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SHERWIN ASBESTOS AMBIENT AIR SAMPLES

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DATE: August 18, 1999

TO: Homer Cole

FROM: Richard (Rick) Hicks

RE: Asbestos Ambient Air Samples Collected at Sherwin Plant - July 1999.

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PLAINTIFF'S EXHIBIT

RMC-711

During the month of July there were forty-six (46) asbestos ambient area samples collected at the Sherwin Plant. The samples were collected and analyzed utilizing the NIOSH 7400 Analytical Method.

Asbestos ambient air samples are collected throughout the Sherwin Plant. Typically they are collected in the clean area adjacent to an asbestos abatement project. The project may be a full enclosure, glovebag, or other approved abatement method. The samples serve as a means to ensure the abatement method was conducted properly. The sample also serves as a means to collect data throughout the Plant and helps demonstrate that levels are well below the Occupational Exposure Limit.

Asbestos abatement jobs vary in the amount of time in which may be needed for their completion. Sample results may appear elevated due to short run times and low volumes of air that were needed to complete an asbestos abatement job. The short duration of some removal projects effects the minimum detection limit of the analytical method and therefore the concentration may appear elevated. For those short projects the goal is to achieve a less than value "<" for the concentration.

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One hundred percent (100%) of the samples that were taken were < 50% of the Reynolds Occupational Exposure Limits (OEL) of 0.1 f/cc. One Hundred (100%) of the samples analyzed were below the detection limits of the NIOSH 7400 Analytical Method. See the attached table for a summary of the information.

If you have any question regarding this data please contact me at (512) 777-2574.

RMC080014010020885

|                                               |  |                      |                 |
|-----------------------------------------------|--|----------------------|-----------------|
| <b>Reynolds Metals Company</b>                |  |                      |                 |
| <b>Sherwin Alumina Plant</b>                  |  |                      |                 |
| <b>Industrial Hygiene - Attachment 2.1-12</b> |  |                      |                 |
| <b>Asbestos Ambient Air Samples</b>           |  |                      |                 |
| <b>Section</b>                                |  | <b>Instruction #</b> | <b>Manual</b>   |
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## Reynolds Metals Company

Sherwin Alumina Plant

Asbestos Ambient Air Samples

July 1999

| Sample ID<br>(RMC Number) | Sample<br>Date | Location/Area                              | Start<br>Time | Stop<br>Time | Concentration (f/cc) TWA |
|---------------------------|----------------|--------------------------------------------|---------------|--------------|--------------------------|
| 15241                     | 7/2/1999       | #9 Boiler Economizer Door                  | 0825          | 0935         | <.01                     |
| 15287                     | 7/6/1999       | Fac. 30 Lime Surge Tank                    | 1324          | 1425         | <.03                     |
| 15279                     | 7/6/1999       | Caustic Line From 90 Dock at Dumpster Site | 0850          | 1500         | <.01                     |
| 15280                     | 7/6/1999       | Caustic Line From 90 Dock at Dumpster Site | 0850          | 1500         | <.01                     |
| 15310                     | 7/7/1999       | Caustic Line From 90 Dock at Dumpster Site | 0833          | 1455         | <.01                     |
| 15311                     | 7/7/1999       | Caustic Line From 90 Dock at Dumpster Site | 0833          | 1455         | <.01                     |
| 15293                     | 7/7/1999       | 90 Dock Caustic Line Wrapping              | 0733          | 0803         | <.06                     |
| 15325                     | 7/8/1999       | Fac. 30 #1 Digester Unit                   | 0950          | 1030         | <.05                     |
| 15326                     | 7/8/1999       | Fac. 30 #1 Digester Unit                   | 0950          | 1030         | <.05                     |
| 15342                     | 7/8/1999       | #3 Boiler Glovebag                         | 0830          | 1415         | <.01                     |
| 15343                     | 7/8/1999       | #3 Boiler Glovebag                         | 0830          | 1415         | <.01                     |
| 15372                     | 7/9/1999       | #3 Boiler Mini-Enclosure                   | 0820          | 1155         | <.01                     |
| 15356                     | 7/12/1999      | 24 Lime Unloading Bldg.                    | 0850          | 1500         | <.01                     |
| 15357                     | 7/12/1999      | 24 Lime Unloading Bldg.                    | 0850          | 1500         | <.01                     |
| 15391                     | 7/13/1999      | 24 Lime Unloading Bldg.                    | 0730          | 1430         | <.01                     |
| 15392                     | 7/13/1999      | 24 Lime Unloading Bldg.                    | 0730          | 1430         | <.01                     |
| 15405                     | 7/14/1999      | 24 Lime Unloading Bldg.                    | 0720          | 1305         | <.01                     |
| 15406                     | 7/14/1999      | 24 Lime Unloading Bldg.                    | 0720          | 1305         | <.01                     |
| 15383                     | 7/12/1999      | #3 Boiler Mastic                           | 1325          | 1355         | <.06*                    |
| 15384                     | 7/12/1999      | #3 Boiler Mastic                           | 1325          | 1355         | <.06*                    |
| 15548                     | 7/13/1999      | 90's at Powerhouse                         | 1300          | 1510         | <.02                     |

|                                               |  |                      |                 |
|-----------------------------------------------|--|----------------------|-----------------|
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| <b>Industrial Hygiene - Attachment 2.1-12</b> |  |                      |                 |
| <b>Asbestos Ambient Air Samples</b>           |  |                      |                 |
| <b>Section</b>                                |  | <b>Instruction #</b> | <b>Manual</b>   |
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| Sample ID<br>(RMC Number) | Sample Date | Location/Area                                         | Start Time | Stop Time | Concentration (f/cc) (TWA) |
|---------------------------|-------------|-------------------------------------------------------|------------|-----------|----------------------------|
| 15549                     | 7/13/1999   | 90's at Powerhouse                                    | 1255       | 1510      | <.02                       |
| 15422                     | 7/14/1999   | #3 Boiler Doors & Ducts                               | 0907       | 1250      | <.02                       |
| 15423                     | 7/14/1999   | #3 Boiler Doors & Ducts                               | 0905       | 1433      | <.01                       |
| 15430                     | 7/14/1999   | #2 Boiler Top Deck Door                               | 1350       | 1530      | <.02                       |
| 15437                     | 7/15/1999   | #2 Boiler Door                                        | 1452       | 2230      | <.01                       |
| 15438                     | 7/15/1999   | #2 Boiler Door                                        | 1456       | 2225      | <.01                       |
| 15399                     | 7/14/1999   | #5 Digester, 5-6 Train Bottoms-North & Middle Vessels | 0840       | 0940      | <.03                       |
| 15584                     | 7/14/1999   | #9 Evaporator                                         | 0920       | 1055      | <.02                       |
| 15591                     | 7/15/1999   | #3 Boiler - Doors & Gaskets                           | 0750       | 1330      | <.01                       |
| 15592                     | 7/15/1999   | #3 Boiler - Doors & Gaskets                           | 0755       | 1330      | <.01                       |
| 15447                     | 7/20/1999   | Fac. 26 #2 Feed Pump Discharge Line                   | 1129       | 1500      | <.01                       |
| 15448                     | 7/20/1999   | Fac. 26 #2 Feed Pump Discharge Line                   | 1130       | 1500      | <.01                       |
| 15457                     | 7/20/1999   | #3 Boiler Doors, Door Gaskets & Hand Hole Plate Gskts | 0805       | 1440      | <.01                       |
| 15465                     | 7/21/1999   | #3 Boiler Doors, Door Gaskets & Hand Hole Plate Gskts | 0910       | 1025      | <.03                       |
| 15473                     | 7/22/1999   | #3 Boiler Doors, Door Gaskets & Hand Hole Plate Gskts | 1257       | 1400      | <.03                       |
| 15511                     | 7/22/1999   | #3 Boiler Plate Cutting                               | 1345       | 1445      | <.03                       |
| 15530                     | 7/26/1999   | 24 Lime Unloading Bldg.                               | 0840       | 1440      | <.01                       |
| 15531                     | 7/26/1999   | 24 Lime Unloading Bldg.                               | 0840       | 1440      | <.01                       |
| 15538                     | 7/27/1999   | 24 Lime Unloading Bldg.                               | 0820       | 1300      | <.01                       |
| 15539                     | 7/27/1999   | 24 Lime Unloading Bldg.                               | 0820       | 1300      | <.01                       |
| 15626                     | 7/27/1999   | #3 Boiler Piping                                      | 0805       | 1020      | <.02                       |
| 15565                     | 7/28/1999   | Fac. 42, #8 Evaporator                                | 1000       | 1100      | <.03                       |
| 15572                     | 7/28/1999   | #3 Boiler Doors/Inside Clean Room of Decon Trailer    | 1300       | 1400      | <.03                       |
| 15659                     | 7/28/1999   | #3 Boiler - Last Door                                 | 1420       | 1450      | <.06*                      |
| 15652                     | 7/28/1999   | #8 Evaporator                                         | 0745       | 0950      | <.02                       |

\* EXCURSION