



## 2021 \_\_\_\_\_ ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 200004 \_\_\_\_\_ NAME: Cambridge Springs Borough \_\_\_\_\_

*Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.* (This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.)

**WATER SYSTEM INFORMATION:**

This report shows our water quality and what it means. If you have any questions about this report or concerning your water utility, please contact Ken Dine \_\_\_\_\_ at (814) 398-2811 \_\_\_\_\_. We want you to be informed about your water supply. If you want to learn more, please attend any of our regularly scheduled meetings. They are held at the Borough Building (161 Carringer St.) on the 1st and 3rd Mondays of the month. \_\_\_\_\_.

**SOURCE(S) OF WATER:**

Our water source(s) is/are: (Name-Type-Location)

French Creek is our source ,it is classified as surface water and is located about 150 yards behind the water plant.

A Source Water Assessment of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). The Assessment has found that our source(s) of is/are potentially most susceptible to [insert potential Sources of Contamination listed in your Source Water Assessment Summary]. Overall, our source(s) has/have [little, moderate, high] risk of significant contamination. A summary report of the Assessment is available on the Source Water Assessment Summary Reports eLibrary web page: [www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045](http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045). Complete reports were distributed to municipalities, water supplier, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Meadville.

Regional Office, Records Management Unit at (814) 332-6899.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the *Safe Drinking Water Hotline* (800-426-4791).

**MONITORING YOUR WATER:**

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, 2021. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

**DEFINITIONS:**

*Action Level (AL)* - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

*Maximum Contaminant Level (MCL)* - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

*Maximum Contaminant Level Goal (MCLG)* - The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

*Maximum Residual Disinfectant Level (MRDL)* - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

*Maximum Residual Disinfectant Level Goal (MRDLG)* - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

*Minimum Residual Disinfectant Level (MinRDL)* - The minimum level of residual disinfectant required at the entry point to the distribution system.

*Level 1 Assessment* – A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

*Level 2 Assessment* – A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

*Treatment Technique (TT)* - A required process intended to reduce the level of a contaminant in drinking water.

*Mrem/year* = millirems per year (a measure of radiation absorbed by the body)

*ppm* = parts per million, or milligrams per liter (mg/L)

*pCi/L* = picocuries per liter (a measure of radioactivity)

*ppq* = parts per quadrillion, or picograms per liter

*ppb* = parts per billion, or micrograms per liter (ug/L)

*ppt* = parts per trillion, or nanograms per liter

**DETECTED SAMPLE RESULTS:**

<b>Chemical Contaminants</b>								
Contaminant	MCL in GCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
chlorine	4	4	2.43	0.42-2.43	ppm	11/4/21	N	water additive to control microbes
trihalomethane (tthm)	80	na	0.068	0.0135-0.0686	ppb	8/11/21	N	by-product of water chlorination
haloacetic acid (haa5)	60	na	0.200	0.008-0.0200	ppb	5/11/21	N	by-product of water chlorination
fluoride	2	2	0.85	0.12-0.85	ppm	11/2/21	N	water additive to strengthen teeth
barium	2	2	0.0341	na	ppm	10/8/21	N	metal refineries, natural deposits, drilling waste
nitrate	10	10	0.56	na	ppm	6/23/21	N	runoff from fertilizer use

\*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

<b>Entry Point Disinfectant Residual</b>							
Contaminant	Minimum Disinfectant Residual	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
chlorine	0.20	0.42	0.42-2.43	ppm	10/15/21	N	Water additive used to control microbes.

<b>Lead and Copper</b>							
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	0.0006	ppb	0	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.056	ppm	0	N	Corrosion of household plumbing.

### **Information about Lead**

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Cambridge Springs Borough \_\_\_\_\_ is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the *Safe Drinking Water Hotline* or at <http://www.epa.gov/safewater/lead>.

<b>Microbial (related to Assessments/Corrective Actions regarding TC positive results)</b>					
Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See detailed description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Naturally present in the environment.

<b>Microbial (related to E. coli)</b>					
Contaminants	MCL	MCLG	Positive Sample(s)	Violation Y/N	Sources of Contamination
<i>E. coli</i>	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to analyze total coliform-positive repeat sample for <i>E. coli</i> .	0	0	N	Human and animal fecal waste.

Contaminants	TT	MCLG	Assessments/ Corrective Actions	Violation Y/N	Sources of Contamination
<i>E. coli</i>	Any system that has failed to complete all the required assessments or correct all identified sanitary defects, is in violation of the treatment technique requirement	N/A	See description under "Detected Contaminants Health Effects Language and Corrective Actions" section	N	Human and animal fecal waste.

<i>Raw Source Water Microbial</i>					
Contaminants	MCLG	Total # of Positive Samples	Dates	Violation Y/N	Sources of Contamination
<i>E. coli</i>	0				Human and animal fecal waste.

#### **EDUCATIONAL INFORMATION:**

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's *Safe Drinking Water Hotline* (800-426-4791).



**PUBLIC NOTICE**

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER  
FAILURE TO MONITOR**

**ESTE INFORME CONTIENE INFORMACIÓN IMPORTANTE ACERCA DE SU AGUA POTABLE. HAGA QUE  
ALGUIEN LO TRADUZCA PARA USTED, O HABLE CON ALGUIEN QUE LO ENTIENDA.**

Monitoring Requirements Not Met for ALKALINITY AND TOTAL ORGANIC COMPOUND

Our water system violated several drinking water standards over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we did to correct these situations.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2022 we failed to monitor for the following contaminants and therefore cannot be sure of the quality of our drinking water during that time.

**What should I do?**

There is nothing you need to do at this time.

The table below lists the contaminant(s) we did not properly test for during the last year, the required sampling frequency, how many samples we took, when samples should have been taken, and the date on which corrective action samples were (or will be) taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were or will be taken
ALKALINITY	MONTHLY	1	1/2022	2/2022
TOTAL ORGANIC Comp.	MONTHLY	1	1/2022	2/2022

**What happened? What was done? When will it be resolved?**

MISSED MONTHLY SAMPLE IN JANUARY - RESUMED SAMPLING IN FEBRUARY

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information regarding this notice, please contact KEN DINE at 814-398-2811

Certified by:

Signature: Ken Dine

Date: 6/20/22

Print Name and Title: KEN DINE - WATER PLANT SUPERVISOR

As a representative of the Public Water system indicated above, I certify that public notification addressing the above violation was distributed to all customers in accordance with the delivery requirements outlined in Chapter 25 PA Code 109 Subchapter D of the Department of Environmental Protection (DEP's) regulations. The following methods of distribution were used: CCR

PWS ID#: 6200004

Date distributed: 6/27/22

**A 1/32 in. leak consumes:**

264 gal. per day  
7,920 gal. per month

**A 1/16 in. leak consumes:**

943 gal. per day  
28,300 gal. per month / At 60psi, a 1/16" hole leaks 74,000 gallons (9,850 cubic feet) in 3 months

**A 1/8 in. leak consumes:**

3,806 gal. per day  
114,200 gal. per month / At 60psi, a 1/8" hole leaks 296,000 gallons (39,400 cubic feet) in 3 months

**A 1/4 in. leak consumes:**

15,226 gal. per day  
456,800 gal. per month / At 60 psi, a 1/4" hole leaks 1,181,500 gallons (158,000cf) in 3 months

**A 1/2 in. leak consumes:**

60,900 gal. per day  
1,827,000 gal. per month

**Common water Loss examples:**

Leaking Toilet @1/2 GPM = 21,600 Gal/mo  
Drip Irrigation @1 GPM = 43,200 Gal/mo  
Watering Garden for 2 hours @ 5 GPM = 18,000 Gal/mo  
Watering Garden for 2 hours @ 10 GPM = 36,000 Gal/mo  
Unattended Water Hose 1 night @10 GPM = 5,400 Gal/mo  
Broken Services Line 1 night @15 GPM = 8,100 Gal  
1 day @15 GPM = 21,600 Gal  
1 week @15 GPM = 151,200 Gal  
1 month @ 15 GPM = 648,000 Gal  
Stuck Ice Maker @ 2 GPM = 86,400 Gal/mo  
Stuck Check Valve in Washing Machine - 30 minutes = 240 Gal  
Stuck Float Valve in Watering Trough @ 5GPM = 216,000 Gal/mo

**Typical Normal Water Uses:**

1 Bath = 42 Gal  
1 Shower = 17 Gal  
Wash 1 Load of Clothes = 45 Gal  
Flush Toilet = 3 Gal

Borough of Cambridge Springs  
161 Caringer Street  
Cambridge Springs PA 16409

US Postage Paid  
Permit #15  
Camb. Spgs. PA 16409

Box Holder  
Cambridge Springs, PA 16409



## Consumer Tap Notice for Lead Results Certification Form

Name of PWS: Cambridge Springs Elementary and HS PWSID Number: N/A

Monitoring period to which the notice applies (e.g., June – Sept. 2010): July 1, 2022- Sept 30, 202<sup>5</sup>

Date(s) results were received from laboratory: October 4, 2022

Date(s) Notices were provided to consumers: October 14, 2022

The water system named above hereby certifies that its lead consumer notice has been provided to each person it serves at the specific sampling site from which the sample was tested. The water system also certifies that these results and the following information were provided to such persons within 30 days of receiving the test results from the laboratory:

- 1) Individual tap results from the lead tap water monitoring carried out under the requirements of §109.1103
- 2) An explanation of the health effects of lead.
- 3) Steps that consumers can take to reduce exposure to lead in drinking water.
- 4) The maximum contaminant level goals and action levels for lead, and the definitions of these two terms from §141.153(c).
- 5) Water system contact information.

Notices were distributed using the delivery methods indicated below. **Check all that apply.**

- Mail or other direct delivery. Specify other direct delivery methods: \_\_\_\_\_
- Electronic mail.
- Posting the notice on the Internet at www. penncrest.org
- Posting the notice in public places (attach a list of locations).
- Delivery of multiple copies to single bill addresses serving several person such as: apartments, business, and large private employers.
- Other methods. Specify: District Safety Committee Meeting

Certified by: Signature: David E Dickson

Print Name: David E Dickson

Title: Director of Facilities and Transportation

Phone # 814-337-1600 x 1628 Date: October 14, 2022

Complete this form, **attach a copy of the notice(s)** and submit this form to your local DEP office.

(See a list of DEP's regional office on the back of this form).



## LEAD & COPPER TAP SAMPLE SITE LOCATION PLAN

### GENERAL SYSTEM INFORMATION

Water System Name:	Cambridge Springs Elementary and High School			PWSID:	N/A
Mailing Address:	641 Venango Ave, 130 Steele St				
Contact Person Name:	David E Dickson	Phone	814-337-1600	E-mail	ddickson@penncrest.org
System Type: (CWS or NTNCWS)	CWS	Population Served:		> 1000	

### LEAD AND COPPER TAP SAMPLE SITE LISTING

3 Digit Location ID#	Sample Site Address / Room #	Site Location Tier Assignment and LSL status
001	CSHS Kitchen Sink	
002	CSES Kitchen Sink	
003	CSHS Café Drinking Fountain	
004	CSES Café Drinking Fountain	
005	CSHS Faculty Lounge Sink	
006	CSES Faculty Lounge Sink E-37	



LEAD AND COPPER TAP SAMPLE SITE LISTING (con't)

3 Digit Location ID #:	Sample Site Address / Room #:	Site Location Tier Assignment and LSL Status
007	CSHS Art Room 126 Drinking Fountain	
008	CSES A-6 Drinking Fountain	
009	CSHS Gym Drinking Fountain	
010	CSES Gym Drinking Fountain	



Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

2095201

Cambridge Springs ES & HS/Penncrest SD

Project Name: Lead Samples

David Dickson
18741 STATE HIGHWAY 198 PO BOX 808
Saegertown, PA 16433

Project / PO Number: N/A
Received: 09/29/2022
Reported: 10/04/2022

Analytical Testing Parameters

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, and Collection Date. Values include 001 CSHS Kitchen Sink, Drinking Water, 2095201-01, and 09/28/2022 5:50.

Table with 9 columns: Metals Total by ICPMS, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row for Lead with result 0.516 and RL 0.400.

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, and Collection Date. Values include 002 CES Kitchen Sink, Drinking Water, 2095201-02, and 09/28/2022 6:05.

Table with 9 columns: Metals Total by ICPMS, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row for Lead with result 0.906 and RL 0.400.

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, and Collection Date. Values include 003 CSHS Cafe Water Fountain, Drinking Water, 2095201-03, and 09/28/2022 5:52.

Table with 9 columns: Metals Total by ICPMS, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row for Lead with result <0.400 and RL 0.400.

Table with 4 columns: Client Sample ID, Sample Matrix, Lab Sample ID, and Collection Date. Values include 004 CES Cafe Drinking Fountain, Drinking Water, 2095201-04, and 09/28/2022 6:00.

Table with 9 columns: Metals Total by ICPMS, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst. Row for Lead with result 1.08 and RL 0.400.



Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

2095201

<b>Client Sample ID:</b> 005 CSHS Faculty Lounge Sink	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 5:54
<b>Lab Sample ID:</b> 2095201-05	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	2.24	15.0	0.400	ug/L		10/03/22 1847	10/03/22 1847	SEV

<b>Client Sample ID:</b> 006 CES Faculty Lounge E-37 Sink	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 6:05
<b>Lab Sample ID:</b> 2095201-06	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	0.924	15.0	0.400	ug/L		10/03/22 1849	10/03/22 1849	SEV

<b>Client Sample ID:</b> 007 CSHS Art Room 125 Drinking Fountain	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 6:03
<b>Lab Sample ID:</b> 2095201-07	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	1.12	15.0	0.400	ug/L		10/03/22 1850	10/03/22 1850	SEV

<b>Client Sample ID:</b> 008 CES A-6 Drinking Fountain	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 6:08
<b>Lab Sample ID:</b> 2095201-08	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	<0.400	15.0	0.400	ug/L		10/03/22 1852	10/03/22 1852	SEV

<b>Client Sample ID:</b> 009 CSHS Gym Drinking Fountain	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 6:00
<b>Lab Sample ID:</b> 2095201-09	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	<0.400	15.0	0.400	ug/L		10/03/22 1854	10/03/22 1854	SEV



Microbac Laboratories Inc., Pittsburgh Division

CERTIFICATE OF ANALYSIS

2095201

<b>Client Sample ID:</b> 010 CES Gym Drinking Fountain	<b>Collected By:</b> Client
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 09/28/2022 6:06
<b>Lab Sample ID:</b> 2095201-10	

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.8, Rv. 5.4 (1994)</b>								
Lead	<0.400	15.0	0.400	ug/L		10/03/22 1856	10/03/22 1856	SEV

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

RL: Reporting Limit  
ug/L: Micrograms per Liter

Project Requested Certification(s)

Microbac Laboratories Inc., Pittsburgh Division  
02-00257

PA Department of Environmental Protection  
PADEP Accreditation by Rule

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <<https://www.microbac.com/standard-terms-conditions>>.

Reviewed and Approved By:

Tina Sharer  
Administration  
Reported: 10/04/2022 12:57

Microbac Laboratories, Inc.