

NextDay Inspect

Air Quality Sample Report



10000 Sample Grove Square, Unit 100, Sample, VA 10000
Inspection prepared for: Client
Real Estate Agent: Agent

Date of Inspection: 11/15/2019 Time: 12:00 PM
Age of Home: 2002 Size: 1685
Order ID: 2753

Inspector: Azmi Alkurd
License #s: VA-3380001090, MD-33013
46179 Westlake Dr, Suite 200-B, Sterling, VA 20165
Phone: (703)450-6398 Fax: (202)204-6098

Email: info@nextdayinspect.com
<http://www.NextDayInspect.com>



Report Summary

PM 2.5		
Page 4 Item: 1	PM 2.5 Level	• PM 2.5 level in the house at the time of the inspection ranged between 2 and 7 $\mu\text{g}/\text{m}^3$ with an average of 3.095 $\mu\text{g}/\text{m}^3$. This is normal acceptable level pollution level.
PM 10.0		
Page 5 Item: 1	PM 10.0 Level	• PM 10.0 level in the house at the time of the inspection ranged between 2 and 8 $\mu\text{g}/\text{m}^3$ with an average of 3.143 $\mu\text{g}/\text{m}^3$. This is normal acceptable level.
PM 1.0		
Page 6 Item: 1	PM 1.0 Level	• PM1.0 level in the house at the time of the inspection ranged between 1 and 5 $\mu\text{g}/\text{m}^3$ with an average of 2.047 $\mu\text{g}/\text{m}^3$. This is normal acceptable level.
HCHO		
Page 7 Item: 1	Formaldehyde Level	• HCHO level at the time of the inspection was at 0.046 to 0.09 mg/m^3 which corresponds 0.039 to 0.076 PPM . The long exposure recommended level is not to exceed 0.8 PPM or 1.0 mg/m^3 . The level of HCHO at the time of the inspection is very low.
TVOC		
Page 8 Item: 1	Total volatile organic compounds	• TVOC level at the time of the inspection was about 189 –371 $\mu\text{g}/\text{m}^3$, this corresponds to levels 159 to 313 PPB . This is an acceptable indoor level. Occasional irritation or discomfort may be possible with sensitive individuals. There is a low likelihood that specific VOC sources are present.
Air Pollution		
Page 9 Item: 1	Air Pollution Level	• Indoor Air pollution level at the time of the inspection was between 9 and 25 with an average of 14.6. AQI values at or below 30 are generally thought of as satisfactory.

Moisture, Humidity and Temperature

1. Room Humidity

NVEP VEP SAM NASA EXCL.
M

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2. Exterior Humidity

NVEP VEP SAM NASA EXCL.
M

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CO

1. Carbon Monoxide

NVEP VEP SAM NASA EXCL.
M

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Observations:

- **ASHRAE** Standard 62-1989 recommend a level below 9 **PPM** for living areas.
- CO level in the house at the time of the inspection was a normal background level

PM 2.5

1. PM 2.5 Level

NVEP VEP SAM NASA EXCL.
M

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Observations:

- Particulate Matter 2.5 (PM2.5), refers to tiny particles or droplets in the air that are 2.5 microns or less in width. These particles are not visible by the naked eye.
- National Ambient Air Standards are established to be protective of public health. The short-term standard (24-hour or daily average) is 35 micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$) and the long-term standard (annual average) is 12 $\mu\text{g}/\text{m}^3$.
- PM 2.5 level in the house at the time of the inspection ranged between 2 and 7 $\mu\text{g}/\text{m}^3$ with an average of 3.095 $\mu\text{g}/\text{m}^3$. This is normal acceptable level pollution level.

PM 10.0

1. PM 10.0 Level

NVEP VEP SAM NASA EXCL.
M

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Observations:

- Particulate Matter 10.0 (PM 10), refers to tiny particles or droplets in the air that are 10.0 microns or less in width. These particles are not visible by the naked eye.
- National Ambient Air Standards are established to be protective of public health. The recommended level before encountering a health impact is 0 to 50 $\mu\text{g}/\text{m}^3$.
- PM 10.0 level in the house at the time of the inspection ranged between 2 and 8 $\mu\text{g}/\text{m}^3$ with an average of 3.143 $\mu\text{g}/\text{m}^3$. This is normal acceptable level.

PM 1.0

1. PM 1.0 Level

NVEP VEP SAM NASA EXCL.
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Observations:

- Particulate Matter 1.0 (PM 1), refers to tiny particles or droplets in the air that are 1.0 microns or less in width. These particles are not visible by the naked eye.
- PM1.0 level in the house at the time of the inspection ranged between 1 and 5 $\mu\text{g}/\text{m}^3$ with an average of 2.047 $\mu\text{g}/\text{m}^3$. This is normal acceptable level.

HCHO

1. Formaldehyde Level

NVEP VEP SAM NASA EXCL.
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Observations:

- formaldehyde (HCHO) - Colorless, poisonous, highly water-soluble gas with an obnoxious odor. Used in the manufacture of disinfectants, preservatives, and hundreds of industrial and consumer products such as adhesives, carpeting, decorative paneling, foam insulation, drapery, fiber and particle boards, and permanent press fabrics.

- Health Effects of Exposure to Formaldehyde:

- > .01 PPM mild irritation or allergic sensitization in some people

- > 0.5 PPM irritation to eyes & mucous membranes

- > 1.0 PPM possible nasopharyngeal cancer

- >3.0 PPM respiratory impairment and damage

- HCHO level at the time of the inspection was at 0.046 to 0.09 mg/m³ which corresponds 0.039 to 0.076 PPM. The long exposure recommended level is not to exceed 0.8 PPM or 1.0 mg/m³. The level of HCHO at the time of the inspection is very low.

TVOC

1. Total volatile organic compounds

NVEP VEP SAM NASA EXCL.
M

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Observations:

- TVOC -Total Volatile Organic Compounds; can cause serious health effects in both the short and long term. Health effects vary from minor eye, nose and throat irritations all the way to liver and kidney damage or cancer, depending on the level of exposure.

- TVOC at home levels:

Less than 200 ----- Ideal

200-300 -----Good

300 - 400 -----Acceptable

400 - 500 ----- Marginal

More than 500 -----Actionable level, the higher the number, the worse the problem

- TVOC level at the time of the inspection was about 189 –371 $\mu\text{g}/\text{m}^3$, this corresponds to levels 159 to 313 **PPB**. This is an acceptable indoor level. Occasional irritation or discomfort may be possible with sensitive individuals. There is a low likelihood that specific VOC sources are present.

Air Pollution

1. Air Pollution Level

NVEP VEP SAM NASA EXCL.
M

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Observations:

- AIQ values at or below 30 are generally thought of as satisfactory. **AQI** values between 31 and 100 are generally thought of as marginally poor, AQI values above 100 are generally thought of as poor.

- Indoor Air pollution level at the time of the inspection was between 9 and 25 with an average of 14.6. AQI values at or below 30 are generally thought of as satisfactory.

Glossary

Term	Definition
AQI	Air Quality Index
ASHRAE	American Society of Heating, Refrigerating and Air-Conditioning Engineers
PPB	Parts per billion
PPM	Parts per million