S & R Environmental Consulting, Inc.
5801 Logan Street Suite 200
Denver, CO 80216
Phone: 303-297-1645 Fax: 303-297-1646

S&R Environmental Consulting/ Boots Construction

Indoor Air Quality (IAQ) Testing Summary Sheet

EPA Denver Renovation Project
1595 Wynkoop St.
Denver, CO 80202

3rd Floor (Pre-Testing)- January 18, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	120 µg/m³	500 µg/m³	N
CO	<9.9 ppm	9 ppm	Unknown**
4-PCH	<1.2 µg/m³	6.5 µg/m³	N
Formaldehyde	2.1 ppb	27 ppb	N
PM-10	NA*	50 µg/m³	NA*
CO_2	550 ppm	5,000 ppm	N
Caprolactam	<0.015 mg/m³	5 mg/m³	N

4th Floor (Pre-Testing)- January 18, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	170 µg/m³	500 µg/m³	N
CO	<6.2 ppm	9 ppm	N
4-PCH	<1.2 µg/m³	6.5 µg/m³	N
Formaldehyde	3.7 ppb	27 ppb	N
PM-10	NA*	50 µg/m³	NA*
CO_2	610 ppm	5,000 ppm	N
Caprolactam	<0.015 mg/m³	5 mg/m³	N

4th Floor (staff complaint area)- Febuary 16, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
PM-10	100	50 µg/m³	Y

1st Floor Lobby (Pre-Testing, PM-10 Only)- Febuary 23, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
PM-10	87	50 µg/m³	Y

5th Floor (Pre-Testing)- February 28, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	200 µg/m³	500 µg/m³	N
CO	<6.1 ppm	9 ppm	N
4-PCH	<1.1 µg/m³	6.5 µg/m³	N
Formaldehyde	4.2 ppb	27 ppb	N
PM-10	30 µg/m³	50 µg/m³	N
CO_2	620 ppm	5,000 ppm	N
Caprolactam	<0.014 mg/m³	5 mg/m³	N

6th Floor (Pre-Testing)- February 28, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	180 µg/m³	500 µg/m³	N
CO	<7.0 ppm	9 ppm	N
4-PCH	<1.1 µg/m³	6.5 µg/m³	N
Formaldehyde	4.0 ppb	27 ppb	N
PM-10	52 µg/m³	50 µg/m³	Y
CO_2	580 ppm	5,000 ppm	N
Caprolactam	<0.014 mg/m³	5 mg/m³	N

2nd Floor (Pre-Testing)- March 1, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	210 µg/m³	500 µg/m³	N
CO	<6.3 ppm	9 ppm	N
4-PCH	<1.1 µg/m³	6.5 µg/m³	N
Formaldehyde	3.0 ppb	27 ppb	N
PM-10	160 µg/m³	50 µg/m³	Y
CO_2	590 ppm	5,000 ppm	N
Caprolactam	<0.015 mg/m³	5 mg/m³	N

7th Floor (Pre-Testing)- March 1, 2018

Parameter	Result	Max. Limit	Value Exceeded (Y/N)
TVOC	160 µg/m³	500 µg/m³	N
CO	<6.1 ppm	9 ppm	N
4-PCH	<1.1 µg/m³	6.5 µg/m³	N
Formaldehyde	3.4 ppb	27 ppb	N
PM-10	480 µg/m³	50 µg/m³	Y
CO_2	630 ppm	5,000 ppm	N
Caprolactam	<0.014 mg/m³	5 mg/m³	N

NA*= Issue with PM-10 filter during sampling. Could not recover values. Recommend conduct post-testing for values to determine if below Max. Limit.

Unknown= Value was found to be less than 9.9 ppm but could not be exactly quantified due to the limit of detection being 9.9 ppm. Actual value may or may not be below 9 ppm. Upon laboratory explanation, limit of detection was high due to atmospheric pressure differential between location of calibration (Cinnaminson, NJ approx. 79' elevation) and sample location (Denver, CO approx. 5,280' elevation). Recommended to not use TO-15 Drager CMS for CO analysis and use real-time data logging meter or other method. T0-15 analysis and Drager CMS still appropriate for all other applicable analysis including CO_2 since limit of detection is significantly different that Max. Limit.**