



PROTECTING, MAINTAINING & IMPROVING THE HEALTH OF ALL MINNESOTANS

December 19, 2019

Spring Lake Park City Council
c/o Mr. Dan Buchholtz, Administrator
Spring Lake Park City Hall
1301 81st Avenue NE
Spring Lake Park, Minnesota 55432

Dear Council Members:

SUBJECT: Quarterly Results for Radiochemical Monitoring, Spring Lake Park, Anoka County, PWSID 1020029

Enclosed are the results of the most recent radiochemical samples collected from your public water system in accordance with Minnesota Rules, Chapter 4720 and the Safe Drinking Water Act.

Quarterly monitoring for radiochemicals is being conducted on your water system to determine if your system meets the maximum contaminant level (MCL) for gross alpha and/or combined radium 226+228. Samples will be collected for four quarters and the test results will be averaged. After four quarters, if the annual average of results from the Terrace Park Treatment Plant exceeds the MCL for either of these contaminants, you will be required to notify the public that the MCL has been exceeded and to take corrective action. The following is a summary of the results:

Sampling Site: Terrace Park Treatment Plant

Contaminant: Combined Radium (-226 & -228)

MCL: Annual Average >5.4 pCi/L

Table with 5 columns: Date Collected, Results, Units, Sample#, Annual Average. Rows for 10/11/2019, 07/22/2019, 04/08/2019.

Contaminant: Gross Alpha in Water

MCL: Annual Average >15.4 pCi/L

Table with 5 columns: Date Collected, Results, Units, Sample#, Annual Average. Rows for 10/11/2019, 07/22/2019, 04/08/2019.

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All required radiochemical samples will be collected by your public water system and submitted to the Minnesota Department of Health (MDH) laboratory for analysis. Sample bottle(s) will be mailed to you with a labform and date that you are scheduled to collect your next sample(s). We will notify you if any action by your system is required.

Gross alpha and radium 226+228 are naturally occurring contaminants that are found in groundwater throughout central and southern Minnesota. Long-term elevated levels of exposure to these contaminants may result in an increased risk of cancer.

This report should be placed in your records and a copy maintained on or near the water system premises and available for public inspection for not less than ten (10) years. If you have any questions, please contact Cindy Swanson at 651/201-4656 or email cindy.swanson@state.mn.us.

Sincerely,



Karla R. Peterson, P.E., Supervisor
Community Public Water Supply Unit
Environmental Health Division
P.O. Box 64975
St. Paul, Minnesota 55164-0975

KRP:BS

Enclosure

cc: Water Superintendent
Brian A. Noma, MDH St. Paul District Office



Final Report

Minnesota Department of Health
Public Health Laboratory
Environmental Laboratory Section
601 Robert St. N., P.O. Box 64899
St. Paul, MN 55164-0899
651-201-5300

PWSID: 1020029
System Name: Spring Lake Park
City: Spring Lake Park

Program Code: HC

Type: I

Date Received: 10/11/19 10:10
Rep. Temp. (°C): 12.6

Collector Name: Ken Prokott
Collector ID: None

MDH Sample Number: 19J0739-01

Location ID: E01
Sampling Point: Terrace Park Treatment Plant

Collect Date: 10/11/19
Collect Time: 09:10
Matrix: Drinking Water

Field Residual Chlorine Result: None
Field Fluoride Result: None
Field pH Result: None
Field PO₄ Result: None

Results were produced by the Minnesota Department of Health, except where noted.

Radiochemical Parameters

Analyte	Result	Reporting Limit	Counting Uncertainty	Units	Batch	Prepared	Analyzed	Init.	Method	Qualifiers
Gross Alpha	9.1	3.0	3.3141	pCi/L	B9K0165	11/12/19 11:25	12/03/19 00:00	JJF	EPA 900.0	
Radium-226	1.6	1.0	0.2935	pCi/L	B9K0084	11/06/19 11:33	12/11/19 00:00	SAP	EPA 903.0/904.0	
Radium-228	2.2	1.1	0.9123	pCi/L	B9K0084	11/06/19 11:33	11/13/19 17:51	SAP	EPA 903.0/904.0	

Authorized by:

Paul Moyer, Environmental Laboratory Manager
Public Health Laboratory, Minnesota Department of Health

*The results in this report apply only to the samples analyzed.
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 Public Health Laboratory
 Environmental Laboratory Section
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 St. Paul, MN 55164-0899
 651-201-5300

PWSID: 1020029

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Batch B9K0084 - Radiochemistry Ra-226 Ra-228 Prep

Blank (B9K0084-BLK1)

Prepared: 11/06/19 11:33 Analyzed: 12/11/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Radium-226	<	1.0	pCi/L							SAP	
Radium-228	<	1.0	pCi/L							SAP	

LCS (B9K0084-BS1)

Prepared: 11/06/19 11:33 Analyzed: 12/11/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Radium-226	9.7	1.0	pCi/L	10.29		94	90-110			SAP	
Radium-228	16.3	1.0	pCi/L	17.61		92	80-120			SAP	

LCS Dup (B9K0084-BSD1)

Prepared: 11/06/19 11:33 Analyzed: 12/11/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Radium-226	10.9	1.0	pCi/L	10.29		106	90-110	12	20	SAP	
Radium-228	18.9	1.0	pCi/L	17.61		108	80-120	15	20	SAP	

Duplicate (B9K0084-DUP1)

Source: 19J1079-01

Prepared: 11/06/19 11:33 Analyzed: 12/11/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Radium-226	0.2	1.0	pCi/L		<			27	20	SAP	WB
Radium-228	1.4	1.0	pCi/L		<			133	20	SAP	WB

Matrix Spike (B9K0084-MS1)

Source: 19J1080-01

Prepared: 11/06/19 11:33 Analyzed: 12/11/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Radium-226	8.7	1.0	pCi/L	10.29	<	82	80-120			SAP	
Radium-228	16.2	1.0	pCi/L	17.61	<	92	70-130			SAP	

Batch B9K0165 - Radiochemistry Alpha/Beta Prep

Blank (B9K0165-BLK1)

Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00

FINAL REPORT

Report ID: 12132019135403

Generated: 12/13/2019 1:53:59PM

Authorized by:

Paul Moyer, Environmental Laboratory Manager
 Public Health Laboratory, Minnesota Department of Health

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 651-201-5300

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Batch B9K0165 - Radiochemistry Alpha/Beta Prep

Blank (B9K0165-BLK1) Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Gross Alpha	<	3.0	pCi/L							JJF	

LCS (B9K0165-BS1) Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Gross Alpha	46.7	3.0	pCi/L	52.86		88	80-120			JJF	

Duplicate (B9K0165-DUP1) Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00
 Source: 19J0387-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Gross Alpha	2.5	3.0	pCi/L		3.1			20	20	JJF	

Matrix Spike (B9K0165-MS1) Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00
 Source: 19J0386-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Gross Alpha	44.7	3.0	pCi/L	52.86	4.2	77	70-130			JJF	

Matrix Spike Dup (B9K0165-MSD1) Prepared: 11/12/19 11:26 Analyzed: 12/03/19 00:00
 Source: 19J0386-01

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Init.	Qualifiers
Gross Alpha	39.4	3.0	pCi/L	52.86	4.2	67	70-130	13	20	JJF	M2

Data Qualifiers and Definitions

- M2 Matrix spike and/or matrix spike duplicate recovery was low; the associated laboratory control sample and/or laboratory control sample duplicate recovery was acceptable.
- WB Relative percent difference exceeded the laboratory acceptance limit. Result less than 5 times the RL.

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Work Order Comments

Collection name is Ken Prokott per B. Shafer. -CCS 10/11/19

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