

Sample #	Material	Friable	Condition	Sample Location	Asbestos Content
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
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



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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, PAGE 1 of 17  
A&R Bldg.

Sample Description:

Sample Number	Sample Date	Sample Description
11506-01-01	1/27/92	Insulation with wrap [inseparable]
11506-01-02	1/27/92	Insulation with wrap [inseparable]
11506-01-03	1/27/92	Insulation with wrap [inseparable]
11506-02-01	1/27/92	Insulation with wrap [inseparable]
11506-02-02	1/27/92	Insulation with wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number	11506-01-01	11506-01-02	11506-01-03	11506-02-01	11506-02-02
<b>Asbestos Minerals</b>					
Amosite	5	30	3	—	2
Anthophyllite	—	—	—	—	—
Chrysotile	35	10	7	25	—
Crocidolite	—	—	—	—	—
Tremolite-Actinolite	—	—	—	—	—
<b>TOTAL ASBESTOS</b>	<b>40</b>	<b>40</b>	<b>10</b>	<b>25</b>	<b>2**</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	20	20	10	15	20
Cellulose	10	10	10	10	10
Synthetics	—	—	—	—	—
Other	—	—	—	—	—
<b>Nonfibrous Materials</b>	<b>30</b>	<b>30</b>	<b>70</b>	<b>50</b>	<b>68</b>

\*\*Wrap: 0%  
asbestos,  
insulation: 2%  
amosite

\* tr = < 1%

Analyst: Craig B. Bruno  
Craig B. Bruno

Date: January 29, 1992



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POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
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Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-02-03</u>	<u>1/27/92</u>	<u>Insulation with wrap finseparable</u>
<u>11506-03-01</u>	<u>1/27/92</u>	<u>Insulation with wrap finseparable</u>
<u>11506-03-02</u>	<u>1/27/92</u>	<u>Insulation with wrap finseparable</u>
<u>11506-03-03</u>	<u>1/27/92</u>	<u>Insulation with wrap finseparable</u>
<u>11506-04-01</u>	<u>1/27/92</u>	<u>Insulation with wrap finseparable</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	<u>11506-02-03</u>	<u>11506-03-01</u>	<u>11506-03-02</u>	<u>11506-03-03</u>	<u>11506-04-01</u>
<b>Asbestos Minerals</b>					
Amosite	<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>3</u>
Anthophyllite	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
Chrysotile	<u>      </u>	<u>      </u>	<u>      </u>	<u>1</u>	<u>1</u>
Crocidolite	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
Tremolite-Actinolite	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
<b>TOTAL ASBESTOS</b>	<u>3</u>	<u>3</u>	<u>2</u>	<u>4</u>	<u>4</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>20</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>
Cellulose	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>
Synthetics	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
Other	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
<b>Nonfibrous Materials</b>	<u>67</u>	<u>77</u>	<u>78</u>	<u>76</u>	<u>76</u>

\* tr = < 1%

Analyst:

Craig B. Bruno  
Craig B. Bruno

Date:

January 29, 1992



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CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, PAGE 3 of 17  
 A&R Bldg.

Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-04-02</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-04-03</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-05-01</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-05-02</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-05-03</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	<u>11506-04-02</u>	<u>11506-04-03</u>	<u>11506-05-01</u>	<u>11506-05-02</u>	<u>11506-05-03</u>
<b>Asbestos Minerals</b>					
Amosite	<u>20</u>	<u>25</u>	<u>2</u>	<u>4</u>	<u>3</u>
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	_____	<u>1</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>20</u>	<u>25</u>	<u>2</u>	<u>4</u>	<u>4</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>20</u>
Cellulose	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<u>60</u>	<u>55</u>	<u>78</u>	<u>76</u>	<u>66</u>

\* tr = < 1%

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PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, A&R Bldg. PAGE 4 of 17

Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-06-01</u>	<u>1/27/92</u>	<u>Insulation</u>
<u>11506-06-02</u>	<u>1/27/92</u>	<u>Insulation</u>
<u>11506-06-03</u>	<u>1/27/92</u>	<u>Insulation</u>
<u>11506-06-04</u>	<u>1/27/92</u>	<u>Insulation</u>
<u>11506-06-05</u>	<u>1/27/92</u>	<u>Insulation</u>

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number	<u>11506-06-01</u>	<u>11506-06-02</u>	<u>11506-06-03</u>	<u>11506-06-04</u>	<u>11506-06-05</u>
<b>Asbestos Minerals</b>					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>
Cellulose	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>

\* tr = < 1%

Analyst: Craig B. Bruno  
Craig B. Bruno

Date: January 29, 1992



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PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, PAGE 5 of 17  
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Sample Description:

Sample Number	Sample Date	Sample Description
11506-06-06	1/27/92	Insulation
11506-06-07	1/27/92	Insulation
11506-06-08	1/27/92	Insulation
11506-06-09	1/27/92	Insulation
11506-06-10	1/27/92	Insulation

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number	11506-06-06	11506-06-07	11506-06-08	11506-06-09	11506-06-10
<b>Asbestos Minerals</b>					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	50	50	50	50	50
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	20	20	20	20	20
Cellulose	5	5	5	5	5
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>

\* tr = < 1%

Analyst: Craig B. Bruno  
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Date: January 29, 1992



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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
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PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
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Sample Description:

Sample Number	Sample Date	Sample Description
11506-06-11	1/27/92	Insulation
11506-06-12	1/27/92	Insulation
11506-06-13	1/27/92	Insulation
11506-06-14	1/27/92	Insulation
11506-06-15	1/27/92	Insulation

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-06-11	11506-06-12	11506-06-13	11506-06-14	11506-06-15
<b>Asbestos Minerals</b>					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>	<u>50</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>
Cellulose	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>25</u>

\* tr = < 1%

Analyst: Craig B. Bruno

Craig B. Bruno

Date: January 29, 1992



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Sample Description:

Sample Number	Sample Date	Sample Description
11506-06-16	1/27/92	Insulation
11506-07-01	1/27/92	Floor tile with mastic
11506-07-02	1/27/92	Floor tile with mastic
11506-08-01	1/27/92	Drywall with surface material, adhesive and joint compound
11506-09-01	1/27/92	Adhesive

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-06-16	11506-07-01	11506-07-02	11506-08-01	11506-09-01
<b>Asbestos Minerals</b>					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	50	10	10	tr*	_____
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>50</b>	<b>10**</b>	<b>10**</b>	<b>tr***</b>	<b>0</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	20	_____	_____	tr*	tr*
Cellulose	5	_____	_____	15	5
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>25</b>	<b>90</b>	<b>90</b>	<b>85</b>	<b>95</b>

\* tr = < 1%

\*\*Mastic: 25%  
 chrysotile, tile:  
 10% chrysotile

\*\*Mastic: 25%  
 chrysotile, tile:  
 10% chrysotile

\*\*\*Joint  
 compound: 2%  
 chrysotile,  
 surface material:  
 1%, drywall and  
 adhesive: 0%

Analyst: Craig B. Bruno

Craig B. Bruno

Date: January 29, 1992





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POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

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LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, PAGE 8 of 17  
 A&R Bldg.

Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-10-01</u>	<u>1/27/92</u>	<u>Ceiling tile</u>
<u>11506-10-02</u>	<u>1/27/92</u>	<u>Ceiling tile</u>
<u>11506-10-03</u>	<u>1/27/92</u>	<u>Ceiling tile</u>
<u>11506-11-01</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-11-02</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-10-01	11506-10-02	11506-10-03	11506-11-01	11506-11-02
<b>Asbestos Minerals</b>					
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	<u>60</u>	<u>45</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>0</u>	<u>0</u>	<u>0</u>	<u>60</u>	<u>45</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>70</u>	<u>70</u>	<u>70</u>	<u>5</u>	<u>5</u>
Cellulose	<u>tr*</u>	<u>5</u>	<u>5</u>	<u>20</u>	<u>20</u>
Synthetics	_____	_____	_____	_____	_____
Other	<u>1</u>	<u>tr*</u>	<u>tr*</u>	_____	_____
	Wollastonite	Wollastonite	Wollastonite		
<b>Nonfibrous Materials</b>	<u>29</u>	<u>25</u>	<u>25</u>	<u>15</u>	<u>30</u>

\* tr = < 1%

Analyst: \_\_\_\_\_

Craig B. Bruno, Jeff Lomme

Date: January 29, 1992

RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
 POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

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LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, A&R Bldg. PAGE 9 of 17

Sample Description:

Sample Number	Sample Date	Sample Description
11506-11-03	1/27/92	Insulation with wrap [inseparable]
11506-11-04	1/27/92	Insulation with wrap [inseparable]
11506-12-01	1/27/92	Insulation with wrap [inseparable]
11506-12-02	1/27/92	Insulation with wrap [inseparable]
11506-12-03	1/27/92	Insulation with wrap [inseparable]

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-11-03	11506-11-04	11506-12-01	11506-12-02	11506-12-03
<b>Asbestos Minerals</b>					
Amosite	25	20	25	20	25
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	3	tr*	3	tr*
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>25</b>	<b>23</b>	<b>25</b>	<b>23</b>	<b>25</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	10	10	10	10	10
Cellulose	10	10	10	10	10
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>55</b>	<b>57</b>	<b>55</b>	<b>57</b>	<b>55</b>

\* tr = < 1%

Analyst: Craig B. Bruno  
 Craig B. Bruno

Date: January 29, 1992



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PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, A&R Bldg. PAGE 10 of 17

Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-13-01</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-13-02</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-13-03</u>	<u>1/27/92</u>	<u>Insulation with wrap [inseparable]</u>
<u>11506-14-01</u>	<u>1/27/92</u>	<u>Grey insulation and yellow insulation with wrap [inseparable]</u>
<u>11506-14-02</u>	<u>1/27/92</u>	<u>Grey insulation and yellow insulation with wrap [inseparable]</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	<u>11506-13-01</u>	<u>11506-13-02</u>	<u>11506-13-03</u>	<u>11506-14-01</u>	<u>11506-14-02</u>
<b>Asbestos Minerals</b>					
Amosite	<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>3</u>
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	<u>tr*</u>	<u>tr*</u>	<u>10</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>	<u>13</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	<u>25</u>	<u>25</u>	<u>25</u>	<u>35</u>	<u>35</u>
Cellulose	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>	<u>10</u>
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<u>62</u>	<u>62</u>	<u>63</u>	<u>52</u>	<u>42</u>

\* tr = < 1%

Analyst: Greg Tovrea (by J. R. Line)  
 Greg W. Tovrea

Date: January 29, 1992



18000 W. Highway 72  
 Golden, CO 80403-8299  
 (303) 420-4449  
 (800) 873-8707  
 FAX: (303) 420-1434

RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
 A&R Bldg.

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Sample Description:

Sample Number	Sample Date	Sample Description
11506-14-03	1/27/92	Grey insulation and yellow insulation with wrap [inseparable]
11506-15-01	1/27/92	Grey insulation and yellow insulation with wrap [inseparable]
11506-15-02	1/27/92	Grey insulation and yellow insulation with wrap [inseparable]
11506-15-03	1/27/92	Grey insulation and yellow insulation with wrap [inseparable]
11506-16-01	1/27/92	Grey insulation and yellow insulation with wrap [inseparable]

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-14-03	11506-15-01	11506-15-02	11506-15-03	11506-16-01
<b>Asbestos Minerals</b>					
Amosite	3	3	3	3	3
Anthophyllite	---	---	---	---	---
Chrysotile	tr*	---	---	---	tr*
Crocidolite	---	---	---	---	---
Tremolite-Actinolite	---	---	---	---	---
<b>TOTAL ASBESTOS</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	35	40	50	35	35
Cellulose	10	10	20	20	20
Synthetics	---	---	---	---	---
Other	---	---	---	---	---
<b>Nonfibrous Materials</b>	<b>52</b>	<b>47</b>	<b>27</b>	<b>42</b>	<b>42</b>

\* tr = < 1%

Analyst: Greg W. Tovrea (by J. L. Reina)  
 Greg W. Tovrea

Date: January 29, 1992



an Analytica Group company

RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, A&R Bldg. PAGE 12 of 17

Sample Description:

Sample Number	Sample Date	Sample Description
11506-16-02	1/27/92	Grey insulation with wrap [inseparable]
11506-16-03	1/27/92	Grey insulation and yellow insulation with wrap [inseparable] [foil not analyzed]
11506-17-01	1/27/92	Insulation with wrap [inseparable]
11506-17-02	1/27/92	Insulation with wrap [inseparable]
11506-17-03	1/27/92	Insulation

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-16-02	11506-16-03	11506-17-01	11506-17-02	11506-17-03
<b>Asbestos Minerals</b>					
Amosite	3	3	3	3	2
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	tr*	tr*	tr*
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	25	35	25	25	25
Cellulose	10	15	10	5	tr*
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>62</b>	<b>47</b>	<b>62</b>	<b>67</b>	<b>73</b>

\* tr = < 1%

Analyst: Greg W. Tovrea (by J. R. Rina)  
 Greg W. Tovrea

Date: January 29, 1992



an Analytica Group company

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
A&R Bldg.

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Sample Description:

Sample Number	Sample Date	Sample Description
11506-18-01	1/27/92	Grey material with wrap
11506-18-02	1/27/92	Grey material with wrap [inseparable]
11506-18-03	1/27/92	Grey material with wrap [inseparable]
11506-19-01	1/27/92	White wrap
11506-19-02	1/27/92	White wrap

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-18-01	11506-18-02	11506-18-03	11506-19-01	11506-19-02
<b>Asbestos Minerals</b>					
Amosite	2	3	2	—	—
Anthophyllite	—	—	—	—	—
Chrysotile	—	—	—	—	—
Crocidolite	—	—	—	—	—
Tremolite-Actinolite	—	—	—	—	—
<b>TOTAL ASBESTOS</b>	<b>2**</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>0</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	25	25	25	—	—
Cellulose	10	10	10	65	65
Synthetics	—	—	—	—	—
Other	—	—	—	—	—
<b>Nonfibrous Materials</b>	<b>63</b>	<b>62</b>	<b>63</b>	<b>35</b>	<b>35</b>

\*\*Wrap: 0%  
asbestos,  
insulation: 2%  
amosite

\* tr = < 1%

Analyst: Greg Tovreia (signature)  
Greg W. Tovreia

Date: January 29, 1992



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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
 A&R Bldg.

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Sample Description:

Sample Number	Sample Date	Sample Description
11506-20-01	1/27/92	White material
11506-21-01	1/27/92	Insulation with wrap [inseparable]
11506-21-02	1/27/92	Insulation with wrap [inseparable]
11506-21-03	1/27/92	Insulation with wrap [inseparable]
11506-21-04	1/27/92	Insulation with wrap [inseparable]

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-20-01	11506-21-01	11506-21-02	11506-21-03	11506-21-04
<b>Asbestos Minerals</b>					
Amosite	_____	3	5	30	2
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	_____	_____	5	tr*
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>0</b>	<b>3</b>	<b>5</b>	<b>35</b>	<b>2</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	_____	25	15	_____	25
Cellulose	35	10	40	10	30
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>65</b>	<b>62</b>	<b>40</b>	<b>55</b>	<b>43</b>

\* tr = < 1%

Analyst: Greg W. Tovrea (by J. R. Rivera)  
 Greg W. Tovrea

Date: January 29, 1992



an Analytica Group company

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey, PAGE 15 of 17  
 A&R Bldg.

Sample Description:

Sample Number	Sample Date	Sample Description
11506-21-05	1/27/92	Insulation with wrap [inseparable]
11506-21-06	1/27/92	Insulation with wrap [inseparable]
11506-22-01	1/27/92	Floor tile with mastic
11506-23-01	1/27/92	Floor tile with mastic
11506-23-02	1/27/92	Floor tile with mastic

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number	11506-21-05	11506-21-06	11506-22-01	11506-23-01	11506-23-02
<b>Asbestos Minerals</b>					
Amosite	3	3	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	tr*	_____	_____	_____	tr*
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<b>3</b>	<b>3</b>	<b>0**</b>	<b>0**</b>	<b>tr***</b>
<b>Other Fibrous Material</b>					
Fibrous Glass	25	25	tr*	tr*	_____
Cellulose	10	10	tr*	tr*	tr*
Synthetics	_____	_____	tr*	tr*	_____
Other	_____	_____	_____	_____	_____
<b>Nonfibrous Materials</b>	<b>62</b>	<b>62</b>	<b>100</b>	<b>100</b>	<b>100</b>

\* tr = < 1%

\*\*Both materials contain 0% asbestos

\*\*Both materials contain 0% asbestos

\*\*\*Mastic: 4% chrysotile, tile: 0% asbestos

Analyst: Greg W. Tovrea (by J. P. Riney)  
 Greg W. Tovrea

Date: January 29, 1992





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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
A&R Bldg.

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Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-24-01</u>	<u>1/27/92</u>	<u>Covebase with mastic and white material</u>
<u>11506-25-01</u>	<u>1/27/92</u>	<u>Drywall with joint compound</u>
<u>11506-25-02</u>	<u>1/27/92</u>	<u>Joint compound</u>
<u>11506-25-03</u>	<u>1/27/92</u>	<u>Drywall with joint compound</u>
<u>11506-26-01</u>	<u>1/27/92</u>	<u>Brown material</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	<u>11506-24-01</u>	<u>11506-25-01</u>	<u>11506-25-02</u>	<u>11506-25-03</u>	<u>11506-26-01</u>
<b>Asbestos Minerals</b>	<b>Ashed</b>				
Amosite	_____	_____	_____	_____	_____
Anthophyllite	_____	_____	_____	_____	_____
Chrysotile	_____	<u>tr*</u>	<u>2</u>	<u>1</u>	<u>20</u>
Crocidolite	_____	_____	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>0**</u>	<u>tr***</u>	<u>2</u>	<u>1***</u>	<u>20</u>
<b>Other Fibrous Material</b>					
Fibrous Glass	_____	<u>tr*</u>	_____	<u>tr*</u>	<u>20</u>
Cellulose	<u>tr*</u>	<u>10</u>	_____	<u>15</u>	_____
Synthetics	_____	_____	_____	_____	_____
Other	_____	_____	_____	_____	<u>5</u>
<b>Nonfibrous Materials</b>	<u>100</u>	<u>90</u>	<u>98</u>	<u>84</u>	<u>55</u>

\*\*All materials contain 0% asbestos

\*\*\*Joint compound: 2% chrysotile, drywall: 0% asbestos

\*\*\*Joint compound: 2% chrysotile, drywall: 0% asbestos

\* tr = < 1%

Analyst: Greg W. Tovrea (Ed Rain)  
Greg W. Tovrea

Date: January 29, 1992



an Analytica Group company

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY  
POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

CLIENT: The Pickering Firm, Inc.

LGN: 85874

PROJECT IDENTIFICATION: 11506, Schering Plough Asbestos Survey,  
A&R Bldg.

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Sample Description:

Sample Number	Sample Date	Sample Description
<u>11506-27-01</u>	<u>1/27/92</u>	<u>Black material and tan material [inseparable]</u>
<u>11506-27-02</u>	<u>1/27/92</u>	<u>Sample not received</u>
<u>11506-28-01</u>		<u>Brown material [sample not on Chain of Custody]</u>

Results of PLM Analysis:

Visual Area Estimation: Percentages Detected

Sample Number	11506-27-01	11506-27-02	11506-28-01
<b>Asbestos Minerals</b>	Ashed	Not analyzed	
Amosite	_____	_____	_____
Anthophyllite	_____	_____	_____
Chrysotile	<u>27</u>	_____	<u>4</u>
Crocidolite	_____	_____	_____
Tremolite-Actinolite	_____	_____	_____
<b>TOTAL ASBESTOS</b>	<u>27</u>	-	<u>4</u>
<b>Other Fibrous Material</b>			
Fibrous Glass	<u>20</u>	_____	<u>5</u>
Cellulose	<u>10</u>	_____	<u>55</u>
Synthetics	_____	_____	_____
Other	_____	_____	_____
<b>Nonfibrous Materials</b>	<u>43</u>	-	<u>36</u>

\* tr = < 1%

Analyst: Greg W. Tovrea (Signature)  
Greg W. Tovrea

Date: January 29, 1992

ANALYTICA SOLUTIONS  
18000 West Highway 72  
Golden, CO 80403  
(303) 420-4449

## PLM

### BULK SAMPLE ANALYSIS PROCEDURES

Bulk samples of construction materials are analyzed by professional mineralogists with at least a Bachelor's Degree in Geology according to the guidelines set by the Environmental Protection Agency (EPA-600/M4-82-020, December 1982). As specified in the EPA method, the total asbestos reported is the average of all components in the material analyzed, with separate layers delineated at the bottom of the report. As suggested by the EPA, our laboratory uses the preferred Becke Line Method to test the index of refraction of the materials, not the alternate method of stain dispersion. Each sample is prepared and analyzed in three different Cargille certified refractive index oils. Estimates of asbestos content are based on visual comparison using a calibrated graticule. Additional tests and treatments (see below) may also be required for certain samples.

Analytica is accredited by the National Institute for Standards and Technology (Lab Code 1086) under the National Voluntary Laboratory Accreditation Program (NVLAP) and is an AIIHA accredited industrial hygiene laboratory (certificate #307). Analytica participates in the NVLAP bulk asbestos proficiency testing program (results available upon request). Analytica maintains an in-house QA/QC program whereby at least ten percent (10%) of all submitted samples are re-analyzed and documented in a quality control manual. Analytica also participates in three quarterly round robin QA/QC programs with accredited laboratories throughout the United States and the world. Unused portions of samples are archived for six months unless client requests special handling.

## ASHING

Ashing is a procedure in which one half of the sample is placed in a crucible and then set in a furnace at 500°C for one hour. Most non-silicate interferants are eliminated; asbestos remains behind. The amount of the ashed material is compared to the original amount to determine the volume percent lost due to ashing. The ashed sample is analyzed by PLM for the type and percentage of asbestos present.

Unless otherwise noted, the results shown on the final report are the percentage of asbestos in the original material, not the ashed material. For example, if 50% of the original material is lost due to combustion and the ashed sample contains 10% asbestos, the final report would show 5% asbestos in the original material.

## POINT COUNTING

As of November 20, 1990, National Emissions Standards for Hazardous Air Pollutants (NESHAP) established a rule that requires that friable ACM bulk samples with less than 10% asbestos be analyzed by the point count procedure described in the EPA-600/M4-82-020 method. Analytica Solutions Inc. cannot assume responsibility for client compliance with the NESHAP rule, however, the laboratory does have experienced analysts ready to perform requested point counting.



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DIVERSIFIED ENVIRONMENTAL TECHNOLOGIES, INC.

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February 3, 1992

Mr. Danny Johnson  
Pickering Environmental  
1750 Madison Avenue  
Memphis, TN 38104

Re: Laboratory analysis of suspect asbestos bulk sample(s)  
by Polarized Light Microscopy/Dispersion Staining.

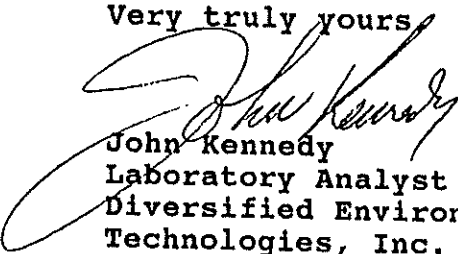
Dear Mr. Johnson:

Laboratory analyses of 5 suspect asbestos containing samples submitted to this laboratory on 01/31/92 has been completed. The analysis results are enclosed.

The samples were analyzed according to 40 CFR Ch.1 Pt. 763, Subpt. F App. A.: Interim Method for the Determination of Asbestos in Bulk Insulation Samples. This method utilizes gross stereomicroscopic examination for homogeneity and preliminary fiber identification. Positive identification of suspect fibers is made by analysis of subsamples with polarized light microscopy with dispersion staining (PLM/DS).

Please review the results carefully, if you have any questions please do not hesitate to call us.

Very truly yours



John Kennedy  
Laboratory Analyst  
Diversified Environmental  
Technologies, Inc.

Enclosure

NVLAQ

P.A.T.

**Diversified Environmental Technologies, Inc.  
Bulk Asbestos Analysis Summary**

LONG ENVIRONMENTAL  
MADISON AVENUE  
MEMPHIS, TN 38104  
Attn: DANNY JOHNSON

JOB NUMBER 44605 *DD*  
11506

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SAMPLE NO. 03-03-QC.....  
Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous powder.

SAMPLE NO. 06-15-QC.....  
Sample is homogeneous.

SAMPLE NO. 11-04-QC.....  
Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous clumps and white, resilient backing.

SAMPLE NO. 15-03-QC.....  
Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous powder.

SAMPLE NO. 26-01-QC.....  
Sample is homogeneous. Asbestos detected in red, resilient coating.

	3%			3%
15%				15%
1%	15%			16%
	3%			3%
10%				10%

92B00137

Diversified Environmental Technologies, Inc.

Bulk Asbestos Analysis Report

Date Analyzed  
02/03/92

DETI Lab No.  
92B00137-2  
089

PICKERING ENVIRONMENTAL  
1750 MADISON AVENUE  
SUITE 500  
MEMPHIS, TN 38104

JOB NUMBER 11605

Client Sample ID: SAMPLE NO. 06-15-QC

Color/Texture: Tan, fibrous mat

<u>Asbestos Minerals</u>	<u>Estimated Percentage</u>
Chrysotile:.....	15%
Amosite:	
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	
Asbestos Total:.....	15%

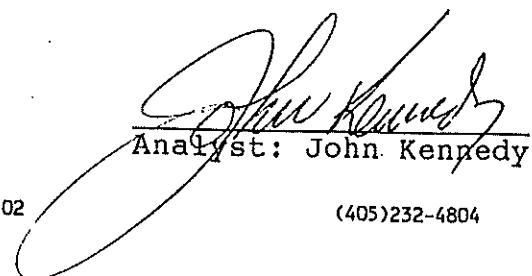
Non-Asbestos Fibrous Materials

Fiberglass:  
Mineral Wool:.....70%  
Cellulose:  
Synthetic Fibers:  
Other:

Non-Fibrous Materials

Perlite/Pumice:  
Sheet Silicates:  
Binders/Fillers:.....13%  
Granular Minerals:... 2%  
Other:

Comments:  
Sample is homogeneous.

  
Analyst: John Kennedy

Diversified Environmental Technologies, Inc.

Bulk Asbestos Analysis Report

Date Analyzed  
02/03/92

DETI Lab No.  
92B00137-1  
089

PICKERING ENVIRONMENTAL  
1750 MADISON AVENUE  
SUITE 500  
MEMPHIS, TN 38104

JOB NUMBER 11605

Client Sample ID: SAMPLE NO. 03-03 QC

Color/Texture: Gray, fibrous powder; white, fabric patch with yellow, paint layer

<u>Asbestos Minerals</u>	<u>Estimated Percentage</u>
Chrysotile:	
Amosite:.....	3%
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	
Asbestos Total:.....	3%

Non-Asbestos Fibrous Materials

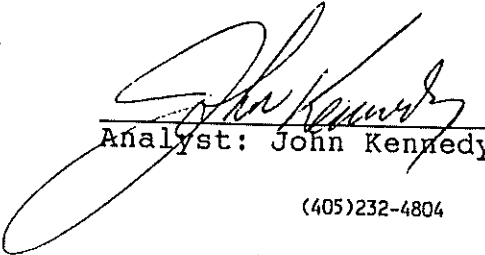
Fiberglass:..... 5%  
Mineral Wool:.....30%  
Cellulose:.....35%  
Synthetic Fibers:  
Other:

Non-Fibrous Materials

Perlite/Pumice:  
Sheet Silicates:  
Binders/Fillers:.....27%  
Other:  
Other:

Comments:

Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous powder.

  
Analyst: John Kennedy

Diversified Environmental Technologies, Inc.

Bulk Asbestos Analysis Report

Date Analyzed  
02/03/92

DETI Lab No.  
92B00137-3  
089

PICKERING ENVIRONMENTAL  
1750 MADISON AVENUE  
SUITE 500  
MEMPHIS, TN 38104

JOB NUMBER 11605

Client Sample ID: SAMPLE NO. 11-04-OC

Color/Texture: Gray, fibrous clumps; white, fabric patch with white, resilient backing and yellow, paint layer

<u>Asbestos Minerals</u>	<u>Estimated Percentage</u>
Chrysotile:.....	1%
Amosite:.....	15%
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	
Asbestos Total:.....	16%

Non-Asbestos Fibrous Materials

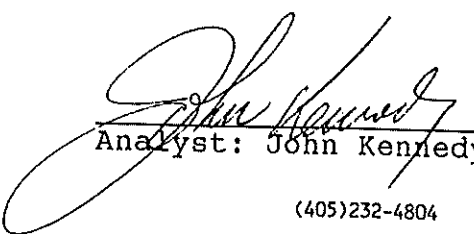
Fiberglass:  
Mineral Wool:  
Cellulose:.....25%  
Synthetic Fibers:  
Other:

Non-Fibrous Materials

Perlite/Pumice:  
Sheet Silicates:  
Binders/Fillers:.....59%  
Other:  
Other:

Comments:

Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous clumps and white, resilient backing.

  
Analyst: John Kennedy



Diversified Environmental Technologies, Inc.

Bulk Asbestos Analysis Report

Date Analyzed  
02/03/92

DETI Lab No.  
92B00137-4  
089

PICKERING ENVIRONMENTAL  
1750 MADISON AVENUE  
SUITE 500  
MEMPHIS, TN 38104

JOB NUMBER 11605

Client Sample ID: SAMPLE NO. 15-03-OC

Color/Texture: Orange, fibrous mat; white, fiber mesh; white, fabric patch with orange, paint layer; gray, fibrous powder

<u>Asbestos Minerals</u>	<u>Estimated Percentage</u>
Chrysotile:	
Amosite:.....	3%
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	
Asbestos Total:.....	3%

Non-Asbestos Fibrous Materials

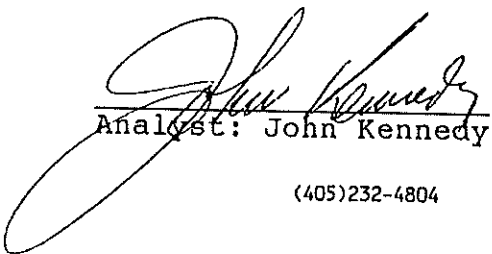
Fiberglass:.....10%  
Mineral Wool:.....50%  
Cellulose:.....20%  
Synthetic Fibers:  
Other:

Non-Fibrous Materials

Perlite/Pumice:  
Sheet Silicates:  
Binders/Fillers:.....17%  
Other:  
Other:

Comments:

Non-homogeneous; percentages based on total sample as received.  
Asbestos detected in gray, fibrous powder.

  
Analyst: John Kennedy

Diversified Environmental Technologies, Inc.

Bulk Asbestos Analysis Report

Date Analyzed  
02/03/92

DETI Lab No.  
92B00137-5  
089

PICKERING ENVIRONMENTAL  
1750 MADISON AVENUE  
SUITE 500  
MEMPHIS, TN 38104

JOB NUMBER 11605

Client Sample ID: SAMPLE NO. 26-01-OC

Color/Texture: White, fibrous mesh with red, resilient coating on both sides

<u>Asbestos Minerals</u>	<u>Estimated Percentage</u>
Chrysotile:.....	10%
Amosite:	
Crocidolite:	
Anthophyllite:	
Tremolite:	
Actinolite:	
Asbestos Total:.....	10%

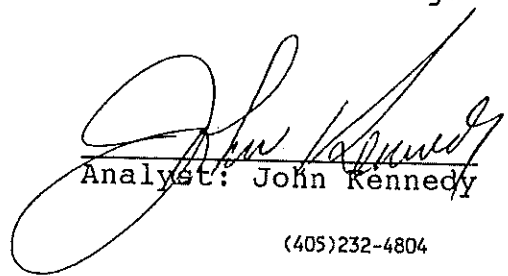
Non-Asbestos Fibrous Materials

Fiberglass:.....40%  
Mineral Wool:  
Cellulose:  
Synthetic Fibers:  
Other:

Non-Fibrous Materials

Perlite/Pumice:  
Sheet Silicates:  
Binders/Fillers:.....45%  
Granular Minerals:... 5%  
Other:

Comments:  
Sample is homogeneous. Asbestos detected in red, resilient coating.

  
Analyst: John Kennedy