

**Quality Assurance Project Plan (QAPP)
For
Drinking Water Sampling
of Lead Concentrations in School Drinking Water
Outlets**

Chest-field Elementary School District

Approvals

School District Representatives:

Program Manager:

Scott J. Hogan
Print Name

Signature

8/19/24
Date

Project Manager(s):

Scott J. Hogan
Print Name

Signature

8/19/24
Date

Individual School Project Officer(s) (See page iii)

Third Party Sampling Firm: Garden State Environmental, Inc.

(Note N/A if Third Party not involved)

Name of Firm

Tara Ekiert

Print Name

Signature

8/7/2024

Date

Laboratory: York Analytical Labs

Name of Laboratory

Laboratory Manager: Joseph Ravino

Print Name

Signature

7/22/24

Date

Laboratory QA Officer: Kelly Hogan

Print Name

Signature

7/22/24

Date

Attachment A - List of Chesterfield Schools Priority for Sampling

[illegible]

Attachment B - Plumbing Profile

Note: Complete for each school. For additional information see the USEPA publication, "The 3Ts for Reducing Lead in Drinking Water in Schools"

Name of School: Chesterfield Elementary School Grade Levels: K-6

Address: 30 Saddle Way Chesterfield NJ

Individual school project officer Signature: [Signature] Date: 7/11/04

Questions	Answers	
Background Information		
1. What year was the original building constructed? Were any buildings or additions added to the original facility?	2011 1/9	
2. If the building was constructed or repaired after 1986, was lead-free plumbing and solder utilized? What type of solder was used? Document all locations where lead solder was used.		
3. Where are the most recent plumbing repairs and replacements?	Location: no replacements	Description: 1/9
4. With what materials is the service connection (the pipe that carries water to the school from the public water system's main in the street) made? Where is the Service Line located? (This is the POE location.)	Material: Location: 1st floor by B217	
5. Is there point of entry (POE) or point of use (POU) treatment in use?	Y / ☒ N Type:	Location:
6. Are there tanks in your plumbing system (pressure tanks, gravity storage tanks)?	Y / ☒ N	
7. Does the school have a filter maintenance and operation program? If so, who is responsible for this program? What is the process for adding filters?	Yes	

Questions	Answers
8. Have accessible screens or aerators on outlets that provide drinking water been cleaned? Does the school have a screen or aerator maintenance program?	Y / N
9. Have there been any complaints about bad (metallic) taste? Note location(s).	Y / (N) Location: 0/9
10. Review records and consult with the public water supplier to determine whether any water samples have been taken in the building for any contaminants. If so, identify: - Name of contaminant(s) - Concentrations found - pH level Is testing done regularly at the building?	2017, 2022 LDW sampling
11. Other plumbing background questions include: - Are blueprints of the building available? - Are there known plumbing "dead-ends", low use areas, existing leaks or other "problem areas"? Are renovations planned for any of the plumbing system?	Y N N
Walk-Through <i>These questions should be addressed during the walk-through of the facility, while Attachment C- Drinking Water Outlet Inventory is being completed.</i>	
1. Confirm the material of Service Line visually.	
2. Confirm the presence of POE or POU treatment.	
3. What are the potable water pipes made of in your facility? - Lead - Plastic - Galvanized Metal - Cast Iron - Copper - Other Note the water flow through the building and the areas that receive water first, and which areas receive water last.	Copper
4. Are electrical wires grounded to Water Pipes? Note location(s).	Y / (N) Location:

Questions	Answers
5. Are brass fittings, faucets, or valves used in your drinking water system? Note that most faucets are brass on the inside. Document the locations of any brass water outlet to be sampled.	Complete in "Brass" Column in Attachment C- Water Outlet Inventory.
6. Locate all drinking water outlets (i.e. water coolers, bubblers, ice machines, kitchen/ food prep sinks, etc.) in the facility.	Complete in Attachment C-Water Outlet Inventory.
7. Have the brands and models of the water coolers in the school been compared to the list of recalled water coolers in the Toolkit? Recalled Drinking Water Fountains Make and Model	☒ / N 0/9 Type 0/9
8. Have signs of corrosion, such as frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry been detected? Note the locations of water outlets.	Complete in "Signs of Corrosion" column in Attachment C- Drinking Water Outlet Inventory.
9. Are there any outlets that are not operational and therefore out of service? Permanently? Temporarily? Permanently Temporarily	☒ / N Complete "Operational Column" in Attachment C- Drinking Water Outlet Inventory. Type/ Location B220 Description bubbles not working or very little flow.

Attachment B.i: Plumbing Profile Instructions

Plumbing Profile Questions	What Your Answers to the Plumbing Profile Questions Mean
<i>The questions in this column will help you determine whether lead is likely to be a problem in your facility, and will enable you to prioritize your sampling effort.</i>	<i>This column discusses the significance of possible answers to the plumbing profile questions.</i>
Background Information	
1. When was the original building constructed? Were any buildings or additions added to the original facility? If so, complete a separate plumbing profile for each building, addition, or wing.	Older Buildings – Through the early 1900s, lead pipes were commonly used for interior plumbing in certain parts of the country in public buildings and private homes. Plumbing installed before 1930 is more likely to contain lead than newer pipes. Between 1920 and 1950, galvanized pipes were also used for plumbing. After 1930, copper generally replaced lead as the most commonly used material for water pipes. Up until the mid- to late-1980s (until the lead-free requirements of the 1986 Safe Drinking Water Act Amendments took effect), lead solder was typically used to join these copper pipes. The efforts of your public water supplier over the years to minimize the corrosiveness of the water may have resulted in mineral deposits forming a coating on the inside of the water pipes (passivation). This coating insulates the water from the plumbing and results in decreased lead levels in water. If the coating does not exist or is disturbed, the water is in direct contact with any lead in the plumbing system. Newer Buildings – New buildings are not likely to have lead pipes in their plumbing systems, but they are very likely to have copper pipes with solder joints. Buildings constructed prior to the late 1980s, before the lead-free requirements of the 1986 Safe Drinking Water Act Amendments, may have joints made of lead solder. Buildings constructed after this period should have joints made of lead-free solders. Even if “lead-free” materials were used in new construction and/or plumbing repairs, lead leaching may occur.

2. If built or repaired after 1986, were lead-free plumbing and solder used in accordance with the lead-free requirements of the 1986 Safe Drinking Water Act Amendments? What type of solder has been used? Was lead solder used in your plumbing system? Note the locations of lead solder.	The 1986 Amendments to the Safe Drinking Water Act banned plumbing components that contained elevated levels of lead. Lead-free solder and flux (not more than 0.2% lead) and pipe, pipe fittings, and fixtures (not more than 8% lead) must now be used. The leaching potential of lead-free (i.e., tin-antimony) solder is much less than lead solder. The leaching potential of lead-free pipe, pipe fittings, and fixtures is also less, but leaching is still possible. If lead-free materials were not used in new construction and/or plumbing repairs, elevated lead levels can be produced. If the film resulting from passivation does not exist or has not yet adequately formed, any lead that is present is in direct contact with the water. In some areas of the country, it is possible that high-lead materials were used until 1988 or perhaps even later. Your local plumbing code authority or building inspector may be able to provide guidance regarding when high-lead materials were last used on a regular basis in your area.
3. When were the most recent plumbing repairs and replacements made (note locations)?	Corrosion occurs (1) as a reaction between the water and the pipes and (2) as a reaction between the copper and solder (metal-to-metal). This latter reaction is known as galvanic corrosion, which can be vigorous in new piping. If lead solders were used in the piping or if brass faucets, valves, and fittings containing alloys of lead were installed (<i>see response to Walk Through Question 5 below for further discussion of brass</i>), lead levels in the water may be high. After about 5 years, however, this type of reaction (galvanic corrosion) slows down and lead gets into water mainly as a result of water being corrosive. If the water is non-corrosive, passivation is likely to have occurred and to have reduced opportunities for lead to get into the water system. For these reasons, if the building (or an addition, new plumbing, or repair) is less than 5 years old and lead solder or other materials (e.g., brass faucets containing lead alloys) were used, you may have elevated lead levels. If water supplied to the building is corrosive, lead can remain a problem regardless of the plumbing's age.
4. With what materials is the service connection (the pipe that carries water to the school from the public water system's main in the street) made? Note the location where the service connection enters the building and connects to the interior plumbing. (This is the POE location)	Lead piping was often used for the service connections that join buildings to public water systems. The service connection is the pipe that carries drinking water from a public water main to a building. Some localities actually required the use of lead service connections up until the lead-free requirements of the 1986 Safe Drinking Water Act Amendments took effect. Although a protective layering of minerals may have formed on these pipes, vibrations can cause flaking of any protective build-up and, allowing lead contamination to occur.

5. Is there point of entry (POE) or point of use (POU) treatment in use?	Are there water treatment units in your plumbing system? Treatment units could be, but are not limited to, ion exchange units, filter cartridge, reverse osmosis, etc.
6. Do you have tanks in your plumbing system (pressure tanks, gravity storage tanks)? Note the location of any tanks, and any available information about the tank; e.g., manufacturer, date of installation.	Some older tanks may contain coatings that are high in lead content. Tanks may accumulate sediment that could be flushed back into the plumbing system under certain circumstances. You may wish to contact the supplier or manufacturer to obtain information about coatings. You may also wish to hire a plumber or tank service contractor to inspect your tanks, especially gravity storage tanks that are located outside of the building.
7. Does the school have a filter maintenance and operation program? If so, who is responsible for this program? What is the process for adding filters?	A program for the maintenance and the upkeep of filters on drinking water outlets is necessary to ensure the effectiveness of the filters. Most filters recommend replacement after six months. If the filters need replacement every six months, the program will include a procedure for ensuring that every six month old filter is replaced. An individual should be responsible for ensuring that this filter maintenance program is followed. If the school would like to add a filter to a water outlet, what is the process? Does a request form have to be completed and submitted to the individual in charge of maintenance? Do all filters need to be added at a certain time of year to follow the maintenance program?
8. Do outlets that provide drinking water have accessible screens or aerators? (Standard faucets usually have screens. Many coolers and bubblers also have screens.) Note the locations. Have these screens been cleaned? Note the locations.	Lead-containing sediments that are trapped on screens can be a significant source of lead contamination. Sediments should be tested for the presence of lead, and your facility should create a routine maintenance program to clean the screens frequently. If sediment has been a reoccurring problem regular cleaning of the screens and additional investigating into why the debris is accumulating is appropriate. However, the manufacturer or water service provider should be contacted to obtain instructions.
9. Have there been any complaints about water taste (metallic, etc.) or rusty appearance? Note the locations.	Although you cannot see, taste, or smell lead dissolved in water, the presence of a metallic taste or rusty appearance may indicate corrosion and possible lead contamination.

10. Check building files to determine whether any water samples have been taken from your building for any contaminants (also check with your public water supplier). • Name of contaminant(s)? • What concentrations of these contaminants were found? • What was the pH level of the water? • Is testing done regularly at your facility?	Lead testing may have previously been done voluntarily under the Lead Contamination Control Act. Results of analyses of general water quality, such as measures of pH, calcium hardness, and carbonate alkalinity, can provide important clues about the corrosiveness of the water. Generally, the higher the values of these parameters, the less likely it is that your water is corrosive. If you have no data from your school, your public water system should at least be able to provide information about the general water quality.
11. Other plumbing questions: • Are blueprints of the building available? • Are there known plumbing "dead• ends," low use areas, existing leaks or other "problem areas"? • Are renovations being planned for part or all of the plumbing system?	You should incorporate this information into decisions regarding sample locations and sampling protocol. You may wish to note the direction of water flow and the location of fixtures, valves, tanks, areas of sediment accumulation, areas of corrosion, etc., on a sketch or blueprint of the plumbing.
Walk-Through	
1. Confirm the material that the service line is made of visually	See Background Information Question #4.
2. Confirm the presence of POE or POU treatment.	See Background Information Question #5

3. Specifically, what are the potable water pipes made of in your facility (note the locations)? • Lead • Plastic • Galvanized Metal • Cast Iron • Copper • Other Note the location of the different types of pipe, if applicable, and the direction of water flow through the building. Note the areas of the building that receive water first, and which areas receive water last.	Survey your building for exposed pipes, preferably accompanied by an experienced plumber who should be able to readily identify the composition of pipes on site. Most buildings have a combination of different plumbing materials: • Lead pipes are dull gray in color and may be easily scratched by an object such as a knife or key. Lead pipes are a major source of lead contamination in drinking water. • Galvanized metal pipes are gray or silver-gray in color and are usually fitted together with threaded joints. In some instances, compounds containing lead have been used to seal the threads joining the pipes. Debris from this material, which has fallen inside the pipes, may be a source of contamination. • Copper pipes are red-brown in color. Corroded portions may show green deposits. Copper pipe joints were typically joined together with lead solders until the lead-free requirements of the 1986 Safe Drinking Water Act Amendments took effect. • Plastic pipes, especially those manufactured abroad, may contain lead. If plastic pipes are used, be sure they meet NSF International standards. <i>(Note: NSF International is an independent, third-party testing organization. Product listings can be obtained by visiting their Web site at http://www.nsf.org/business/search_listings/index/asp.)</i>
4. Is any electrical equipment grounded to water pipes? Note the locations.	If electrical equipment, such as telephones, has been installed using water pipes as a ground, the electric current traveling through the ground wire will accelerate the corrosion of any interior plumbing containing lead. The practice should be avoided, if possible. However, if existing wires are already grounded to water pipes, the wires <i>should not be removed</i> from the pipes unless a qualified electrician installs an alternative grounding system. Check with your local building inspector on this matter. Your state or local building code may require grounding of the wires to the water pipes. Improper grounding of electrical equipment may cause severe shock.

5. Are brass fittings, faucets, or valves used in your drinking water system? (Note: Most faucets are brass on the inside.) You may want to note the locations on a map or diagram of your facility and make extensive notes that would facilitate future analysis of lead sample results.	Brass fittings, faucets, and valves are golden yellow in color, similar to copper in appearance, or are plated with chrome. Brass is composed primarily of two metals, copper and zinc. Most brasses contain lead ranging from 2 percent to 8 percent. That lead can contaminate the water contact surface when it is smeared on the machined surfaces during production. After 1996, brass fittings installed in drinking water outlets such as faucets and water coolers must meet NSF standards for lead content. While this percentage is considered lead-free under the 1986 Safe Drinking Water Act Amendments, some contamination problems still may occur. Older brass faucets may contain higher percentages of lead and lead solder in their interior construction and pose contamination problems. Note that your state or local government may have imposed this standard prior to 1988. The degree to which lead will leach from brass products containing alloys with less than 8 percent lead is dependent upon the corrosiveness of the water and the manufacturing process used to develop the product. A study revealed that fabricated faucets tend to contribute less lead to the water than faucets manufactured by the permanent mold process, regardless of the amount of lead in the alloy. In response to a requirement of the 1996 SDWA, EPA worked with the plumbing industry and NSF International to develop a voluntary industry standard that is designed to minimize the amounts of lead being leached from these products. This standard is NSF/ANSI Standard 61, Section 9. Since 1998, all plumbing fixtures for use as drinking water supply must meet this standard. You should require NSF/ANSI 61 certification on all drinking water system products purchased. Include a copy of the NSF/ANSI 61 certificate as a requirement on your purchase orders. The distributor or manufacturer can provide you with a list of certified products. You should require NSF/ANSI 61 certification on all drinking water system products used in new construction and inform your architects and revise your building specifications.
6. How many of the following outlets provide water for consumption? Note the locations. • Water Coolers • Bubblers • Ice Makers • Kitchen Taps • Drinking Fountains or Taps	In addition to lead components in the plumbing system, lead solders or lead in the brass fittings and valves used in some taps, bubblers, and refrigerated water coolers may be sources of lead. It is important to identify the locations of all such drinking water outlets. Faucets in restrooms should not be used to obtain water for drinking. Although they may be adequate for washing hands, they may not be appropriate for drinking purposes. You may consider posting "do not drink" signs.

7. Has your school checked the brands and models of water coolers and compared them to the list of recalled water coolers in Appendix H.i Note the locations of any recalled coolers.	Water coolers may be a major source of lead contamination. The Federal Consumer Product Safety Commission negotiated an agreement with Halsey Taylor through a consent order agreement published in June 1990 to provide a replacement or refund program that addresses all the water coolers listed by EPA as having lead-lined tanks. Halsey Taylor was the only company identified by EPA as manufacturing some water coolers with lead-lined tanks. Additionally, some coolers manufactured by EBCO had a bubbler valve and one soldered joint that contained lead. See Attachment H.i of this document for a summary of EPA's list of water coolers found to contain lead. Use the list to help prioritize your sampling. If your water cooler is listed as having a lead-lined tank, you should not use the water for drinking, and you should remove the cooler immediately as these coolers pose the highest risk of contamination.
8. Are there any signs of corrosion, such as frequent leaks, rust-colored water, or stained dishes or laundry? Note the locations.	Frequent leaks, rust-colored water, and stains on fixtures, dishes, and laundry are signs of corrosive water. Blue-green deposits on pipes and sinks indicate copper corrosion; brown stains result from the corrosion of iron. Where such signs occur, high levels of lead, copper, and iron may be present in the water. Lead can accumulate with iron, which can form sediments that are hard to remove.
9. Are there any outlets that are not operational and therefore out of service? Permanently? Temporarily?	Permanently out of service water outlets are outlets that are no longer being used and the facility plans to decommission in the future. Temporarily out of service water outlets are outlets that require repair or replacement and will be put back in service once they are operational.

Attachment C - Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Chesterfield ES Address: 305986 Way Chesterfield NJ
 Grade Levels: K-6 Year School Constructed: 2011 Renovated/Additions: 2017

Individual school project officer Name/Signature: [Signature] Date Completed: 7/11/24

# ¹	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
	Bubbler	B220	CES-L-B220-SB	N	Y	N	Y	N	N	N	-	-	
	Sink	B101	CES-L-B101-TF	Y	Y	N	Y	Y	N	N	-	-	
	Bubbler	B103	CES-L-B103-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B108	CES-L-B108-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B109	CES-L-B109-SB	Y	Y	N	Y	N	N	N	-	-	
	Water cooler	H911 by B10 R	CES-L-H911-WC2	Y	N	Y	Y	Y	U	Y	Elkon		
	Water cooler	H911 by B10 L	CES-L-H911-WC2	Y	N	Y	Y	Y	N	Y	Elkon		
	Bottle filler	H911 by B10	CES-L-H911-BF	Y	N	Y	Y	Y	Y	Y	-	-	
	Bubbler	B116	CES-L-B116-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B118	CES-L-B118-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B117	CES-L-B117-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B115	CES-L-B115-SB	Y	Y	N	Y	N	N	N	-	-	

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment C – Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Chesterfield ES Address: 30 Saddle Way Chesterfield NJ
 Grade Levels: K-6 Year School Constructed: 2011 Renovated/Additions: 019

Individual school project officer Name/Signature: _____ Date Completed: 7/11/24

#1	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
	Bubbler	B222	CES-L-B222-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B223	CES-L-B223-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B221	CES-L-B221-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B220	CES-L-B220-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B223	CES-L-B223-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B224	CES-L-B224-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B227	CES-L-B227-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B228	CES-L-B228-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B230	CES-L-B230-SB	Y	Y	N	Y	N	N	N	-	-	
	Water Cooler	H9116y B233 R	CES-L-HB233-WC2	Y	Y	Y	Y	Y	N	Y	Elkay		
	Water Cooler	H9116y B233 L	CES-L-HB233-WC1	Y	Y	Y	Y	Y	N	Y	Elkay		
	Backflow Filter	H9116y B233	CES-L-HB233-BF	Y	N	Y	Y	Y	Y	Y	-	-	

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment C - Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Chest-Field ES Address: 30 Saddle Way Chest-Field NJ
 Grade Levels: K-6 Year School Constructed: 2011 Renovated/Additions: 1/19

Individual school project officer Name/Signature: _____ Date Completed: 7/11/24

#1	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
	Bubble	B234	CES-1-B234-SB	N	Y	N	Y	N	N	N	-	-	
	Bubble	B235	CES-1-B235-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubble	B236	CES-1-B236-SB	N	Y	N	Y	N	N	N	-	-	
	Bubble	B240	CES-1-B240-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubble	B244	CES-1-B244-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubble	B245	CES-1-B245-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubble	B243	CES-1-B243-SB	N	Y	N	Y	N	N	N	-	-	
	Water Cooler	H911 by 94m	CES-1-H911-WC	Y	N	Y	Y	Y	N	Y	Elkay		
	Water Cooler	H911 by 94m	CES-1-H911-WC	Y	N	Y	Y	Y	N	Y	Elkay		
	Bottle Filler	H911 by 94m	CES-1-H911-BF	Y	N	Y	Y	Y	Y	Y	-	-	
	Sink	A205	CES-1-A205-TF	Y	Y	N	Y	Y	N	N	-	-	
	Sink	A203	CES-1-A203-TF	Y	Y	N	Y	Y	N	N	-	-	

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment C - Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Chesterfield ES Address: 30 Saddle Way Chesterfield NJ
 Grade Levels: K-6 Year School Constructed: 2011 Renovated/Additions: 019

Individual school project officer Name/Signature: _____ Date Completed: 7/11/24

#1	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
	Sink	A202	CES-1-A202-TF	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Nurse Main area	CES-1-Nurse-NS2	Y	N	N	Y	Y	N	N	-	-	
	Bubbler	Nurse Main area	CES-1-Nurse-SB	Y	Y	N	Y	N	N	N	-	-	
	Sink	Nurse Kitchen	CES-1-Nurse-NS2	Y	Y	N	Y	Y	N	N	-	-	
	Bubbler	A260	CES-1-A260-SB	N	Y	N	Y	N	N	N	-	-	
	Water Cooler	Hall by cage L	CES-1-HCAF-WC1	Y	N	Y	Y	Y	N	Y	Elkay		
	Water Cooler	Hall by cage R	CES-1-HCAF-WC2	Y	N	Y	Y	Y	N	Y	Elkay		
	Bottle Filler	Hall by cage	CES-1-HCAF-BF	Y	N	Y	Y	Y	Y	Y	-	-	
	Sink	B252	CES-1-B252-TF	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Kit. next to IM	CES-1-Kitchen-FPI	Y	Y	N	Y	Y	N	N	-	-	
	Hose	Kit. left of dish w.	CES-1-PS-01	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Kit. right of dish	CES-1-S-17	Y	Y	N	Y	Y	N	N	-	-	

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment C - Drinking Water Outlet Inventory

(Complete for each school)

Name of School: Chesterfield ES Address: 3059866 Way Chesterfield NJ
 Grade Levels: K-6 Year School Constructed: 2011 Renovated/Additions: 0/9

Individual school project officer Name/Signature: _____ Date Completed: 7/11/24

#1	Type	Location	Code	Operational ² (Y/N)	Signs of Corrosion ³ (Y/N)	Filter ⁴ (Y/N)	Brass Fittings, Faucets or valves? (Y/N)	Aerator/ Screen (Y/N)	Motion Activated (Y/N)	Chiller (Y/N)	Water Cooler		Comments
											Make	Model	
	Sink	Kit. mid. stainless	CES-1-S-18	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Kit. mid. stainless	CES-1-S-19	Y	Y	N	Y	Y	N	N	-	-	
	Kettle	Kit. right to stove	CES-1-K-02	Y	N	N	Y	N	N	N	-	-	
	Sink	Kitchen	CES-1-Kitchen-FPS	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Kitchen	CES-1-Kitchen-FPS	Y	Y	N	Y	N	N	N	-	-	
	Sink	Kit. 3comp. left	CES-1-S-20	Y	Y	N	Y	Y	N	N	-	-	
	Sink	Kit. 3comp. right	CES-1-S-21	Y	Y	N	Y	Y	N	N	-	-	
	Bubbler	B246	CES-1-B246-SB	Y	Y	N	Y	N	N	N	-	-	
	Bubbler	B247	CES-1-B247-SB	Y	Y	N	Y	N	N	N	-	-	
	Sink	B303	CES-V-B303-TF	Y	Y	N	Y	Y	N	N	-	-	
	Water Cooler	Hall by B317R	CES-V-HB317WC1	Y	N	Y	Y	Y	N	Y	Plkey		
	Water Cooler	Hall by B317L	CES-V-HB317WC1	Y	N	Y	Y	Y	N	Y	Plkey		
	Bottle Filler	Hall by B317	CES-V-HB317BF	Y	N	Y	Y	Y	Y	Y	-	-	

¹ Number outlets starting at the closest outlet to the Point of Entry (POE).

² Document if permanently or temporarily out of service on the Attachment B- Plumbing Profile.

³ Signs of corrosion detected, such as but not limited to frequent leaks, rust-colored water, or stained fixtures, dishes, or laundry.

⁴ Document on Attachment D- Filter Inventory.

Attachment D - Filter Inventory

(Complete for each school)

Name of School:

Grade Levels: K-6

Chestfield Elementary School

Address:

30 Saddle Way, Chesterfield NJ

Individual School Project Officer Signature:

Date: 7/11/24

[illegible]

Attachment E – Flushing Log

(Complete for each school as applicable)

Name of School: Chesterfield ESAddress: 30 Saddle Way, Chesterfield NJGrade Levels: K-6Individual School Project Officer Signature: L. J. [Signature] Date: 7/11/24

Sample Location Description	Sample Location Code	Date	Time	Duration of Flushing	Reason for Flushing
B101	CES-L-B101-TF	7/11/24	1:05pm	30 sec.	LPH testing
B103	CES-L-B103-SB		12:13pm		
B108	CES-L-B108-SB		12:17pm		
B109	CES-L-B109-SB		12:20pm	↓	
H911 by B110 (R)	CES-L-HB110-WC0		12:26pm	15 min	
H911 by B110 (L)	CES-L-HB110-WC1		12:26pm	↓	
H911 by B110	CES-L-HB110-BF		12:42pm	30 sec.	
B116	CES-L-B116-SB		12:49pm		
B115	CES-L-B115-SB		12:56pm		
B118	CES-L-B118-SB		12:53pm		
B117	CES-L-B117-SB		12:55pm		
B122	CES-L-B122-SB		1:00pm		
B123	CES-L-B123-SB		1:02pm		
B201	CES-L-B201-SB		1:14pm		
B202	CES-L-B202-SB		1:15pm		
B203	CES-L-B203-SB		1:17pm		
B204	CES-L-B204-SB		1:18pm		
B207	CES-L-B207-SB		1:20pm		
B208	CES-L-B208-SB		1:24pm		
B230	CES-L-B230-SB		1:26pm	↓	
H911 by B233 (R)	CES-L-HB233-WC0		1:34pm	15 min.	
H911 by B233 (L)	CES-L-HB233-WC1		1:34pm	↓	
H911 by B233	CES-L-HB233-BF	7/11/24	1:50pm	30 sec.	LPH Testing

Sample Location Description	Sample Location Code	Date	Time	Duration of Flushing	Reason for Flushing
B235	CES-1-B235-SB	7/11/04	1:56pm	30sec.	LDW Testing
B240	CES-1-B240-SB		2:00 pm	↓	
B244	CES-1-B244-SB		2:02 pm		
B245	CES-1-B245-SB		2:05 pm	↓	
Hall by gym(L)	CES-1-Hgym-WC1		2:11 pm	15 min	
Hall by gym(R)	CES-1-Hgym-WC0		2:11 pm	↓	
Hall by gym	CES-1-Hgym-BF		2:27 pm	30sec.	
A205	CES-1-A205-TF		2:30 pm	↓	
A203	CES-1-A203-TF		2:31 pm		
A202	CES-1-A202-TF		2:34 pm		
Nurse sink	CES-1-Nurse-NS1		2:40 pm	↓	
Nurse lobby	CES-1-Nurse-SB		2:41 pm		
Nurse kitchen	CES-1-Nurse-NS0		2:42 pm	↓	
Hall by cgr(L)	CES-1-HCAF-WC1		2:55 pm	15 min	
Hall by cgr(R)	CES-1-HCAF-WC0		2:55 pm	↓	
Hall by cgr	CES-1-HCAF-BF		3:10 pm	30sec.	
B250	CES-1-B250-TF		3:15pm	↓	
Kit. next to ice maker	CES-1-Kitchen-FP1		3:17 pm		
Kit. left of dish washer	CES-1-DS-02		3:21 pm		
Kit. right of dish washer	CES-1-S-17		3:22 pm		
Kit. middle island kettle	CES-1-S-18		3:28 pm		
Kit. middle island serving	CES-1-S-19		3:30 pm		
Kit. Kettle	CES-1-K-02		3:31 pm		
Kit left island kettle	CES-1-Kitchen-FP3		3:35 pm		
Kit. left island serving	CES-1-Kitchen-FP4		3:37 pm		
Kit. 3 comp. left	CES-1-S-20		3:38 pm		
Kit. 3 comp. right	CES-1-S-21		3:39 pm		
B246	CES-1-B246-SB		3:40pm	↓	
B247	CES-1-B247-SB		3:44pm		
B303	CES-V-B303-TF		3:48pm	↓	
Hall by B317(R)	CES-V-HB317-WC0		3:52 pm	15 min	
Hall by B317(L)	CES-V-HB317-WC1		3:52 pm	↓	
Hall by B317	CES-V-HB317-BF	↓	4:07pm	30sec.	↓

Attachment F - Pre - Sampling Water Use Certification
(Complete for each school)

TO BE COMPLETED BY THE <<SCHOOL NAME>> DISTRICT REPRESENTATIVE:

School Name: Chestfield Elementary School

Sample collection address: 30 Saddle Way, Chestfield NJ

Water was last used: Time: 4:07pm Date: 7/11/24

Sample commencement: Time: 8:17am Date: 7/12/24

I have read the (INSERT SCHOOL DISTRICT NAME) Lead Drinking Water Testing Sampling Plan and Quality Assurance Project Plan and I am certifying that samples were collected in accordance with these plans.

Signature

Date

Attachment H – Sampling Toolkit

H.i: Recalled Water Cooler List

USEPA's Water Cooler Recall List

Tables from EPA's 3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance

Table E-1

Halsey Taylor Water Coolers With Lead-Lined Tanks²

The following six model numbers have one or more units in the model series with lead-lined tanks:

WM8A WT8A GC10ACR GC10A GC5A RWM13A

The following models and serial numbers contain lead-lined tanks:

WM14A Serial No.
843034

WM14A Serial No.
843006

WT11A Serial No. 222650

WT21A Serial No.
64309550

WT21A Serial No.
64309542

LL14A Serial No. 64346908

²Based upon an analysis of 22 water coolers at a US Navy facility and subsequent data obtained by EPA, EPA believes the most serious cooler contamination problems are associated with water coolers that have lead-lined tanks.

Per EPA's 3Ts for Reducing Lead in Drinking Water in Schools Revised Technical Guidance, a company formerly associated with Halsey Taylor, Scotsman Ice Systems, has assumed responsibility for replacement of lead-line coolers previously marketed by Halsey Taylor. See below for the address of Scotsman Ice Systems.

Scotsman Ice Systems
775 Corporate Woods Parkway
Vernon Hills, IL 60061
PH: (800) SCOTSMAN or 800-726-8762
PH: (847) 215-4500

Table E-2
Water Coolers With Other Lead Components

EBCO Manufacturing

All pressure bubbler water coolers with shipping dates from 1962 through 1977 have a bubbler valve containing lead. The units contain a single, 50-50 tin-lead solder joint on the bubbler valve. Model numbers for coolers in this category are not available.

The following models of pressure bubbler coolers produced from 1978 through 1981 contain one 50-50 tin-lead solder joint each.

<u>CP3</u>	<u>DP15W</u>	<u>DPM8</u>	<u>7E</u>	<u>13P</u>	<u>DPM8H</u>	<u>DP15M</u>	<u>DP3R</u>	<u>DP8A</u>
<u>DP16M</u>	<u>DP5S</u>	<u>C10E</u>	<u>PX-10</u>	<u>DP75</u>	<u>DP135M</u>	<u>DP7M</u>	<u>DP7MH</u>	<u>DP7WMD</u>
<u>WTC10</u>	<u>DP13M-60</u>	<u>DP14M</u>	<u>CP10-50</u>	<u>CP5</u>	<u>CP5M</u>	<u>DP15MW</u>	<u>DP3R</u>	<u>DP14S</u>
<u>DP20-50</u>	<u>DP75M</u>	<u>DP10X</u>	<u>DP13A</u>	<u>DP13A-50</u>	<u>EP10F</u>	<u>DP5M</u>	<u>DP10F</u>	<u>CP3H</u>
<u>CP3-50</u>	<u>DP13M</u>	<u>DP3RH</u>	<u>DP5F</u>	<u>CP3M</u>	<u>EP5F</u>	<u>13PL</u>	<u>DP8AH</u>	<u>DP13S</u>
<u>CP10</u>	<u>DP20</u>	<u>DP12N</u>	<u>DP7WM</u>	<u>DP14A-50/60</u>				

Halsey Taylor

1. Lead solder was used in these models of water coolers manufactured between 1978 and the last week of 1987:

<u>WMA-1</u>	<u>SCWT/SCWT-A</u>	<u>SWA-1</u>	<u>DC/DHC-1</u>
<u>S3/5/10D</u>	<u>BFC-4F/7F/4FS/7FS</u>	<u>S300/500/100D</u>	

2. The following coolers manufactured for Haws Drinking Faucet Company (Haws) by Halsey Taylor from November 1984 through December 18, 1987, are not lead-free because they contain 2 tin-lead solder joints. The model designations for these units are as follows:

<u>HC8WT</u>	<u>HC14F</u>	<u>HC6W</u>	<u>HWC7D</u>	<u>HC8WTH</u>	<u>HC14F</u> <u>H</u>	<u>HC8W</u>	<u>HC2F</u>	<u>HC14WT</u>
<u>HC14PL</u>	<u>HC14W</u>	<u>HC2FH</u>	<u>HC14WTH</u>	<u>HC8FL</u>	<u>HC4F</u>	<u>HC5F</u>	<u>HC14WL</u>	<u>HCBF7D</u>
<u>HC4FH</u>	<u>HC10F</u>	<u>HC16WT</u>	<u>HCBF7HO</u>	<u>HC8F</u>	<u>HC8FH</u>	<u>HC4W</u>	<u>HWC7</u>	

H.ii: Ice Machine Sample Collection Procedure

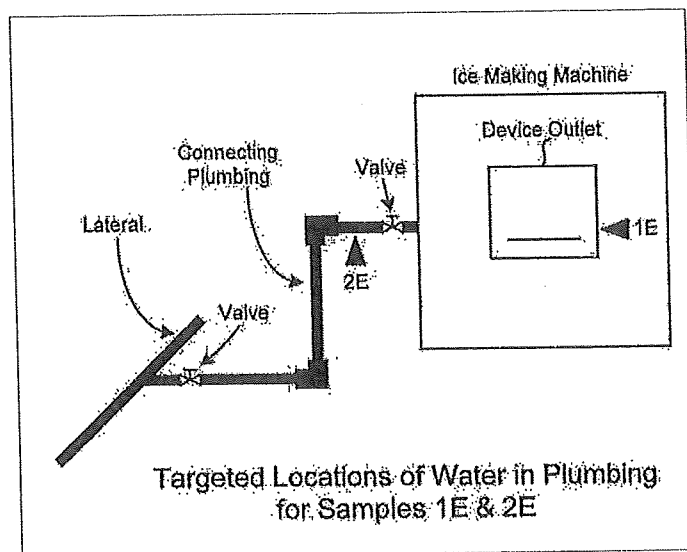
Sample Collection Procedures:

Initial Screening Sample 1E

- Fill a 250 mL or larger, wide-mouthed bottle or other container provided by the laboratory at least three-quarters full of ice. Do not touch the ice with your hands. Use the non-metal scoop or disposable plastic gloves provided by the laboratory to place the ice in the container.
- If the lead level in Sample 1E exceeds 15 $\mu\text{g/L}$ (ppb), collect a follow-up sample to determine if the source of the lead is the plumbing or the ice machine itself.

Follow-Up Sample 2E

- Disconnect the ice machine from the plumbing and look for a screen at the inlet. Remove the screen. If debris is present, forward a sample of the debris to the laboratory for analysis and clean out the remaining debris. The laboratory will determine whether lead solder is present. Clean the screen routinely to avoid accumulations of debris.
- Collect the sample from the disconnected plumbing as close to the ice machine as possible. Fill the sample container with 250 mL of water. If no outlet is available, contact the ice machine manufacturer for recommendations that will minimize disruption of existing plumbing. Adding outlets or valves could add new sources of lead to the plumbing, even if the new devices are lead-free and meet NSF Standard 61, section 8. If a sample outlet or valve is available, collect the sample immediately after opening the outlet or valve.



United States Environmental Protection Agency 3Ts for Reducing Lead in Drinking Water in Schools

H.iii: School Wide Flushing Procedure

Each drinking water outlet should be flushed individually; flushing a toilet will not flush your water fountains. All flushing should be recorded in the Flushing Log (Attachment E) for each school and completed prior to sampling to allow the required stagnation time.

- Locate the faucet furthest away from the service line on each wing and floor of the building, open the faucets wide, and let the water run for 10 minutes. This 10-minute time frame is considered adequate for most buildings.
- Open valves at all drinking water fountains without refrigeration units and let the water run for roughly 30 seconds to one minute, or until cold.
- Let the water run on all refrigerated water fountains for 15 minutes.
- Open all kitchen faucets (and other faucets where water will be used for drinking and/or food preparation) and let the water run for 30 seconds to one minute, or until cold.

United States Environmental Protection Agency *3Ts for Reducing Lead in Drinking Water in Schools*

H.iv: Sampling Event Checklist
To be completed the day of sampling

Before Beginning Sampling:

- Review and Sign QAPP.
- Review School packet prior to sampling- including floor plan with sample locations, water outlet inventory including all outlets to be sampled, filter inventory including which drinking water outlets that have filters, and if applicable pre-sampling event flushing schedule including which outlets were flushed, the duration of flushing, and when they were flushed.
- Perform a walk-through of the facility prior to sampling. Identify all outlets to be sampled, and label each outlet with its unique sample location code as it is found in the water outlet inventory.
- Verify that the water has been stagnant for at least 8 hours, but no longer than 48 hours. If the stagnation time has not been met, the sampling will have to be rescheduled.

Sampling:

- Prepare a Field Blank.
- Start sampling at the outlet closest to the point of entry. Follow the sampling order established to follow the flow of cold water throughout the building.
- For each building being sampled record the time that sampling begins.
- Leave all aerators/screens and filters in place.
- Wearing gloves, collect samples into a 250 ml pre-cleaned wide-mouth bottle.
- Record the time each sample is collected.
- If follow-up flush samples are being collected, record the duration of the flush.
- Label all Follow-Up Flush Samples with "FLUSH" after their unique sample location code. (e.g. WHS-1FL-DW and WHS -1FL-DW-FLUSH)
- AFTER all other samples have been collected, for follow-up flush sampling, collect fifteen minute flushed samples from water coolers.
- Indicate on the Chain of Custody (COC) if the outlet is leaking, the water is discolored, the outlet is not working, or the outlet has a filter.

After Sampling:

- Record the time that sampling ends.
- Document and sign the COC.
- Count sampling bottles to make sure all water outlets on the water outlet inventory were sampled.

Project Officer:	<u>Scott J. Hogan</u> Print Name	 Signature	<u>8/19/2024</u> Date
Sampler:	<u>Michael Blaney</u> Print Name	 Signature	<u>7/12/24</u> Date

H.v: Sample Signs



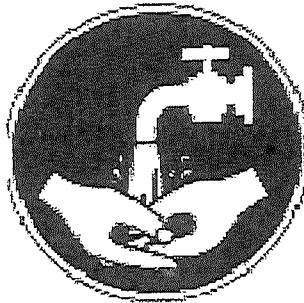
**WATER TESTING IN
PROGRESS**

**PLEASE DO NOT USE ANY
WATER SOURCES – SINKS,
FOUNTAINS, TOILETS, ETC.**

DO NOT DRINK



SAFE FOR HANDWASHING



H.vi: School Sampling Package Review Checklist

Review performed by: (Name/Title) Scott Hagan / Business Administrator Date: 8/19/24

Name and certification number of the NJ Certified Laboratory who performed the analytical testing:

Name: York Analytical Certification Number: 15001

1. QAPP signed by all parties involved in sampling (Program Manager, Project Manager, Individual School Project Officers, Laboratory Manager, Laboratory QA Officer): **Y or N**
If N, obtain.
2. Completed Plumbing Profile (Attachment B): **Y or N**
If N, provide details on what is missing:

If **Y**, should include:

- i. What is the material of service line: **Y or N**
 - a. Is the school served by a lead service line? **Y, N, or Unknown**
 - i. Must provide documentation for either Y or N answer. If Unknown, provide the plan for getting this information.

 - ii. What is the material of potable water pipes: **Y, N, or Unknown**
- b. Was lead solder used in the plumbing system? **Y, N, or Unknown**. If Unknown, provide the plan for getting this information (i.e. conduct lead swab checks on solder throughout the building).

- ii. c. Are brass fittings, faucets, or valves used in the drinking water system? **Y or N**
- ii. Determined the Make and Model of Drinking Water Fountains/Water Coolers: **Y or N**
 - a. Checked all of the drinking water fountains and coolers against the EPA list of recalled fountains: **Y or N**
 - i. If Y, any fountains that were on the list were taken out of service and the information was recorded in the school's file.
- iii. Identified areas deviating from normal usage in the drinking water system: **Y or N**

- a. If Y, identify where. Verify that these areas were flushed properly.
- iv. Are any outlets out-of-service: **Y or N**
- a. If Y, identify where. Verify that these areas are still out of service. If permanently out of service, verify that these outlets are planned to be decommissioned or replaced and if being replaced they will be sampled when placed in service. If temporarily out of service, verify that these outlets will be sampled when they are placed back in service.
- v. Have any plumbing repairs and replacements been performed within the last year: **Y or N**
- a. If Y, identify where.

3. Is Water Outlet Inventory (Attachment C) for the school completed with all information filled in? **Y or N**

If N, provide details on what is missing.

4. Is the Filter Inventory (Attachment D) thoroughly completed: **Y or N**

If N, provide details on what is missing.

5. Is the Flushing Log (Attachment E) thoroughly completed: **Y, N or NA**
- Only applicable for facilities or specific locations in a facility that are not routinely used (e.g. concession stands) or deviate from normal usage (e.g. buildings closed for holiday break).

If Y, does it include duration and location of flushes? **Y or N**

If N, provide details.

6. Is there a completed laboratory report & data package for each sampling event including Chain of Custody sheets, field notes, results report and Excel spreadsheet: **Y or N**

If N, provide details on what is missing.

Laboratory Report & Data Package Review

1. Is the Laboratory Report & Data Package complete: **Y or N**
 - a. If N, provide details on what is missing and contact lab if necessary.

2. Does the number of samples on the results report from the laboratory match the number of samples on the Chain of Custody? **Y or N**
 - a. If N, identify which sample(s) are missing. Add these sampling locations to the *Follow-Up Sampling list*.

3. Is there a field blank? **Y or N**
4. Are results reported in units of $\mu\text{g/l}$ or ppb? **Y or N**
 - a. If N, remind lab to report results as $\mu\text{g/l}$ or ppb.
5. Are results reported to at least 3 significant figures? **Y or N**
 - a. If N, contact lab.
6. Are there results above 100 $\mu\text{g/l}$? **Y or N**
 - a. If Y, compare the result on the Microsoft Excel spreadsheet with the result of the laboratory report. Both results should be identical. If the results do not agree, call the laboratory to verify the correct result.
7. Compared the field/Chain of Custody notes to the sampling results? **Y or N**
 - a. If Y, are there any notes and sampling results that indicates a outlet needs to be re-sampled? Add these sampling locations to the *Follow-Up Sampling list*. (i.e. notes indicate outlet was leaking or water was discolored)
8. Are there outlets that could not be sampled because they were not operational? **Y or N**
 - a. If Y, outlets will be need to be sampled as part of follow-up sampling. Add these outlets on the *Follow-Up Sampling list*.

9. Are there sample codes not identified on the Key Code? **Y or N**
 - a. If Y, contact sample collector and individual school coordinator to identify.
10. Verified that water outlets requiring pre-stagnant flushing were properly flushed: **Y or N**
 - a. Are there outlets that were sampled and after reviewing the field notes it is apparent they required pre-stagnant flushing but were not flushed? **Y or N**
 - b. If Y, these outlets need to be resampled as part of follow-up sampling. Add these outlets on the *Follow-up sampling list*.
11. Compared initial first draw samples with follow-up flush samples (if collected): **Y or N**
12. Are there outlets with an elevated initial first draw sample? **Y or N**
 - a. If Y, was a follow-up flush sample taken at these outlets? **Y or N**
If N, these outlets need sampled follow-up flush sample taken as part of the follow-up sampling. Add these outlets to the *Follow-up Sampling list*.
13. Are there any outlets with follow-up flush sample results greater than the first draw sample results? **Y or N**
 - a. If Y, identify the internal plumbing material using the school's plumbing profile.
14. Match up the filters with the exact locations they are installed using the school's filter inventory. Determine the following:
 - a. Exact date installed: **Y, N, or Unknown**
 - b. If N, return to location and identify.
 - c. If Unknown, assume the filter will need to be replaced.

H.vii: FOLLOW-UP SAMPLING INVENTORY

School Name Chesterfield ES

Individual School Project Officer: Scott J. Hagan

Date Completed: 8/19/24

SAMPLE ID/ LOCATION	REASON FOR FOLLOW- UP SAMPLING*	DATE RESAMPLED
NA	NA	NA

H.viii: FOUNTAINS / DRINKING WATER COOLERS ON EPA'S RECALL LIST

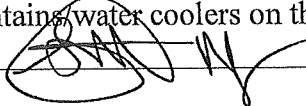
School Name chesterfield ES

Individual School Project Officer: _____

Date Completed: _____

SAMPLE ID/ LOCATION	MAKE	MODEL	TAKEN OUT OF SERVICE (DATE)	INITIALS

If N/A, provide signature below indicating that the school does not have any drinking water fountains/water coolers on the EPA Recall list.

 Date 8/19/24

H.ix: OUTLETS WITH FILTERS INSTALLED - RESULTS

School Name Chesterfield Elementary
 Individual School Project Officer: Scott J. Hogan
 Date Completed: 8/19/24

SAMPLE ID/ LOCATION	FILTER		Results (µg/l) with current filter	Results (µg/l) without filter	Results (µg/l) After new filter
	Make	Model			

H.x_ Data Review Summary

School: Chesterfield Elementary
Date Sampled: 8/19/2024
Individual School Project Officer: Scott J. Hogan

- ☐ Verify number of samples.
 - o Make sure there are results for each sample taken.Number of outlets sampled: _____
Number of initial first draw: _____
Number of follow-up flush: _____
- ☐ Confirm all results are reported with no less than three significant figures and are in units of $\mu\text{g/l}$ or ppb.
- ☐ Confirm follow-up flush samples are collected at all water outlets that require a flush sample.

Number of samples $\geq 15.5 \mu\text{g/l}$ initial first draw: _____
Number of samples $\geq 15.5 \mu\text{g/l}$ follow-up flush: _____
Total Number of samples $\geq 15.5 \mu\text{g/l}$: _____

For samples $\geq 15.5 \mu\text{g/l}$:

- ☐ Compare initial first draw samples with follow-up flush samples.

Number of outlets with decreased result between initial first draw and follow-up flush ($\geq 15.5 \mu\text{g/l}$ and now $< 15.5 \text{ ppb}$): _____
Number of outlets increased between initial first draw and follow-up flush ($< 15.5 \mu\text{g/l}$ and now $\geq 15.5 \mu\text{g/l}$): _____
Number of outlets that remained $\geq 15.5 \mu\text{g/l}$ (both results $> 15.5 \mu\text{g/l}$): _____

- ☐ Verify follow-up flush samples that are greater than the initial first draw sample.
 - o Check field notes and chain of custody for notes on the collection of these samples.
 - o Compare the results on the laboratory reports with those on the Microsoft Excel spreadsheet.
- ☐ Verify results $> 100 \mu\text{g/l}$
 - o Compare the result on the Microsoft Excel spreadsheet with the result of the laboratory report. Both results should be identical. If the results do not agree, call the laboratory to verify the correct result.
 - o The laboratory reports must indicate if a sample required dilution. Compare the laboratory report to the Microsoft Excel spreadsheet to verify that any diluted samples were indicated as such on the spreadsheet.

- ☐ Verify sample results with field notes and chain of custody.
 - Use the field/ chain of custody notes to provide insight on what may have caused certain high results.

The following information is based on field notes and the chain of custody:

Number of drinking water outlets not sampled: _____

Sample ID of outlets that do not work/broken and were not sampled: _____

Number of outlets leaking/dripping (not repaired): _____

Sample ID of outlets leaking/dripping: _____

Number of outlets with low pressure/slow flow: _____

Sample ID of outlets with low pressure/slow flow: _____

Number, description, and Sample ID of other outlet issues (i.e. color, odor, plumbing turned off, etc.): _____

- ☐ Verify the water outlets requiring pre-sampling flushing were flushed.
 - Check the flushing log located in the school package to verify that outlets deviating from normal usage were flushed properly prior to sampling.
- ☐ Verify drinking water outlets with Filters.
 - Use the filter inventory in the school package to verify whether drinking water outlets have a filter.
- ☐ Verify unknown sample codes.
 - Make sure that ALL sample IDs used are included in the District's outlet coding list.
 - Identify all sample IDs that are not listed on the coding list.

Additional information: _____



part of
ALS Limited

**CHAIN
OF
CUSTODY**

Customer: Garden State Environmental
Address: 555 S. Broad St.
Glen Rock, NJ 07452
Phone: (201) 652-1119 Office

School Name: Chesterfield Elementary School
School Address: 30 Saddle Way, Chesterfield NJ 08515
Sampled By: Michael Blaney
Print Name: Michael Blaney
RESULTS TO: labreports@gseconsultants.com

Sample ID Location	Date / Time Sampled	Matrix Code	Grab or Comp	Flask Temp	Fiber Present	# Containers	Class or Plastic	Analyte	LAB ID
CES-L-B101-TF-A Rm B101	7/13/24 8:17 am	DW	Grab	-	No	1	250 ml Plastic	Lead	024-07221-15
CES-L-B103-SB-A Rm. B103	8:20 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B108-SB-A Rm. B108	8:24 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B109-SB-A Rm B109	8:27 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-HB112-WC2-A Hall B112 right	8:27 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-L-HB112-WC1-A Hall B112 left	8:27 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-L-HB112-BF-A Hall by B112	8:30 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-L-B116-SB-A Rm. B116	8:34 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B118-SB-A Rm. B118	8:39 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B117-SB-A Rm. B117	8:40 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B115-SB-A Rm. B115	8:36 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B122-SB-A Rm. B122	8:45 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-L-B123-SB-A Rm. B123	8:46 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B221-SB-A Rm. B221	8:52 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B222-SB-A Rm. B222	8:54 am	DW	Grab	-	No	1	250 ml Plastic	Lead	

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB.

Page 1 of 4 Deliverables: PDF Std. ☒ PDF Reduce ☐ PDF Full ☐ EDD ☐ Date/Time Preserved with Sign. 7/19/24 @ 15:00

MATRIX CODES: GW = Ground Water, WW = Waste Water, SW = Surface Water, DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge, B = Blank, K = Solid (specify): PRESERVATION CODES: 0 = Ice, 1 = HCl, 2 = H2SO4, 3 = NaOH, 4 = HNO3, 5 = Other

	Print Name:	Signature:	Company:	Date + Time
Relinquished:	Michael Blaney	Michael Blaney	GSE	7/15/24 @ 9:00
Received:	Bob Gault York	Bob Gault	York	7/18/24 12:15 PM
Relinquished:	Bob Gault York	Bob Gault	York	7/18/24 12:08
Received:	Sebastian M. Muel York	Sebastian M. Muel	York	
Relinquished:				
Received:				

Customer:	Garden State Environmental
Address:	555 S. Broad St. Glen Rock, NJ 07452
Phone:	(201) 652-1119 Office

School Name:	Chesterfield Elementary School
School Address:	30 Saddle Way, Chesterfield NJ 03515
Sampled By:	Michael Blaney
Print Name:	Michael Blaney
RESULTS TO:	labreports@gseconsultants.com

Sample ID Location	Date / Time Sampled	Matrix Code	Grab or Comp	Field Sample	Filter Present	# Containers	Class of Matrix	Analyte	LAB ID
CES-1-B223-SB-A Rm B223	7/10/24 8:45 am	DW	Grab	-	No	1	250 ml Plastic	Lead	024-0722116
CES-1-B224-SB-A Rm B224	8:57 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B227-SB-A Rm B227	9:08 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B228-SB-A Rm B228	9:05 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B230-SB-A Rm B230	9:07 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-HB233-WC2-A Hall B233 right	9:10 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-1-HB233-WC1-A Hall B233 left	9:10 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-1-HB233-BF-A Hall B233	9:11 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-1-B235-SB-A Rm B235	9:13 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B242-SB-A Rm B242	9:25 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B244-SB-A Rm B244	9:27 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B245-SB-A Rm B245	9:28 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-HGYM-WC1-A Hall gym left	9:34 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-1-HGYM-WC2-A Hall gym right	9:35 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-1-HGYM-BF-A Hall gym	9:35 am	DW	Grab	-	Yes	1	250 ml Plastic	Lead	024-0722120

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB.

Page 1 of 204	Deliverables:	PDF Std. ☒	PDF Reduce ☐	PDF Full ☐	EDD ☐	Date/Time Preserved with IUDs: 7/10/24 @ 15:00
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MATRIX CODES:	GW = Ground Water, WW = Waste Water, SW = Surface Water, DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge, B = Blank, K = Solid (specify)	PRESERVATION CODES: 0 = Ice, 1 = HCl, 2 = H2SO4, 3 = NaOH, 4 = HNO3, 5 = Other
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	Print Name	Signature	Company	Date + Time
Relinquished:	Michael Blaney	Michael Blaney	GSE	7/15/24 @ 2:00
Received:	Bob Caratta	Bob Caratta	York	7/18/24 12:20 PM
Relinquished:	Bob Caratta	Bob Caratta	York	7/18/24 12:55
Received:	Seal Dubois, M. West	Seal Dubois, M. West	YORK	
Relinquished:				
Received:				

Customer:	Garden State Environmental
Address:	555 S. Broad St.
	Glen Rock, NJ 07452
Phone:	(201) 652-1119 Office

School Name:	Chesterfield Elementary School
School Address:	30 Saddle Way, Chesterfield NJ 07015
Sampled By:	Michael Blaney
Print Name:	Michael Blaney
RESULTS TO:	labreports@gseconsultants.com

Sample ID Location	Date / Time Sampled	Matrix Code	Grab or Comp	Flash Sample	Filter Present	# Containers	Class or Plastic	Analysis	LAB ID
CES-1-A205-TF-A Rm. A205	7/17/24 9:33 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	004-07-201-31
CES-1-A203-TF-A Rm. A203	9:43 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-A201-TF-A Rm. A201	9:44 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
		DW	Grab	-	-	1	250 ml Plastic	Lead	
CES-1-NURSE-NS1-A nurse main area	10:08 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-NURSE-SB-A nurse main area	10:09 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-NURSE-NS2-A nurse kitchen	10:05 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-HCAF-WC1-A Hall cage left	10:14 AM	DW	Grab	-	YES	1	250 ml Plastic	Lead	
CES-1-HCAF-WC2-A Hall cage right	10:14 AM	DW	Grab	-	YES	1	250 ml Plastic	Lead	
CES-1-HCAF-BF-A Hall cage	10:15 AM	DW	Grab	-	YES	1	250 ml Plastic	Lead	
CES-1-B252-TF-A Rm. B252	10:17 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-KITCHEN-FP1-A Kitchen right of ice maker	10:20 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-KITCHEN-IM Kitchen ice maker	10:21 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-DS-01-A Kitchen left of dishwasher	10:22 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	
CES-1-S-17-A Kitchen right of dishwasher	10:25 AM	DW	Grab	-	NO	1	250 ml Plastic	Lead	

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB.

PDF Std. PDF Reduce PDF Full EDD Date/Time Preserved with initials

Page 1 of 3084

Deliverables:

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MATRIX CODES:	GW = Ground Water, WW = Waste Water, SW = Surface Water,
	DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge,
	B = Blank, K = Solid (specify):

PRESERVATION CODES:	0 = ke 1 = HCl
	2 = H2SO4 3 = NaOH
	4 = HNO3 5 = Other

Relinquished:	Print Name:	Signature:	Company:	Date + Time
Relinquished:	Michael Blaney	Michael Blaney	GSE	7/15/24 @ 2:00
Relinquished:	Bob Gratta	Bob Gratta	York	7/18/24 12:20 PM
Relinquished:	Bob Gratta	Bob Gratta	York	7/18/24 12:55
Relinquished:	Jedediah M. Mark	Jedediah M. Mark	York	
Relinquished:				



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ALS Limited

CHAIN
OF
CUSTODY

Customer:	Garden State Environmental
Address:	555 S. Broad St.
	Glen Rock, NJ 07452
Phone:	(201) 652-1119 Office

School Name:	Chesterfield Elementary School
School Address:	30 Saddle Way, Chesterfield NJ 08015
Sampled By:	Michael Blaney
Print Name:	Michael Blaney
RESULTS TO:	labreports@gsconsultants.com

Sample ID Location	Date / Time Sampled	Matrix Code	Grab or Comp	Plush Sample	Filter Process	# Containers	Class or Plastic	Analysis	LAB ID
CES-1-S-18-A Kitchen island by Kettle	7/17/24 10:06 am	DW	Grab	-	No	1	250 ml Plastic	Lead	034-07331-43
CES-1-S-19-A Kitchen island by Serrano line	10:08 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-K-01-A Kitchen Kettle	10:30 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-KITCHEN-FP3-A Kitchen left island Kettle	10:33 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-KITCHEN-FP4-A Kitchen left island Serrano line	10:35 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-S-20-A Kitchen 3 compartment left	10:36 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-S-21-A Kitchen 3 compartment right	10:38 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B246-SB-A Rm. B246	10:41 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-1-B247-SB-A Rm. B247	10:43 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-U-B303-TF-A Rm. B303	10:50 am	DW	Grab	-	No	1	250 ml Plastic	Lead	
CES-U-HB317-WC2-A Hall B317 right	12:03 pm	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-U-HB317-WC1-A Hall B317 left	12:04 pm	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-U-HB317-BF-A Hall B317	12:10 pm	DW	Grab	-	Yes	1	250 ml Plastic	Lead	
CES-7-12-FP-A Field Work	-	DW	Grab	-	-	1	250 ml Plastic	Lead	
		DW	Grab	-	-	1	250 ml Plastic	Lead	034-07331-50

SAMPLES REC'D UNPRESERVED. PRESERVED IN LAB.

Page 1 of 4 of 4

PDF Std.	PDF Reduce	PDF Full	EDD	Only if the Preserved with (100%)
X				

7/19/24
@ 15:00

MATRIX CODES:	GW = Ground Water, WW = Waste Water, SW = Surface Water, DW = Drinking Water, S = Soil, L = Liquid, SD = Sludge, B = Blank, K = Solid (specify):
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PRESERVATION CODES:	0 = Ice, 1 = HCl, 2 = H2SO4, 3 = NaOH, 4 = HNO3, 5 = Other
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Print Name:	Signature:	Analysis	Date + Time
Relinquished: Michael Blaney	Minor Blaney	GSE	7/18/24 @ 2:00
Received: Bob Coratton	Bob Coratton	York	7/18/24 12:20 PM
Relinquished: Bob Gynth	Bob Gynth	York	7/18/24 17:55
Received: Detective [Signature]	[Signature]	YORK	
Relinquished:			
Received:			



CERTIFICATE OF ANALYSIS

Customer : Garden State Environmental
555 South Broad Street, Suite K
Glen Rock, NJ 07452

Project ID : Chesterfield Elementary School, 30 Saddle Way, Chesterfield, NJ 08515
PAS Project ID : P24-07221

Matrix : Drinking Water
Report Date : 7/30/2024

PAS Sample ID	Client ID	Analysis	Results	Units	DF	PQL	MDL	MCL	Method	Date Sampled	Date Analyzed
P24-07221-01	CES-L-B101-TF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:17	7/23/24 13:23
P24-07221-02	CES-L-B103-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:20	7/23/24 13:39
P24-07221-03	CES-L-B108-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:24	7/23/24 13:51
P24-07221-04	CES-L-B109-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:27	7/23/24 13:55
P24-07221-05	CES-L-HB112-WC2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:29	7/23/24 13:59
P24-07221-06	CES-L-HB112-WC1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:29	7/23/24 14:03
P24-07221-07	CES-L-HB112-BF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:30	7/23/24 14:07
P24-07221-08	CES-L-B116-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:34	7/23/24 14:11
P24-07221-09	CES-L-B118-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:39	7/23/24 14:15
P24-07221-10	CES-L-B117-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:40	7/23/24 14:19
P24-07221-11	CES-L-B115-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:36	7/23/24 14:23
P24-07221-12	CES-L-B122-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:45	7/23/24 14:35
P24-07221-13	CES-L-B123-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:46	7/23/24 14:39
P24-07221-14	CES-1-B221-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:52	7/23/24 14:44
P24-07221-15	CES-1-B222-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:54	7/23/24 14:48
P24-07221-16	CES-1-B223-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:56	7/23/24 14:52
P24-07221-17	CES-1-B224-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 08:58	7/23/24 14:56
P24-07221-18	CES-1-B227-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:03	7/23/24 15:00
P24-07221-19	CES-1-B228-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:05	7/23/24 15:04
P24-07221-20	CES-1-B230-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:08	7/23/24 15:08
P24-07221-21	CES-1-HB233-WC2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:10	7/23/24 15:21
P24-07221-22	CES-1-HB233-WC1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:10	7/23/24 15:37
P24-07221-23	CES-1-HB233-BF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:11	7/23/24 15:41
P24-07221-24	CES-1-B235-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:13	7/23/24 15:45
P24-07221-25	CES-1-B242-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:25	7/23/24 15:49
P24-07221-26	CES-1-B244-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:27	7/23/24 15:52
P24-07221-27	CES-1-B245-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:28	7/23/24 16:05
P24-07221-28	CES-1-HGYM-WC1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:34	7/23/24 16:09
P24-07221-29	CES-1-HGYM-WC2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:35	7/23/24 16:13
P24-07221-30	CES-1-HGYM-BF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:35	7/23/24 16:17
P24-07221-31	CES-1-A205-TF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:39	7/23/24 16:21
P24-07221-32	CES-1-A203-TF-A	Lead	2.09	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:42	7/23/24 16:25
P24-07221-33	CES-1-A201-TF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 09:44	7/23/24 16:29
P24-07221-34	CES-1-NURSE-NS1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:03	7/23/24 16:33
P24-07221-35	CES-1-NURSE-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:04	7/23/24 14:02
P24-07221-36	CES-1-NURSE-NS2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:05	7/23/24 14:18
P24-07221-37	CES-1-HCAF-WC1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:14	7/23/24 14:30
P24-07221-38	CES-1-HCAF-WC2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:14	7/23/24 14:34
P24-07221-39	CES-1-HCAF-BF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:15	7/23/24 14:38
P24-07221-40	CES-1-B252-TF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:17	7/23/24 14:42
P24-07221-41	CES-1-KITCHEN-FP1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:20	7/23/24 14:46
P24-07221-42	CES-1-KITCHEN-IM	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:21	7/23/24 14:50
P24-07221-43	CES-1-DS-01-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:22	7/23/24 14:54
P24-07221-44	CES-1-S-17-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:25	7/23/24 14:58
P24-07221-45	CES-1-S-18-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:26	7/23/24 15:02
P24-07221-46	CES-1-S-19-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:28	7/23/24 15:14
P24-07221-47	CES-1-K-01-A	Lead	10.3	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:30	7/23/24 15:18

Except for the parameters tested, PAS makes no representation as to the fitness or quality of the water sample taken.

PQL = Practical Quantitation Limit
MDL = Minimum Detection Limit
MCL = Maximum Contaminant Level
DF = Dilution Factor
ND = Analyzed for but not detected
* Federal Action Level

All samples are analyzed in accordance with
New Jersey Department of Environmental
Protection Protocol

Kelly Hogan

Kelly Hogan - Quality Assurance Officer



CERTIFICATE OF ANALYSIS

Customer : Garden State Environmental
555 South Broad Street, Suite K
Glen Rock, NJ 07452

Project ID : Chesterfield Elementary School, 30 Saddle Way, Chesterfield, NJ 08515

PAS Project ID : P24-07221

Matrix : Drinking Water

Report Date : 7/30/2024

PAS Sample ID	Client ID	Analysis	Results	Units	DF	PQL	MDL	MCL	Method	Date Sampled	Date Analyzed
P24-07221-48	CES-1-KITCHEN-FP3-A	Lead	1.80 J	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:33	7/23/24 15:22
P24-07221-49	CES-1-KITCHEN-FP4-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:35	7/23/24 15:27
P24-07221-50	CES-1-S-20-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:36	7/23/24 15:31
P24-07221-51	CES-1-S-21-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:38	7/23/24 15:35
P24-07221-52	CES-1-B246-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:41	7/23/24 15:39
P24-07221-53	CES-1-B247-SB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:43	7/23/24 15:43
P24-07221-54	CES-U-B303-TF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 10:50	7/23/24 15:47
P24-07221-55	CES-U-HB317-WC2-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 12:09	7/23/24 15:59
P24-07221-56	CES-U-HB317-WC1-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 12:09	7/23/24 16:15
P24-07221-57	CES-U-HB317-BF-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 12:10	7/23/24 16:19
P24-07221-58	CES-7-12-FB-A	Lead	ND	ug/L	1	2.00	0.900	15.0 *	SM 3113 B	7/12/24 00:00	7/23/24 16:23

Except for the parameters tested, PAS makes no representation as to the fitness or quality of the water sample taken.

PQL = Practical Quantitation Limit

MDL = Minimum Detection Limit

MCL = Maximum Contaminant Level

DF = Dilution Factor

ND = Analyzed for but not detected

J = Estimated result

* Federal Action Level

All samples are analyzed in accordance with
New Jersey Department of Environmental
Protection Protocol

Kelly Hogan - Quality Assurance Officer

Appendix D
Excel Template for Lead Results

Client : Garden State Environmental
Project ID : Chesterfield Elementary School, 30 Saddle Way, Chesterfield, NJ 08515

Field ID	Flushed (Y/N)	Lab. Sample ID	Lab. Name	Lab. ID	Date Sampled	Time Sampled	Analytical Method	Date of Analysis	Time of Analysis	Conc. (ug/L)	Rpt. Limit (ug/L)	DF	Digested (Y/N)	Qfr.
CES-L-B101-TF-A	N	P24-07221-01	PAS	NJDEP 15001	7/12/2024	8:17	SM 3113 B	7/23/2024	13:23	-0.22	2.00	1	N	ND
CES-L-B103-SB-A	N	P24-07221-02	PAS	NJDEP 15001	7/12/2024	8:20	SM 3113 B	7/23/2024	13:39	-0.22	2.00	1	N	ND
CES-L-B108-SB-A	N	P24-07221-03	PAS	NJDEP 15001	7/12/2024	8:24	SM 3113 B	7/23/2024	13:51	-0.50	2.00	1	N	ND
CES-L-B109-SB-A	N	P24-07221-04	PAS	NJDEP 15001	7/12/2024	8:27	SM 3113 B	7/23/2024	13:55	0.072	2.00	1	N	ND
CES-L-HB112-WC2-A	N	P24-07221-05	PAS	NJDEP 15001	7/12/2024	8:29	SM 3113 B	7/23/2024	13:59	-0.22	2.00	1	N	ND
CES-L-HB112-WC1-A	N	P24-07221-06	PAS	NJDEP 15001	7/12/2024	8:29	SM 3113 B	7/23/2024	14:03	-0.50	2.00	1	N	ND
CES-L-HB112-BF-A	N	P24-07221-07	PAS	NJDEP 15001	7/12/2024	8:30	SM 3113 B	7/23/2024	14:07	-0.50	2.00	1	N	ND
CES-L-B116-SB-A	N	P24-07221-08	PAS	NJDEP 15001	7/12/2024	8:34	SM 3113 B	7/23/2024	14:11	0.072	2.00	1	N	ND
CES-L-B118-SB-A	N	P24-07221-09	PAS	NJDEP 15001	7/12/2024	8:39	SM 3113 B	7/23/2024	14:15	0.072	2.00	1	N	ND
CES-L-B117-SB-A	N	P24-07221-10	PAS	NJDEP 15001	7/12/2024	8:40	SM 3113 B	7/23/2024	14:19	0.072	2.00	1	N	ND
CES-L-B115-SB-A	N	P24-07221-11	PAS	NJDEP 15001	7/12/2024	8:36	SM 3113 B	7/23/2024	14:23	0.072	2.00	1	N	ND
CES-L-B122-SB-A	N	P24-07221-12	PAS	NJDEP 15001	7/12/2024	8:45	SM 3113 B	7/23/2024	14:35	0.360	2.00	1	N	ND
CES-L-B123-SB-A	N	P24-07221-13	PAS	NJDEP 15001	7/12/2024	8:46	SM 3113 B	7/23/2024	14:39	0.072	2.00	1	N	ND
CES-1-B221-SB-A	N	P24-07221-14	PAS	NJDEP 15001	7/12/2024	8:52	SM 3113 B	7/23/2024	14:44	-0.22	2.00	1	N	ND
CES-1-B222-SB-A	N	P24-07221-15	PAS	NJDEP 15001	7/12/2024	8:54	SM 3113 B	7/23/2024	14:48	-0.22	2.00	1	N	ND
CES-1-B223-SB-A	N	P24-07221-16	PAS	NJDEP 15001	7/12/2024	8:56	SM 3113 B	7/23/2024	14:52	-0.22	2.00	1	N	ND
CES-1-B224-SB-A	N	P24-07221-17	PAS	NJDEP 15001	7/12/2024	8:58	SM 3113 B	7/23/2024	14:56	0.072	2.00	1	N	ND
CES-1-B227-SB-A	N	P24-07221-18	PAS	NJDEP 15001	7/12/2024	9:03	SM 3113 B	7/23/2024	15:00	0.072	2.00	1	N	ND
CES-1-B228-SB-A	N	P24-07221-19	PAS	NJDEP 15001	7/12/2024	9:05	SM 3113 B	7/23/2024	15:04	0.360	2.00	1	N	ND
CES-1-B230-SB-A	N	P24-07221-20	PAS	NJDEP 15001	7/12/2024	9:08	SM 3113 B	7/23/2024	15:08	0.360	2.00	1	N	ND
CES-1-HB233-WC2-A	N	P24-07221-21	PAS	NJDEP 15001	7/12/2024	9:10	SM 3113 B	7/23/2024	15:21	-0.22	2.00	1	N	ND
CES-1-HB233-WC1-A	N	P24-07221-22	PAS	NJDEP 15001	7/12/2024	9:10	SM 3113 B	7/23/2024	15:37	0.360	2.00	1	N	ND
CES-1-HB233-BF-A	N	P24-07221-23	PAS	NJDEP 15001	7/12/2024	9:11	SM 3113 B	7/23/2024	15:41	-0.22	2.00	1	N	ND
CES-1-B235-SB-A	N	P24-07221-24	PAS	NJDEP 15001	7/12/2024	9:13	SM 3113 B	7/23/2024	15:45	0.650	2.00	1	N	ND
CES-1-B242-SB-A	N	P24-07221-25	PAS	NJDEP 15001	7/12/2024	9:25	SM 3113 B	7/23/2024	15:49	0.360	2.00	1	N	ND
CES-1-B244-SB-A	N	P24-07221-26	PAS	NJDEP 15001	7/12/2024	9:27	SM 3113 B	7/23/2024	15:52	0.650	2.00	1	N	ND
CES-1-B245-SB-A	N	P24-07221-27	PAS	NJDEP 15001	7/12/2024	9:28	SM 3113 B	7/23/2024	16:05	0.650	2.00	1	N	ND
CES-1-HGYM-WC1-A	N	P24-07221-28	PAS	NJDEP 15001	7/12/2024	9:34	SM 3113 B	7/23/2024	16:09	0.360	2.00	1	N	ND
CES-1-HGYM-WC2-A	N	P24-07221-29	PAS	NJDEP 15001	7/12/2024	9:35	SM 3113 B	7/23/2024	16:13	0.360	2.00	1	N	ND
CES-1-HGYM-BF-A	N	P24-07221-30	PAS	NJDEP 15001	7/12/2024	9:35	SM 3113 B	7/23/2024	16:17	0.360	2.00	1	N	ND
CES-1-A205-TF-A	N	P24-07221-31	PAS	NJDEP 15001	7/12/2024	9:39	SM 3113 B	7/23/2024	16:21	0.360	2.00	1	N	ND
CES-1-A203-TF-A	N	P24-07221-32	PAS	NJDEP 15001	7/12/2024	9:42	SM 3113 B	7/23/2024	16:25	2.09	2.00	1	N	
CES-1-A201-TF-A	N	P24-07221-33	PAS	NJDEP 15001	7/12/2024	9:44	SM 3113 B	7/23/2024	16:29	0.650	2.00	1	N	ND
CES-1-NURSE-NS1-A	N	P24-07221-34	PAS	NJDEP 15001	7/12/2024	10:03	SM 3113 B	7/23/2024	16:33	0.650	2.00	1	N	ND
CES-1-NURSE-SB-A	N	P24-07221-35	PAS	NJDEP 15001	7/12/2024	10:04	SM 3113 B	7/23/2024	14:02	-0.21	2.00	1	N	ND
CES-1-NURSE-NS2-A	N	P24-07221-36	PAS	NJDEP 15001	7/12/2024	10:05	SM 3113 B	7/23/2024	14:18	0.230	2.00	1	N	ND
CES-1-HCAF-WC1-A	N	P24-07221-37	PAS	NJDEP 15001	7/12/2024	10:14	SM 3113 B	7/23/2024	14:30	-0.66	2.00	1	N	ND
CES-1-HCAF-WC2-A	N	P24-07221-38	PAS	NJDEP 15001	7/12/2024	10:14	SM 3113 B	7/23/2024	14:34	-0.44	2.00	1	N	ND
CES-1-HCAF-BF-A	N	P24-07221-39	PAS	NJDEP 15001	7/12/2024	10:15	SM 3113 B	7/23/2024	14:38	-0.44	2.00	1	N	ND
CES-1-B252-TF-A	N	P24-07221-40	PAS	NJDEP 15001	7/12/2024	10:17	SM 3113 B	7/23/2024	14:42	0.460	2.00	1	N	ND
CES-1-KITCHEN-FP1-A	N	P24-07221-41	PAS	NJDEP 15001	7/12/2024	10:20	SM 3113 B	7/23/2024	14:46	0.680	2.00	1	N	ND
CES-1-KITCHEN-IM	N	P24-07221-42	PAS	NJDEP 15001	7/12/2024	10:21	SM 3113 B	7/23/2024	14:50	-0.44	2.00	1	N	ND
CES-1-DS-01-A	N	P24-07221-43	PAS	NJDEP 15001	7/12/2024	10:22	SM 3113 B	7/23/2024	14:54	0.011	2.00	1	N	ND
CES-1-S-17-A	N	P24-07221-44	PAS	NJDEP 15001	7/12/2024	10:25	SM 3113 B	7/23/2024	14:58	-0.21	2.00	1	N	ND
CES-1-S-18-A	N	P24-07221-45	PAS	NJDEP 15001	7/12/2024	10:26	SM 3113 B	7/23/2024	15:02	0.230	2.00	1	N	ND
CES-1-S-19-A	N	P24-07221-46	PAS	NJDEP 15001	7/12/2024	10:28	SM 3113 B	7/23/2024	15:14	-0.44	2.00	1	N	ND
CES-1-K-01-A	N	P24-07221-47	PAS	NJDEP 15001	7/12/2024	10:30	SM 3113 B	7/23/2024	15:18	10.3	2.00	1	N	
CES-1-KITCHEN-FP3-A	N	P24-07221-48	PAS	NJDEP 15001	7/12/2024	10:33	SM 3113 B	7/23/2024	15:22	1.80	2.00	1	N	J
CES-1-KITCHEN-FP4-A	N	P24-07221-49	PAS	NJDEP 15001	7/12/2024	10:35	SM 3113 B	7/23/2024	15:27	-0.44	2.00	1	N	ND
CES-1-S-20-A	N	P24-07221-50	PAS	NJDEP 15001	7/12/2024	10:36	SM 3113 B	7/23/2024	15:31	0.011	2.00	1	N	ND
CES-1-S-21-A	N	P24-07221-51	PAS	NJDEP 15001	7/12/2024	10:38	SM 3113 B	7/23/2024	15:35	-0.21	2.00	1	N	ND
CES-1-B246-SB-A	N	P24-07221-52	PAS	NJDEP 15001	7/12/2024	10:41	SM 3113 B	7/23/2024	15:39	-0.21	2.00	1	N	ND
CES-1-B247-SB-A	N	P24-07221-53	PAS	NJDEP 15001	7/12/2024	10:43	SM 3113 B	7/23/2024	15:43	-0.21	2.00	1	N	ND
CES-U-B303-TF-A	N	P24-07221-54	PAS	NJDEP 15001	7/12/2024	10:50	SM 3113 B	7/23/2024	15:47	-0.21	2.00	1	N	ND
CES-U-HB317-WC2-A	N	P24-07221-55	PAS	NJDEP 15001	7/12/2024	12:09	SM 3113 B	7/23/2024	15:59	-0.44	2.00	1	N	ND
CES-U-HB317-WC1-A	N	P24-07221-56	PAS	NJDEP 15001	7/12/2024	12:09	SM 3113 B	7/23/2024	16:15	-0.44	2.00	1	N	ND
CES-U-HB317-BF-A	N	P24-07221-57	PAS	NJDEP 15001	7/12/2024	12:10	SM 3113 B	7/23/2024	16:19	-0.44	2.00	1	N	ND
CES-7-12-FB-A	N	P24-07221-58	PAS	NJDEP 15001	7/12/2024	0:00	SM 3113 B	7/23/2024	16:23	-0.44	2.00	1	N	ND

Chesterfield BOE

Results Letters not sent:

All Initial Sampling Results below 15 PPB

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Chestfield Elementary School

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Time	Sample Code	Location
8:17am	CES-L-B101-TF-A	B101
8:18am	CES-L-B101-TF-B	" "
8:20am	CES-L-B103-SB-A	B103
8:21am	CES-L-B103-SB-B	" "
8:24am	CES-L-B108-SB-A	B108
8:25am	CES-L-B108-SB-B	" "
8:27am	CES-L-B109-SB-A	B109
8:28am	CES-L-B109-SB-B	" "
8:29am	CES-L-HB112-LC2-A	H911 by B112 right
11:10am	CES-L-HB112-LC2-B	" "
8:29am	CES-L-HB112-LC1-A	H911 by B112 left
11:10am	CES-L-HB112-LC1-B	" "
8:30am	CES-L-HB112-BFA	H911 by B112
8:31am	CES-L-HB112-BFB	" "
8:34am	CES-L-B116-SB-A	B116
8:34am	CES-L-B116-SB-B	" "
8:39am	CES-L-B118-SB-A	B118
8:40am	CES-L-B118-SB-B	" "
8:40am	CES-L-B117-SB-A	B117
8:41am	CES-L-B117-SB-B	" "
8:36am	CES-L-B115-SB-A	B115

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Time	Sample Code	Location
8:37am	CES-L-B115-SB-B	" "
8:45am	CES-L-B122-SB-A	B122
8:45am	CES-L-B122-SB-B	" "
8:46am	CES-L-B123-SB-A	B123
8:46am	CES-L-B123-SB-B	" "
8:52am	CES-L-B221-SB-A	B221
8:53am	CES-L-B221-SB-B	" "
8:54am	CES-L-B222-SB-A	B222
8:55am	CES-L-B222-SB-B	" "
8:56am	CES-L-B223-SB-A	B223
8:57am	CES-L-B223-SB-B	" "
8:58am	CES-L-B224-SB-A	B224
8:59am	CES-L-B224-SB-B	" "
9:03am	CES-L-B227-SB-A	B227
9:04am	CES-L-B227-SB-B	" "
9:05am	CES-L-B228-SB-A	B228
9:06am	CES-L-B228-SB-B	" "
9:08am	CES-L-B230-SB-A	B230
9:09am	CES-L-B230-SB-B	" "
9:19am	CES-L-HB233-W22A	Hall by B233 right
11:27am	CES-L-HB233-W22B	" "

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Chester-Field elementary School

3

Time	Sample Code	Location
9:10am	CES-1-HB233-WC1A	Hall by B233 left
11:27am	CES-1-HB233-WC1B	Hall by B233 left
9:11am	CES-1-HB233-BF-A	Hall by B233
9:12am	CES-1-HB233-BF-B	Hall by B233
9:13am	CES-1-B235-SB-A	B235
9:14am	CES-1-B235-SB-B	" "
9:25am	CES-1-B242-SB-A	B242
9:25am	CES-1-B242-SB-B	" "
9:27 am	CES-1-B244-SB-A	B244
9:27 am	CES-1-B244-SB-B	" "
9:28 am	CES-1-B245-SB-A	B245
9:29am	CES-1-B245-SB-B	" "
9:34am	CES-1-H24m-WC1-A	Hall by gym left
11:44am	CES-1-H24m-WC1-B	" "
9:35am	CES-1-H24m-WC2-A	Hall by gym right
11:44am	CES-1-H24m-WC2-B	" "
9:35am	CES-1-H24m-BF-A	Hall by gym
9:36am	CES-1-H24m-BF-B	" "
9:39am	CES-1-A205-TF-A	A205
9:40am	CES-1-A205-TF-B	" "
9:42am	CES-1-A203-TF-A	A203
9:43am	CES-1-A203-TF-B	" "

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Chestnut Field Elementary School

4

Time	Sample Code	Location
9:44am	CES-1-A201-TF-A	A201
9:45am	CES-1-A201-TF-B	" "
10:03am	CES-1-nurse-NS1-A	nurse main area
10:03am	CES-1-nurse-NS1-B	" "
10:04am	CES-1-nurse-SB-A	nurse main area
10:04am	CES-1-nurse-SB-B	" "
10:05am	CES-1-nurse-NS2-A	nurse kitchen
10:06am	CES-1-nurse-NS2-B	" "
10:14am	CES-1-HCAF-WC1-A	HALL by cafe left
10:03pm	CES-1-HCAF-WC1-B	" "
10:14am	CES-1-HCAF-WC2-A	HALL by cafe right
10:03pm	CES-1-HCAF-WC2-B	" "
10:15am	CES-1-HCAF-BF-A	HALL by cafe
10:16am	CES-1-HCAF-BF-B	" "
10:17am	CES-1-B250-TF-A	B250
10:18am	CES-1-B250-TF-B	" "
10:20am	CES-1-Kitchen-FP1-A	Kitchen next to ice maker
10:20am	CES-1-Kitchen-FP1-B	" "
10:21am	CES-1-Kitchen-IM	Kitchen ice maker } combined "one sample" samples
10:21am	CES-1-Kitchen-IM	
10:22am	CES-1-DS-01-A	Kitchen left of dish wash
10:23am	CES-1-DS-01-B	" "

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Chester Field elementary School

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Time	Sample Code	Location
10:25am	CES-1-S-17-A	Kitchen right of dish washer
10:25am	CES-1-S-17-B	" "
10:26am	CES-1-S-18-A	Kitchen middle island kettle
10:27am	CES-1-S-18-B	" "
10:28am	CES-1-S-19-A	Kitchen middle island serving line
10:28am	CES-1-S-19-B	" "
10:30am	CES-1-K-01-A	Kitchen next to stove (kettle)
10:30am	CES-1-K-01-B	" "
10:33am	CES-1-Kitchen-FP3-A	Kitchen
10:34am	CES-1-Kitchen-FP3-B	" "
10:35am	CES-1-Kitchen-FP4-A	Kitchen
10:36am	CES-1-Kitchen-FP4-B	" "
10:36am	CES-1-S-20-A	Kitchen 3 compt. left
10:37am	CES-1-S-20-B	" "
10:38am	CES-1-S-21-A	Kitchen 3 compt right
10:39am	CES-1-S-21-B	" "
10:41am	CES-1-B246-SB-A	B246
10:42am	CES-1-B246-SB-B	" "
10:43am	CES-1-B247-SB-A	B247
10:44am	CES-1-B247-SB-B	" "
10:50am	CES-U-B303-TF-A	B303
10:50am	CES-U-B303-TF-B	" "

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Chest-Field Elementary School

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[illegible]