



March 3, 2020

Mr. Terry Zerwas  
St. Michael-Albertville Schools, ISD #885  
11343 50<sup>th</sup> Street NE  
Albertville, MN 55301

**RE: Community Education – Physical Education Office  
Continuous Radon Monitoring Results  
IEA Project #201911211**

Dear Mr. Zerwas:

IEA used a continuous radon monitor (CRM) to measure radon levels in the Community Education - Physical Education Office. The purpose of the monitoring was to determine whether radon levels were within an acceptable range during typical work hours.

The CRM was placed by the following certified radon measurement professional.

Kennedy Peterson	Certification Number: RMEA-00046	<i>KEUPR</i>
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The room is currently used for storage and is unoccupied. The room was tested because it was being labeled an “office”.

## INTRODUCTION

The Minnesota Department of Health (MDH) and the Environmental Protection Agency (EPA) have established a recommended action level in frequently occupied areas of 4.0 picoCuries per liter (pCi/L) for an annual average. The average radon level over each workday was compared to the Action Level.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
9201 West Broadway, #600  
Brooklyn Park, MN 55445  
763-315-7900 / FAX 763-315-7920  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-5301  
800-233-9513

ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6695  
800-233-9513

BRAINERD  
601 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0703  
800-233-9513

MARSHALL  
1420 East College Drive  
Marshall, MN 56258  
507-476-3599 / FAX 507-537-6985  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

Short-term radon testing, conducted on January 14, 2020, to January 17, 2020, indicated a radon level slightly below the EPA-and MDH-recommended Action Level. The MDH's *Best Practices for Radon Measurement in Minnesota Schools and Commercial Buildings* recommends follow-up testing in areas where initial testing results are at or above the action level in accordance with ANSI/AARST 'Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings' (ANSI/AARST MALB 2014). A CRM is recommended to determine if elevated levels are present during occupied times. Radon levels can fluctuate with the operation of the ventilation system as well as with changes in barometric pressure. The CRM provides hourly radon readings so that levels can be evaluated for periods while the room is occupied.

A Radalink, Inc. RADALINK Series 6000 Radon Telemonitor was used for the testing, which is provided and maintained by Radalink, Inc., MDH license #RL-00009, located at 5599 Peachtree Road, Atlanta, GA 30341.

## EVALUATION CRITERIA

The MDH and the EPA have established a recommended action level in frequently occupied areas of 4.0 picocuries per liter (pCi/L) for an annual average. Testing was conducted during school days when the building is significantly occupied. Testing was conducted during the heating season when the average outdoor temperature is less than 65°F, as recommended by the MDH, when the ventilation system was operating normally, and windows and doors were closed. Consequently, sampling under these "closed" conditions is when the radon risk is most likely to occur. The MDH recommends follow-up testing for sampling results that are above the action level. Please refer to the following table for MDH guidelines:

RESULTS (pCi/L)	RECOMMENDED ACTION
LESS THAN 4	Re-test after changes to foundation or HVAC and every 5 years
GREATER THAN 4	Conduct CRM short-term testing during winter months
LESS THAN 4 ( <b>DURING OCCUPANCY</b> ) AFTER CRM TESTING	Repeat CRM testing if not conducted during winter or if conducted during abnormal ventilation. Otherwise consider re-testing after changes to foundation or HVAC and every 5 years
GREATER THAN 4 ( <b>DURING OCCUPANCY</b> ) AFTER CRM TESTING	Reduce radon in rooms to less than 4 through radon mitigation. Conduct CRM testing to verify radon reduction.

## RESULTS & DISCUSSION

From February 25, 2020, to February 28, 2020, continuous radon monitoring was conducted in the Community Education – Physical Education Office. A CRM was placed in this room for about 72 hours. The MDH recommends a minimum of 48 hours. Days when the room was not occupied (e.g., weekends & holidays) were not included in the monitoring. The hourly CRM data is provided in Appendix A.

A summary of the CRM data, including previous results, is provided in Table 1.

**Table 1: Community Education**

60 Central Ave W  
St. Michael, MN 55376

Continuous Radon Monitoring Results

Date Range	Room / Location	Day 1 Range/(Ave.) (pCi/L)		Day 2 Range/(Ave.) (pCi/L)		Day 3 Range/(Ave.) (pCi/L)		Overall Average (pCi/L)		Results from the Previous Testing (pCi/L)
2/25 – 2/28	Phy Ed Office	<sup>1</sup> 0.59	<sup>2</sup> 0.80	0.67	1.33	0.89	1.32	0.72	1.15	3.6
<sup>1</sup> Readings during occupied times: 7 a.m. to 5 p.m.										
<sup>2</sup> Readings during unoccupied times: 12 a.m. to 7 a.m. and 5 p.m. to 11:59 p.m.										

pCi/L – picoCuries per liter of air

**Discussion of Results:**

- Average radon levels over the workday in the Community Education – Physical Education Office were 0.59 pCi/L on the first day of testing, 0.67 pCi/L on the second day of testing, and 0.89 pCi/L on the third day of testing.
- Average radon levels in the Community Education – Physical Education Office were below the Action Level during the workdays.

**CONCLUSIONS & RECOMMENDATIONS**

The results of the CRM indicate that radon levels in the Community Education – Physical Education Office were below the action level during the workday. The testing was performed during the winter season so the testing may be representative of “worst case” conditions.

The EPA has established recommended guidelines for permissible radon concentrations in schools. The following are general recommendations for frequently occupied areas of schools:

- Retest the building at least every 5 years and in conjunction with any sale of a building.
- In addition, be certain to test again when any of the following circumstances occur:
  - A new addition is constructed, or a significant renovation occurs.
  - A ground contact area not previously tested is occupied.
  - Heating or cooling systems are significantly altered resulting in changes to air pressures or distribution.
  - Ventilation is significantly altered by extensive weatherization, changes to mechanical systems or comparable procedures.
  - Significant openings to soil occur due to:
    - Ground water or slab surface water control systems (e.g., sumps, perimeter drain tile, shower/tub retrofits, etc.)
    - Natural settlement causing major cracks to develop
    - Earthquakes, construction blasting, or formation of sink holes nearby
    - A mitigation system is altered, modified or repaired.
- Rooms should be retested during the winter heating season (i.e. under “closed” conditions) which is typically “worst case” conditions.
- Per Minnesota Statutes, section 123B.571, school districts are required to report radon test results at a school board meeting and report results to the MDH. IEA is able to assist with presenting results to the school board, and the MDH reporting. The MDH ‘School Radon Testing Form’ is located in Appendix B.

For more information regarding radon, see the EPA's A Citizen's Guide to Radon at <http://www.epa.gov/radon>. MDH can be contacted at [health.indoorair@state.mn.us](mailto:health.indoorair@state.mn.us) or 651-201-4601.

## GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from continuous radon monitoring at the St. Michael-Albertville Community Education building and are representative of the location and time period sampled. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted radon testing practices. Other than as provided in the preceding sentence and in our proposal #8573 dated November 5, 2019, regarding radon testing services at district locations, including the General Conditions attached thereto, no warranties are extended or made.

IEA appreciates the opportunity to submit this analysis to St. Michael-Albertville Schools, ISD #885.

Should you require additional radon testing or have any questions regarding radon or any other health- or safety-related concerns, please do not hesitate to contact our office.

Sincerely,

IEA, Inc.



Daniel Holcomb  
EHS Account Manager  
EHS Division

DH/khb 03032020

Enc.

# **Appendix A**

*Continuous Radon Monitor Hourly Data,  
Maps, and Weather Report*

## Radon Placement Checklist

<b>Building</b>	St Michael-Albertville Community Center	<b>Placement Date</b>	02-25-2020
<b>Detector Type</b>	CRM	<b>Placement Time</b>	08:27 AM (-6 GMT)

*The Building Manager is asked about crawlspace vents, blocked air intakes, and current ventilation issues. Any observations of temporary conditions that could affect the radon tests are noted below under "Other."*

Obtain measurement device(s) for site to be tested and record each test device serial number. Yes

Required test conditions were observed when the measurement device was deployed. Test under normal occupied temperature (65 to 80 degrees F). Yes

Record start time, date, and location for the test device. Yes

Place in an area where the device is least likely to be tampered with. Yes

At the test location per device instructions, open the test device or start the CRM. Yes

Each occupied room at or below ground level must be tested in school buildings. Yes

If the ground-contacted area of the test location is greater than 2,000 sq. ft., an additional test device(s) was placed. Yes

Do not place the test device in drafts from heating or air conditioning vents or fans. Yes

Do not place the test device in unoccupied areas, or in high humidity areas. Yes

Either place the measurement device on a stable surface (but not on a stone surface) or, if called for in the device instructions, hang the device(s) at normal breathing level. Yes

Do not place the test device on or near heat sources nor in direct sunlight. Yes

Place the test device at least 20 inches above the floor or, if the device is to be suspended, about 6 feet above the floor but a minimum of 12 inches below the ceiling. Yes

Place the test device at least 3 feet from windows or exterior doors and a minimum of 12 inches from an exterior wall. Yes

Place the test device at least 4 inches from other objects. Yes

Operating conditions represent the greatest amount of significantly occupied time. Yes

Building is occupied: Year Round

Devices are not placed when severe weather conditions are expected according to the National Weather Service. N/A

Closed building conditions were in place a minimum of 12 hours before the radon test began. N/A

Do operating conditions emphasize when clear characterization of radon hazard is most likely? Yes

Descriptions of conditions and possible effects that might warrant repeating the test and recommended timetable for repeating the test: Yes

Rooms that should have been tested, but were not and why:


Rooms that were tested but are not expected to be occupiable:

Rooms that were tested that could be occupied with minor renovation:

Rooms that were tested that were vacant during test period:

Any additional considerations:

Signature



## Radon Retrieval Checklist

<b>Building</b>	St Michael Community Education Center
<b>Retrieval Date</b>	02-28-2020
<b>Retrieval Time</b>	08:35 AM (-6 GMT)

<b>Address</b>	60 Central Avenue W St Michael MN 55376
<b>Detector Type</b>	CRM

Retrieve and reseal the measurement device and record stop time and date on the test device and/or COC.

Yes

When the measurement device was retrieved were required test conditions observed?

Yes

Note any changes in the detector placement.

### Notes

*Return the measurement device(s) to the analytical laboratory as soon as practical. Activated charcoal adsorption devices must be mailed to the analytical laboratory within 48 hours.*



Signature



# CERTIFIED RADON REPORT

March 2, 2020

Test Number: 2934-96

**Property Inspected:** 60 Central Ave, Saint Michael, MN 55376

**Licensed Radalink Radon Inspector:**  
**Institute for Environmental Assessment**  
**Jeffrey Athmann**  
**9201 West Broadway**  
**#600**  
**Brooklyn Park, MN 55445**  
**Phone: 763-315-7900**

Test performed for:  
Saint Michael Albertville Schools

<b>Fax:</b>		<b>Placed By:</b>	Kennedy Peterson (MN RMEA-00046)	<b>Temp.</b>	<b>Pressure</b>	<b>R.H.</b>
<b>Calibrated:</b>	02/18/2020 - 02/17/2021	<b>Retrieved By:</b>	Kennedy Peterson (MN RMEA-00046)	<b>Min:</b>	73.0 30.1	16
<b>Test Started:</b>	02/25/2020 8:37 AM	<b>Test Site:</b>	Gymnasium Phy Ed Office	<b>Avg:</b>	76.4 30.2	19
<b>Test Ended:</b>	02/28/2020 8:47 AM	<b>Test Duration:</b>	72 hours	<b>Max:</b>	77.0 30.3	23

## AVERAGE RADON CONCENTRATION:

**1.0 pCi/l**

Test has met minimum EPA sampling duration.

Uncertainty:  $\pm 2.34\%$

	02/25/2020		02/26/2020		02/27/2020		02/28/2020	
Time	pCi/l	Flags	pCi/l	Flags	pCi/l	Flags	pCi/l	Flags
00:37 am			0.7		1.8		1.4	
01:37			0.4		2.3		1.6	
02:37			1.1		2.2		1.1	
03:37			1.0		2.1		1.5	
04:37			0.1		1.4		1.1	
05:37			1.1		0.8		1.1	
06:37			1.7		1.2		1.5	
07:37			0.8		0.7		1.0	
08:37			0.2		1.2		0.6	
09:37	0.7		0.5		0.8			
10:37	0.2		0.9		0.4			
11:37	0.7		0.3		1.0			
12:37 pm	0.9		0.6		0.9			
01:37	0.1		1.1		0.7			
02:37	0.7		0.7		1.0			
03:37	0.8		0.8		0.6			
04:37	0.3		0.7		1.8			
05:37	0.9		0.8		0.7			
06:37	1.5		0.6		1.2			
07:37	0.9		0.3		1.0			
08:37	0.4		1.2		1.1			
09:37	0.5		1.4		2.1			
10:37	0.1		0.8		2.0			
11:37	0.9		1.2		1.5			

Flags: P= AC Power Disruption; T=Tilt  
Eq. = Equilization Period

While every effort was made to maintain optimum quality control and EPA Protocol during the testing period, neither Radalink, Inc. or its licensed agents provide any warranty, expressed or implied, for the consequences of erroneous test results. There can be some uncertainty with any measurement due to statistical variations, extreme weather changes, operation of the building, and other factors, Radalink, Inc. and its licensed operators shall not be liable under any charge or claim for losses, claims, charges, fees, demands, expenses, or damages resulting from a radon test. This report is subject to the terms on the last page of the document.



# ENVIRONMENTAL DATA

MONITOR-TEST NUMBER: 2934-96

Property Inspected: 60 Central Ave  
Saint Michael, MN 55376

	02/25/2020			02/26/2020			02/27/2020			02/28/2020		
Time	Temp	InHg	RH	Temp	InHg	RH	Temp	InHg	RH	Temp	InHg	RH
00:37 am				75.0	30.3	19	77.0	30.2	19	77.0	30.1	19
01:37				75.0	30.3	19	77.0	30.1	19	77.0	30.1	19
02:37				75.0	30.3	19	77.0	30.1	19	77.0	30.1	19
03:37				75.0	30.3	19	77.0	30.1	19	77.0	30.1	19
04:37				77.0	30.3	19	77.0	30.1	19	77.0	30.1	19
05:37				77.0	30.3	19	77.0	30.1	19	77.0	30.1	19
06:37				77.0	30.3	19	77.0	30.1	19	77.0	30.1	16
07:37				77.0	30.3	19	77.0	30.2	16	77.0	30.1	16
08:37				77.0	30.3	19	77.0	30.2	19	77.0	30.1	16
09:37	78.0	30.3	19	77.0	30.3	19	77.0	30.2	19			
10:37	77.0	30.3	19	77.0	30.3	19	77.0	30.2	19			
11:37	77.0	30.3	19	77.0	30.3	19	77.0	30.2	19			
12:37 pm	75.0	30.3	19	77.0	30.3	19	77.0	30.2	19			
01:37	75.0	30.2	19	77.0	30.2	19	77.0	30.1	19			
02:37	75.0	30.3	23	77.0	30.2	19	77.0	30.1	19			
03:37	75.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
04:37	75.0	30.3	23	77.0	30.2	19	77.0	30.1	19			
05:37	73.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
06:37	73.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
07:37	73.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
08:37	75.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
09:37	73.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
10:37	75.0	30.3	19	77.0	30.2	19	77.0	30.1	19			
11:37	75.0	30.3	19	77.0	30.2	19	77.0	30.1	19			

AVERAGE RADON CONCENTRATION:

1.0 pCi/l



Reviewed and certified by

*Terry Howell*

Terry Howell, Quality Assurance Mgr.  
Radalink, Inc. NRPP 135791T

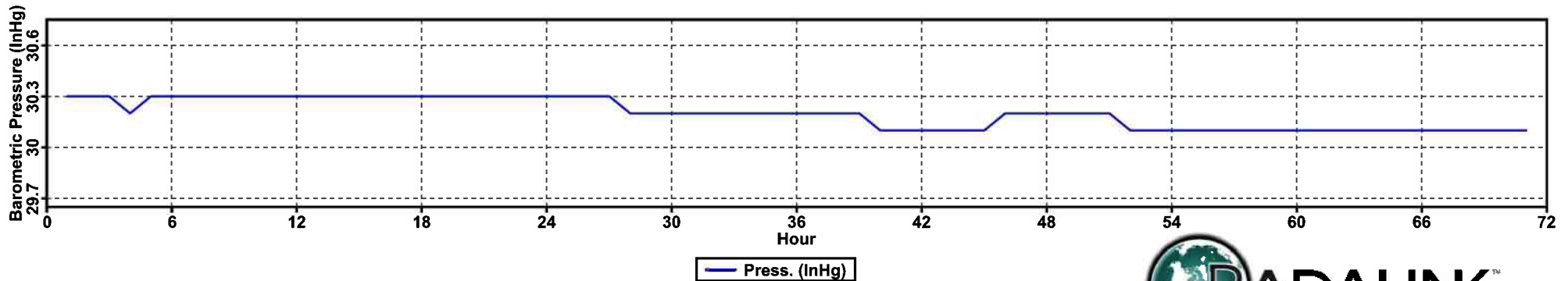
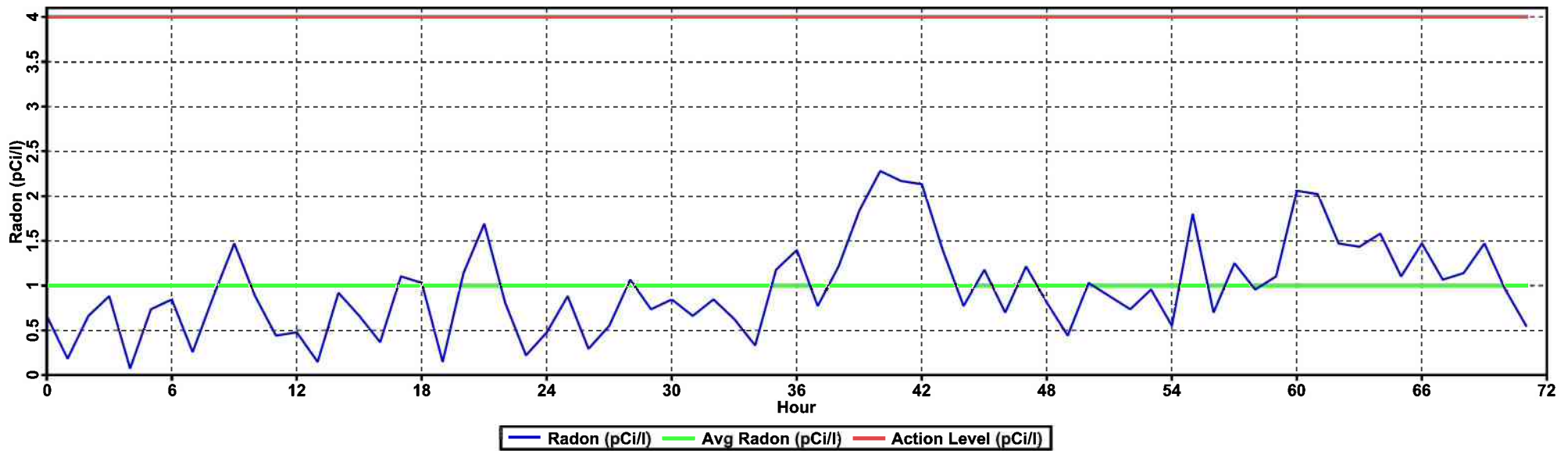
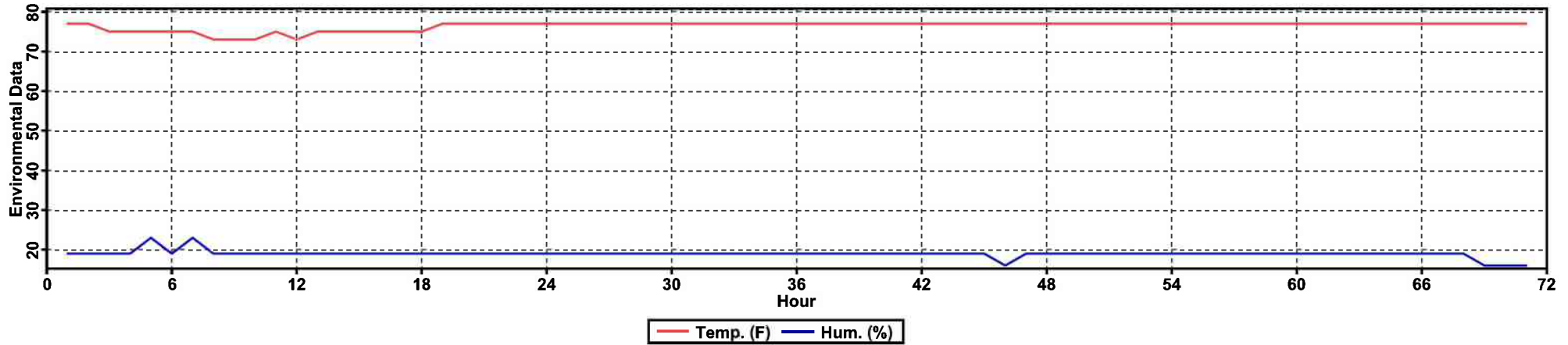
	Minimum	Average	Maximum	Variance
Temperature:	73.0	76.4	77.0	1.26
Barometric Pressure:	30.1	30.2	30.3	0.01
Relative Humidity:	16	19	23	0.96

NOTE: The first hour's environmental data is excluded from the table above.

Radalink, Inc. 5599 Peachtree Road Atlanta, GA 30341 Phone: (800)295-4655

# GRAPHICAL DATA VIEW

MONITOR-TEST NUMBER: 2934-96



Property Inspected: 60 Central Ave, Saint Michael, MN 55376  
**AVERAGE RADON CONCENTRATION: 1.0 pCi/l**



## Voluntary Compliance Form

### RADON TESTING DECLARATION OF VOLUNTARY COMPLIANCE

As the responsible party for the test location, I hereby acknowledge that to the best of my knowledge:

- 1) I agree to keep and/or have kept the building(s) closed (except for normal entry and exit) for a minimum of 12 hours prior to the start of the test.
- 2) I agree to keep and/or have kept windows shut during the entire test period as well as all exterior doors except for normal entry and exit.
- 3) I agree to keep and/or have kept the heating and cooling system set to operate normally with the thermostat(s) set between 65 and 80° F.
- 4) I will and/or have not operated fans unless they are the primary and normal heating sources.
- 5) I will and/or have not excessively operated any clothes dryers, kitchen exhaust fans, and bathroom fans.
- 6) I will and/or have not tamper(ed) with, remove(d) or change(d) the location of the test device(s).

### TEST SITE(S) INFORMATION

Responsible Party's Name (printed): TEKKY L. Zerwa 9  
Responsible Party's Signature: [Signature]  
Date: 1-8-19

### IN THE EVENT OF NONSIGNATURE

In the event that either the responsible party or occupant will not sign this form, provide an explanation of the reason for lack of signature:

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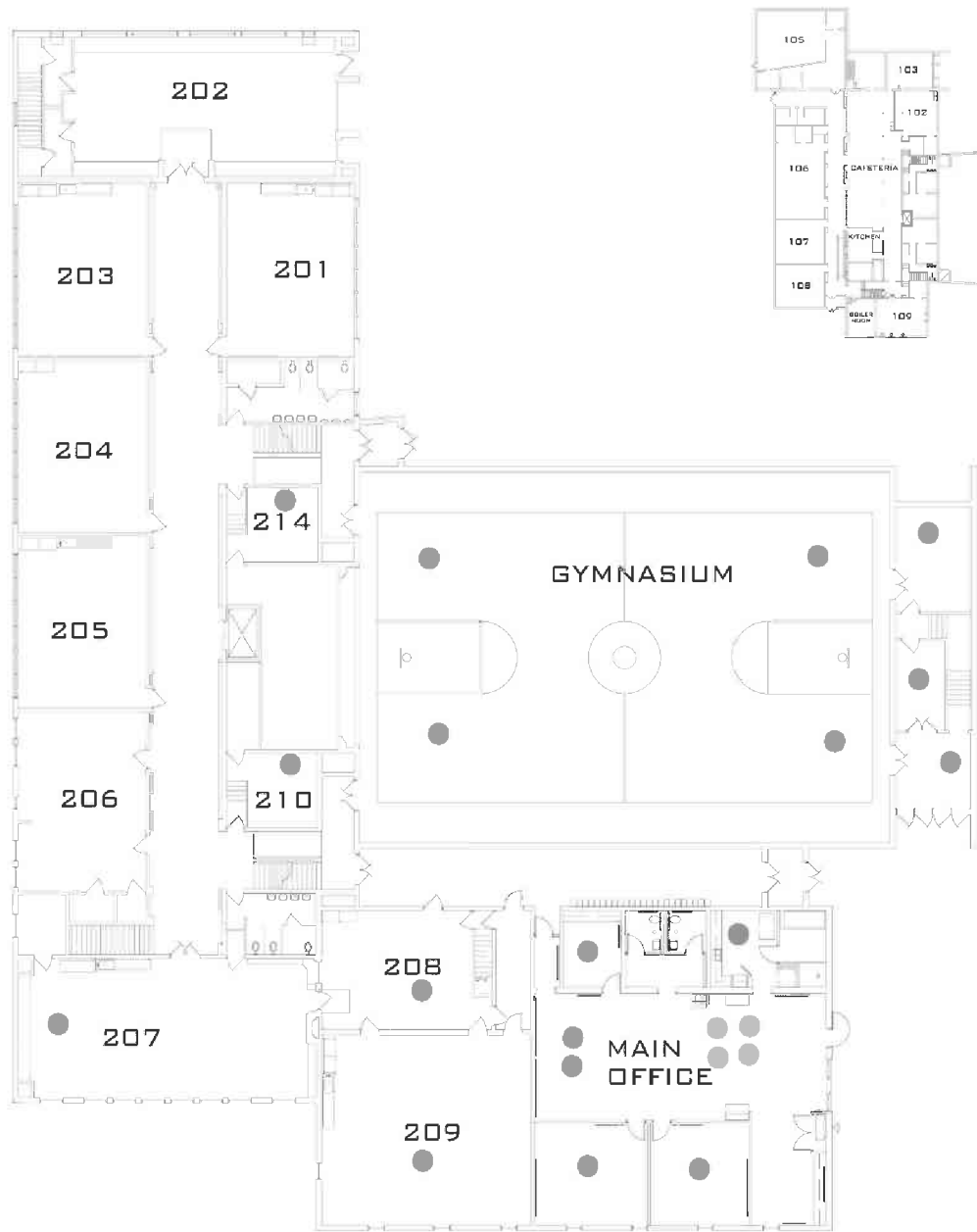
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LEGEND

- Radon Detector (<4.0 pCi/L)
- Duplicate Sample
- Field Blank Sample
- Missing Sample



# HOW TO INTERPRET YOUR TEST RESULTS

THIS REPORT RELATES ONLY TO THE LOCATION(S) TESTED DURING THE MEASUREMENT PERIOD

These results should be interpreted in accordance with the EPA's guidance as published in EPA Publication No. 402-K-008 "Home Buyer's and Seller's Guide to Radon" and EPA Publication No. 402-K92-001, "Citizen's Guide to Radon".

**Because radon is the second leading cause of lung cancer**, the World Health Organization (WHO) and the U.S. Surgeon General recommend testing all homes for radon and mitigating those with an average concentration above the U.S. EPA action level of 4 picocuries per Liter (4 pCi/L) or higher. Even if your test result is below 4 pCi/L, mitigation may provide additional reduction of the risk of lung cancer. Find more information at [Radalink.com/results](http://Radalink.com/results).

**The Radalink Radon TeleMonitor** (NRPP Device # 00472, NRSB Device # 31814) or **The Radalink AirCat® Monitor** (NRPP Device # 00477, NRSB Device # 31815) used to perform this test is EPA, NRSB and/or NRPP approved and meets the Single Test Option requirements (EPA 402-R-93-003, Section 3.2.3) for conducting radon measurements in the context of a real estate transaction and may be used for determining the necessity for radon mitigation.

**Radon reduction systems work!** Professionally installed radon mitigation systems can reduce the radon levels in your home by up to 99%. Thousands of people have reduced radon levels in their homes. Maintaining a radon reduction system takes little effort to keep the system working properly and the radon levels low. EPA recommends that you have a qualified contractor (NRPP certified or state licensed) fix your home if radon levels are confirmed to be 4 pCi/L or higher. Find a licensed mitigator at [Radalink.com/mitigators](http://Radalink.com/mitigators). For more information on how to reduce your radon health risk, contact your state radon office:

Alabama	800-582-1866	Illinois	217-782-1325	Montana	800-546-0483	Rhode Island	401-222-7796
Alaska	907-269-8000	Indiana	800-272-9723	Nebraska	402-471-1005	South Carolina	800-768-0362
Arizona	602-255-4845	Iowa	800-383-5992	Nevada	888-723-6610	South Dakota	800-438-3367
Arkansas	501-661-2301	Kansas	800-693-5343	New Hampshire	603-271-4052	Tennessee	800-232-1139
California	800-745-7236	Kentucky	502-564-4856	New Jersey	800-648-0394	Texas	800-293-0753
Colorado	800-846-3986	Louisiana	225-765-0160	New Mexico	505-476-8608	Utah	800-458-0145
Connecticut	860-509-7367	Maine	207-287-5743	New York	800-458-1158	Vermont	800-439-8550
Delaware	302-744-4546	Maryland	866-703-3266	North Carolina	828-712-0972	Virginia	804-864-8150
Washington DC	202-535-2999	Massachusetts	800-723-6695	North Dakota	701-328-5188	Washington	360-236-3253
Florida	800-543-8279	Michigan	517-284-1837	Ohio	800-523-4439	West Virginia	800-922-1255
Georgia	706-542-9165	Minnesota	800-798-9050	Oklahoma	405-702-5162	Wisconsin	888-569-7236
Hawaii	808-586-4700	Mississippi	800-626-7739	Oregon	971-673-0490	Wyoming	307-777-6015
Idaho	800-445-8647	Missouri	573-751-6160	Pennsylvania	800-237-2366		

**USEPA Radon Program website: [www.epa.gov/radon](http://www.epa.gov/radon) and radon hotline 800-767-7236**

**SURGEON GENERAL HEALTH ADVISORY:** "Indoor radon is the second-leading cause of lung cancer in the U.S. and breathing it over prolonged periods can present a significant health risk to families all over the country. More than 20,000 Americans die of radon-related lung cancer every year. It's important to know that this threat is completely preventable. Radon can be detected with a simple test and fixed through well-established venting techniques."

**CONSUMER FEDERATION OF AMERICA:** "Consumers need to know about the health of a house they are considering purchasing, including whether there is a radon problem, and if so, how to fix it." *The EPA Home Buyer's and Sellers Guide to Radon* provides practical consumer information that every homebuyer needs to know.

**FLORIDA NOTICE TO CLIENTS:** An organization or individual certified by the Florida Dept. of Health to perform radon or radon progeny measurements or radon mitigation services provides this Notice to you. Any questions, comments, or complaints regarding the persons performing these measurement or mitigation services may be directed to the Florida Dept. of Health, Bureau of Facility Programs, Radon Indoor Air Quality, 4052 Bald Cypress Way, Bin #A08, Tallahassee, Florida 32399-1710.

**Florida Dept. of Health contact: 800-543-8279**

**MAINE NOTICE TO CLIENTS:** As per 22 MRSA, Sec. 771, results of this test will be reported to the Maine Dept. of Health and Human Services. Any questions, comments, or complaints concerning individuals or firms providing radon related services in Maine should be directed to: Radiation Control Program 11 State House Station Augusta, ME 04333-0010

**Maine Dept. of Health contact: 207-287-5743**

**PENNSYLVANIA NOTICE TO CLIENTS:** The Radon Certification Act requires that anyone who provides radon-related service or product to the general public must be certified by the Pennsylvania Department of Environmental Protection. You are entitled to evidence of certification from any person who provides such services or products. You are also entitled to a price list for services or products offered. All radon measurement data will be sent to the Department as required in the Act and will be kept confidential. If you have any questions, comments or complaints concerning persons who provide radon-related services, please contact the Department at the Bureau of Radiation Protection, Dept. Of Environmental Protection, P.O. Box 8469, Harrisburg, PA 17105-8469.

**Department at the Bureau of Radiation Protection: 717-783-3594**

**RHODE ISLAND NOTICE TO CLIENTS:** This notice is provided to you by an organization or individual licenses and/or certified by the Rhode Island Dept. of Health to perform radon measurements. Any questions, comments, or complaints regarding the person performing these measurements may be directed to the RI Dept. of Health, Radon Control Program, 3 Capitol Hill Room 206, Providence RI 02908-5097

**Rhode Island Dept. of Health contact: 401-222-7796**



## CUSTOMIZED WEATHER HISTORY FOR SAINT MICHAEL, MINNESOTA

You're signed in as a  
subscriber to our  
Customized Weather

History; if you're on a shared computer, [please logout when you're done](#).

You can search for weather history in two ways:

- **Range of Dates** search allows you to search for a *consecutive range of dates* and is good if you want to know day by day history for a certain period of time, like "January 1 to January 15, 2008".
- **Same Dates Over a Range of Years** is good when you have a specific time of year—perhaps your wedding day, or a summer vacation, or harvest time—and you want to search for the weather over multiple years *for just those dates*. For example, "August 1 to 5 every year from 1970 to 1980."

### Location \*

ZIP/Postal Code or City,State

### [Range of Dates](#)

To search a consecutive range of dates, select a start and end date.

Month Day Year

Feb 25 2020

to

Month Day Year

Feb 28 2020

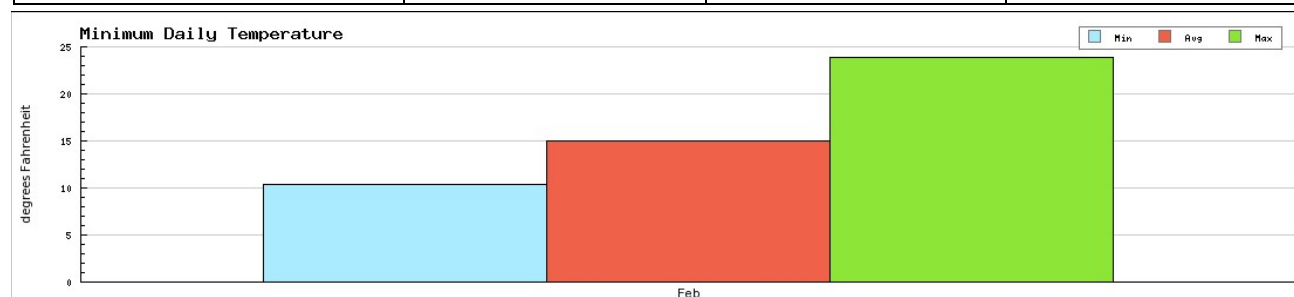
Latest data available: March 1, 2020.

[GO: Search by Range of Dates](#)

### [Same Dates Over a Range of Years](#)

### WEATHER FROM FEBRUARY 25, 2020 TO FEBRUARY 28, 2020

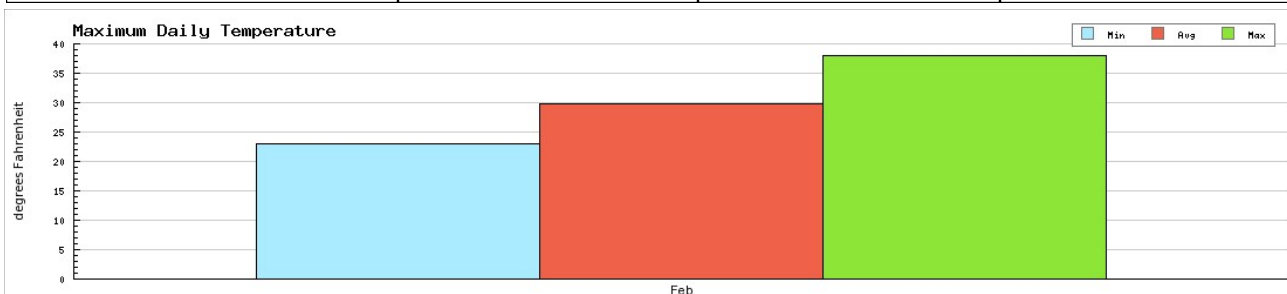
TEMPERATURE	LOW	AVERAGE	HIGH
<b>Minimum Daily</b> Data for 4 days. <a href="#">Download raw data</a>	10.4 °F (Feb 27, 2020)	<b>15.0 °F</b>	23.9 °F (Feb 25, 2020)



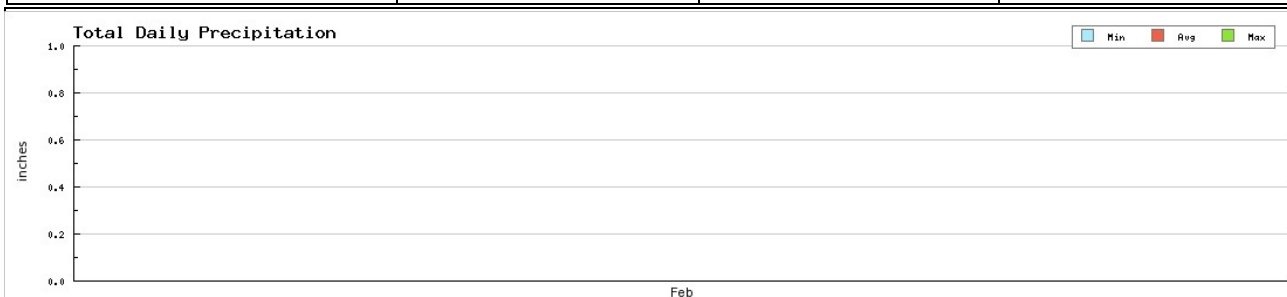
<b>Average Daily</b> Data for 4 days. <a href="#">Download raw data</a>	17.7 °F (Feb 27, 2020)	<b>22.6 °F</b>	30.6 °F (Feb 25, 2020)
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<b>Maximum Daily</b> Data for 4 days. <a href="#">Download raw data</a>	23.0°F (Feb 27, 2020)	<b>29.8°F</b>	38.1°F (Feb 25, 2020)
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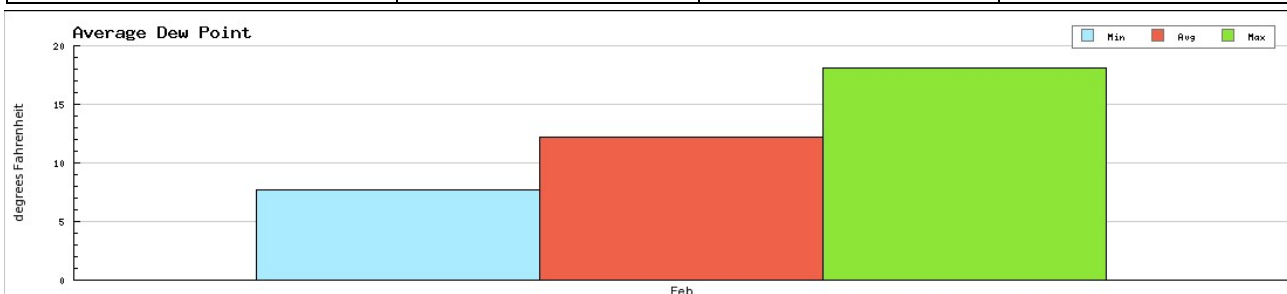


PRECIPITATION	LOW	AVERAGE	HIGH
<b>Total Daily</b> Data for 1 days. <a href="#">Download raw data</a>	0.00 IN (Feb 25, 2020)	<b>0.00 IN</b>	0.00 IN (Feb 25, 2020)

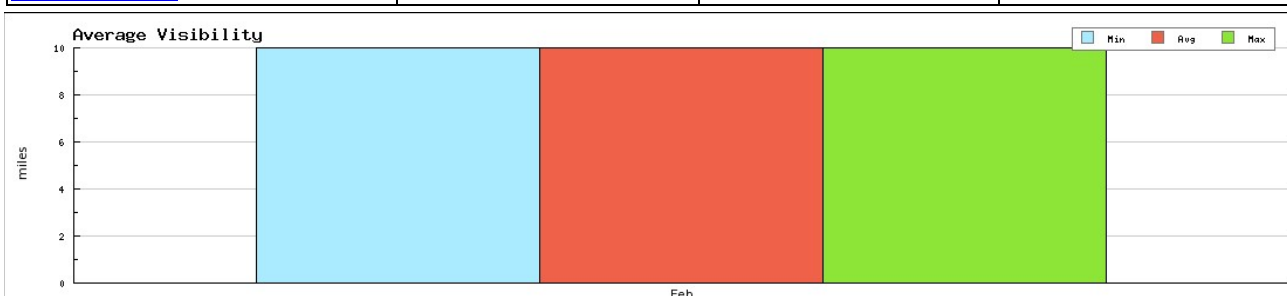


**Note:** Total Daily Precipitation is not reported by all stations on all days and there are situations where a value is not reported here, but an **Occurrence** of rain or snow is noted below, or vice versa.

<b>Average Dew Point</b> Data for 4 days. <a href="#">Download raw data</a>	7.7°F (Feb 28, 2020)	<b>12.2°F</b>	18.1°F (Feb 25, 2020)
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<b>Average Visibility</b> Data for 4 days. <a href="#">Download raw data</a>	10.0 MI (Feb 25, 2020)	<b>10.0 MI</b>	10.0 MI (Feb 25, 2020)
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<b>Snow Depth</b> Data not available.	n/a	n/a	n/a
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**Note:** Snow Depth is not reported by all stations on all days and there are situations where there was actually snow on the ground, but this value is not reported. Note carefully the number of days for which this value is reported.

WIND	LOW	AVERAGE	HIGH
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<b>Average Daily</b> Data not available.	n/a	n/a	n/a
<b>Maximum Daily</b> Data not available.	n/a	n/a	n/a
<b>Maximum Daily Gust</b> Data not available.	n/a	n/a	n/a
<b>PRESSURE</b>	LOW	AVERAGE	HIGH
<b>Sea Level Pressure</b> Data not available.	n/a	n/a	n/a
<b>OCCURRENCES</b>	DAYS		PERCENTAGE
<b>Fog</b>	0 of 4		0%
<b>Rain</b>	0 of 4		0%
<b>Snow</b>	3 of 4		75%
<b>Hail</b>	0 of 4		0%
<b>Thunder</b>	0 of 4		0%
<b>Tornado</b>	0 of 4		0%
<b>Note:</b> Not all occurrence of all weather events are reported for all stations. There are situations, for example, where an <b>Occurrence</b> of rain will be reported, but no <b>Total Daily Precipitation</b> logged.			



# **Appendix B**

*MDH Reporting Form*

# School Radon Testing Reporting Form

According to Minnesota Statute 123B.571 subd. 3, a school district that has tested its school buildings for the presence of radon shall report the results of its tests to the Department of Health. Please use this form to submit information about the most recent round or cycle of testing conducted for each building.

## Instructions

1. Complete one form for each building tested. In this case, a building is defined as an occupied facility with a unique address. This includes administrative buildings.
2. Include this form, raw data (e.g. laboratory report) and a building map.
3. Submit this form when all work is completed for a round of testing. This includes reporting to the school board, and follow-up testing and post-mitigation testing, if applicable.
4. Email information to [health.indoorair@state.mn.us](mailto:health.indoorair@state.mn.us).

## Contact Information

Name:	<b>Terry Zerwas</b>
Mailing Address:	<b>11343 50th Street NE, Albertville, MN 55301</b>
Phone:	<b>612-221-6601</b>
Email:	<b>terryz@mystma.org</b>

## Initial Radon Testing Information

School Building Name: <b>Community Ed</b>	
School District & District Number: <b>St. Michael-Albertville ISD #885</b>	
Building Address: <b>60 Central Ave W St. Michael, MN 55376</b>	
Test Kit Manufacturer: <b>Air chek</b>	Device Name: <b>Pro chek</b>
Date of Kit Retrieval (DD/MM/YY): <b>1/17/20</b>	Length of Test (days): <b>3</b>
How many rooms were tested? <b>46</b>	
Does the test period include weekends? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the test period include school breaks or holidays? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

## SCHOOL RADON TESTING REPORTING FORM

Were all frequently-occupied ground contact rooms tested? <sup>1</sup> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, did you attempt to test all frequently occupied ground contact rooms, meaning test kits were placed in all these rooms? <input type="checkbox"/> Yes <input type="checkbox"/> No
How many rooms had results $\geq 4$ pCi/L?:    0
Were the results reported at a school board meeting? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

### Follow-up Testing, Mitigation, & Post-Mitigation Testing

If one or more rooms tested  $\geq 4$  pCi/L, please answer the questions below:

How many rooms had follow-up testing?:		
Number of rooms with follow-up results	$\geq 4$ pCi/L:	$< 4$ pCi/L:
Of the rooms that had test results $\geq 4$ pCi/L, how many rooms were:		
mitigated by HVAC balancing or operational changes? :		
mitigated by installation of active soil depressurization?:		
addressed through other corrective measures? <sup>2</sup> :		
What was the cost of the installation and/or HVAC service work, to mitigate radon? \$		
What is the known or anticipated annual operating cost of mitigation (estimate)? \$		
After radon mitigation, how many rooms were retested?:		
Post mitigation results (# of rooms)	$\geq 4$ pCi/L:	$< 4$ pCi/L:

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<sup>1</sup> This includes classrooms, offices, break rooms, laboratories, cafeterias, libraries, auditoriums, gymnasiums, etc. It includes rooms on grade and rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

<sup>2</sup> 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points.