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-Sherwin

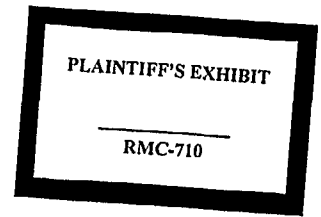
SHERWIN ASBESTOS AMBIENT AIR SAMPLES

DATE: August 17, 1999

TO: Homer Cole

FROM: Richard (Rick) Hicks ²²¹⁵

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



During the month of June there were forty-five (45) 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.

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.

Note: Sample 15164 collected on 6/17/99 was analyzed using NIOSH 7402 Analytical Method.

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

RMC080014010020882

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Sherwin Alumina Plant			
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Asbestos Ambient Air Samples			
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Reynolds Metals Company
 Sherwin Alumina Plant
 Asbestos Ambient Air Samples
 June 1999

Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc) TWA
14887	6/1/1999	#1 Digester Train Vessel Manway Doors	1055	1500	<.01
14997	6/2/1999	#1 Boiler ID Fan Duct	0830	1500	<.01
14998	6/2/1999	#1 Boiler ID Fan Duct	0834	1500	<.01
14977	6/3/1999	2-4 Cooling Tower Pump Suction Line	1115	1145	<.06 *
14978	6/3/1999	2-4 Cooling Tower Pump Suction Line	1250	1320	<.06 *
14930	6/4/1999	#1 Boiler Doors	1245	1405	<.03
14931	6/4/1999	#1 Boiler Doors	1250	1400	<.03
14926	6/4/1999	#1 Boiler Burner	0930	1115	<.02
14927	6/4/1999	#1 Boiler Burner	0930	1120	<.02
14940	6/7/1999	#1 Boiler Piping	1245	1400	<.03
14941	6/7/1999	#1 Boiler Piping	1240	1400	<.03
14989	6/8/1999	# Digester 300# Steam Line	0835	1250	<.01
14947	6/8/1999	#1 Boiler Mastic	0805	1035	<.02
14948	6/8/1999	#1 Boiler Mastic	0805	1035	<.02
15046	6/9/1999	#1 Boiler Piping	1005	1400	<.01
15047	6/9/1999	#1 Boiler Piping	1005	1400	<.01
15056	6/10/1999	#1 Boiler Penthouse Header	0730	1505	<.01
15057	6/10/1999	#1 Boiler Penthouse Header	0735	1500	<.01
15058	6/10/1999	#1 Boiler Penthouse Header	0735	1500	<.01

Reynolds Metals Company
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Asbestos Ambient Air Samples

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Sample ID (RMC Number)	Sample Date	Location/Area	Start Time	Stop Time	Concentration (f/cc) (TWA)
15059	6/10/1999	#1 Boiler Penthouse Header	0740	1500	<.01
15008	6/14/1999	45 Steam Header Line	1000	1540	<.01
15009	6/14/1999	45 Steam Header Line	1000	1541	<.01
15073	6/15/1999	#1 Boiler Mastic	1045	1130	<.04
15074	6/15/1999	#1 Boiler Mastic	1052	1125	<.05 *
15158	6/16/1999	#3 Digester Outage Gasket	1045	1115	<.06 *
15084	6/16/1999	#3 Digester Outage Valves	0650	0825	<.02
15085	6/16/1999	#3 Digester Outage Valves	0650	0825	<.02
15164	6/17/1999	#15 Bldg. Pipe	0940	1125	<.0051
15120	6/22/1999	24 Lime Unloading Bldg.	0925	1450	<.01
15121	6/22/1999	24 Lime Unloading Bldg.	0925	1450	<.01
15128	6/23/1999	24 Lime Unloading Bldg.	0705	1250	<.01
15129	6/23/1999	24 Lime Unloading Bldg.	0705	1250	<.01
15179	6/24/1999	#15 Bldg. Waterline	1045	1200	<.03
15180	6/24/1999	#15 Bldg. Waterline	1045	1200	<.03
15171	6/27/1999	#1 Evaporator, 2 nd Effect Circulating Line	1059	1430	<.01
15172	6/27/1999	#1 Evaporator, 2 nd Effect Circulating Line	1101 -	1431	<.01
15199	6/29/1999	Area 1 - Caustic Line	1225	1400	<.02
15200	6/29/1999	Area 1 - Caustic Line	1230	1400	<.02
15244	6/30/1999	#9 Evaporator, 2 nd Effect Drain Line	0804	1045	<.02
15245	6/30/1999	#9 Evaporator, 2 nd Effect Drain Line	0809	1050	<.02
15226	6/30/1999	Fuel Gas Piping From Co-Gen Site	0830	1500	<.01
15227	6/30/1999	Fuel Gas Piping From Co-Gen Site	0830	1500	<.01
15237	7/1/1999	Fuel Gas Piping From Co-Gen Site	0730	1315	<.01
15238	7/1/1999	Fuel Gas Piping From Co-Gen Site	0730	1315	<.01
15210	6/30/1999	#1 Boiler Burner Gasket	1010	1040	<.06 *

* EXCURSION
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July 16, 1999