CPWR THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

Respirable Crystalline Silica Task-Based Objective Data

Collection Form

CPWR-The Center for Construction Research and Training has developed a free, interactive online database of respirable crystalline silica, welding fumes, lead, and noise exposure data for the construction sector. The database can be searched by different combinations of tasks, tools, controls and other unique factors and calculates workers' estimated exposure levels. See: http://ecd.cpwrconstructionsolutions.org

The data collection form on the next page was developed to record required information for the silica branch of the database. No individual and company names, contact information, monitoring site location, or other personally identifiable information will be shared outside of the CPWR research team.

Sampling Instructions:

- Follow *NIOSH Method 7500: Silica, crystalline, by XRD method.* Other sampling and/or analysis methods may be considered with submitted justification.
- Use personal air sampling pump calibrated with less than 10% error.
- Collect personal breathing zone samples.
- Analyze samples in an accredited lab.

Sample duration can vary depending on task duration. Each sample should be representative of respirable silica exposure from one task/tool/control combination (e.g., handheld saw cutting block with local exhaust ventilation).

For more information on sampling and analysis see: https://www.cdc.gov/niosh/docs/2003-154/pdfs/7500.pdf and https://www.osha.gov/dts/otpca/nrtl/nrtllist.html

Please return the completed data collection forms, a copy of the lab analysis report, and any additional notes you feel would be helpful to sbrooks@cpwr.com. If you have any questions or concerns, please contact Sara Brooks at (301) 495-8532. Thank you!

CPWR – The Center for Construction Research and Training, c/o Sara Brooks
8484 Georgia Ave. Ste. 1000, Silver Spring, MD 20910 Phone: (301) 495-8532 Fax: (301) 578-8572 Email: sbrooks@cpwr.com

*CONTACT INFORMATION
Name:
Company:
Email:
Phone:

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Respirable Crystalline Silica
Task-Based Objective Data Collection Form

*DATE

*Note: All fields with an (*) are required.

SAMPLING LOCATION		
Site Name:	State:	Country:
*Type of Worksite: ☐ Active worksite ☐ Simulated worksite ☐ Laboratory		
*Project Type: ☐ Renovation ☐ Demolition ☐ New Construction		
Comments:		

SAMPLING ENVIRONMENT
*Environment: ☐ Outdoor ☐ Semi-indoor ☐ Indoor ☐ Confined Space
Other Ventilation Sources:

WORK CONDITIONS
*Trade/Occupation (i.e. bricklayer, laborer):
*Task (i.e. cutting, grinding):
*Material Disturbed (i.e. block, brick, concrete):
Comments:

TOOL/EQUIPMENT	
*Manufacturer:	
*Model/Type:	
*Good Working Order: ☐ Yes ☐ No	Power (hp/rpm):
Comments:	

CONTROLS	
*Type: ☐ Water ☐ LEV ☐ Combination (Water + LEV) ☐ Enclosed Cab ☐ None ☐ Other: _____	
*Good Working Order: ☐ Yes ☐ No	Comments:

SAMPLING DATA				
*Sample ID:		Sample Type: **Personal Breathing Zone**	*Flow Rate (L/min):	Pre- and Post-Calibration: performed with less than 10% error? ☐ Yes ☐ No
Time		*Total Minutes:	*Total Air Volume (L):	
On:	Off:			
Comments:				

LAB ANALYSIS			
Laboratory:	Total Respirable Dust (µg/m^3):		
Date of Analysis:	*Analysis Method: ☐ NIOSH 7500 ☐ Other (specify):_____		
*Total Respirable Crystalline Silica - (µg/m^3):	Quartz (µg/m^3):	Cristobalite (µg/m^3):	Tridymite (µg/m^3):

Please return with a copy of the lab report to: CPWR – The Center for Construction Research and Training, c/o Sara Brooks 8484 Georgia Ave. Ste. 1000, Silver Spring, MD 20910 Phone: (301) 495-8532 Fax: (301) 578-8572 Email: sbrooks@cpwr.com