Analysis for Airborne Metals Concentration

by Inductively-Coupled Plasma (ICP)
NIOSH 7303

Customer: Scientific Analytical Institute, Inc.
4604 Dundas Dr.
Greensboro, NC 27407

Attn: Nathan Durham

Project: 65-12-184

Lab Order ID: **10033057**
Analysis: IPA
Date Received: 09/20/2023
Date Reported: 09/21/2023

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m³)
1	Torch cutting metal beams & metal pipes	980	Al	0.13	490	500
			Be	0.0050	<0.0050	<0.0051
			Cd	0.025	5.0	5.1
			Co	0.13	1.1	1.2
			Cr	0.050	0.58	0.59
			Cu	0.13	4.3	4.4
			Fe	0.13	5300	5500
			Mn	0.013	2.0	2.0
			Mo	0.13	1.1	1.2
			Ni	0.13	0.24	0.24
			Pb	0.13	0.70	0.71
			Sb	0.38	<0.38	<0.38
			Ti	0.025	0.41	0.41
			V	0.13	2.8	2.8
10033057_0001			Zn	0.13	2.1	2.2

Athena Summa (2)
Analyst

Approved Signatory

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Sample ID *Lab Sample ID*	Description *Lab Notes*	Volume (L)	Element	Reporting Limit (µg)	Concentration (µg)	Concentration (µg/m³)
2	**Torch cutting metal duct work**	650	Al	0.13	310	480
			Be	0.0050	<0.0050	<0.0077
			Cd	0.025	<0.025	<0.038
			Co	0.13	0.19	0.29
			Cr	0.050	0.39	0.60
			Cu	0.13	1.6	2.5
			Fe	0.13	110	180
			Mn	0.013	0.22	0.35
			Mo	0.13	0.54	0.84
			Ni	0.13	2.6	3.9
			Pb	0.13	1.7	2.6
			Sb	0.38	<0.38	<0.58
			Ti	0.025	1.4	2.1
			V	0.13	5.1	7.8
10033057_0002			Zn	0.13	2.5	3.8

Athena Summa (2)
Analyst

Approved Signatory