

# PUBLIC OUTREACH PRESENTATION

EPA'S LEAD AND COPPER RULE REVISION (LCRR)

APRIL 2023, CITY OF LIVINGSTON, MONTANA



# NARRATIVE


- THE GOAL OF THIS PRESENTATION IS TO PROMOTE EDUCATION ON LEAD IN DRINKING WATER, ENCOURAGE PARTICIPATION IN ASSISTING THE CITY IN COMPOSING A WATER SERVICE LINE INVENTORY, AND PUBLICIZE THE REQUIREMENTS OF THE LCRR AS DICTATED BY THE EPA AND MONTANA DEQ. THE OUTREACH WILL BENEFIT THE PEOPLE OF LIVINGSTON BY EDUCATING THEM IN REGARDS TO THE UPCOMING REQUIREMENTS OF THE LCRR, REVIEWING THE CITY'S POLICY ON WATER SERVICE LINES, CONSIDERING THE CITY'S STATUS ON COMPLIANCE WITH THE LCRR, UNDERSTANDING THE CITY'S GOALS IN PUBLIC OUTREACH, AND BY DISCUSSING COMMON QUESTIONS AND ANSWERS.

# OVERVIEW OF EPA'S LEAD AND COPPER RULE

- LEAD AND COPPER ENTER DRINKING WATER PRIMARILY THROUGH PLUMBING MATERIALS. EXPOSURE TO LEAD AND COPPER MAY CAUSE HEALTH PROBLEMS RANGING FROM STOMACH DISTRESS TO BRAIN DAMAGE. IN 1991, EPA PUBLISHED A REGULATION TO CONTROL LEAD AND COPPER IN DRINKING WATER, EFFECTIVE WITH THE SAFE DRINKING WATER ACT. THIS REGULATION IS KNOWN AS THE LEAD AND COPPER RULE (LCR). IN SUMMARY, THE LCR REQUIRES WATER SYSTEMS TO REGULATE LEAD AND COPPER BY MONITORING DRINKING WATER AT CUSTOMER TAPS. IF LEAD CONCENTRATIONS EXCEED AN ACTION LEVEL OF 15 PPB (0.015 MG/L) OR COPPER CONCENTRATIONS OF 1.3 PPM (1.3 MG/L) IN MORE THAN 10% OF CUSTOMER TAPS SAMPLED, THE WATER SYSTEM MUST UNDERTAKE A NUMBER OF ADDITIONAL ACTIONS TO CONTROL CORROSION, INFORM THE PUBLIC ABOUT STEPS THEY SHOULD TAKE TO PROTECT THEIR HEALTH, AND MAY HAVE TO REPLACE LEAD SERVICE LINES UNDER THEIR CONTROL. LIVINGSTON REPORTS LEAD CONCENTRATIONS RANGING BETWEEN **NON DETECT (ND) TO 5 PPB**. WE TAKE 20 SAMPLES CITYWIDE EVERY 3 YEARS AND REPORT THOSE RESULTS TO MONTANA DEQ.



# OVERVIEW OF THE LEAD AND COPPER RULE REVISION (LCRR)

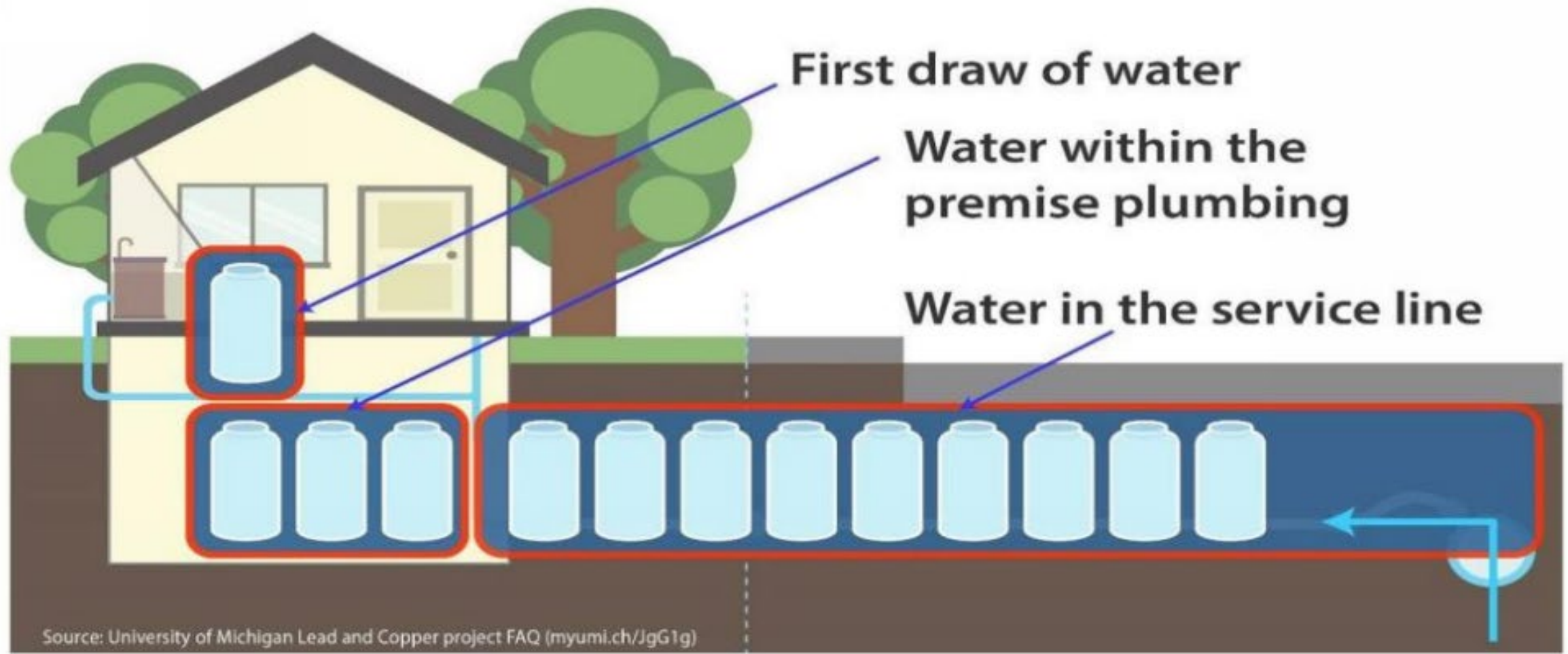
- THE LCRR CAN BE SUMMARIZED INTO THREE ACTION ITEMS FOR WATER SERVICE PROVIDERS:
  - COMPOSITION OF A LEAD SERVICE LINE INVENTORY
  - IMPLEMENTATION OF AN UPDATED TAP SAMPLING PLAN
  - COMPOSITION OF A LEAD SERVICE LINE REPLACEMENT PLAN
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# LEAD SERVICE LINE INVENTORY

- PER THE LCRR, ALL WATER SYSTEMS MUST DEVELOP AN INITIAL LEAD SERVICE LINE INVENTORY (LSLI), BY OCTOBER 16TH, 2024.
- THE LSLI IS AN INVENTORY OF ALL WATER SERVICE CONNECTIONS ON THE SYSTEM, IDENTIFYING THE MATERIAL TYPE OF ALL WATER SERVICE LINES, INCLUDING ALL ABANDONED AND NON-POTABLE LINES.
- A WATER SERVICE LINE CONSTITUTES THE WATER PIPE FROM THE WATER MAIN IN THE STREET TO THE METER IN THE HOME.
- PER THE LCRR, ANY SERVICE LINE WILL FALL INTO ONE OF THE FOLLOWING CATEGORIES: LEAD OR PARTIAL LEAD, NON-LEAD (DOCUMENTED), GALVANIZED, OR UNKNOWN.

# TAP SAMPLING PLAN

- THE LCRR IMPLEMENTS NEW TAP SAMPLING PROTOCOLS THAT TARGET LOCATIONS WITH KNOWN LEAD SERVICE LINES.
- THE NEW SAMPLING PROTOCOLS ALSO CHANGES FROM A 1ST LITER DRAW TO A 5TH LITER DRAW, WHICH TARGETS THE WATER IN THE SERVICE LINE.
- THE SAMPLING RESULTS WILL DICTATE THE CITY'S REQUIRED RESPONSE FOR COMPLIANCE BASE ON NEW ACTION LEVEL AND TRIGGER LEVEL REQUIREMENTS.



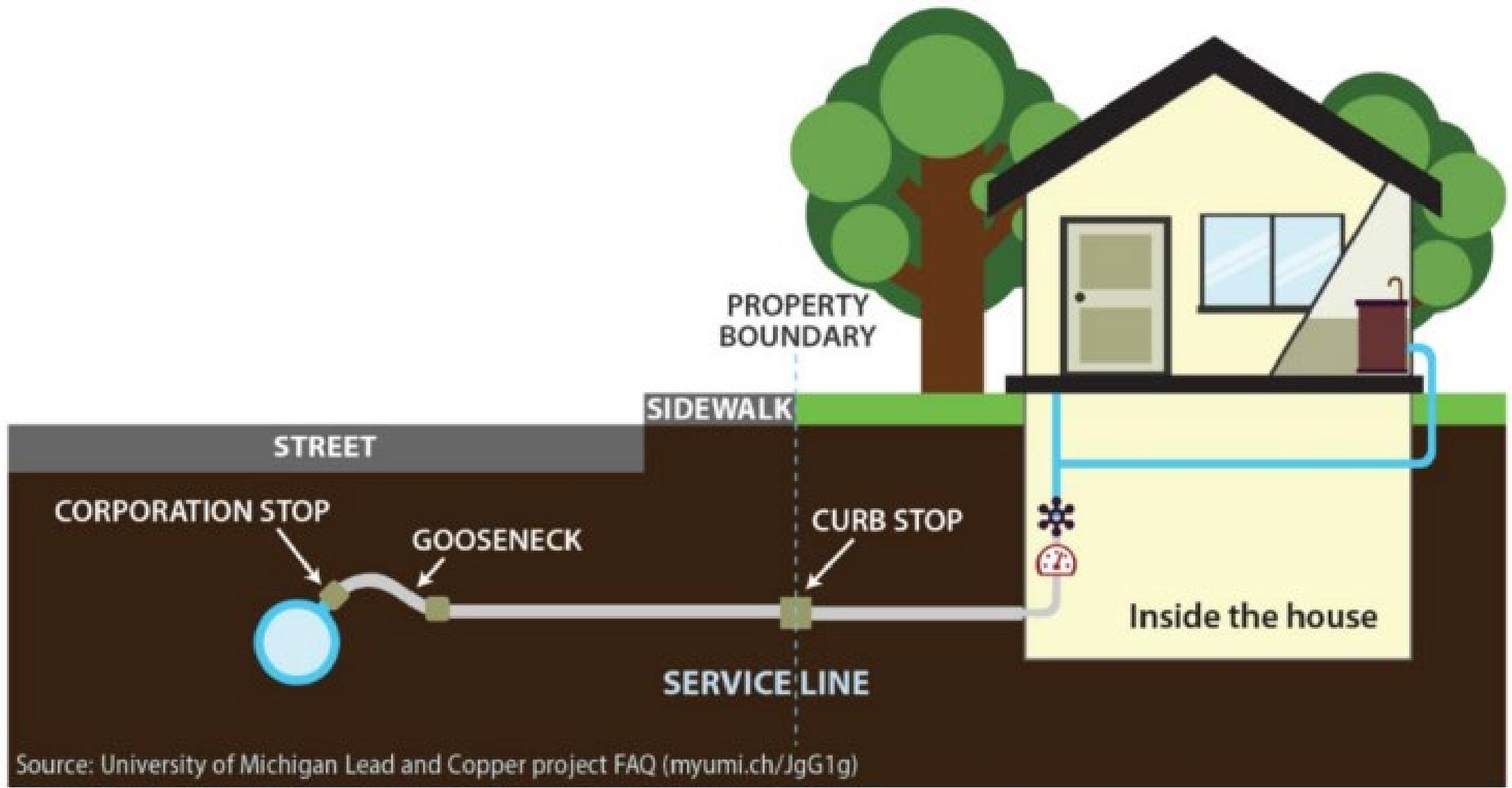
# LEAD SERVICE LINE REPLACEMENT PLAN

- THE LCRR REQUIRES WATER SERVICE PROVIDERS TO COMPOSE A LEAD SERVICE LINE REPLACEMENT (LSLR) PLAN.
- AS OF JULY 2022, THE LSLR PLAN INCLUDES GALVANIZED, UNKNOWN, OR OTHER LEAD-CONTAINING WATER SERVICE LINES. IF IT CANNOT BE VERIFIED THAT A GALVANIZED SERVICE LINE IS “FREE FROM LEAD” THEN IT MUST BE ASSUMED TO BE LEAD.
- IF THE MATERIAL OF A SERVICE LINE IS “UNKNOWN” THEN IT MUST BE ASSUMED TO BE LEAD.
- THE LSLR PLAN DOES NOT PERMIT PARTIAL REPLACEMENT OF LEAD SERVICE LINES, THE FULL LEAD SERVICE LINE MUST BE REPLACED.
- THE ANNUAL LSLR RATE IS BASED ON THE NUMBER OF LEAD AND GALVANIZED LINES REQUIRING REPLACEMENT WHEN THE SYSTEM FIRST EXCEEDS THE ACTION LEVEL PLUS THE CURRENT NUMBER OF “UNKNOWN” SERVICE LINES.
- FOLLOWING EACH LSLR, THE WATER SYSTEM MUST PROVIDE PITCHER FILTERS/CARTRIDGES TO EACH CUSTOMER FOR 6 MONTHS AFTER REPLACEMENT AND COLLECT A LEAD TAP SAMPLE WITHIN 3 TO 6 MONTHS AFTER REPLACEMENT.
- THE CITY MUST ALSO INFORM CUSTOMERS ANNUALLY THAT THEY ARE SERVED BY A LEAD SERVICE LINE OR LEAD STATUS UNKNOWN SERVICE LINE.



# CITY POLICY & LSLR FUNDING

- THE CITY'S POLICY IS THAT THE FULL LENGTH OF THE WATER SERVICE LINE FROM THE WATER MAIN IN THE STREET TO THE METER IN THE BUILDING IS OWNED AND MAINTAINED BY THE CONSUMER.
- THE OFFICIAL CODE OF THE CITY OF LIVINGSTON SECTION 13-33 STATES "ALL THE EXPENSE OF LAYING AND MAINTAINING THE SERVICE PIPES FROM THE MAINS TO THE CONSUMER'S PREMISES MUST BE BORNE BY THE CONSUMER."
- THERE HAVE BEEN MANY CONCERNS EXPRESSED IN REGARDS TO THE FINANCIAL BURDEN CAUSED BY REQUIRED LEAD SERVICE LINE REPLACEMENT (LSLR). LSLR COST MAY VARY GREATLY FROM RESIDENCE TO RESIDENCE.
- AS OF APRIL OF 2023, THE CITY DOES NOT KNOW WITH CERTAINTY WHETHER LSLR WILL BE REQUIRED.



Source: University of Michigan Lead and Copper project FAQ ([myumi.ch/JgG1g](http://myumi.ch/JgG1g))

## STATUS ON LCRR COMPLIANCE

- THE CITY IS MAKING DILIGENT EFFORT TO COMPOSE AN ACCURATE WATER SERVICE LINE INVENTORY BY OCTOBER 16TH , 2024, BY UTILIZING ITS EXISTING UTILITY BILLING AND WORK ORDER SOFTWARE, RESEARCHING CITY RECORDS, AND IN PUBLIC OUTREACH AND CITIZEN ENGAGEMENT.

# PUBLIC OUTREACH

- THE CITY'S GOAL IN PUBLIC OUTREACH IS TO PROMOTE EDUCATION ON LEAD IN DRINKING WATER, ENCOURAGE PARTICIPATION IN ASSISTING THE CITY IN COMPOSING A WATER SERVICE LINE INVENTORY, AND PUBLICIZE THE REQUIREMENTS OF THE LEAD AND COPPER RULE REVISION.
- CITY COMMISSION PRESENTATION
- SPRING FLYER
- CITY WEBSITE- [HTTPS://WWW.LIVINGSTONMONTANA.ORG/PUBLICWORKS/WEBFORM/WATER-SERVICE-LINE-QUESTIONNAIRE](https://www.livingstonmontana.org/publicworks/webform/water-service-line-questionnaire).
- FACEBOOK POSTS
- LIVINGSTON ENTERPRISE PUBLIC NOTICES

# QUESTIONS AND ANSWERS

- **WHERE CAN I FIND MORE INFORMATION? WHERE CAN I LEARN MORE ABOUT THE EPA'S LEAD AND COPPER RULE REVISION AND/OR THE CITY'S COMPLIANCE?**

MONITOR THE CITY'S FACEBOOK PAGE CITY OF LIVINGSTON, PUBLIC WORKS AND PUBLIC WORKS WEBSITE, <HTTPS://WWW.LIVINGSTONMONTANA.ORG>, AS INFORMATION WILL BE RELEASED WHEN IT IS AVAILABLE. ADDITIONAL INFORMATION ON EPA'S LEAD AND COPPER RULE REVISION CAN BE FOUND ON THEIR WEBSITE: <HTTPS://WWW.EPA.GOV/DWREGINFO/LEAD-AND-COPPER-RULE>, <HTTPS://WWW.EPA.GOV/GROUND-WATER-AND-DRINKING-WATER/REVISED-LEAD-AND-COPPER-RULE>.

- **HOW DOES LEAD GET INTO DRINKING WATER?**

LEAD ENTERS DRINKING WATER PRIMARILY THROUGH PLUMBING MATERIALS.

- **WHAT ARE THE COMMON HEALTH CONCERNS WITH LEAD IN DRINKING WATER?**

PLEASE REFER TO THE EPA'S WEBPAGE WHICH DISCUSSES POTENTIAL LEAD RELATED HEALTH CONCERNS: <WWW.EPA.GOV/LEAD/WHAT-ARE-SOME-HEALTH-EFFECTS-LEAD>.

- **HOW CAN I TEST MY DRINKING WATER FOR LEAD?**

- THE CITY OF LIVINGSTON IS NOT ABLE TO PERFORM LEAD TESTS FOR INDIVIDUAL CONSUMERS. TO TEST FOR LEAD, CONTACT THE DEPARTMENT OF HEALTH SERVICES LAB IN HELENA, (406) 444-3444, OR VISIT THEIR WEBSITE: <HTTPS://DPHHS.MT.GOV/PUBLICHEALTH/LABORATORYSERVICES/ENVIRONMENTALLABORATORY/>

THE COST IS APPROXIMATELY \$60 AND THEY WILL DIRECT YOU TO THE NECESSARY SIZE OF THE SAMPLE, THE SAMPLE CONTAINER, AND A SAMPLE PICK UP LOCATION.

# QUESTIONS AND ANSWERS, CONT.

- **HOW CAN I CHECK IF MY WATER SERVICE LINE IS LEAD OR LEAD CONTAINING?**

LEAD AND GALVANIZED WATER SERVICE LINES CAN BE IDENTIFIED BY PERFORMING A “SCRATCH TEST” ON THE WATER SERVICE LINE WHERE IT ENTERS THE BUILDING. THE SCRATCH TEST IS ESSENTIALLY A VISUAL TEST THAT CAN BE COMPLETED WITH BASIC TOOLS AND IN A SHORT TIMEFRAME. FIRST, LOCATE THE WATER SERVICE LINE COMING INTO THE BUILDING. IT IS TYPICALLY FOUND IN THE BASEMENT, CRAWL SPACE, MECHANICAL ROOM, OR IN A WALL PANEL. A WATER METER IS INSTALLED ON THE WATER SERVICE LINE PIPE AFTER THE POINT OF ENTRY INTO THE BUILDING. IDENTIFY A TEST AREA ON THE PIPE ON THE UPSTREAM OR STREET SIDE OF THE METER, WHICH IS BETWEEN THE POINT WHERE IT COMES INTO THE BUILDING AND THE WATER METER. IF THE PIPE IS COVERED OR WRAPPED, PEEL BACK THE COVER TO EXPOSE A SMALL AREA OF THE PIPE, ABOUT 6-INCHES, TO CLEARLY SEE THE COLOR OF THE PIPE. USING THE EDGE OF A SCREWDRIVER OR PENNY, SCRATCH OR SCRAPE THROUGH ANY CORROSION THAT MAY HAVE BUILT UP ON THE OUTSIDE OF THE PIPE SO THAT THE COLOR OF THE PIPE CAN CLEARLY BE SEEN. ALSO, GRAB A STRONG MAGNET. USING THE COLOR OF THE SCRATCHED SURFACE AND THE MAGNET, IDENTIFY THE PIPE FROM THE FOLLOWING CRITERIA:

- LEAD – SCRATCHES ARE SHINY AND SILVER-GRAY – A STRONG MAGNET WILL NOT STICK TO A LEAD PIPE
- GALVANIZED – SCRATCHES ARE DULL SILVER-GRAY – A STRONG MAGNET WILL STICK TO GALVANIZED PIPE, PIPE FITTINGS ARE ALSO THREADED ON GALVANIZED PIPE
- COPPER – SCRATCHES ARE COPPER – A STRONG MAGNET WILL NOT STICK TO COPPER
- PLASTIC – PLASTIC PIPES ARE RIGID, NON-METALLIC, AND MAY VARY IN COLOR – MAGNETS DO NOT STICK



RESIDENTS CAN DOWNLOAD A TEST FORM WITH INSTRUCTIONS TO PERFORM THE SCRATCH TEST AND RETURN THE RESULTS TO THE CITY AT THE TEST FORM IS UNDER THE SUPPORTING DOCUMENTS AT THE BOTTOM OF THE WEBPAGE. RESIDENTS CAN ALSO CONTACT HELEN AT THE CITY OF LIVINGSTON WATER SERVICE INVENTORY HOTLINE AT 406-222-5667. PLEASE KEEP QUESTIONS PERTINENT TO IDENTIFYING THE MATERIAL TYPE OF THE WATER SERVICE LINE, AND PLEASE BE PATIENT WITH US AS WE RESPOND TO CALLS AS WE EXPECT A LARGE VOLUME OF CALLS. RESIDENTS CAN ALSO TAKE A PICTURE OF THE WATER SERVICE LINE WHERE IT ENTERS THE BUILDING, INDICATE THE PHYSICAL ADDRESS OF THE BUILDING, AND SEND THAT INFORMATION IN THE QUESTIONNAIRE ON THE CITY WEBSITE. RESIDENTS WITH NON-COPPER WATER SERVICE LINES ARE ENCOURAGED TO COMMUNICATE THEIR WATER SERVICE LINE MATERIAL TYPE AND ADDRESS TO THE CITY SO THAT THE CITY CAN INCORPORATE THAT DATA INTO THE WATER SERVICE LINE INVENTORY.

# QUESTIONS AND ANSWERS, CONT.

- **I HAVE A LEAD, LEAD CONTAINING, OR GALVANIZED WATER SERVICE LINE, WHAT NOW?**

*LET THE CITY KNOW AS INSTRUCTED ON THE TEST FORM AVAILABLE UNDER THE SUPPORTING DOCUMENTS HEADING AT THE BOTTOM OF THE FOLLOWING WEBPAGE: THE CITY WILL ADD THE INFORMATION TO THE WATER SERVICE LINE INVENTORY. AS OF APRIL 2023, CITY OF LIVINGSTON REGARDING EPA'S LCRR AUGUST, 2022 GOVERNMENT IS NOT REQUIRING LINE REPLACEMENT, AND THE NEXT PHASE OF THE LCRR IS TAP SAMPLING. THE FEDERAL GOVERNMENT MAY REQUIRE WATER SERVICE LINE REPLACEMENT IN THE FUTURE AS DICTATED BY THE RESULTS OF THE LCRR TAP SAMPLING PLAN.*

- **WHO WILL PAY FOR REPLACEMENT OF A LEAD, LEAD CONTAINING, GALVANIZED, OR UNKNOWN WATER SERVICE LINE?**

*THE CITY'S CODE STATES THAT ALL THE EXPENSE OF LAYING AND MAINTAINING THE SERVICE PIPES FROM THE MAINS TO THE CONSUMER'S PREMISES MUST BE BORNE BY THE CONSUMER.*

- **WHAT IS THE ESTIMATED COST FOR A LEAD OR LEAD CONTAINING WATER SERVICE LINE REPLACEMENT?**

*AS OF JULY OF 2022, THE CITY DOES NOT KNOW WITH CERTAINTY WHETHER OR NOT LEAD SERVICE LINE REPLACEMENT IS REQUIRED. THE COST MAY VARY GREATLY FROM RESIDENCE TO RESIDENCE. LOCAL QUALIFIED WATER UTILITY CONTRACTORS SHOULD BE CONTACTED TO OBTAIN INDIVIDUAL QUOTES.*

- **WILL THE STATE OR FEDERAL GOVERNMENT PROVIDE FUNDING FOR LEAD OR LEAD CONTAINING WATER SERVICE LINE REPLACEMENT?**

*THE BIPARTISAN INFRASTRUCTURE LAW ALLOCATES \$15 BILLION FOR LSLR EFFORTS. MONTANA IS TO RECEIVE ~\$140 MILLION: \$28 MILLION PER YEAR OVER 5 YEARS. MONEY WILL BE DISPERSED THROUGH THE STATE REVOLVING FUND PROCESS, A LOW INTEREST LOAN PROGRAM. FORMAL GUIDANCE ON FUND ALLOCATIONS WILL BE PROVIDED BY THE STATE.*

- **WHAT IF THE PLUMBING INSIDE MY BUILDING IS LEAD, LEAD CONTAINING, OR GALVANIZED?**

*LEAD PLUMBING COMPONENTS INSIDE THE BUILDING ARE ANOTHER POTENTIAL SOURCE OF LEAD CONTAMINATION. AS OF APRIL OF 2023, THE LCRR DOES NOT REQUIRE REPLACEMENT OF INTERIOR PLUMBING, JUST LEAD, LEAD CONTAINING, UNKNOWN, OR GALVANIZED WATER SERVICE LINES.*