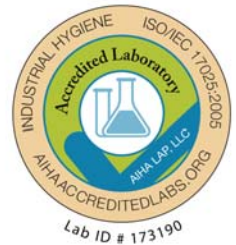




# Analysis of Respirable Dust and Airborne Crystalline Silica

**By X-Ray Diffraction (XRD)**

NIOSH 0600 / Modified from NIOSH Method 7500 & OSHA ID-142



**Client:** Scientific Analytical Institute  
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**Attn:** Nathan Durham

**Lab Order ID:** 70000

**Date Received:** 3/19/2018

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**Project:** SAI XRD Demonstration Report

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Sample ID	Description	Air Volume (m <sup>3</sup> )	Analyte	Analyte Detected	LOD (µg Analyte)	µg Analyte	CONCENTRATION µg/m <sup>3</sup>
Lab Sample ID	Lab Notes						
ABC-01	Area 1	0.816	Dust	N/A	50	N/A	N/A
			Alpha Quartz	Detected	5	0.010	0.012
			Cristobalite	BDL	5	< 0.005	< 0.0061
			Tridymite	BDL	10	< 0.01	< 0.012
			<b>Total Silica</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>0.012</b>
ABC-02	Area 2	0.816	Dust	N/A	50	N/A	N/A
			Alpha Quartz	BDL	5	< 0.005	< 0.0061
			Cristobalite	BDL	5	< 0.005	< 0.0061
			Tridymite	BDL	10	< 0.01	< 0.012
			<b>Total Silica</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>BDL</b>
ABC-03	Area 3	0.816	Dust	N/A	50	N/A	N/A
			Alpha Quartz	BDL	5	< 0.005	< 0.0061
			Cristobalite	BDL	5	< 0.005	< 0.0061
			Tridymite	BDL	10	< 0.01	< 0.012
			<b>Total Silica</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>BDL</b>

BDL: Below Detectable Limit

Ired Gulley  
Analyst

Lab Director

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA IHPAT program. IHPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. Time-weighted average (TWA) calculations are based on customer supplied data and valid only for samples included in the specified TWA group