Appendix A

Exhibits
Elkhorn City, KY 40222

GENERAL LOCATION MAP

Wastewater Treatment Plant Project

SUMMIT ENGINEERING, INC.

LEXINGTON, KY 40504

PIKEVILLE, KY 41501

LOGAN, WV 25331

CHARLESTON, WV 25305

RUNDY, VA 24589
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 (BFEs) 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 Universal Transverse Mercator (UTM) zone 17. The horizontal datum was NAD83, GRS1980 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

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

- ZONE A - No Base Flood Elevation determined.
- ZONE AE - Base Flood Elevations determined.
- ZONE AH - Flood depths of 1 to 3 feet (usually areas of pooling); Base Flood Elevations determined.
- ZONE AO - Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined.
- ZONE AR - Area of special flood hazard formerly protected from the 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE A99 - Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V - Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.
- ZONE VE - Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- ZONE X - Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE D - Areas in which flood hazards are undefined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the 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.
The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Pike County, Kentucky
Survey Area Data: Version 13, Sep 17, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2011—Oct 6, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
## Map Unit Legend

**Pike County, Kentucky (KY195)**

<table>
<thead>
<tr>
<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BrG</td>
<td>Berks-Rock outcrop-Marrowbone complex, 60 to 120 percent slopes</td>
<td>4.6</td>
<td>14.6%</td>
</tr>
<tr>
<td>FgE</td>
<td>Fedscreek-Glipin-Marrowbone complex, 20 to 50 percent slopes</td>
<td>2.2</td>
<td>7.0%</td>
</tr>
<tr>
<td>KsF</td>
<td>Kimper-Sharondale-Muskingum complex, 30 to 80 percent slopes, very stony</td>
<td>7.5</td>
<td>24.0%</td>
</tr>
<tr>
<td>MaF</td>
<td>Marrowbone-Clifftop-Matewan complex, 35 to 75 percent slopes, very rocky</td>
<td>0.7</td>
<td>2.1%</td>
</tr>
<tr>
<td>NeD</td>
<td>Nelse loam, 4 to 25 percent slopes, frequently flooded</td>
<td>7.6</td>
<td>24.5%</td>
</tr>
<tr>
<td>uComB</td>
<td>Combs silt loam, 0 to 4 percent slopes, occasionally flooded</td>
<td>0.3</td>
<td>0.8%</td>
</tr>
<tr>
<td>W</td>
<td>Water</td>
<td>5.9</td>
<td>19.0%</td>
</tr>
<tr>
<td>Ye</td>
<td>Yeager loam, frequently flooded</td>
<td>2.5</td>
<td>8.0%</td>
</tr>
<tr>
<td><strong>Totals for Area of Interest</strong></td>
<td></td>
<td><strong>31.2</strong></td>
<td><strong>100.0%</strong></td>
</tr>
</tbody>
</table>
Appendix B
Agency Correspondence
Ms. Brandy Case, EIT
Summit Engineering, Inc.
3205 Summit Square Place
Lexington, KY 40509

Re: Elkhorn City Wastewater Treatment Plant

Dear Ms. Case:

Thank you for your letter concerning the above referenced project. Based on the information provided and our review of the application, an archaeological or cultural historic survey should not be necessary for the proposed project area. We concur with your determination of no historic properties affected for the proposed undertaking.

Should the project plans change, or should additional information become available regarding cultural resources or citizens’ concerns regarding impacts to cultural resources, please submit that information to our office as additional consultation may be warranted.

In the event that human remains are encountered during project activities, all work should be immediately stopped in the area and the area cordoned off, and in accordance with KRS 72.020 the county coroner and local law enforcement must be contacted immediately. Upon confirmation that the human remains are not of forensic interest, the unanticipated discovery must be reported to the Kentucky Heritage Council and the Kentucky Office of State Archaeology in the Anthropology Department at the University of Kentucky.

Should you have any questions, feel free to contact Nick Laracuente of my staff at 502.564.7005, extension 122.

Sincerely,

Craig A. Potts,
Executive Director and
State Historic Preservation Officer

January 11, 2016

CP:nrl KHC # 45579
July 9, 2015

Ms. Denise Thomas
Big Sandy Area Development District
100 Resource Drive
Prestonsburg, KY 41653

RE: Elkhorn City Wastewater Treatment Plant Project
SX21195018
SAI# KY20150528-0575

Dear Ms. Thomas:

The Kentucky State Clearinghouse, which has been officially designated as the Commonwealth's Single Point of Contact (SPOC) pursuant to Presidential Executive Order 12372, has completed its evaluation of your proposal. The clearinghouse review of this proposal indicates there are no identifiable conflicts with any state or local plan, goal, or objective. Therefore, the State Clearinghouse recommends this project be approved for assistance by the cognizant federal agency.

Although the primary function of the State Single Point of Contact is to coordinate the state and local evaluation of your proposal, the Kentucky State Clearinghouse also utilizes this process to apprise the applicant of statutory and regulatory requirements or other types of information which could prove to be useful in the event the project is approved for assistance. Information of this nature, if any, concerning this particular proposal will be attached to this correspondence.

You should now continue with the application process prescribed by the appropriate funding agency. This process may include a detailed review by state agencies that have authority over specific types of projects.

This letter signifies only that the project has been processed through the State Single Point of Contact. It is neither a commitment of funds from this agency or any other state of federal agency.

An Equal Opportunity Employer M/F/D
The results of this review are valid for one year from the date of this letter. Continuation or renewal applications must be submitted to the State Clearinghouse annually. An application not submitted to the funding agency, or not approved within one year after completion of this review, must be re-submitted to receive a valid intergovernmental review.

If you have any questions regarding this letter, please feel free to contact my office at 502-573-2382.

Sincerely,

Lee Nalley
Kentucky State Clearinghouse

Attachments
The Big Sandy ADD has made the following advisory comment pertaining to State Application Identifier Number KY201505280575
no comments

The Housing, Building, Construction has made the following advisory comment pertaining to State Application Identifier Number KY201505280575
no comments

The KY State Fish & Wildlife has made the following advisory comment pertaining to State Application Identifier Number KY201505280575
Based on the information provided, the Kentucky Department of Fish & Wildlife Resources has no comments concerning the proposed project. Please contact Dan Stoelb @ 502-564-7109 ex. 4453 or Daniel.Stoelb@ky.gov if you have further questions or require additional information.

The Labor Cabinet has made the following advisory comment pertaining to State Application Identifier Number KY201505280575
STATE PW RATES MAY APPLY TO PROJECTS EXCEEDING $250,000.00 CONTACT KY LABOR CABINET AT 502 564 3534

The Kentucky Infrastructure Agency has made the following advisory comment pertaining to State Application Identifier Number KY201505280575
The Clearinghouse budget does not list contingencies. Please update the budget to match the WRIS Project Profile.
Project reviewed in the WRIS Project Profile by KIA staff.

The Heritage Council has made the following advisory comment pertaining to State Application Identifier Number KY201505280575

Thank you for submitting your project for review. Currently, you have not provided enough information to determine this project's potential to impact sites listed or eligible for listing on the National Register of Historic Places.

Per the Section 106 regulations, it is expected that the applicant or responsible agency provide appropriate base information to our office to facilitate a review—including previously identified cultural resources that may be impacted by the proposed undertaking. You may not be aware, but effective July 8, 2013 we instituted a new Section 106 submission process to assist applicants and agencies in providing us the appropriate level of information to make our comments. Please refer to the following website http://www.heritage.ky.gov/siteprotect/ where you will find three separate documents to assist you in submitting additional information to our office for review. Those documents include a memo outlining the standardized Section 106 submission process, a Section 106 Cover sheet that must be included with all submissions to our office, and instructions for the proper completion of the required cover sheet and associated information. Please include the SAI# when submitting additional information to the Kentucky Heritage Council.

If you have already submitted the requested additional information to our office for review, you should be receiving our comments soon.

If you have questions, please contact Nick Laracuente of my staff at 502.564.7005, extension 122.
The Natural Resources has made the following advisory comment pertaining to State Application Identifier Number KY201505280575

This review is based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

The proposed project is subject to Division of Water (DOW) jurisdiction because the following are or appear to be involved: wastewater treatment plant conversion. Prior approval must be obtained from the DOW before construction can begin. The applicant must cite the State Application Identifier (SAI #KY201505280575) when submitting plans and specifications.

This project will expand the existing plant. The plant will be converted to a Sequential Batch Reactor Plant by constructing 2 Sequential Batch Reactor basins on the existing site. The existing buildings and equipment will be used or re-purposed in order to reduce cost. The plant will have a capacity of 0.385 million gallons per day and provide reserve capacity needed to attract industry. Completion of this project will provide improved wastewater service to 500 households, 51 commercial entities, and 1 miscellaneous entity (school, church, etc.).

The Engineering Section of the Water Infrastructure Branch of the DOW does not oppose this project at this time; however, you need to submit Plans and Specification to the DOW for review. You may need to notify the Planning section regarding a Facilities Plan update (contact Cindy McDonald, 502-564-3410 x 4830). You may need to notify the Permit section regarding a Waste Load Allocation permit (contact Courtney Seitz, 502-564-3410 x 4914). Construction of the wastewater component of this project shall not begin until written approval is received from the DOW. Mortaza Tabayeh, Water Infrastructure Branch, (502) 564-3410, Mortaza.Tabayeh@ky.gov.

Please be advised that there are no permits, certifications or formal approvals needed from the Groundwater Section for this project to go forward. However, there may be activities associated with this project that require a groundwater protection plan (GPP), such as refueling and/or temporary storage of fuel and heavy equipment, or the stockpiling of fill or dredged materials. Due to these factors, we recommend that the applicant be made aware of the requirements of 401 KAR 5:037, Section 2, and the need to develop GPPs to address any activities associated with the development of this project which may have the potential to contaminate groundwater. Once upgrades have been made then the facility will have to review and/or a new GPP that addresses best management practices for any and all activities that resulted from upgrades to the plant. David Jackson, Watershed Management Branch, (502) 564-3410, DaveA.Jackson@ky.gov.

Best management practices shall be utilized to reduce runoff from the project into adjacent surface waters. John Brumley, Water Quality Branch, (502) 564-3410, John.Brumley@ky.gov.

No comment. Sarah Gaddis, Compliance and Technical Assistance Branch, (502) 564-3410, Sarah.Gaddis@ky.gov.

The Division of Enforcement does not object to the project proposed by the applicant. Tim Harrod, Division of Enforcement, (502) 564-2150, Timothy.Harrod@ky.gov.

From the application data, DOW ascertains that the proposed project is located in a floodplain area. Therefore, a floodplain construction permit is required for this project. Julia Harrod, Watershed Management Branch, (502) 564-3410, Julia.Harrod@ky.gov.

If the construction area disturbed is equal to or greater than 1 acre, the applicant will need to apply for a Kentucky Pollutant Discharge Elimination System (KPDES) storm water discharge permit.

Utility line projects that cross a stream will require a Section 404 permit from the US Army Corps of Engineers and a 401 Water Quality Certification from DOW.
The Kentucky Division of Water supports the goals of EPA’s Sustainable Infrastructure Initiative. This Initiative seeks to promote sustainable practices that will help to reduce the potential gap between funding needs and spending at the local and national level. The Sustainable Infrastructure Initiative will guide our efforts in changing how Kentucky views, values, manages, and invests in its water infrastructure. This website, www.epa.gov/waterinfrastructure/, contains information that will help you ensure your facility and operations are consistent with and can benefit from the aims of the Sustainable Infrastructure Initiative.

The KY Dept. of Transportation has made the following advisory comment pertaining to State Application Identifier Number KY201505280575

Westfall (D12), Mark: Proposed improvements are limited to the confines of the existing WWTP property and will not impact any KYTC owned facilities. Project acceptable per KYTC-District 12, Pikeville, KY. If questions or additional information is required, contact Mark A Westfall, KYTC-District 12, Pikeville, KY 41501. Phone 606-433-4491.
November 4, 2015

R. Bruce Scott
Commissioner
Department for Environmental Protection
14 Reilly Rd.
Frankfort, KY 40601

Dear Mr. Scott,

The City of Elkhorn City has owned and operated a wastewater collection and treatment system since the early 1960’s. In 1972 the current wastewater treatment plant was constructed near the mouth of John Moore Branch (43 years old). The existing treatment works was rehabilitated in 1997.

The City has prepared a scope of work and a preliminary budget for a project to rehabilitate the existing treatment plant and expand its capacity. No sewer line rehabilitation or new construction is proposed as a part of this project. The location of the existing Elkhorn City wastewater treatment plant is illustrated on the attached exhibits. The plant is to be expanded on the existing site. No new property acquisition is anticipated.

The City seeks to replace the process contributing flow elements of the existing plant for the following reasons: the plant is hydraulically overloaded, the plant has no process redundancy (only one aeration basin and only one clarifier), the City cannot attract tenants to the future John Moore Branch industrial site if the treatment plant has no reserve capacity for new development, and the City cannot extend sewers to un-sewered areas within its ‘planning area’ without an increase in the hydraulic capacity of its treatment plant.

The proposed plan is to replace the aging 150,000 GPD plant with a new dual basin sequencing batch reactor (SBR) plant rated for 385,000 GPD. The new basins will be concrete rather than steel and less susceptible to corrosion. An SBR plant requires substantially less power than an EA plant and should be more economical to operate.

Please review the area of impact and respond as appropriate. I will assume, if I have not received a response from you within 30 days of the date of this letter, that your office does not anticipate any negative environmental impacts from this project in your areas of responsibility.
If you have any questions, please contact me at (859) 264-9860 ext. 115 or via e-mail at bcase@summit-engr.com.

Sincerely,

Brandy Case, EIT
Project Engineer

c: File
Enclosure
Ms. Case,

The Kentucky Department for Environmental Protection reviewed this project previously through the states e-Clearinghouse (#KY201505280575) on June 08, 2015. The project review can be found below. Please let me know if you require any further assistance.

This review is based upon the information that was provided by the applicant through the Clearinghouse for this project. An endorsement of this project does not satisfy, or imply, the acceptance or issuance of any permits, certifications, or approvals that may be required from this agency under Kentucky Revised Statutes or Kentucky Administrative Regulations. Such endorsement means this agency has found no major concerns from the review of the proposed project as presented other than those stated as conditions or comments.

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Ronald T. Price
Staff Assistant
Office of the Commissioner
Kentucky Department for Environmental Protection
300 Fair Oaks Lane
Frankfort, KY 40604
(502) 564-2150 x.3125
(502) 564-4245 (fax)
November 4, 2015

Division of Air Quality
Kentucky Department for Environmental Protection
200 Fair Oaks Lane, 1st Floor
Frankfort, KY 40601

Dear Sir or Madam:

The City of Elkhorn City has owned and operated a wastewater collection and treatment system since the early 1960’s. In 1972 the current wastewater treatment plant was constructed near the mouth of John Moore Branch (43 years old). The existing treatment works was rehabilitated in 1997.

The City has prepared a scope of work and a preliminary budget for a project to rehabilitate the existing treatment plant and expand its capacity. No sewer line rehabilitation or new construction is proposed as a part of this project. The location of the existing Elkhorn City wastewater treatment plant is illustrated on the attached exhibits. The plant is to be expanded on the existing site. No new property acquisition is anticipated.

The City seeks to replace the process contributing flow elements of the existing plant for the following reasons: the plant is hydraulically overloaded, the plant has no process redundancy (only one aeration basin and only one clarifier), the City cannot attract tenants to the future John Moore Branch industrial site if the treatment plant has no reserve capacity for new development, and the City cannot extend sewers to un-sewered areas within its ‘planning area’ without an increase in the hydraulic capacity of its treatment plant.

The proposed plan is to replace the aging 150,000 GPD plant with a new dual basin sequencing batch reactor (SBR) plant rated for 385,000 GPD. The new basins will be concrete rather than steel and less susceptible to corrosion. An SBR plant requires substantially less power than an EA plant and should be more economical to operate.

Please review the area of impact and respond as appropriate. I will assume, if I have not received a response from you within 30 days of the date of this letter, that your office does not anticipate any negative environmental impacts from this project in your areas of responsibility.
If you have any questions, please contact me at (859) 264-9860 ext. 115 or via e-mail at bcase@summit-engr.com.

Sincerely,

Brandy Case, EIT
Project Engineer

c: File

Enclosure
Dear Mr. Hohmann:

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Brandy Case, EIT
Project Engineer

c: File

Enclosure
November 4, 2015

Division of Water
Kentucky Department for Environmental Protection
200 Fair Oaks Ln., 4th Floor
Frankfort, KY 40601

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Sincerely,

Brandy Case, EIT
Project Engineer

c: File

Enclosure
November 4, 2015

Division of Waste Management
Kentucky Department for Environmental Protection
200 Fair Oaks Ln., 2nd Floor
Frankfort, KY 40601

Dear Sir or Madam:

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If you have any questions, please contact me at (859) 264-9860 ext. 115 or via e-mail at bcase@summit-engr.com.
Sincerely,

Brandy Case, EIT
Project Engineer

c: File

Enclosure
November 4, 2015

Mr. Lee Andrews
United States Fish & Wildlife Service
330 West Broadway, Suite 265
Frankfort, KY 40601

Mr. Andrews,

The City of Elkhorn City has owned and operated a wastewater collection and treatment system since the early 1960’s. In 1972 the current wastewater treatment plant was constructed near the mouth of John Moore Branch (43 years old). The existing treatment works was rehabilitated in 1997.

The City has prepared a scope of work and a preliminary budget for a project to rehabilitate the existing treatment plant and expand its capacity. No sewer line rehabilitation or new construction is proposed as a part of this project. The location of the existing Elkhorn City wastewater treatment plant is illustrated on the attached exhibits. The plant is to be expanded on the existing site. No new property acquisition is anticipated.

The City seeks to replace the process contributing flow elements of the existing plant for the following reasons: the plant is hydraulically overloaded, the plant has no process redundancy (only one aeration basin and only one clarifier), the City cannot attract tenants to the future John Moore Branch industrial site if the treatment plant has no reserve capacity for new development, and the City cannot extend sewers to un-sewered areas within its ‘planning area’ without an increase in the hydraulic capacity of its treatment plant.

The proposed plan is to replace the aging 150,000 GPD plant with a new dual basin sequencing batch reactor (SBR) plant rated for 385,000 GPD. The new basins will be concrete rather than steel and less susceptible to corrosion. An SBR plant requires substantially less power than an EA plant and should be more economical to operate.

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Sincerely,

Brandy Case, EIT
Project Engineer

c: File
Enclosure
Ms. Brandy Case, EIT  
Summit Engineering, Inc.  
3205 Summit Square Place  
Lexington, Kentucky 40509

Re: FWS 2016-B-0081; City of Elkhorn City; Wastewater Treatment Plant rehabilitation and capacity expansion; located in Pike County, Kentucky

Dear Ms. Case:

The U.S. Fish and Wildlife Service (Service) has reviewed your November 4, 2015 correspondence regarding to the above-referenced project. The Service offers the following comments in accordance with the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

**Indiana bat**

**Northern long-eared bat**

Your correspondence stated that the rehabilitation and expansion of the Elkhorn City wastewater treatment plant will occur within the existing property; no new construction or rehabilitation of sewer lines will occur; and, in our call from November 13, 2015, you stated that no trees will need to be removed. Based on the information available to us, we do not believe that the proposed project will affect habitat used by these bat species and, therefore, believe that the proposed project is not likely to result in negative effects to the Indiana bat or the northern long-eared bat.

Your correspondence also stated that rehabilitation and expansion of the wastewater treatment plant would help the development of Elkhorn City in two ways: 1) it would make it more attractive for tenants to move in to the John Moore Branch industrial park and Stonecoal industrial park, and 2) would help to extend the sewer system in the future to reach unsewered areas. These development activities have the potential to affect endangered species. Therefore, we request that the City of Elkhorn City coordinates with the Service before the previously mentioned development activities start.

**Big Sandy crayfish**

The Big Sandy crayfish is currently proposed for listing under the ESA (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and a listing decision may be made as soon as June of 2016.
This species prefers fast-flowing, permanent streams and rivers with boulders on a bedrock, cobble, or sand substrate; and has been observed in the Russell Fork and its tributaries near Elkhorn City. Species proposed for listing are not afforded protection under the ESA; however, as soon as a listing becomes effective, the prohibitions under Section 9 against “take” applies regardless of an action’s stage of completion.

Thank you again for your request. Your concern for the protection of endangered and threatened species is greatly appreciated. If you have any questions regarding the information that we have provided, please contact Santiago Martín at (502) 695-0468 extension 116 or santiago_martín@fws.gov.

Sincerely,

[Signature]

Jennifer M. Garland

for Virgil Lee Andrews, Jr.
Field Supervisor
To: Brandy Case, Project Engineer  
Summit Engineering, Inc.  
3205 Summit Square Place  
Lexington, KY 40509

Dec. 2, 2015

Re: Elkhorn City Wastewater Treatment Plant

Ms. Case,

NRCS does not officially do environmental assessments for these types of projects, but rather provides information on the soils and/or impact to farmland according to the criteria set forth in 1985 National Food Security Act Manual.

The project according to your request is being placed on lands that have been previously disturbed or developed, within the city limits of Elkhorn City, KY. These areas are considered converted farmland and not impacting additional prime farmland or statewide important farmland.

Additional information about the soils of Pike County if needed is available on-line at USDA’s Web Soil Survey for Pike County, KY.

If this office may be of additional assistance, please do not hesitate to contact my office in Maysville Ky. or contact the NRCS District Conservationist at 606-789-5263.

Steve Jacobs  
Area 3 Resource Soil Scientist, NRCS, Maysville, KY.

cc: Chris Slone, Soil Conservationist, Paintsville, KY
November 4, 2015

Chris Slone, District Conservationist
USDA - Natural Resources Conservation Service
99 Weddington Branch Road
Pikeville, KY 41501

Dear Mr. Slone:

The City of Elkhorn City has owned and operated a wastewater collection and treatment system since the early 1960's. In 1972 the current wastewater treatment plant was constructed near the mouth of John Moore Branch (43 years old). The existing treatment works was rehabilitated in 1997.

The City has prepared a scope of work and a preliminary budget for a project to rehabilitate the existing treatment plant and expand its capacity. No sewer line rehabilitation or new construction is proposed as part of this project. The location of the existing Elkhorn City wastewater treatment plant is illustrated on the attached exhibits. The plant is to be expanded on the existing site. No new property acquisition is anticipated.

The City seeks to replace the process contributing flow elements of the existing plant for the following reasons: the plant is hydraulically overloaded, the plant has no process redundancy (only one aeration basin and only one clarifier), the City cannot attract tenants to the future John Moore Branch industrial site if the treatment plant has no reserve capacity for new development, and the City cannot extend sewers to un-sewered areas within its 'planning area' without an increase in the hydraulic capacity of its treatment plant.

The proposed plan is to replace the aging 150,000 GPD plant with a new dual basin sequencing batch reactor (SBR) plant rated for 385,000 GPD. The new basins will be concrete rather than steel and less susceptible to corrosion. An SBR plant requires substantially less power than an EA plant and should be more economical to operate.

Please review the area of impact and respond as appropriate. I will assume, if I have not received a response from you within 30 days of the date of this letter, that your office does not anticipate any negative environmental impacts from this project in your areas of responsibility.

If you have any questions, please contact me at (859) 264-9860 ext. 115 or via e-mail at bcase@summit-engr.com.
Sincerely,

Brandy Case, EIT
Project Engineer

c: File

Enclosure
November 13, 2015

Mr. Craig Potts
Manager, Kentucky Heritage Council Site Protection Program
300 Washington Street
Frankfort, Kentucky 40601

Dear Mr. Potts,

The City of Elkhorn City has owned and operated a wastewater collection and treatment system since the early 1960’s. In 1972 the current wastewater treatment plant was constructed near the mouth of John Moore Branch (43 years old). The existing treatment works was rehabilitated in 1997.

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If you have any questions, please contact me at (859) 264-9860 ext. 115 or via e-mail at bcase@summit-engr.com.

Sincerely,

Brandy Case, EIT
Project Engineer

c: File

Enclosure
When federal (and some state) funds, permits or approvals are needed for a project, regulations such as 36 CFR Part 800 require agencies or their delegates to consult with the Kentucky Heritage Council/State Historic Preservation Office regarding the project's potential effects on historic properties. To facilitate our review, please provide the following information and applicable attachments. Our office will generate a response within 30 days of receipt. Incomplete submissions may result in review delays.

### SECTION 1: APPLICANT INFORMATION

**Project Sponsor or Applicant:** City of Elkhorn City Mayor Mike Taylor (in care of City Clerk)

**Contact Person** (name & position): Hope Ramey, City Clerk

**Telephone:** (606) 754-5080 **E-mail:** elkhorncityhall@bellsouth.net

**Project Title:** Elkhorn City Wastewater Treatment Plant

### SECTION 2: AGENCY INFORMATION

**Funding/Permitting Agency:** US Army Corps of Engineers

**Agency Contact Person** (name & position): Janet Wolfe, Chemist / HTRW

**Telephone:** (304) 399-5327 **E-mail:** Janet.K.Wolfe@usace.army.mil

### SECTION 3: PROJECT LOCATION

**E911 Street Address** (or other description): Near the mouth of John Moore Branch

**City/Township:** Elkhorn City **County:** Pike

**Latitude:** 37.309194 **Longitude:** -82.354486

### SECTION 4: PROJECT TYPE (please check all that apply)

- [ ] Demolition
- [X] Rehabilitation
- [ ] Structural Relocation
- [ ] Trails
- [X] New Construction
- [ ] Land and/or Building Acquisition
- [ ] Sewer/Water Lines
- [ ] Roads/Bridges
- [ ] Non-Construction Planning/Refinancing
- [ ] Other (describe):

### SECTION 5: IDENTIFICATION OF KNOWN HISTORIC PROPERTIES

**KHC Preliminary Site Check #:** 11943954 **OSA Preliminary Site Check #:** P109340

*If your project involves ground disturbance, has the site been previously disturbed?*

- [X] Yes (describe in detail below)
- [ ] No

The project area has been previously disturbed when the current wastewater treatment plant was constructed in 1972.

*Is there anything over 50 years of age in or visible from the project location?*

- [ ] Yes
- [X] No

### SECTION 6: ATTACHMENTS

Please attach the following documentation as applicable. All documentation should be labeled with the project name or site address:

- [ ] Clear, current photographs of the project site and anything over 50 years of age in or visible from it.
- [X] Site map/plan indicating the exact location and boundaries of the project area.
- [X] Detailed description of the project (may include plans, scope of work, and other available information.)
- [X] Documentation of prior ground disturbance (e.g. maps, photographs, underground utility plans, etc.)
- [X] Any known information about the history/use of the property and local significance.

We are unable to accept electronic submissions at this time. Please submit all information to **Craig Potts**, Executive Director/SHPO, Kentucky Heritage Council, 300 Washington St., Frankfort, KY 40601.