



Mike DeWine, Governor
Jon Husted, Lt. Governor
Laurie A. Stevenson, Director

October 30, 2020

RE: Akron City Public Water System
Plan
Approval
Classification: Detail Plans
Drinking Water Program
Summit County
PWSID: OH7700011
Package Number: 1368418

Mayor & Council
City of Akron
166 South High Street
Akron, Ohio 44308

Subject: Application No. 1368418-WS; Detail Plans for ~ 2400 LF of 8-Inch" DIP Connecting Existing Line on Sourek Trail and Extending North and then East and North along Sand Hill Drive and ~1,000 LF 8-Inch DIP along Kubic Drive, as Part of a Project Titled Sourek Trail Roadway Improvements and Waterline Installation; Plans Received From DLZ on September 18 2020; Revisions Received on October 8, 2020

Ladies and Gentlemen:

The Ohio Environmental Protection Agency has reviewed the enclosed plans submitted pursuant to Ohio Revised Code Sections 6109.07 et. seq., or accepted the certification of plan review by an authorized professional engineer pursuant to a contract therefore. These plans are approved subject to the condition of compliance with all applicable laws, rules, regulations, and standards. The applicant is responsible for obtaining all other necessary approvals, waivers or releases required by state, federal or local law prior to implementing this plan. Further, all construction must be supervised by a registered engineer, if required by law, or expert qualified in such work.

The enclosed project summary sheets contain a description of the facilities approved which may include information regarding approved operating rates, capacities, and requirements, and is incorporated herein.

This approval shall become void five years from the date of this letter unless the facilities are constructed as proposed by that date. By accepting this approval, the applicant acknowledges that this deadline shall not be considered or construed as extending or having any effect whatsoever on any compliance schedule or deadline set forth in any administrative or court order issued to or binding upon the applicant, and the applicant shall abide by such compliance schedules or deadlines to avoid the initiation of additional legal action by the Ohio Environmental Protection Agency.

This approval covers only the water supply facilities proposed. Sanitary waste handling facilities may need a separate approval by the Ohio Environmental Protection Agency. Other aspects of the project may need approval by the Ohio Department of Health and/or the local health department.

Lead solder and flux that exceeds 0.2 percent lead content and any pipe or pipe fitting that exceeds a 0.25 percent lead content shall not be used in the installation of the proposed facilities.

The owner shall provide for the proper maintenance and operation of the water supply and distribution system.

Necessary measures shall be taken to ensure that there will be no cross connections between the public water supply and any private water supply. The local health department shall be notified of any private water wells which will no longer be used as sources of potable water and which should be abandoned.

The supplier of water shall ensure that no person shall install or maintain a water service connection where a booster pump has been installed, unless an approved method is in place and operational to maintain a minimum suction pressure in accordance with Ohio Administrative Code Rule 3745-95-07.

The owner shall contact the appropriate district of the U.S. Army Corps of Engineers regarding each stream or wetland crossing proposed as part of this project. If a 404 permit is determined to be necessary by the Corps of Engineers, the owner shall acquire a Section 404 Permit and 401 Water Quality Certification, before impacting any waters of the state as a part of this project.

Any well, well point, pit, or other device installed for the purpose of lowering the ground water level to facilitate construction of this project shall be properly abandoned in accordance with the provisions of Rule 3745-9-10 of the Ohio Administrative Code or in accordance with the provisions of this plan or as directed by the director of the Ohio Environmental Protection Agency or his representative. In addition, a well sealing report shall be filed with the Ohio Department of Natural Resources, Division of Water, within 30 days of completion, in accordance with Section 1521.01 of the Ohio Revised Code.

Any person installing any well, well point, pit, or other device used for the purpose of removing ground water from an aquifer shall complete and file a Well Log and Drilling Report form with the Ohio Department of Natural Resources, Division of Water, within 30 days of the well completion in accordance with the Ohio Revised Code, Section 1521.01 and 1521.05. In addition, any such facility that has a capacity to withdraw waters of the state in an amount greater than 100,000 gallons per day from all sources shall be registered by the owner with the Chief of the Division of Water, Ohio Department of Natural Resources, within three months after the facility is completed in accordance with Section 1521.16 of the Ohio Revised Code. For copies of the necessary well log, drilling report, or registration forms, please contact:

Division of Water
Ohio Department of Natural Resources
Fountain Square
Columbus, OH 43224-1387
(614) 265-6717

Air Pollution Control Requirements: Fugitive dust generated by this water line project shall be controlled as specified in OAC 3745-17-08(B).

A National Pollutant Discharge Elimination System (NPDES) permit will be required if the construction project results in a disturbance greater than or equal to one acre. As a requirement of the permit, a Storm Water Pollution Prevention Plan (SWPPP) must be developed before submitting the Notice of Intent (NOI) for coverage under the permit. The NOI must be submitted 45 days prior to beginning construction. To obtain the application form and relevant information, please contact Ohio EPA's stormwater coordinator at (330) 963-1200.

The proposed facility may be constructed only in accordance with plans approved by the director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the agency. Any deviation from the approved plans or the above conditions may lead to sanctions and penalties provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

If a Water Supply Revolving Loan Account (WSRLA) loan is desired, it will be necessary to comply with the requirements of Ohio Revised Code 6109.22. If compliance with WSRLA requirements necessitates any revisions to the plans as herein approved, a resubmittal and approval of the plans will be required before construction.

Should there be any questions regarding the requirements, meaning, or interpretation of any of the above which we may clarify, please contact the Division of Drinking and Ground Waters, Northeast District Office, Ohio Environmental Protection Agency.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action

complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Treasurer of the State of Ohio", which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
30 East Broad Street, 4th Floor
Columbus, OH 43215

Ohio EPA has developed a customer service survey to get feedback from regulated entities that have contacted us for regulatory assistance, or worked with the Agency to obtain a permit, license or other authorization. Ohio EPA's goal is to provide our customers with the best possible customer service, and your feedback is important to us in meeting this goal. Please take a few minutes to complete this survey and share your experience with us at www.epa.ohio.gov/survey.aspx.

Sincerely,



Laurie A. Stevenson
Director

ec: Edward D. Stribula, P.E., DLZ Engineering
Summit County Health Department
Akron Water Supply Bureau
Patricia K. Vanah, P.E., NEDO-DDAGW



John R. Kasich, Governor
 Mary Taylor, Lt. Governor
 Craig W. Butler, Director

**PROJECT SUMMARY SHEET FOR PLAN REVIEW OF
 PROPOSED WATERLINE EXTENSIONS**

Water System Name City of Akron, Ohio

Project Title (same as listed on water supply data sheet): Sourek Trail Roadway Improvements and
 Waterline Installation

The following is a summary of the proposed waterline:

PIPE MATERIAL	DIAMETER (INCHES)	LENGTH (FEET)	LOCATION	APPLICABLE STANDARDS*	CLASS	PRESSURE RATING
Ductile Iron	6	143	Sourek Tr, Sand Hill Dr., and Kubic Dr.	ANSI A21.51, AWWA C151	53	350
Ductile Iron	8	3,415	Sourek Tr., Sand Hill Dr., and Kubic Dr.	ANSI A21.51, AWWA C151	53	350

*Material and installation, JUSTIFY IF NOT AN AWWA STANDARD (See policy ENG-08-002)

1. Will all pipe, fittings, valves and fire hydrants conform to the latest standards issued by AWWA and/or NSF? Yes No
2. Will all packing and jointing materials used for pipe joints conform to the requirements of AWWA? Yes No
3. If in an area of groundwater contaminated by organic compounds,
 - a. are the pipe and joint materials such that they do not allow penetration of the organic compounds? Yes No
 - b. are all portions of the system, including pipe, joint materials, hydrant leads and service connections, of non-permeable materials? Yes No

4. Will all waterlines be pressure tested and tested for leakage in accordance with applicable AWWA Standards? Yes No
- a. Test to be performed by Contractor
- b. Test to be supervised by City of Akron
5. Is a continuous and uniform bedding provided in the trench for all buried pipe? Yes No
6. Are all tees, bends, plugs, and hydrants provided with reaction blocking, tie rods, or joints designed to prevent movement? Yes No
7. Will all waterlines be disinfected in accordance with AWWA Standard C651? Yes No
- a. Disinfection to be performed by City of Akron
- b. Disinfection to be supervised by City of Akron
- c. Microbiological samples to be analyzed at City of Akron Water Plant Laboratory
8. Is the system designed to maintain a minimum pressure of 20 psi at ground level at all points in the system under all conditions of flow? Yes No
9. Will the normal working pressure in the system be not less than 35 psi? (TSS 8.2.1 recommends 60 – 80 psi) Yes No
10. Is the system designed to provide fire protection? Yes No
- a. The design fire flow will be 1,000 gpm minimum at 20 psi pressure.
- b. What is the maximum spacing of the hydrants? 460
- c. Will hydrant drains be plugged? Yes No
- d. Is the minimum size of all waterlines at least six inches? Yes No
11. Will a backflow prevention program be implemented or followed to prevent cross connections with unapproved sources? Yes No

12. Are there any master meters to be installed as part of this project? Yes No

NOTE: If the answer above is yes, contact your Ohio EPA district office to determine if the entity being served by a master meter is an exempt public water system.

13. Is at least four feet of cover provided to protect the waterline from freezing? Minimum cover 4.5 feet. Yes No

14. What is the maximum spacing between shutoff valves? 975
(each intersection and 800 feet maximum recommended, 500 feet in commercial areas)

15. Have the number of dead end mains been minimized? Yes No

16. Where dead end mains occur, has a means of flushing the main been provided? (2.5 fpm minimum) Yes No

17. Will all waterlines have at least 10 feet horizontal separation (edge to edge) from sanitary and storm sewers? Yes No

18. Will all waterlines which cross sanitary and storm sewers have a minimum vertical separation (outside to outside) of 18 inches? Yes No

19. Will a reliable means to detect leakage at surface water crossings wider than 15 feet be provided? Yes No

20. Will a minimum cover of five feet be provided over the water crossing pipe? Yes No

21. Will piping at water crossing have flexible watertight joints? Yes No

22. Are air relief valves provided (attach summary sheet)? Yes No

Provide a justification for any of the above questions which are answered "no".

See Attachment A

Name: Edward D. Stribula, DLZ Ohio, Inc Date: August 11, 2020

Sourek Trail Roadway Improvements and Waterline Extension

Attachment A

Responses to Questions on the Project Summary Sheet
for Plan Review of Proposed Waterline Extension

August 11, 2020

Clarification for Item 17 – Will waterlines have at least 10 feet horizontal separation (edge to edge) from sanitary and storm sewers?

On Sourek Trail and on Sand Hill Drive, the 8-inch water main will have 5 to 7 feet of horizontal separation at some of the driveway culvert pipes. The water main is aligned to maximize its horizontal separation to the driveway culvert pipes, while maintaining adequate room for one lane of traffic alongside the construction work zone. The roads in this area are older 19 to 22-foot wide, two-lane roads with relatively steep ditch slopes near the road in many areas. The roadway right-of-way width is 50 feet and the areas near the ditch lines are heavily vegetated. The east leg of Sourek Trail is the only ingress and egress route to this residential area, and it is important to maintain traffic alongside the work zone for residents and emergency vehicles.

In order to achieve a 10-foot wide horizontal separation between the water main and the driveway culvert pipes, the water main would need to shift toward the center of the road and the roadway pavement would need to temporarily widen to maintain one lane of traffic, or the ditch lines and driveway culverts closest to the water main would need to shift away from the water main. In either case, right-of way impacts would include substantial culvert and ditch relocations and significant tree and property takes, all of which are undesirable, disruptive, and cost-prohibitive.

Clarification for Item 19 – Will a reliable means to detect leakage at surface water crossings wider than 15 feet be provided?

This question is not applicable since surface water crossings wider than 15 feet do not exist within the limits of the proposed waterline extension.

Clarification for Item 20 – Will a minimum of five feet of cover be provided over the water crossing pipe?

This question is not applicable since surface water crossings wider than 15 feet do not exist within the limits of the proposed waterline extension.

Clarification for Item 21 – Will piping at water crossing have flexible watertight joints?

This question is not applicable since surface water crossings wider than 15 feet do not exist within the limits of the proposed waterline extension.

Clarification for Item 22 – Are air relief valves provided (attach summary sheet)?

Air relief valves are not provided. Hydrants are used for exhausting, filling, and draining the water main in lieu of air relief valves.