



Air Monitoring Data Collection Form – Silica

Date Collected: 10/30/2017

Project: Dollar Tree

Monitoring

Personal

Area

Bulk

Sample # TB001

Employees Sampled:

ID #

Job Class.

PPE Worn (Including Resp. Type)

Mr. Rogers

12449

Mason

3M 6000 series ½ mask - P100's – Gloves, boots, hardhat, safety glasses, face shield

Silica Source Material:

8 " CMU – 82% silica from SDS & Mortar – 40-70 % from SDS

Equipment

4" Hilti grinder – SPX Blade

Activity/Task

Cut out block for beam pockets

Total Duration of Task

300 min.

Control Methods Used

Hilti VC 125 9 gal with HEPA Filters –
2000 cfm negative air machine in the space

Work Practices

Vac system maintained in accordance with the manufacturer's instruction
Ensure hoses are in good repair and not kinked
Trained worker in proper use of tools and control methods
Housekeeping to be performed with HEPA vac

Env. Conditions

Wind Speed – N/A

Temperature – 65 F

Precipitation - N/A

Indoor

Room Size: 40'x40'x9'

Outdoors

Roofed

Enclosed number of walls ____ ; Size of Space _____

Other sources of silica dust in the space:

Manual demolition of drywall across the room – approximately 40 feet away – 40 minutes.



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Method used: mod. NIOSH 0600/7500/mod. OSHA ID-142; Grav./XRD

Analyzed By: SDS Galson Labs

Sample On: 7:05
 Sample Off: 13:25
 Total Time: 380 min.

Pre Cal: 2.5 lpm
 Post Cal: 2.49 lpm
 Avg. Flow Rate: 2.5 lpm

Calculations / Notes

Sample Number	Work Location/ Worker's Name	Work Task	Constituent	OSHA Limit	Results in mg/m ³ or ug/m ³	8 Hr TWA	Compared to OSHA PEL	Compared to OSHA AL
TB001	Dollar Tree / Mr. Rogers	Cutting Beam Pockets with Grinder	Respirable Crystalline Silica	50 ug/m ³	23 ug/m ³	18.20 ug/m ³	Under	Under