pipe elbows, and floor tiles is present in this area, and are located in mechanical areas separate from the main area.

#### 4.3.5 First Floor, Administration - Building 1

This area of Building 1 is currently occupied by administration and other personnel.

The areas surveyed appeared in "good" condition as indicated during the 2001

survey. ACM in the form of pipe insulation, pipe elbows, and floor tiles is present in a mechanical room in this area.

#### **4.3.6 Distribution - Building 1**

The distribution area of Building 1 comprises the majority of Building 1. The approximate area of the distribution side of Building 1 is 249,000 square feet. Located in the distribution area are the boiler and chiller rooms. Since the 2001 survey, ACM has been abated in these rooms, with the exception of the ceiling, which is constructed of transite. Piping runs are prevalent throughout the distribution area with some piping identified as ACM, and others insulated with fiberglass. ACM identified during the 2001 survey appeared to be in the same condition during the 2007 visual survey.

#### **4.3.7 Mezzanine - Building 1**

The mezzanine area is currently unoccupied and all equipment, tanks, etc. have been removed from this area. This area served as a mixing area of chemicals, after which were piped below to the manufacturing area. All of the piping runs that were used for transport of mixed chemicals to the manufacturing area have been cut off and capped. Pipe chases on the west side of the mezzanine contain pipe insulation that has been identified as ACM.

#### **4.3.8 2013 Survey – Building 1**

On May 13, 2013 G7 performed a visual survey of the ACMs in Building No. 1; specifically on the 2<sup>nd</sup> Floor of the Old Office- Mechanical Rooms 1,2&3, the 2<sup>nd</sup> Floor Administration area, the 1<sup>st</sup> Floor, Administration area, the Distribution area and Mezzanine areas. No changes were found in the findings of the 2007 survey.

#### **4.4 A & R Building**

The A & R Building is attached to Building 1 and is located to the east. The building is currently occupied and used as an office and laboratory space. The A & R building occupies approximately 228,000 square feet.

##### **4.4.1 2001 Survey – A & R Building**

During the 2001 survey, the previous consultant did not collect any bulk samples from the A & R Building. A visual survey was conducted during 2001, and compared to a previous survey in which samples were collected. Results from the 2001 survey indicated the following to be asbestos-containing:

1. Spray-applied fireproofing (blown insulations on decking)
2. Thermal system insulations (pipe insulations, cementitious fittings)
3. Block insulations (tanks, pumps, exchangers, vessels)
4. Fume Ventilation Hoods (transite cement panels located inside hoods)
5. Floor tile mastic (located beneath flooring)
6. Sheetrock leveling compound (6<sup>th</sup> floor area)

#### **4.4.2 2007 Survey – A & R Building**

The majority of ACM is located in the penthouse area of the A & R building. This area contains mostly pipe runs, air handling units, etc. During the 2007 survey, this area was inspected as well as spray-applied fireproofing on other floors in the building. All material inspected appeared to be in good condition. Photographs of the penthouse area, as well as spray-applied fireproofing material, are included in Appendix C.

#### **4.4.3 2013 Survey – A & R Building**

On May 13, 2013 G7 performed a visual survey of the ACMs in Building A & R building. No changes were found in the findings of the 2007 survey. Photographs of Building 1 are included in Appendix D.

#### **4.5 Pilot Lab - Building 6**

Building 6 serves as a research and development lab for the Merck facility, and it currently occupied. It is located approximately 1.5 blocks east of the main Merck complex. Building 6 occupies approximately 37,300 square feet.

##### **4.5.1 2001 Survey Pilot Lab - Building 6**

Field observations and laboratory analysis found the following material to be asbestos containing; Cementitious Fittings. Exterior roofing was not sampled to prevent possible revocation of warranties but is assumed to contain asbestos materials.

Some Cementitious fittings located in the S/W corner of the 2<sup>nd</sup> floor Mechanical Area were analyzed as asbestos containing and are friable. Other piping insulation was found to be fiberglass containing.

The following table summarizes the samples taken and the results of the laboratory analysis.



### 2001 Asbestos Survey Results – Pilot Lab Building 6

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
01	Rough 2'x4' Ceiling Tile	Yes	Good	Building 6 Pilot Lab	NAD
02	Rough 2'x4' Ceiling Tile	Yes	Good	Building 6 Pilot Lab	NAD
03	Rough 2'x4' Ceiling Tile	Yes	Good	Building 6 Pilot Lab	NAD
04	White 2'x4' Ceiling Tile	Yes	Good	Building 6 Pilot Lab	NAD
05	White 2'x2' Ceiling Tile	Yes	Good		NAD
06	White 2'x2' Ceiling Tile	Yes	Good	Building 6 Pilot Lab	NAD
07	Sheet Rock	No	Good	Building 6 Pilot Lab	NAD
08	Sheet Rock	No	Good	Building 6 Pilot Lab	NAD
09	Sheet Rock	No	Good	Building 6 Pilot Lab	NAD
10	Sheet Rock Mud	No	Good	Building 6 Pilot Lab	NAD
11	Sheet Rock Mud	No	Good	Building 6 Pilot Lab	NAD
12	Sheet Rock Mud	No	Good	Building 6 Pilot Lab	NAD
13	Carpet Mastic	No	Good	Building 6 Pilot Lab	NAD
14	Carpet Mastic	No	Good	Building 6 Pilot Lab	NAD
15	Carpet Mastic	No	Good	Building 6 Pilot Lab	NAD
16	Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
17	Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
18	Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
19	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
20	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
21	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
22	Grey 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
23	Grey 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
24	Grey 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
25	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
26	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
27	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
28	Brown 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
29	Brown 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
30	Brown 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
31	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
32	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
33	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
34	Green Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
35	Green Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
36	Green Speckled 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
37	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
38	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
39	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
40	White 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
41	White 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
42	White 12"x12" Floor Tile	No	Good	Building 6 Pilot Lab	NAD
43	Floor Tile Mastic	No	Good	Building 6 Pilot Lab	NAD
44	Floor Tile Mastic	No	Fair	Building 6 Pilot Lab	NAD
45	Floor Tile Mastic	No	Fair	Building 6 Pilot Lab	NAD
46	Mastic White Covebase	No	Fair	Building 6 Pilot Lab	NAD
47	Mastic White Covebase	No	Good	Building 6 Pilot Lab	NAD
48	Mastic White Covebase	No	Good	Building 6 Pilot Lab	NAD
49	Mastic Tan Covebase	No	Good	Building 6 Pilot Lab	NAD
50	Mastic Tan Covebase	No	Good	Building 6 Pilot Lab	NAD
51	Mastic Tan Covebase	No	Good	Building 6 Pilot Lab	NAD
52	Mastic Black Covebase	No	Good	Building 6 Pilot Lab	NAD
53	Mastic Black Covebase	No	Good	Building 6 Pilot Lab	NAD
54	Mastic Black Covebase	No	Good	Building 6 Pilot Lab	NAD
55	Mastic Gray Covebase	No	Good	Building 6 Pilot Lab	NAD
56	Mastic Gray Covebase	No	Good	Building 6 Pilot Lab	NAD
57	Mastic Gray Covebase	No	Good	Building 6 Pilot Lab	NAD
58	Spray Applied Ceiling	Yes	Good	Building 6 Pilot Lab	NAD
59	Spray Applied Ceiling	Yes	Good	Building 6 Pilot Lab	NAD
60	Spray Applied Ceiling	Yes	Good	Building 6 Pilot Lab	NAD
61	Pipe Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area	NAD
62	Pipe Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area	NAD
63	Pipe Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area	NAD
64	Elbow Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area S/W corner	NAD
65	Elbow Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area S/W corner	5% Chrysotile
66	Elbow Insulation	Yes	Good	Building 6 Pilot Lab 2nd FL-Mechanical Area S/W corner	3% Chrysotile