# Proposed Allen County Water - Westminster to Lafayette: USFWS Wetlands



# Proposed Allen County Water - Westminster to Lafayette: USDA-NRCS Soils



# Proposed Allen County Water - Westminster to Lafayette: USDA-NRCS Hydric Soils



# Proposed Allen County Water - Westminster to Lafayette: FEMA Floodplains







### **PROJECT DESCRIPTION**

The Allen Water District is proposing a Waterline Expansion from Westminster to provide water and fire service to the Villages of Lafayette and Harrod as well as Allen East Local Schools. The project would begin in Westminster at the existing Allen Water District 12-inch water line near Rudolph Foods and extend the 12-inch water line east on Katrina Road, south on Cardinal Drive, east on Faulkner Road, north on Johnston Road and west on Harrod Road to where it would provide service to the Village of Harrod. The 12-inch water line would then extend northwest along Napoleon Road to where it would provide service to the Village of Lafayette. It proposes to include a water storage tank that would serve the Villages of Lafayette and Harrod and possibly Westminster in the future. The proposed location of this tank is on the Allen East Local School property near Napoleon Road. The proposed project would operate on the existing City of Lima high-pressure zone (1,120-foot hydraulic grade line) and would not require a booster pump station. The tank would be served by the existing St. Johns Road booster pump station which has adequate capacity (over 3 million gallons per day) to serve Westminster, Lafayette and Harrod.

The proposed project would serve 384 equivalent water users within the corporate limits of Lafayette and Harrod and the Allen East Local Schools. This total includes 44 equivalent water users from the Allen East Local Schools. The proposed water distribution system from Harrod and Lafayette would consist of 8-inch and 12-inch water lines installed by open cut, HDD, and jack and bore methods.

There are approximately 124 private homes and 7 other potential customers along the alignment that could possibly tie in to the proposed 12-inch water line if there was interest from the respective owners. A church and fire department along the alignment in Westminster; a church and used appliance store are along the alignment on Harrod Road; a veterinary clinic is along Napoleon Road north of Harrod; and an auto sales store and a restaurant are near the intersection of Napoleon Road and State Route 309.

The project proposed would consist of approximately 40,275 linear feet of 12-inch PVS, 50 linear feet of 12-inch PVC waterline installed by Jack and Bore under the railroad (1 crossing), 100 linear feet of 8-inch water line installed by Jack and Bore under the railroad (2 crossings), 505 linear feet of 12-inch HDPE water line installed by Horizontal Directional Drilling (HDD) under streams, The project will include a 200,000 gallon Standpipe proposed to be constructed south of the Village of Lafayette on the Allen East Local School property along Napoleon Road and north of State Route 309.

Within the Village of Harrod and Lafayette the following is proposed, 14,110 linear feet and 14,250 linear feet, respectfully, of 8-inch PVC or HDPE waterlines installed by open cut and HDD.

Also proposed is the inclusion of one hundred forty-one (141) hydrants, twenty-four (24) 12-inch valves and one hundred twenty-three (123) 8-inch valves.

# EXHIBIT 2

# **FLOODPLAIN MANAGEMENT**

# National Flood Hazard Layer FIRMette

83°55'35"W 40°42'39"N



### Legend SEE FIS REPORT I



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# National Flood Hazard Layer FIRMette







# NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) Report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS Report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study Report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study Report for information on flood control structures for this jurisdiction.

The projection used in the preparation of this map was Ohio State Plane North Zone (FIPS zone 3401). The horizontal datum was NAD 83, GRS 1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, Maryland 20910-3282 (301) 713-3242

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713- 3242, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from digital orthophotography provided by the Ohio Statewide Imagery Program. This information was created from photography dated 2006.

The **profile baselines** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the profile baseline, in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have curred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information on available products associated with this FIRM visit the Map Service Center (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have questions about this map, how to order products, or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.



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# Proposed Allen County Water - Westminster to Lafayette: FEMA Floodplains







This map was prepared by the Allen County Engineer as the Allen County, OH tax map in accordance with Section 5713.09 of the Ohio Revised Code. Allen County assumes no legal responsibility for the information contained on the m

# EXHIBIT 3

# WETLANDS PROTECTION

# National Wetlands Inventory Mapping Hydric Soils Mapping U.S. Army Corps of Engineers Correspondence



### DEPARTMENT OF THE ARMY BUFFALO DISTRICT, CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207-3199

May 3, 2019

**Regulatory Branch** 

SUBJECT: Determination of No Permit Required for Application No. LRB-2019-00232

Ron Winland Rural Development Specialist RCAP - Ohio Rural Community Assistance Partnership 340 Walker Drive Zanesville, OH 43701

Dear Mr. Winland:

This pertains to the proposed Allen Water District East Regional Water Line Expansion (Water Expansion from Westminster to Lafayette) located in Allen County, Ohio.

Under Section 404 of the CWA, the USACE regulates the discharge of dredged or fill material into Waters of the United States, including freshwater wetlands. Certain types of activities, such as land clearing using mechanized equipment and/or side casting, in a jurisdictional water would likely be regulated under Section 404 of the CWA.

The majority of the project is located within roads and upland road right-of-ways that do not contain any wetlands. According to your Preliminary Engineering Report, there are 7 stream crossings along the proposed route, including four on Napoleon Road, one on Faulkner Road, one on Johnston Road and one on Harrod Road. Horizontal Directional Drilling is proposed for all stream crossings to avoid impacts on streams and nearby riparian vegetation. The proposed tank location is in uplands on the Allen East Local School property near Napoleon Road. This site is maintained by the School District as a mowed upland lawn, and will not involve any tributaries or wetlands.

The information contained in your correspondences indicates that the proposed work will be performed landward of the ordinary high water mark of the tributaries located within the project area, and will not involve a discharge of dredged or fill material into any wetlands. Therefore, a Section 404 CWA permit is not required for your project.

Should you modify your proposal to entail a discharge of dredged or fill material into a WOUS you must contact this office regarding Department of the Army permit requirements.

Although a permit is not required, we request that proper measures be taken to prevent unintentional discharges from entering the waterway.

### **Regulatory Branch**

### SUBJECT: Determination of No Permit Required for Application No. LRB-2019-00232

You are encouraged to contact the appropriate state and local governmental officials to insure that the proposed work complies with their requirements.

Questions pertaining to this matter should be directed to me at (419) 898-3812, or by writing to the following address: U.S. Army Corps of Engineers, Buffalo District, Oak Harbor Field Office, 240 Lake Street, Unit D, Oak Harbor, Ohio 43449, or by email at mailto:paul.f.wetzel@usace.army.mil.

Sincerely,

in

Paul Wetzel Biologist

Enclosures





![](_page_19_Picture_0.jpeg)

![](_page_20_Picture_0.jpeg)

Figure 4-4 Property and Aerial Map for Proposed SR 309 BPS

![](_page_20_Picture_2.jpeg)

Figure 4-5 Property and Aerial Map for Proposed Water Storage Tank Site 1

![](_page_20_Picture_4.jpeg)

Application No. LRB-2019-00232 Allen Water District East Regional Water Line Expansion (Water Expansion from Westminster to Lafayette) Allen County, Ohio. Sheet 4 of 4

From:	RONALD WINLAND
То:	paul.f.wetzel@usace.army.mil
Date:	4/26/2019 12:51 PM
Subject:	Allen Water District - East Regional Water Line Expansion - USDA Environmental Assessment
Attachments:	AWD East Regional Water Line - Chosen Alternative.pdf

### Hello Paul:

This correspondence is in response to your April 26, 2019 phone conversation with Cindy Brooks (of RCAP), regarding a request for Corps comments with respect to a USDA Environmental Assessment for the proposed Allen Water District East Regional Water Line Expansion (Water Expansion from Westminster to Lafayette). The Preliminary Engineering Report (PER) considered 6 alternatives for water expansion to Lafayette and Harrod, with the Westminster to Lafayette alternative ultimately chosen for monetary and non-monetary reasons. For your reference, I have include an attached section of the PER, that summarizes the chosen alternative for this project.

### Project Description:

The Allen Water District is proposing a Waterline Expansion from Westminster to provide water and fire service to the Villages of Lafayette and Harrod as well as Allen East Local Schools. The project would begin in Westminster at the existing Allen Water District 12-inch water line near Rudolph Foods and extend the 12-inch water line east on Katrina Road, south on Cardinal Drive, east on Faulkner Road, north on Johnston Road and west on Harrod Road to where it would provide service to the Village of Harrod. The 12-inch water line would then extend northwest along Napoleon Road to where it would provide service to the Village of Lafayette.

The project also proposes to include a water storage tank that would serve the Villages of Lafayette and Harrod and possibly Westminster in the future.

With the exception of the water tank area, all construction is planned to occur with road right of way (or within the road itself) for the aforementioned roads. The project proposed would consist of approximately 40,275 linear feet of 12-inch PVC, 50 linear feet of 12-inch PVC waterline installed by Jack and Bore under the railroad (1 crossing), 100 linear feet of 8-inch water line installed by Jack and Bore under the railroad (2 crossings), 505 linear feet of 12-inch HDPE water line installed by Horizontal Directional Drilling (HDD) under streams, The project will include a 200,000 gallon Standpipe proposed to be constructed south of the Village of Lafayette on the Allen East Local School property along Napoleon Road and north of State Route 309.

Within the Village of Harrod and Lafayette the following is proposed, 14,110 linear feet and 14,250 linear feet, respectfully, of 8-inch PVC or HDPE waterlines installed by open cut and HDD. Also proposed is the inclusion of one hundred forty-one (141) hydrants, twenty-four (24) 12-inch valves and one hundred twenty-three (123) 8-inch valves.

According to the Preliminary Engineering Report, there are 7 stream crossings along the proposed route, including four (4) on Napoleon Road, one (1) on Faulkner Road, one (1) on Johnston Road and one (1) on Harrod Road. Horizontal Directional Drilling is proposed for all stream crossings to avoid impacts on streams and nearby riparian vegetation.

The proposed location of this tank is on the Allen East Local School property near Napoleon Road. This

site is maintained by the School District via mowing, and will not involve any in-water work.

Please let me know if you have additional questions, and thanks for contacting RCAP regarding the proposed project.

Sincerely,

Ron Winland Rural Development Specialist RCAP - Ohio Rural Community Assistance Partnership 340 Walker Drive Zanesville, OH 43701 rlwinland@glcap.org 740-891-3364 (Office)

# East Regional Water Line Project Preliminary Engineering Report

Allen Water District Allen County, Ohio

![](_page_23_Figure_2.jpeg)

March 15, 2019

![](_page_23_Picture_4.jpeg)

### Job No.: 20H01WD-18556

8415 Pulsar Place Suite 300 Columbus, Ohio 43240 (614) 839-0250

### 4.3 ALTERNATIVE 3 – WESTMINSTER EAST AND HARROD ROAD ALIGNMENT

Alternative 3 would begin in Westminster at the existing Allen Water District 12-inch water line near Rudolph Foods. Alternative 3 would extend this 12-inch water line east on Katrina Road, south on Carey Street, east on Faulkner Road, north on Johnston Road and west on Harrod Road to where it would provide service to the Village of Harrod. The 12-inch water line would extend north along Napoleon Road to where it would provide service to the Village of Lafayette. Alternative 3 would include a water storage tank that would serve the Villages of Lafayette and Harrod and possibly Westminster in the future. Alternative 3 would operate on the existing City of Lima high-pressure zone (1,120-foot hydraulic grade line) and would not require a booster pump station. This tank would be served by the existing St. Johns Road booster pump station which has adequate capacity (over 3 million gallons per day) to serve Westminster, Lafayette and Harrod.

Alternative 3 would serve 340 equivalent water users within the corporate limits of Lafayette and Harrod. This Alternative also includes the possibility of serving an additional 44 equivalent water users from the Allen East Local Schools. The proposed water distribution system for Harrod and Lafayette would consist of 8-inch and 12-inch water lines installed by open cut, HDD, and jack and bore methods.

There are approximately 140 private homes and 7 other potential customers along the alignment that could possibly tie in to the proposed 12-inch water line if there was interest from the respective owners. A church and fire department are along the alignment in Westminster; a church and used appliance store are along the alignment on Harrod Road; a veterinary clinic is along Napoleon Road north of Harrod; and an auto sales store and a restaurant are near the intersection of Napoleon Road with SR 309.

### 4.3.1 Design Criteria

Alternative 3 would consist of the following components:

- one 200,000-gallon standpipe
- 43,935 If of 12-inch PVC water line installed by open cut
- 50 If of 12-inch PVC water line installed by jack and bore under the railroad (1 crossing)
- 100 If of 8-inch PVC water line installed by jack and bore under the railroad (2 crossings)
- 1,105 If of 12-inch HDPE water line installed by HDD under streams and road crossings
- 25 12-inch valves
- 150 fire hydrants
- 13,345 If of 8-inch PVC or HDPE water line installed by open cut and HDD to serve the Village of Harrod
- 13,390 If of 8-inch PVC or HDPE water line installed by open cut and HDD to serve the Village of Lafayette
- 107 8-inch valves

![](_page_24_Picture_16.jpeg)

### 4.3.2 Map

The alignment for Alternative 3 is shown on **Figure 4-8**. The alignment begins at the end of the Allen Water District's existing 12-inch water line on Katrina Street in Westminster and extends

east to Carey Street, south on Carey Street, and then east on Faulkner Road until the intersection with Johnston Road. The 12-inch water line would then extend north on Johnston Road until the intersection with Harrod Road. The alignment would then continue east along Harrod Road through the Village of Harrod. The 12-inch water line would extend north along Napoleon Road through the Village of Lafayette.

A proposed 200,000-gallon water storage tank is shown at two alternative sites. Site 1 is on Allen East Schools property near Lafayette. Site 2 is north of the Village of Harrod along Napoleon Road north of Clum Road. The tank would provide adequate water supply, pressure and fire flow to the Villages of Lafayette and Harrod. Figure 4-5 shows the proposed water storage tank at site 1 on the Allen East Local Schools property. Figure 4-6 shows the proposed water storage tank site at site 2 along Napoleon Road north of Clum

![](_page_25_Picture_4.jpeg)

Faulkner Road Looking East

Road. Both tanks sites are not currently owned by the AWD.

**Figure 4-2** shows the distribution system for the Village of Lafayette and **Figure 4-9** shows the distribution system for the Village of Harrod. **Figure 4-10** shows the alignment for Alternative 3 through the hamlet of Westminster.

![](_page_25_Picture_8.jpeg)

![](_page_26_Picture_0.jpeg)

![](_page_26_Picture_1.jpeg)

![](_page_27_Picture_0.jpeg)

Legend			
Proposed 12- inch Diameter Water Line			
Proposed 8- inch Diameter Water Line			
Streams & Rivers			
⊨====⇒ Railroad			
Corporate			
Parcels			
100-Year Floodplain			
Figure 4-9 Proposed Village of Harrod Water Distribution System Alternative 3 East Regional Water Line Project Preliminary Engineering Report Allen Water District			
$\Delta_{\mathbf{N}}$			
• Feet 0 165 330 660			
PRIME			

![](_page_28_Picture_0.jpeg)

![](_page_28_Figure_1.jpeg)

### 4.3.3 Environmental Impacts

Alternative 3 will require the installation of 45,090 If of 12-inch PVC or HDPE water line. The majority of the 12-inch water line will be in the right-of-way. Open cut work in this right-of-way will generally be in the shoulder and will result in some traffic disruption, noise, and dust. One lane closures of the roadways will be provided where necessary to complete the work. Pavement will be removed and replaced over the water line trench where open cut work in the pavement cannot be avoided. Erosion and sediment control will be provided to minimize runoff to drainage ditches and local surface waters.

Alternative 3 will also require the installation of 26,835 lf of 8-inch PVC or HDPE water line in the Villages of Harrod and Lafayette. The majority of this 8-inch water line will be installed in the public right-of-way along Village streets. Open cut work in this right-of-way will generally be in the road shoulder or tree lawn and will result in some traffic disruption, noise, and dust. One lane closures of the roadways will be provided where necessary to complete road crossings or work in the pavement. Pavement will be removed and replaced over the water line trench where open cut work in the pavement cannot be avoided. Erosion and sediment control will be provided to minimize runoff to drainage ditches and local surface waters.

An environmental report for this project is being prepared by Ohio RCAP and will be submitted as a separate report.

### 4.3.4 Land Requirements

Alternative 3 would require the acquisition of a water storage tank site. Two alternative water storage tank sites were evaluated. The first site is located on Allen East Local Schools property outside of Lafayette as shown on **Figure 4-5**. It is anticipated that site could donation or acquisition of School property and would be approximately 0.25 acres. The second site is located north of Harrod along Napoleon Road on private property. The second site would require the acquisition of about 1.4 acres of land east of Napoleon Road as shown on **Figure 4-6**.

The rights-of-way along Faulkner Road, Johnston Road, and Harrod Road are generally 60 feet wide. The right-of-way along Katrina Road and Carey Street in Westminster are approximately 50 feet wide and 65 feet wide, respectively. It appears that the water line will require construction in the pavement on Katrina Road. Therefore, temporary and permanent easements are not expected to be required for Alternative 3 since the water line could be located in the right-of-way or pavement.

### 4.3.5 Potential Construction Problems

Conflicts between existing utilities and the proposed water lines will be a concern on this project. It will be critical to maintain 18 inches of vertical and 10 feet of horizontal separation between new water line installations and existing storm and sanitary sewers. There are sanitary sewer systems and partial storm sewer systems located in Harrod, Lafayette and Westminster that need to be avoided.

There are also known fiber optic cables, gas lines, and utility poles in the right-of-way of Alternative 3 roadways that must be avoided by the proposed water line construction. These utilities will be located during detailed design and avoided. Suitable horizontal and vertical

![](_page_29_Picture_10.jpeg)

separation distances from these utility lines and poles will be requested from the utility owners. In some cases, construction in the roadway may be required in order to avoid utilities and poles in the right-of-way.

Work in the Alternative 3 Westminster roadway right-of-way is expected to be in close proximity to floodplains as shown on **Figure 4-8**. High groundwater may be encountered in this area which would require trench dewatering during water line construction. Water wells in the Westminster area show a water table at a depth of 2-16 feet and an average depth of 11 feet. Water wells along Faulkner, Johnston, and Harrod Roads in the vicinity of the alignment show a water table at a depth of 10-58 feet. Bedrock depth along the Alternative 3 alignment is not a construction concern since existing well log data show an average depth of 47 feet.

Alternative 3 has seven stream crossings including four on Napoleon Road, one on Faulkner Road, one on Johnston Road, and one on Harrod Road. HDD will be performed to avoid impacts on the streams and nearby riparian vegetation.

Alternative 3 will also involve construction near mature trees in the right-of-way of Johnston Road and other roadways (see photo). These trees and their root systems will be avoided where possible.

Potential delays associated with the negotiation and acquisition of property will be a concern on this project. A new tank site will require either a land donation or a land purchase by the AWD. Potential delays associated with the acquisition of a CSX Railroad Permit for the water line crossings in Lafayette may also be an issue.

![](_page_30_Picture_5.jpeg)

Johnston Road (North) Trees and Poles in Right of Way

### 4.3.6 Sustainability Considerations

Alternative 3 would not require a new booster station since it will use the existing St. Johns Road booster pump station. Using the existing St. Johns Road booster pump station is expected to be more energy efficient and require less raw materials for construction.

Alternative 3 has the lowest overall 8-inch and 12-inch water line material usage (7,455 lineal feet less than Alternative 1, 2,645 lineal feet less than Alternative 2, and 9,795 lineal feet less than Alternative 4) without construction of a WTP. Installing Alternative 3 water lines would significantly reduce the volume of excavated material hauled off site and the quantity of surface restoration required.

Alternative 3 has the advantage of eliminating 384 private wells in the Villages of Lafayette and Harrod as discussed below in **Section 4.3.6.1**.

![](_page_30_Picture_11.jpeg)

### 4.3.6.1 Water and Energy Efficiency

The Villages of Harrod and Lafayette's water customers currently rely on private water wells as a source of supply. Approximately 384 private wells are located in the Villages. Each water well consumes energy during pumping and requires chemical treatment of groundwater. The installation of a metered water distribution system for these two villages is expected to reduce water consumption associated with these wells. Eliminating these private wells is also expected to reduce the energy consumption associated with individual well pumps. There are about 140 private homes and 7 other potential customers along the alignment in Westminster, on Faulkner Road, Johnston Road, Harrod Road and Napoleon Road that could possibly tie in to the proposed 12-inch water line in the future. This could result in an additional 147 private wells that could be eliminated in the future resulting in further water and energy savings.

Alternative 3 eliminates the need for the construction, operation and maintenance of a new booster pump station by using the existing St. Johns Road booster pump station that is owned and operated by Lima. This would result in reduced electrical consumption and improved energy efficiency for Alternative 3 compared to Alternative 1.

### 4.3.6.2 Green Infrastructure

There are no aspects of Alternative 3 that could preserve or mimic processes to manage stormwater by using green infrastructure.

### 4.3.7 Cost Estimates

The probable construction and project costs for Alternative 3 – Westminster East and Harrod Road Alignment are summarized in **Table 4-6**. The annual operation, maintenance and replacement (OM&R) costs for Alternative 3 – Westminster East and Harrod Road Alignment are summarized in **Table 4-7**. **Table 4-7** also includes the present worth of the OM&R costs over the next 20-year planning period. The construction cost includes the new water storage tank and 12-inch and 8-inch PVC and HDPE pipe installed by open cut, HDD, and jack and bore methods. The City of Lima will be providing water system taps for this project. The cost of these taps will be a standard fee paid for by the individual property owners.

The Alternative 3 alignment is estimated to include \$7,139,627 in construction costs and \$8,992,383 in project costs, in 2019 dollars. The OM&R expenditures are expected to cost \$14,728 annually. The present worth of the annual OM&R costs over 20 years is anticipated to be a total of \$215,130. This equates to a total present worth of \$9,207,513 for the Alternative 3 alignment project and OM&R costs over the next 20 years.

Alternative 3 is a more cost-effective option than the Alternative 1 alignment due to approximately 6,180 lineal feet less of 12-inch pipe required, shorter HDD distances, and no new booster pump station required. Alternative 3 is also a more cost-effective option than the Alternative 2 alignment due to approximately 1,370 lineal feet less of 12-inch pipe required for this alignment. Therefore, this Alternative presents significantly less construction and OM&R costs than the Alternative 1 alignment discussed previously in **Section 4.1** and less construction costs than the Alternative 2 alignment discussed previously in **Section 4.2**.

![](_page_31_Picture_9.jpeg)

![](_page_32_Picture_0.jpeg)

Figure 4-4 Property and Aerial Map for Proposed SR 309 BPS

![](_page_32_Figure_2.jpeg)

Figure 4-5 Property and Aerial Map for Proposed Water Storage Tank Site 1

![](_page_32_Picture_4.jpeg)

From:	RONALD WINLAND	
То:	Jalieth.J.Guy@usace.army.mil	
Date:	4/15/2019 12:14 PM	
Subject:	DA File #2019-00232	
Attachments:	2019-00232 (Allen Water District, Allen County , OH).pdf	

Hello Jalieth:

On or around Feb 6, 2019, Ms. Cindy Brooks of our office submitted a request for comments for the Allen Water District's (Ohio) Westminster to Lafayette water line extension. The request is part of an Environmental Assessment required by the USDA, whom is in the process of obligating funds for this project.

I am checking to verify if the CORPS have any comments.

Thank-You!

Ron Winland Rural Development Specialist RCAP - Ohio Rural Community Assistance Partnership 340 Walker Drive Zanesville, OH 43701 rlwinland@glcap.org 740-891-3364 (Office)

### NOTE: 4/26/19 Phone Call From Paul Wetzel (CORPs Reviewer) to Cindy Brooks (RCAP):

Mr. Wetzel called to follow-up on the Allen Water District East Regional Waterline Expansion Project: During the call, Mr. Wetzel requested additional information regarding the project, specifically on pipeline alignment in road right of ways, potential impacts to streams at several crossing and site information regarding the water storage tank.

Subsequently on 4/26/19, Ron Winland (RCAP) emailed Mr. Wetzel additional correspondence and maps from the Preliminary Engineering Plan regarding the pipeline alignments, stream crossing and water tank location.

From:"Guy, Jalieth J CIV USARMY CELRB (US)" <Jalieth.J.Guy@usace.army.mil>To:"cabrookes@glcap.org" <cabrookes@glcap.org>Date:3/5/2019 9:28 AMSubject:2019-00232 (Allen Water District, Allen County , OH)

Your Pre-application has been received and logged into Department of the Army Database under DA FILE # 2019-00323 (Allen Water District, Allen County, OH) we will have a Project Manager reach contact you soon with the next steps.

Thanks,

Jalieth Guy Administrative Support Assistant Business Processes Team 1776 Niagara Street Buffalo, New York 14207 Jalieth.J.Guy@usace.army.mil

![](_page_35_Picture_0.jpeg)

"Improving the quality of life in rural communities"

February 6, 2019

Paul G Leuchner, Chief Regulatory Branch U.S. Army Corps of Engineers, Buffalo District Office 1776 Niagara Street Buffalo, New York 14207-3199

RE: Allen Water District, Allen County, Ohio Water Expansion from Westminster to Lafayette

Dear Reviewer:

The Allen Water District is in the process of performing an environmental review pursuant to the National Environmental Policy Act in order that it may assess the environmental impacts of the installation of water and sewer improvements.

For the location of project elements, see the attached project maps. Also attached is a project description and site photos.

Please examine this proposal and comment on any potential adverse effects to wetlands and/or the need for a Nationwide Permit that may occur in the project area. Please provide any recommendation you have to mitigate or avoid these impacts.

We would appreciate a response with 30 days. If you need further information or wish to discuss the project, please contact me at 419.332.2078 or by e-mail at <u>cabrookes@glcap.org</u>

Sincerely, inder Brookes

Cindy Brookes Sr. Rural Development Specialist Rural Community Assistance Program (RCAP)

Enclosures:

Project Description Project Location Maps Site Photos

### **PROJECT DESCRIPTION**

The Allen Water District is proposing a Waterline Expansion from Westminster to provide water and fire service to the Villages of Lafayette and Harrod as well as Allen East Local Schools. The project would begin in Westminster at the existing Allen Water District 12-inch water line near Rudolph Foods and extend the 12-inch water line east on Katrina Road, south on Cardinal Drive, east on Faulkner Road, north on Johnston Road and west on Harrod Road to where it would provide service to the Village of Harrod. The 12-inch water line would then extend northwest along Napoleon Road to where it would provide service to the Village of Lafayette. It proposes to include a water storage tank that would serve the Villages of Lafayette and Harrod and possibly Westminster in the future. The proposed location of this tank is on the Allen East Local School property near Napoleon Road. The proposed project would operate on the existing City of Lima high-pressure zone (1,120-foot hydraulic grade line) and would not require a booster pump station. The tank would be served by the existing St. Johns Road booster pump station which has adequate capacity (over 3 million gallons per day) to serve Westminster, Lafayette and Harrod.

The proposed project would serve 384 equivalent water users within the corporate limits of Lafayette and Harrod and the Allen East Local Schools. This total includes 44 equivalent water users from the Allen East Local Schools. The proposed water distribution system from Harrod and Lafayette would consist of 8-inch and 12-inch water lines installed by open cut, HDD, and jack and bore methods.

There are approximately 124 private homes and 7 other potential customers along the alignment that could possibly tie in to the proposed 12-inch water line if there was interest from the respective owners. A church and fire department along the alignment in Westminster; a church and used appliance store are along the alignment on Harrod Road; a veterinary clinic is along Napoleon Road north of Harrod; and an auto sales store and a restaurant are near the intersection of Napoleon Road and State Route 309.

The project proposed would consist of approximately 40,275 linear feet of 12-inch PVS, 50 linear feet of 12-inch PVC waterline installed by Jack and Bore under the railroad (1 crossing), 100 linear feet of 8-inch water line installed by Jack and Bore under the railroad (2 crossings), 505 linear feet of 12-inch HDPE water line installed by Horizontal Directional Drilling (HDD) under streams, The project will include a 200,000 gallon Standpipe proposed to be constructed south of the Village of Lafayette on the Allen East Local School property along Napoleon Road and north of State Route 309.

Within the Village of Harrod and Lafayette the following is proposed, 14,110 linear feet and 14,250 linear feet, respectfully, of 8-inch PVC or HDPE waterlines installed by open cut and HDD.

Also proposed is the inclusion of one hundred forty-one (141) hydrants, twenty-four (24) 12-inch valves and one hundred twenty-three (123) 8-inch valves.

![](_page_37_Picture_1.jpeg)

![](_page_38_Figure_1.jpeg)

![](_page_39_Figure_1.jpeg)

![](_page_40_Picture_0.jpeg)

# U.S. Fish and Wildlife Service **National Wetlands Inventory**

# Lafayette 3

![](_page_40_Picture_3.jpeg)

### March 30, 2019

### Wetlands

Estuarine and Marine Wetland

Estuarine and Marine Deepwater

**Freshwater Pond** 

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# Proposed Allen County Water - Westminster to Lafayette: USFWS Wetlands

![](_page_41_Picture_1.jpeg)

# EXHIBIT 4

# COASTAL ZONE MANAGEMENT

# Ohio Coastal Atlas Map Viewer

![](_page_43_Figure_1.jpeg)

![](_page_43_Figure_2.jpeg)

![](_page_43_Figure_3.jpeg)

### U.S. Fish and Wildlife Service

### **Coastal Barrier Resources System Mapper Documentation**

![](_page_44_Picture_2.jpeg)

### **CBRS Units**

- Otherwise Protected Area 🛛 🖉 CBRS Buffer Zone
- System Unit
- **P** -83.946444, 40.760652

0 65 130 260 390 ft

The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance . Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Name: Ron Winland User Organization: Ohio RCAP User Supplied Address/Location Description: Lafayette, Ohio Pin Location: Outside CBRS Pin Flood Insurance Prohibition Date: N/A Pin System Unit Establishment Date: N/A

The user placed pin location is not within the CBRS. The official CBRS maps are accessible at <u>https://www.fws.gov/cbra/maps/index.html</u>

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: <u>https://www.fws.gov/cbra/Flood-Insurance.html</u>.

![](_page_44_Picture_13.jpeg)

# **EXHIBIT 5**

# SOLE SOURCE AQUIFER

# Sole Source Aquifers in Ohio

![](_page_46_Figure_1.jpeg)

# Allen County Sole Source Aquifer

![](_page_47_Figure_1.jpeg)

![](_page_47_Picture_2.jpeg)

![](_page_47_Figure_3.jpeg)

![](_page_47_Picture_4.jpeg)

Page 1 of 1

![](_page_48_Figure_1.jpeg)

AWD East Regional Water Line - Allen Co SSA

https://map22.epa.gov/arcgis/rest/directories/arcgisoutput/Utilities/PrintingTools\_GPServer/\_ags\_b3cafafa24... 4/7/2019

# **EXHIBIT 6**

# **ENDANGERED SPECIES**

# U.S. Fish & Wildlife

**Ohio Department of Natural Resources** 

### Water Service Extension to Harrod & Lafaytte Villages, Allen County

Ohio, FW3 <ohio@fws.gov> Mon 10/26/2020 10:56 AM Te: Ronald Winland <rkvinland@glcap.org>

![](_page_50_Picture_2.jpeg)

UNITED STATES DEPARTMENT OF THE INTERIOR U.S. Flab and Wildlife Service Ecological Services Office 4625 Morse Read, Suite 104 Columbus, Obio 43230 (514) 416-8993 / Fax (514) 416-8994

![](_page_50_Picture_4.jpeg)

TAILS#03E15000-2021-TA-0023

Dear Mr. Winland,

We have received your recent correspondence regarding potential impacts to federally listed species in the vicinity of the above referenced project. There are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the project area. We recommend that proposed activities minimize water quality impacts, including fill in streams and wetlands. Best management practices should be utilized to minimize erosion and sedimentation.

FEDERALLY LISTED, PROPOSED, AND CANDIDATE SPECIES COMMENTS: Due to the project type, size, location, and the proposed implementation of seasonal tree cutting (clearing of trees  $\geq 3$  inches diameter at breast height between October 1 and March 31) to avoid impacts to the federally listed endangered Indiana bat (*Myotis sodalit*) and threatened northern long-eared bat (*Myotis septentrionalis*), we do not anticipate adverse effects to any federally endangered, threatened, proposed or candidate species. Should the project design change, or during the term of this action, additional information on listed or proposed species or their critical habitat become available, or if new information reveals effects of the action that were not previously considered, consultation with the U.S. Fish and Wildlife Service (Service) should be initiated to assess any potential impacts.

If there is a federal nexus for the project (e.g., federal funding provided, federal permits required to construct), no tree clearing should occur on any portion of the project area until consultation under section 7 of the Endangered Species Act (ESA), between the Service and the federal action agency, is completed. We recommend that the federal action agency submit a determination of effects to this office, relative to the Indiana bat and northern long-eared bat, for our review and concurrence.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), ESA, and are consistent with the intent of the National Environmental Policy Act of 1969 and the Service's Mitigation Policy. This letter provides technical assistance only and does not serve as a completed section 7 consultation document. We recommend that the project be coordinated with the Ohio Department of Natural Resources due to the potential for the project to affect state listed species and/or state lands. Contact Mike Pettegrew, Acting Environmental Services Administrator, at (614) 265-6387 or at mike.pettegrew@dmr.state.oh.us.

If you have questions, or if we can be of further assistance in this matter, please contact our office at (614) 416-8993 or ohio@fws.gov.

Sincerely,

Patrice Ashfield Ohio Field Office Supervisor

![](_page_51_Picture_0.jpeg)

# United States Department of the Interior

FISH AND WILDLIFE SERVICE Ohio Ecological Services Field Office 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 Phone: (614) 416-8993 Fax: (614) 416-8994

![](_page_51_Picture_3.jpeg)

In Reply Refer To: October 03, 2020 Consultation Code: 03E15000-2021-SLI-0023 Event Code: 03E15000-2021-E-00033 Project Name: Allen County - Water Service Extension to Harrod & Lafaytte Villages

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

### http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see http://www.fws.gov/migratorybirds/ RegulationsandPolicies.html.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/BirdHazards.html.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit http://www.fws.gov/migratorybirds/AboutUS.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

# **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Ohio Ecological Services Field Office** 4625 Morse Road, Suite 104 Columbus, OH 43230-8355 (614) 416-8993

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# **Project Summary**

Consultation Code:	03E15000-2021-SLI-0023
Event Code:	03E15000-2021-E-00033
Project Name:	Allen County - Water Service Extension to Harrod & Lafaytte Villages
Project Type:	VEGETATION MANAGEMENT
Project Description:	This description provides an overall summary of the proposed project. Allen County has requested CDBG Residential Public Infrastructure funding for the installation of water lines within the Village of Harrod, and Village of Lafayette. The project involves extending an Allen Water District waterline from Westminster to provide water and fire service to the Villages of Lafayette and Harrod as well as Allen East Local Schools. The project would begin in Westminster at the existing Allen Water District 12-inch water line near Rudolph Foods and extend the 12-inch water line east on Katrina Road, south on Cardinal Drive, east on Faulkner Road, north on Johnston Road and west on Harrod Road to where it would provide service to the Village of Harrod. The 12-inch water line would then extend northwest along Napoleon Road to where it would provide service to the Village of Lafayette. It proposes to include a water storage tank that would serve the Villages of Lafayette and Harrod and possibly Westminster in the future. The proposed location of this tank is on the Allen East Local School property near Napoleon Road. The proposed project would operate on the existing City of Lima high- pressure zone (1,120-foot hydraulic grade line) and would not require a booster pump station. The tank would be served by the existing St. Johns

The proposed project would serve 384 equivalent water users within the corporate limits of Lafayette and Harrod and the Allen East Local Schools. This total includes 44 equivalent water users from the Allen East Local Schools. The proposed water distribution system from Harrod and Lafayette would consist of 8-inch and 12-inch water lines installed by open cut, HDD, and jack and bore methods. Tree removal may be necessary throughout the project area, within the road right of way. Stream crossings will be horizontally directional bored to avoid impacts to streams, aquatic life and riparian zones.

Road booster pump station which has adequate capacity (over 3 million

gallons per day) to serve Westminster, Lafayette and Harrod.

There are approximately 124 private homes and 7 other potential customers along the alignment that could possibly tie in to the proposed 12-inch water line if there was interest from the respective owners. A

church and fire department along the alignment in Westminster; a church and used appliance store are along the alignment on Harrod Road; a veterinary clinic is along Napoleon Road north of Harrod; and an auto sales store and a restaurant are near the intersection of Napoleon Road and State Route 309.

The project proposed would consist of approximately 40,275 linear feet of 12-inch PVS, 50 linear feet of 12-inch PVC waterline installed by Jack and Bore under the railroad (1 crossing), 100 linear feet of 8-inch water line installed by Jack and Bore under the railroad (2 crossings), 505 linear feet of 12-inch HDPE water line installed by Horizontal Directional Drilling (HDD) under streams, The project will include a 200,000 gallon Standpipe proposed to be constructed south of the Village of Lafayette on the Allen East Local School property along Napoleon Road and north of State Route 309.

Within the Village of Harrod and Lafayette the following is proposed, 14,110 linear feet and 14,250 linear feet, respectfully, of 8-inch PVC or HDPE waterlines installed by open cut and HDD.

Also proposed is the inclusion of one hundred forty-one (141) hydrants, twenty-four (24) 12-inch valves and one hundred twenty-three (123) 8-inch valves.

### **Project Location:**

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/40.72754505400978N83.9332096933156W</u>

![](_page_56_Figure_8.jpeg)

Counties: Allen, OH