

**Final Results for Formaldehyde (HCHO)  
Personal & Area Air Monitoring  
Vasuda Downtown Salon  
1/19/15**

1	2	3	4	5	6
Employee or Area	Work Activity	Pump on	Pump off	Sampling time (minutes)	HCHO TWA (ppm)
Area sample at Brooke Bushell's chair	Brooke brushed Brazilian Blowout smoothing solution (BB SS)* into client's hair then blow dried hair	1139	1217	38	0.17
Brooke Bushell	Brooke blow drying client's hair containing BB SS	1149	1204	15	0.26
Brooke Bushell	Brooke blow drying client's hair containing BB SS	1204	1219	15	0.27
Brooke Bushell	Brooke flat ironing (430°F) client's hair containing BB SS	1219	1234	15	<0.12**
Brooke Bushell	Brooke flat ironing (430°F) client's hair containing BB SS	1234	1249	15	<0.12**
Area sample at adjacent west chair	Area sample at adjacent west stylist chair while Brooke flat irons	1221	1257	36	<0.11**
Area sample at adjacent north chair	Area sample at adjacent north stylist chair while Brooke flat irons	1221	1258	37	<0.15**
HCHO 15-minute short-term exposure limit (STEL)					<b>2.0</b>
HCHO 8-hour time-weighted average (TWA <sub>8</sub> ) permissible exposure limit (PEL)					<b>0.75</b>
HCHO TWA <sub>8</sub> action level					<b>0.50</b>

\* MSDS for BB SS listed methylene glycol (3-7% of total content) as an ingredient

\*\* For sample results preceded with "<", the detected amount of air contaminant shown in the table above was less than the amount needed for the lab analytical method to measure the amount of air contaminant accurately.

On 1/19/15, CSHO Elwing conducted area and personal formaldehyde (HCHO) air monitoring while Brooke Bushell, Vasuda stylist, performed a hot keratin hair treatment using a hair product containing methylene glycol/HCHO (Brazilian Blowout Acai Professional Smoothing Solution BB-01). Analytical results of this air sampling for HCHO showed no occupational exposures exceeding the limits enforced by the state of Washington. The highest measured personal exposure (0.27 parts per million (ppm) HCHO averaged over 15 minutes) occurred when the stylist blow dried the client's hair following brushing of the viscous methylene glycol/HCHO hair product into the client's hair. No detectable levels of HCHO were measured during heating of the client's hair with a flat iron. The state of Washington enforces permissible exposure limits (8-hour time-weighted average (TWA<sub>8</sub>) of 0.75 ppm and 15-minute short-term exposure limit (STEL) of 2.0 ppm) and an action level (TWA<sub>8</sub> of 0.50 ppm) for formaldehyde.