

## **APPENDIX H**

### **RESOURCE AGENCY COORDINATION CORRESPONDENCE**

- First Resource Agency Coordination
- Second Resource Agency Coordination



**Ernie Fletcher**  
Governor

**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.kentucky.gov

November 30, 2007

**Bill Nighbert**  
Secretary

**Crystal Murray Ducker**  
Deputy Secretary

«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»  
«Title»  
«Organization»  
«Address1»  
«Address2»  
«City» «State» «Zip»

Dear «Letter\_Title» «Last\_Name»:

Subject: Planning Study  
Mercer County  
Harrodsburg Northwest Bypass  
KY 152 to US 127  
Item No. 07-8344.00

We are requesting your agency's input and comments on a planning study to determine the need and potential impacts for a proposed highway project. The Kentucky Transportation Cabinet has assembled a study team to evaluate a proposed new northwest bypass of Harrodsburg from KY 152 (Mackville Road) to US 127 north of town in Mercer County, Kentucky. The primary goals of this project would be to improve transportation system connectivity for the schools, industries, and emergency response vehicles in the area, provide a grade separated railroad crossing, and reduce congestion on area roadways. The study is currently in the initial data-gathering stage.

We ask that you identify specific issues or concerns of your agency that could affect the development of the project. This planning study will include a scoping process for the early identification of potential alternatives, environmental issues, and impacts related to the proposed project. We believe that early identification of issues or concerns can help us develop highway project alternatives to avoid or minimize negative impacts. In particular, we are asking that you provide the following information:

- Comments on the project goals or purpose and need for the project,
- Significant issues or concerns in the project area that may need to be addressed so that the project can be adequately scoped,
- Any conservation or development plans your agency or organization has ongoing or is aware of in the project area,
- Locations of any known areas, issues, or resources within the project area that should be considered when developing alternatives so that impacts can be minimized, mitigated, or avoided early in the process, and



«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»

Page 2

November 30, 2007

- Any mitigation strategies that should be considered in the development of the project.

We respectfully ask that you provide us with your comments by January 15, 2008, to ensure timely progress in this planning effort.

During the development of this planning study, comments will be solicited from federal, state, and local agencies, as well as other interested persons and the general public, in accordance with principles set forth in the National Environmental Policy Act (NEPA) of 1969. The Federal Highway Administration is partnering with us in these efforts.

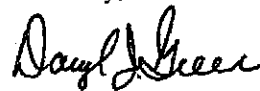
Other Transportation Cabinet offices or consultants working on behalf of the Transportation Cabinet may also contact you seeking more detailed data or information to assist them in completing their environmental studies for this phase of the project.

We have enclosed the following project information for your review and comment:

- Study Purpose, Issues, and Draft Project Goals
- Project Location Map
- Traffic Data
- Aerial Photography Environmental Footprint
- USGS Environmental Footprint

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Jim Wilson of the Division of Planning at (502) 564-7183 or at [Jimmy.Wilson@ky.gov](mailto:Jimmy.Wilson@ky.gov). Please address all written correspondence to Daryl J. Greer, P.E., Director, Division of Planning, Kentucky Transportation Cabinet, 200 Mero Street 5<sup>th</sup> Floor, Frankfort, KY 40622.

Sincerely,



Daryl J. Greer, P.E.  
Director  
Division of Planning

DJG/JCW/NH

Enclosures

c: Jose Sepulveda, FHWA (w/e)  
Mary Murray, FHWA (w/e)  
Lenny Stoltz, Bluegrass ADD (w/e)  
Tom Springer, Qk4  
Jim Rummage  
James Ballinger  
Stuart Goodpaster  
Phil Logsdon  
David Waldner  
Ananias Calvin



The Honorable Mr.	Senator Mr.	Dan J. B.	Kelly Clanch	Kentucky State Senator, District 14	Kentucky State Legislature	324 West Main Street	Springfield KY	40060
Mr.	Mr.	J. B.	Clanch	Magistrate	Mercer County Fiscal Court	2750 Talmage-Mayo Road	Salvisa KY	40372
Ms.	Ms.	Ronnie	Sims	Executive Director	Mercer County Chamber of Commerce	346 Rope Hill Lane	Harrodsburg KY	40330
Mr.	Mr.	Brenda	Sexton	Commissioner	City of Harrodsburg	488 Price Avenue	Harrodsburg KY	40330
Mr.	Mr.	Kevin	Perkins	Commissioner	Mercer County Schools	551 Chesapeake Drive	Harrodsburg KY	40330
Mr.	Mr.	Eddie	Long	Superintendent	Mercer County EMA	810 East Lexington Street	Harrodsburg KY	40330
Mr.	Mr.	Bruce	Johnson	Acting EMA Director	Mercer County Fire Protection District	371 East Lexington Street	Harrodsburg KY	40330
Mr.	Mr.	Mike	Preston	Fire Chief	James B. Haggin Memorial Hospital	200 Morris Drive	Harrodsburg KY	40330
Mr.	Mr.	Dave	Weber	Superior	North Mercer Water District	854 McBerly Road	Harrodsburg KY	40330
Mr.	Mr.	Glen	Humphrey	CEO	Mercer County Extension Service	P.O. Box 79	Salvisa KY	40372
Dr.	Dr.	Billy	Motzer	Chair	Harrodsburg Historical Society	P.O. Box 324	Harrodsburg KY	40330
Mr.	Mr.	Roy	Short	President	Harrodsburg Police Department	P.O. Box 316	Lexington KY	40503
Ms.	Ms.	Linda	McClanahan	City of Harrodsburg Engineer (GRW, Inc.)	Harrodsburg Waste Water Treatment Plant	401 Corporate Drive	Harrodsburg KY	40330
Mr.	Mr.	Terry	Sampson	F-911 Coordinator	Harrodsburg/Mercer County Tourist Commission	208 South Main Street	Harrodsburg KY	40330
Ms.	Ms.	Lora	Gillenson	Police Chief	Harrodsburg/Mercer County Industrial Development Authority	411 North Greenville Street	Harrodsburg KY	40330
Mr.	Mr.	Bill	Durham	Plant Manager	Greater Harrodsburg/Mercer County Planning & Zoning Commission	965 Cornishville Road	Harrodsburg KY	40330
Ms.	Ms.	Emile	Kelly	Executive Director	Northfolk Southern Railroad	P.O. Box 283	Harrodsburg KY	40330
Ms.	Ms.	Elizabeth	Volaw	Executive Director	Northfolk Southern Railroad	488 Price Avenue, Suite 4	Harrodsburg KY	40330
Mr.	Mr.	Karen	Hackitt	Engineer, Public Improvements	Bluegrass Energy Coop	109 Short Street	Harrodsburg KY	40330
Mr.	Mr.	Del	White	Systems Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	Shawn	Moore	Vice President of Engineering	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	Jim	Kazmierczak	System Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	David	Wyatt	System Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	Chris	Brewer	System Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	Danny	Collier	System Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309
Mr.	Mr.	Dave	Phelps	System Engineer	Inter County Energy	1200 Peachtree, NE	Atlanta GA	30309

# STUDY PURPOSE, ISSUES, AND DRAFT PROJECT GOALS

## HARRODSBURG NORTHWEST BYPASS MERCER COUNTY

### STUDY PURPOSE

The purpose of the Harrodsburg Northwest Bypass Scoping Study is to identify and evaluate potential corridors for a new or improved route in the northwest quadrant of Harrodsburg between US 127 and KY 152. The "Enacted Kentucky Six-Year Highway Plan FY 2007 – 2012" includes no further project development activity other than the Scoping Study. The study is further intended to help define the purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA). Tasks included in this study include:

- Discuss project needs and issues with the Project Team and a Steering Committee of local officials and other interested stakeholders,
- Define project goals,
- Identify any known environmental concerns,
- Identify and evaluate potential alternative locations for a northwest bypass, and
- Recommend a preferred location (or alternative locations) to be further examined in any subsequent project development phases.

### ISSUES

Major issues and concerns have been identified within the study area that will be addressed in the Scoping Study. These include:

- Several schools and industries are located in the northwest quadrant of Harrodsburg. A new Mercer County High School is being constructed near the corner of KY 390 (Industry Road) and Moberly Road. This concentration of trip origins and destinations at similar times of the day contributes to traffic congestion in the vicinity.
- Emergency response travel times to the James B. Haggin Memorial Hospital and to other locations are lengthened by congestion along and west of US 127.
- At-grade railroad crossings of the Norfolk Southern Railroad, which runs through Harrodsburg from northwest to southeast, carry more than twenty trains daily. The unique "diagonal" routing of this rail line results in multi-directional street blockages during passage of these trains.
- Location of any northwest bypass in Harrodsburg should be compatible with possible future expansion south of KY 152 and connecting with US 127 south.

### DRAFT PROJECT GOALS

For the Harrodsburg Northwest Bypass project, several draft project goals have been identified. These include:

- Improve Transportation System Connectivity,
- Provide Grade Separated Railroad Crossings,
- Reduce Congestion on Area Roadways, and
- Facilitate Future Expansion to the South.

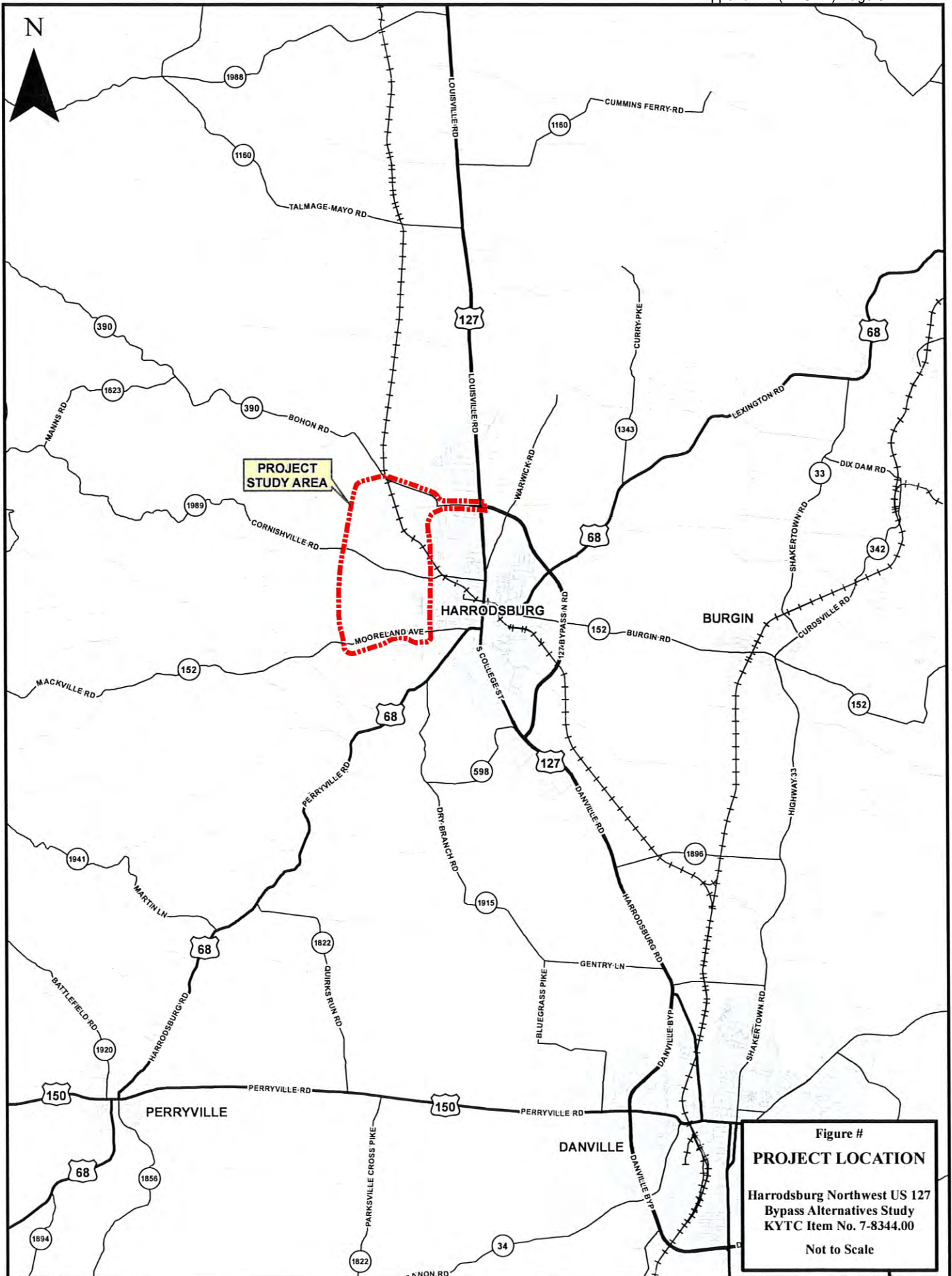
### CONTACTS

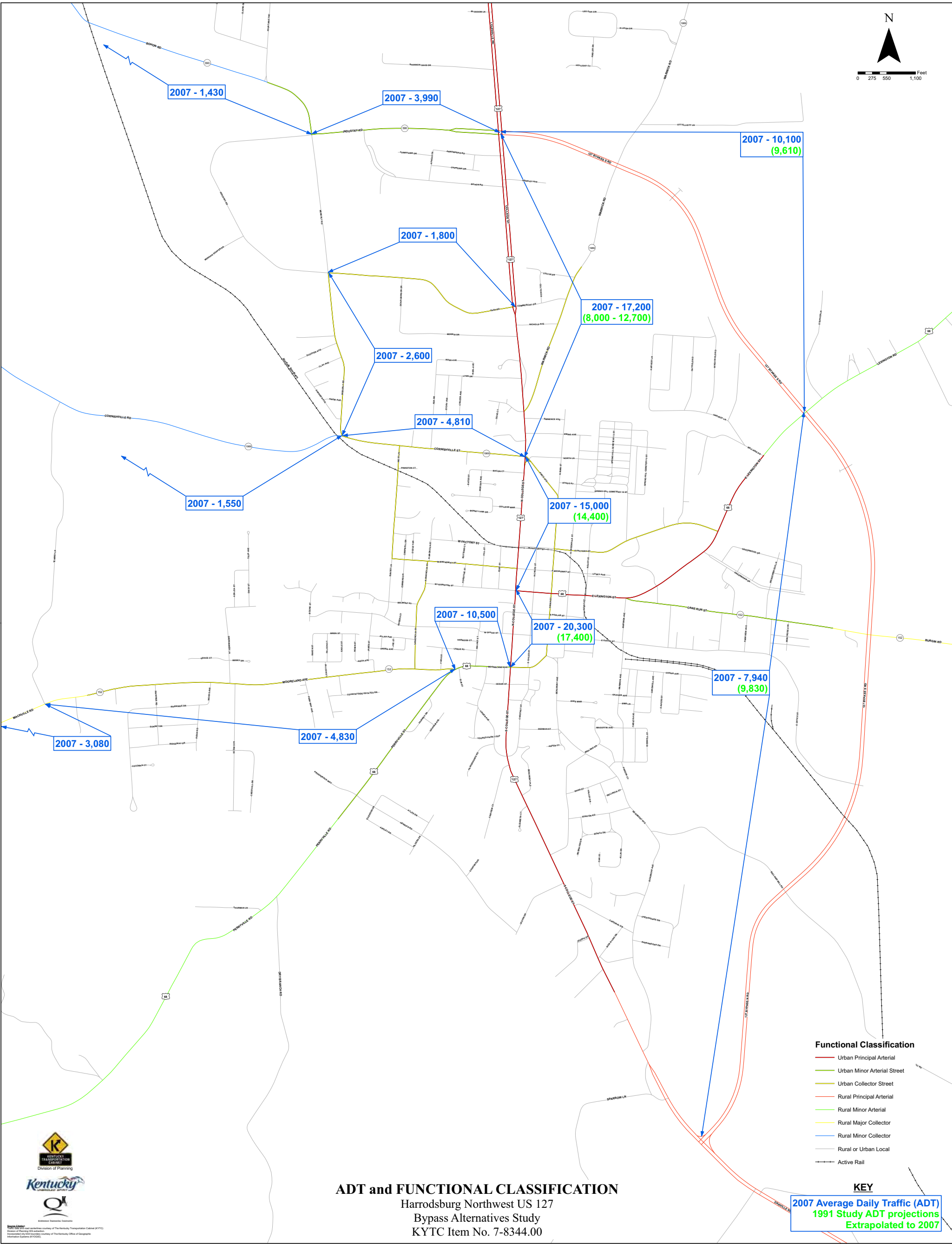
Address written comments to:

Daryl Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
Station W5-05-01  
200 Mero Street  
Frankfort, KY 40622

Or, you may contact by phone or e-mail:

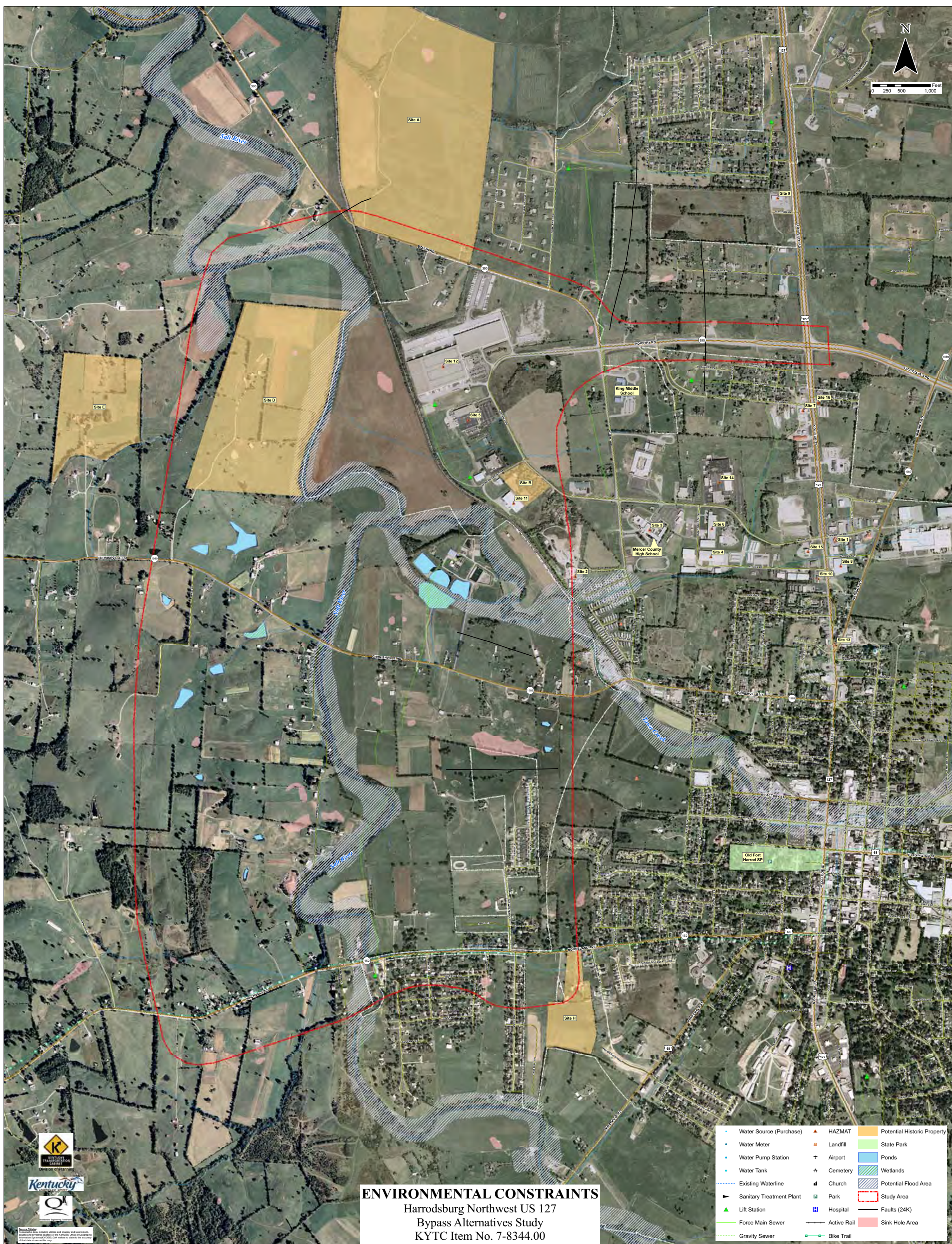
Jim Wilson, P.E.  
Project Engineer  
Division of Planning  
Kentucky Transportation Cabinet  
(502) 564-7183  
[jimmy.wilson@ky.gov](mailto:jimmy.wilson@ky.gov)























**Environmental Review Process  
Resource Agencies Responding (1st Mailing)**

	Agency	Date	Response
1	US Natural Resources Conservation Service	12/11/2007	Recommended contacting local NRCS representative and provided Mercer County soils data
2	US Department of Health and Human Services	1/23/2008	Provided a list of recommend topics to be considered during the NEPA process; requested a draft copy of the document
3	US Coast Guard	12/13/2007	No Impact
4	Mercer County Judge Executive	12/6/2007	Recommended roadway improvements as soon as possible
5	KYTC Permits	12/14/2007	Recommended suggestions relating to future access management and acquiring ROW
6	KYTC Division of Environmental Analysis	2/5/2008	Provided the checklist for environmental review considerations for Division of Planning Studies
7	KYTC Geotechnical	1/24/2008	Assessment of underlying rock formations and recommendations for the negotiations of the rock formations during construction
8	Kentucky Department of Agriculture	12/5/2007	Recognized the information, but provided no comment
9	Kentucky Department of Military Affairs	12/17/2007	No issues or concerns
10	KY EPPC DEP Division of Water	1/28/2008	No objection; KYTC Best Management Practices must be adhered to
11	KY EPPC Division of Waste Management	1/28/2008	Any waste generated must be properly disposed of and any contaminants encountered must be properly addressed
12	KY EPPC DEP Division for Air Quality	1/28/2008	Referenced the Fugitive Emissions Regulation and noted that open burning is prohibited except under certain circumstances
13	KY EPPC DEP DWM (HAZMAT)	12/7/2007	Identified one (1) instance of groundwater contamination near, but outside of the study area
14	KY EPPC DEP DWM (SW)	1/9/2008	Identified three (3) landfills on the eastern boundary of the study area
15	KY EPPC DEP DWM (UST) Branch	12/10/2007	Identified one (1) facility with one (1) removed underground storage tank in the area
16	KY EPPC DEP DWM	12/21/2007	Provided a list of superfund sites in Mercer County
17	KY EPPC Division of Conservation	1/18/2008	Provided map of adjacent agricultural district and recommended the use of Best Management Practices to minimize impact
18	KY EPPC Department for Natural Resources	12/10/2007	No indication of past, present, or future mining activities within the area
19	Kentucky Justice and Public Safety Cabinet (KVE)	1/31/2008	Recommended making the roadway a designated route
20	Kentucky State Police	1/11/2008	No Impact
21	US Department of Transportation FAA	1/10/2008	No apparent impacts so long as construction activities do not exceed 200 feet in height above ground level
22	Mercer County Emergency Management	1/10/2008	Project needed, but concerns expressed about non-local drivers' and truck traffic at two US 68 intersections
23	KY Commerce Cabinet Kentucky Heritage Council	1/3/2008	Recommended a full survey of both archaeological and cultural resources
24	KY Department of Fish and Wildlife Resources Commerce Cabinet	1/7/2008	Recommended contacting USDFW and USACOE and more wetland study; and suggested recommendations for mitigating stream impacts
25	KY Cabinet for Health and Family Services FMD	12/26/2007	No issues or concerns
26	KY Cabinet for Health and Family Services Office of the Secretary	12/27/2007	Recommended contacting local health departments in each county regarding septic systems and water run off.
27	Kentucky Geological Survey	12/18/2007	Provided list to summarize any geologic concerns



## United States Department of Agriculture



Natural Resources Conservation Service  
771 Corporate Drive, Suite 210  
Lexington, KY 40503

RECEIVED

DEC 14 2007

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

December 11, 2007

RE: Proposed Harrodsburg Bypass from KY 152 to US 127

Dear Mr. Greer:

The USDA-Natural Resources Conservation Service (NRCS) is concerned with potential impacts that any proposed highway project might have upon prime farmland soils and additional farmlands of statewide importance. If federal dollars are to be used to convert these important farmlands from agricultural uses to non-agricultural uses, a Form AD-1006 (or Form NRCS-CPA-106 if the project is a corridor type project) must be submitted to the local NRCS office. These forms may be obtained from the local NRCS office and are also available as electronic forms on the web at [http://www.nrcs.usda.gov/programs/fppa/pdf\\_files/AD1006.PDF](http://www.nrcs.usda.gov/programs/fppa/pdf_files/AD1006.PDF) and [http://www.nrcs.usda.gov/programs/fppa/pdf\\_files/CPA106.pdf](http://www.nrcs.usda.gov/programs/fppa/pdf_files/CPA106.pdf). If you need assistance in identifying important farmlands in Mercer County, please contact:

Robert B. Campbell, District Conservationist, NRCS  
227 Morris Drive, Harrodsburg, KY 40330, Phone: 859-734-6889.

To further assist with the planning efforts, I am enclosing a CD containing ArcView GIS shapefiles of soils information for Mercer County. The GIS shapefiles are in UTM projection, nad83, zone 16. The soil database table includes a column for "farmland classification-all components" (farmclac) that identifies prime farmlands and soils of statewide importance. A legend file has been provided (Mercer\_farmland\_classif.avl), which may be used with GIS software to more clearly display the soils that are considered prime farmlands and soils of statewide importance.

Sincerely,

A handwritten signature in dark ink, appearing to read "M. Hubbs", with the words "acting for" written in a smaller, cursive script below it.

MICHAEL D. HUBBS  
State Conservationist

cc:

Jacob Kuhn, ASTC, NRCS, Lexington, KY  
J. David Stipes, ASTC/FO, NRCS, Lexington, KY  
Robert Campbell, District Conservationist, NRCS, Harrodsburg, KY

*Helping People Help the Land*

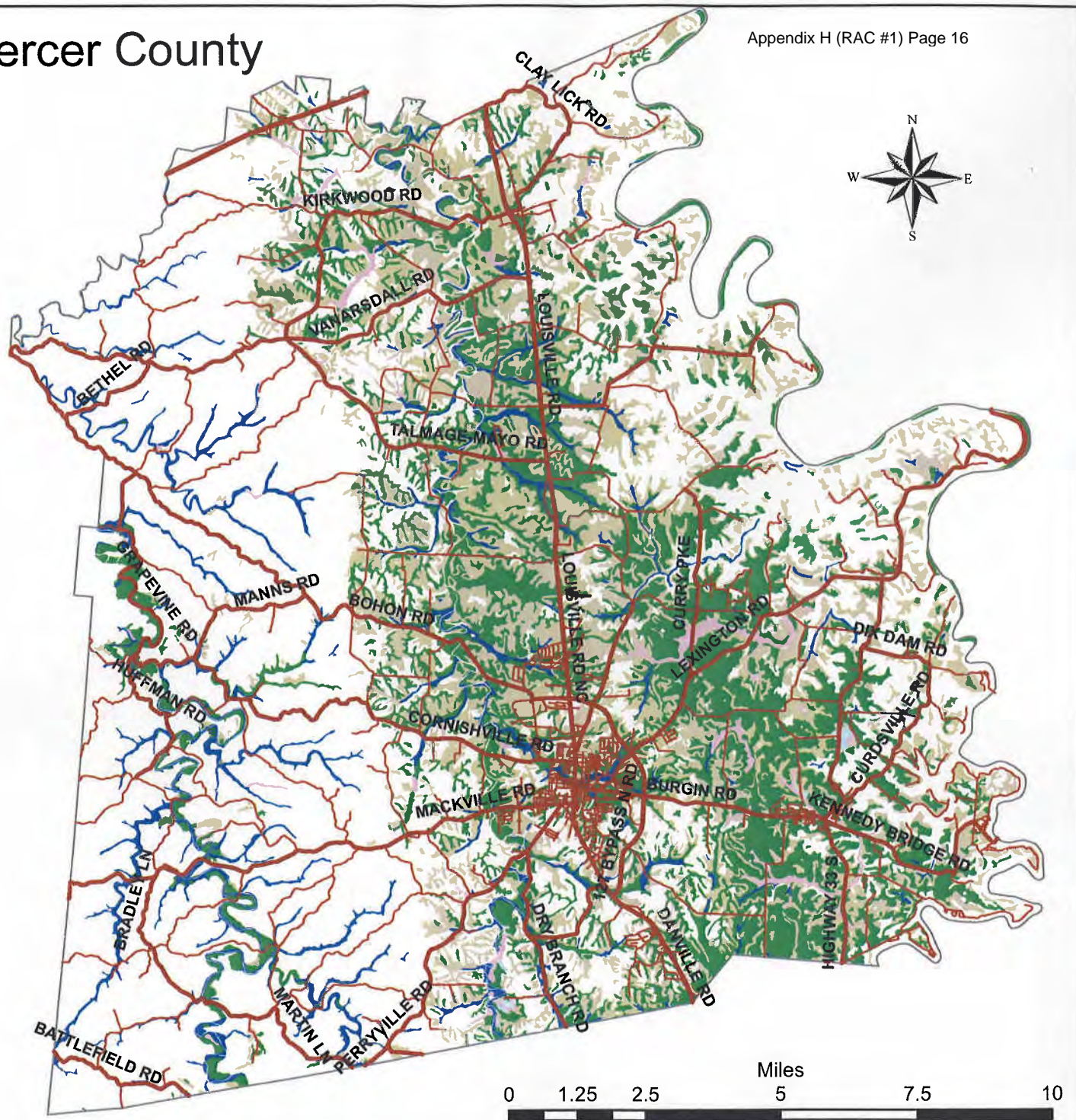
An Equal Opportunity Provider and Employer





# Mercer County

Appendix H (RAC #1) Page 16



## Legend

- County/Local Roads
- State Roads
- County Line
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance

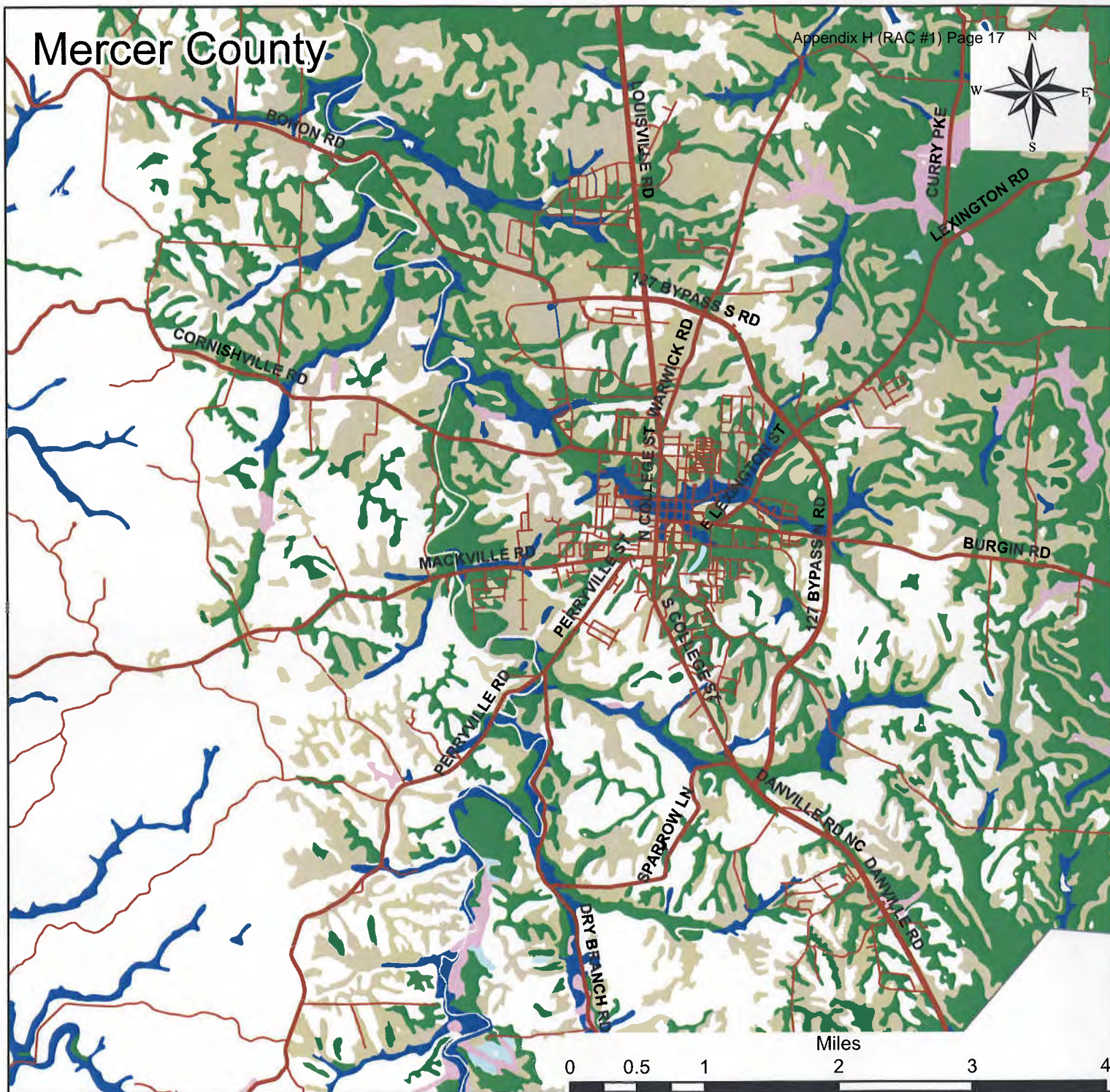
## Natural Resources Conservation Service Harrodsburg Bypass from KY 152 to US 127

Robert B. Campbell, District Conservationist, NRCS  
227 Morris Dr., Harrodsburg, KY 40330  
(859) 734-6889



# Mercer County

Appendix H (RAC #1) Page 17



## Legend

County/Local Roads

State Roads

County Line

All areas are prime farmland

Prime farmland if drained

Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season

Prime farmland if protected from flooding or not frequently flooded during the growing season

Farmland of statewide importance

## Natural Resources Conservation Service Harrodsburg Bypass from KY 152 to US 127

Robert B. Campbell, District Conservationist, NRCS  
227 Morris Dr., Harrodsburg, KY 40330  
(859) 734-6889







January 23, 2008

Centers for Disease Control  
and Prevention (CDC)  
Atlanta GA 30333

RECEIVED

JAN 30 2008

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Mr. Greer:

This is in response to your agency's advance notification concerning the Planning Study, Mercer County, Harrodsburg Northwest Bypass, KY 152 to US 127, Item No. 07-8344.00. We are responding on behalf of the Department of Health and Human Services (DHHS), U.S. Public Health Service.

We understand the purpose of the Harrodsburg Northwest Bypass Scoping Study is to identify and evaluate potential corridors for a new or improved route in the northwest quadrant of Harrodsburg between US 127 and KY 152. This proposed bypass would serve industrial, commercial, residential, and public land uses in and adjacent to the study area. We commend your efforts to address present and future traffic congestion in the corridor and emergency response travel times. We particularly noted that there are several schools in the northwest quadrant of Harrodsburg and that a new high school is now being constructed near the corner of KY 390 and Moberly Road. Proper planning of mitigation measures to address pedestrian infrastructure and transportation congestion can be developed to protect and promote public health. We would like for you to consider all public health options during the Planning Study.

Although we understand that this Scoping Study was included in the "Enacted Kentucky Six-Year Highway Plan FY 2007-2012" and no other project activity is planned at present other than the Scoping Study, it is extremely important that this evaluation consider potential future impacts in the study corridor. While this Scoping Study will provide needed infrastructure guidance for the future if plans for the bypass are implemented, it is also important to recognize that there may be land use changes that occur well in advance of the actual bypass construction. Without proper implementation and adherence to land use controls, piecemeal development and land speculation problems may cause unwanted problems in the future when the bypass is actually implemented. There must be close involvement by Harrodsburg city and the Mercer County officials in all study planning efforts in order to minimize potential future problems.

Planning with *health in mind* for future development along this corridor can help to: increase multi-modal transport options that facilitate increased physical activity and reduce air pollution; reduced traffic congestion; and, ensure reduced injuries from vehicular crashes to other motorists, bicyclists, and pedestrians. Our agency is particularly concerned about: an adequate and safe pedestrian infrastructure including safe and convenient walking and crossings for all ages and abilities, adequate signage and signaling, sufficiently marked lanes for bicyclists and HOV/carpools, and appropriate speed limit transitions. Mitigation measures that benefit both environmental and human health also include landscaped sidewalk buffers to separate pedestrians

Page 2, Mr. Daryl Greer, P.E.

from vehicular traffic and landscaped medians to serve as pedestrian crossing refuges as well as to aid in traffic calming. Aside from the health benefit of reduced injuries, landscaped buffers and medians offer the co-benefits of increasing air quality through carbon sequestration, improving pedestrian environment, and may also offer economic benefit to the surrounding community through increased property values.

Although we have no other specific comments to offer at this time, we do recommend that the topics listed below be considered during the study process, and addressed if appropriate. Mitigation plans protective of the environment and that act to protect and promote public health should be described in the Study Report wherever warranted.

## AREAS OF POTENTIAL PUBLIC HEALTH CONCERN:

### I. Air Quality

- dust control measures during project construction, and mitigation of potential releases of air toxins after project completion
- compliance with air quality standards

### II. Water Quality/Quantity

- special consideration to private and public potable water supply, including ground and surface water resources
- ground and surface water contamination (e.g. runoff)
- compliance with water quality and wastewater treatment standards

### III. Wetlands and Flood Plains

- potential contamination of underlying aquifers
- construction within flood plains which may endanger human health
- contamination of the food chain

### IV. Hazardous Materials/Wastes

- identification and characterization of hazardous/contaminated sites (we note there are several hazardous waste sites in this study area).
- safety plans/procedures, including use of pesticides/herbicides; worker training
- spill prevention, containment, and countermeasures plan

### V. Non-Hazardous Solid Waste/Other Materials

- measures regarding solid waste generation, reduction, and disposal should be considered

### VI. Noise

- identify projected elevated noise levels and sensitive receptors (i.e. residential, schools, hospitals) and appropriate mitigation plans during and after construction

### VII. Occupational Health and Safety

- compliance with appropriate criteria and guidelines to ensure worker safety and health

### VIII. Land Use -- Community and Neighborhood Impacts

- special consideration and planning for pedestrian infrastructure, including sidewalks that are continuous, accessible, safe, and aesthetically pleasing.
- adequate pedestrian crossings that are convenient and easily identified by motorists
- sufficiently marked, continuous lanes and infrastructure needs for bicyclists
- ADA accessibility compliance for all project areas

Page 3, Mr. Daryl Greer, P.E.

- consideration of beneficial and adverse long-term land use impacts, including the potential influx of people into the area as a result of a project and associated impacts
- demographic special considerations (e.g. hospitals, nursing homes, day care centers, schools)
- special consideration and appropriate mitigation for necessary relocation and other potential adverse impacts to residential areas, community cohesion, community services

IX. Environmental Justice

- minority groups in study area
- economic characteristics of study area residents and workers

While this is not intended to be an exhaustive list of possible impact topics, it provides a guide for typical areas of potential public health concern that may be applicable to this project. Any other health related topics potentially associated with the proposed project should also receive consideration.

Please furnish us with one copy of all NEPA related project documents to the address listed below when they become available for review. Please feel free contact us for further discussion of any topics raised in this response letter.

Sincerely yours,



Andrew L. Dannenberg, MD, MPH  
Associate Director for Science  
Division of Emergency and Environmental Health Services  
National Center for Environmental Health  
Centers for Disease Control and Prevention  
4770 Buford Highway, MS F-60  
Atlanta, GA 30341



U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
Eighth Coast Guard District

Appendix H (RAC #1) Page 23

1222 Spruce Street  
St. Louis, MO 63103-2832  
Staff Symbol: dwb  
Phone: (314)269-2378  
Fax: (314)269-2737  
Email:

**RECEIVED**

16591.1/ Mercer County  
December 13, 2007

DEC 19 2007

Mr. Daryl Greer, Division of Planning  
Kentucky Transportation Cabinet  
Station W5-05-01  
200 Mero Street  
Frankfort, KY 40622

Subj: HARRODSBURG TRANSPORTATION CORRIDOR IMPROVEMENT PROJECT,  
MERCER COUNTY

Dear Mr. Greer:

Please refer to your correspondence of November 30, 2007. We have determined that the proposed improvements will involve work over the Salt River, Dry Fork Creek, and Tewmey Creek. Pursuant to the Coast Guard Authorization Act of 1982, the subject project does not involve bridges over navigable waters of the United States. Therefore, a Coast Guard bridge permit is not required for this project.

We appreciate the opportunity to comment on the project.

Sincerely,

A handwritten signature in black ink, appearing to read "R. K. Wiebusch".

ROGER K. WIEBUSCH

Bridge Administrator

By direction of the District Commander





RECEIVED

**JOHN TRISLER**  
MERCER COUNTY JUDGE EXECUTIVE

DEC 07 2007



FISCAL COURT BUILDING / 134 SOUTH MAIN STREET  
HARRODSBURG, KY. 40330 / 859-734-6300

December 6, 2007

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Planning Director Greer,

Thank you for your letter requesting the input of the Mercer County Fiscal Court on the proposed Harrodsburg Northwest Bypass. I worked with your team and the consultant to help develop the study purpose, issue and goals and I agree with draft of these points.

The only additional issue that I would recommend would be the following:

The lack of a bypass puts greatly increased traffic on narrow, curvy and dangerous county roads through this area.

We look forward to working together with your team to reduce congestion and improve the safety in this area.

Sincerely,

A handwritten signature in blue ink, appearing to read "John D. Trisler". The signature is fluid and cursive.

John D. Trisler  
Mercer County Judge/Executive

JT/ss







RECEIVED

DEC 17 2007

**Steven L. Beshear**  
Governor


**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
www.kentucky.gov

**Joseph W. Prather**  
Secretary

TO: Daryl J. Greer  
Director  
Division of Planning

ATTN: Jim Wilson

FROM: Cass T. Napier   
Branch Manager  
Permits

DATE: December 14, 2007

RE: Mercer County  
Harrodsburg Northwest Bypass  
KY 152 to US 127  
Item No. 07-8344.00

The Permits Branch has reviewed the data provided for subject study site and wish to offer the following.

1. We urge the Cabinet to classify this project and all new projects as partially or fully controlled access facilities.
2. Assuming the project is partial control access, we encourage all possible access points be set on the plans in accordance with 603 KAR 5:120, even if they are not to be constructed at that time.
3. When buying R/W for this and all reconstruction routes, assuming the access control is partial control, new deed for all adjoining property owners need to be executed to identify the access control even if no new R/W is acquired.
4. In addition, we would like to make every effort possible to have the design speed to be the same as anticipated posted speed when the project is complete.
5. We would like to see access control fence installed with the project.
6. If the proposed roadway is to be on the N. H. S., early notification of the final line and grade is needed. This enables us to monitor outdoor advertising devices prior to road construction being completed.
7. Please notify this office if the proposed roadway is to be placed on the National Highway System. This information is needed to assist this office in regulating the installation of any outdoor advertising device.

Thank you for the opportunity to verbalize our concerns.

CTN/RLI



An Equal Opportunity Employer M/F/D





RECEIVED

FEB 07 2008

**Steven L. Beshear**  
Governor

**TRANSPORTATION CABINET**

Frankfort, Kentucky 40622  
[www.kentucky.gov](http://www.kentucky.gov)

**Joseph W. Prather**  
Secretary

February 5, 2008

Mr. Daryl J. Greer, P.E.  
Director  
KYTC, Division of Planning  
Transportation Office Building  
200 Mero Street  
Frankfort, KY 40622

RE: Planning Study  
Mercer County  
Harrodsburg Northwest Bypass  
KY 152 to US 27  
KYTC Item No. 7-8344

Dear Mr. Greer,

This is in response to your letter dated November 30, 2007 requesting our input on the above referenced project. The DEA staff has reviewed the information provided by your office. Please see the attached Environmental Review checklist for our comments.

We appreciate the opportunity to provide input on your planning project in Mercer County. If you have any questions concerning this matter, please contact myself or Tim Foreman at your convenience.

Sincerely,

A handwritten signature in blue ink, reading "David M. Waldner".

David M. Waldner, P.E.  
Director  
Division of Environmental Analysis

Cc: J. Wilson (Planning) w/a  
Central file w/a



An Equal Opportunity Employer M/F/D





## Division of Environmental Analysis

### Environmental Review Considerations for Division of Planning Studies

Indicate whether the Area/Corridor(s)/Alternatives selection might potentially be influenced by any known information or reasonable extrapolations from available data.

Y	N	Archaeology
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there known archaeological sites within the proposed study areas that are either listed or potentially eligible for listing to the NRHP?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there study areas that, due to certain landform characteristics, have a higher potential for sites, especially NRHP eligible archaeological sites?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there study areas that could be recommended as having a lower potential for sites, especially NRHP eligible archaeological sites?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Does the distribution of sites suggest anything of importance to project location selection?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any special concerns/considerations/circumstances that should be considered early in project development, such as a historical structure survey, that would further identify potential issues from an archaeological perspective?

Identify any areas that should be avoided, if possible, to minimize resource impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the known or potential resource(s).

Comments: Archaeological site 15Me2 is located within the potential historic property site D. Site 15Me2 is a prehistoric mound and is likely to be considered eligible for listing. It should be avoided. The "bluffs" along the west side of the Salt River have a higher potential for substantial prehistoric settlements and mounds. These have a greater likelihood of being eligible for listing. A previous archaeological survey for a wastewater treatment system resulted in the identification of multiple sites along the floodplain of the Salt River. Given the depositional history of the floodplain, there is a higher potential for buried archaeological sites. As a prehistoric resource area, the floodplains of the Salt River and Town Creek are expected to have a high number of archaeological sites. Conversely, the upland areas east of the river (closer to Harrodsburg) should have few archaeological sites and fewer potentially significant prehistoric sites. A historic structure survey would aide in the early identification of potential historic archaeological sites. If the area near 15Me2 is within one of the potential alignments, it is recommended that early archaeological reconnaissance be conducted to confirm the location of the site.

Y	N	Cultural Historic Resources
X	<input type="checkbox"/>	Are there known historic sites, districts, objects or structures within the proposed corridors that are either listed or potentially eligible for listing to the NRHP?
<input type="checkbox"/>	X	Has historic context of the area been developed that would allow the elimination of any buildings, districts, structures or objects that meet the 50 year old NRHP criterion?



X	<input type="checkbox"/>	Are there study areas that could be recommended as having a lower potential for historic sites, especially NRHP eligible historic sites?
X	<input type="checkbox"/>	Does the distribution of sites suggest anything of importance to project location selection?
Identify any areas that should be avoided, if possible, to minimize resource impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the known or potential resource(s).		
Comments: Please see attached comments		
<b>Y</b>	<b>N</b>	<b>Socioeconomic</b>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any low-income or minority communities identified within the proposed corridors?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there Prime Farmland soils identified within the proposed corridors?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any communities and/or business districts within the proposed corridors?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are there any public recreation areas, such as parks or waterfowl refuges, located within the proposed corridors?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Can one or more of the proposed corridors be recommended as having a lower potential for impacts to any of the resources identified above?
Identify any areas that should be avoided, if possible, to minimize resource impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this known or potential impact. Please refer to the attached information for a detailed description of the soils present in the area.		
Comments: The project study area is located within the U.S. Census Tract 9602. This tract, which is significantly larger than the defined study area, has 15% of the population living at or below poverty level, compared to 13% of Mercer County and 16% of the entire State. Approximately 11% of Census Tract 9602 is of some race other than White, compared to 6% for Mercer County and 10% for the State. Therefore, there appears to be some potential for low income and minority populations to be present within the study area and further analysis is recommended for future phases of project development.		
<b>Y</b>	<b>N</b>	<b>Air Quality</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is the project in a conforming plan? (Planning will identify if in a nonattainment area)
<input type="checkbox"/>	<input type="checkbox"/>	Considering the project setting (urban/rural), design features (off ramps, etc.), and locations where traffic flow might be interrupted with signalization or other traffic control devices, is there reasonable potential for the project to have an Air Quality impact?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is it expected that a base study or hot spot analysis will be required?
Identify any areas that should be avoided, if possible, to minimize air quality impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this impact.		
Comments: Air quality and noise should not be major issues on this project.		

Y	N	Noise
<input checked="" type="checkbox"/>	<input type="checkbox"/>	How many, what type and where are sensitive receptors within proximity to the proposed project?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Indicate whether a base study will be required based upon the project adding through-lane capacity.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Will further study be required due to areas of the project anticipated to have a significant change in the vehicle types that drive the road? What type of and how much traffic will utilize the road? Is the traffic volume anticipated to be above 20,000 ADT?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Will there be a significant change in the grade of the road with regard to braking noise and downshifting engine noise?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	With the spatial distribution of potential sensitive receptors, can recommendations be made regarding project location selection?
Identify any areas that should be avoided, if possible, to minimize noise impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this impact.		
Comments: None		
Y	N	Underground Storage Tanks/Hazardous Waste
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any known or listed State or Federal Superfund sites within proximity to the project and have they been addressed (closed)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are there any known or listed landfills, dumps or scrap yards within proximity to the project?
<input type="checkbox"/>	<input type="checkbox"/>	Have there been any reportable releases of regulated substances in or near the project area and have they been addressed (closed)?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Suggest limited phase 1 work by the consultant (costs = \$1,500 to \$3,000) including ERD search – attach to planning document for review when submitted to DEA.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	When provided by Planning, comment on information from the public with regard specifically to UST/HAZ issues. For example, people may know of situations that have been unreported and that may be of concern such as spills of chemicals, unauthorized storage of discarded tires and materials, abandoned drum piles and above ground tanks etc...
Identify any areas that should be avoided, if possible, to minimize impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this impact.		



Comments: The map provided of the project location contains 15 locations identified as hazmat sites. Three sites, 5, 11 and 12 are located within the study area footprint. Site 2 and one landfill are located just outside the study area footprint and should be considered a potential impacted hazmat site. All five sites are located in the northeast corner of the study area, between Cornishville Road KY 1989 and Bohon Road. It is the opinion of this office that the remaining sites on the map do not pose a hazmat concern to this project due to their distance from the study area. It is the recommendation of this office that any alternatives developed to meet the Purpose and Need for the proposed action be designed in a way that would avoid the located landfills and that a full Phase I Hazardous Materials study be conducted on any alternatives carried forward for consideration.

Y	N	Ecology
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is there potential for the project to effect endangered species? Have the USFWS, KSNPC, and KDFWR species lists and/or websites identified any T&E species in the project area?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Would stringent erosion controls and/or stream avoidance be required?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are any outstanding resource, special use waters, etc., present in the project area?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Is habitat for any listed T&E species known to exist in the project area?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Would a biological assessment or habitat assessment be required?
Identify any areas that should be avoided, if possible, to minimize impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this impact.		
<p>Comments: Running buffalo clover (RBC), Indiana bat (IB), and gray bat (GB) all have the potential to exist in the project area. RBC could occur on historic properties with partial shade and near stream banks. GB and IB could exist throughout the project area; GB along forested riparian corridors and IB along forested corridors. My list does not show any caves listed for Mercer County, however it is an incomplete list. Sinkholes are present, so care should be taken to avoid open-throated sinkholes as these could harbor bats. Clubshell mussel, fanshell mussel, Northern riffleshell mussel, and ringpink mussel all are known to occur within Mercer County according to USFWS (KSNPC has them as extirpated). These mussel species will occur within large streams, such as Salt River.</p>		
Y	N	Permits
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are any known or potential wetlands present in the project area?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will floodplains be impacted by the project?
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Will any of the following likely be required for any of the study areas: 401 permit, 404 permit, ACE Section 10 permit, Coast Guard permit, FEMA map revision, other? (specify below by study area)
Identify any areas that should be avoided, if possible, to minimize impacts. Unless the concerns noted above are equally distributed across all alternatives, corridors or study areas (should be so noted below), provide a specific explanation of varying degrees by which the areas studied would be influenced or affected by the consideration of this impact.		

**Comments:**

1. Permits : Due to the location of this proposed road it is likely that there could be a impact to Salt River, if possible this river should be clear spanned to avoid an impact. Also due to the nature of the vicinity of the proposed project location. There will be a potential to impact wetlands that should be avoided if possible due to big flood plain areas of the Salt River and topography of the Study area. It is desired that no stream or wetland impact breaks .10 acre or 300' linear ft. in length. This will greatly reduce all 404 & 401 fee's for the proposed project along with greatly speeding up processing times.


### **Cultural Historic Comments:**

Five sites are identified by the study as potentially historic: Sites A, B, D, E, and H. There is no mention of Sites C, F, or G. The northeast corner of the study area contains one previously surveyed site, Site B on the map. This site has a Kentucky Heritage Council (KHC) survey number of ME-172 and it is listed on the National Register. However, much of this area, located east of the railroad and south of KY 390, has been developed as an industrial park. It has a low potential for other significant above-ground resources. The remaining study area is predominantly rural and has historically served as farmland. The Salt River bisects the study area and would have been a draw for early settlers as an important water source. The site identified as Site A is previously surveyed by the KHC as ME-130. From aerial photographs, it appears the house is no longer standing. The buffer placed over Site A in the study seems overly large, but the site needs to be field checked by a qualified architectural historian to verify its status. Site B, as mentioned previously, is listed on the National Register. Site D does not appear to have been previously surveyed and needs to be field verified. The same goes for Site E. It is possible that these sites are ME-120 and 121, early house and mill sites. Once again, the buffer may not be appropriate, but eligibility and boundary recommendations need to be made by an architectural historian. Site H has not been previously surveyed and is surrounded by newly constructed homes. In the area west of the Salt River and south of Cornishville Road, there appear to be several historic sites that will need evaluation. These have the potential to be large farms that would be eligible for the National Register. On aerial photographs there appear to be cemeteries off of Tewmey lane, but what look like headstones may actually be plantings of some sort. Any cemeteries will need to be identified and evaluated in the field. There are two previously surveyed sites north of Cornishville Road that are not identified by the study. ME-116 and ME-115 both have the potential to be eligible sites. As a historically rural area in a county rich with historic resources there is a great potential for many eligible sites in the study area. Without field verification and study by a qualified architectural historian it is not possible to eliminate any potentially historic sites at this point. A full cultural historic report will be required and its findings will need to be coordinated with the State Historic Preservation Office.



**Soils and Prime Farmlands**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bq	Boonesboro silt loam	3.4	0.1%
CaB	Caleast silt loam, 2 to 6 percent slopes	38.9	1.7%
CaC	Caleast silt loam, 6 to 12 percent slopes	25.4	1.1%
Du	Dunning silty clay loam	9.9	0.4%
EdD	Eden silty clay loam, 6 to 20 percent slopes	342.9	14.7%
EkA	Elk silt loam, 0 to 2 percent slopes	77.0	3.3%
EkB	Elk silt loam, 2 to 6 percent slopes	97.4	4.2%
FaC	Fairmount-Rock outcrop complex, 6 to 12 percent slopes	60.3	2.6%
FaD	Fairmount-Rock outcrop complex, 12 to 30 percent slopes	100.8	4.3%
FdC	Faywood silt loam, 6 to 12 percent slopes	245.6	10.5%
FdD	Faywood silt loam, 12 to 20 percent slopes	11.9	0.5%
FwD3	Faywood silty clay, 12 to 20 percent slopes, severely eroded	46.7	2.0%
LoB	Lowell silt loam, 2 to 6 percent slopes	156.1	6.7%
LoC	Lowell silt loam, 6 to 12 percent slopes	125.0	5.3%
LoD	Lowell silt loam, 12 to 20 percent slopes	60.7	2.6%
LwC3	Lowell silty clay loam, 6 to 12 percent slopes, severely eroded	40.4	1.7%
MaB	Maury silt loam, 2 to 6 percent slopes	99.1	4.2%
MaC	Maury silt loam, 6 to 12 percent slopes	62.0	2.7%
McB	McAfee silt loam, 2 to 6 percent slopes	203.7	8.7%
McC	McAfee silt loam, 6 to 12 percent slopes	276.3	11.8%
McD	McAfee silt loam, 12 to 20 percent slopes	43.8	1.9%
MeD	McAfee-Rock outcrop complex, 12 to 20 percent slopes	12.5	0.5%
Ne	Newark silt loam	0.3	0.0%
NhB	Nicholson silt loam, 2 to 6 percent slopes	12.8	0.5%
No	Nolin silt loam	147.1	6.3%
Pt	Pits, quarries	0.6	0.0%
W	Water	38.7	1.7%

 = Prime Farmland Soils –

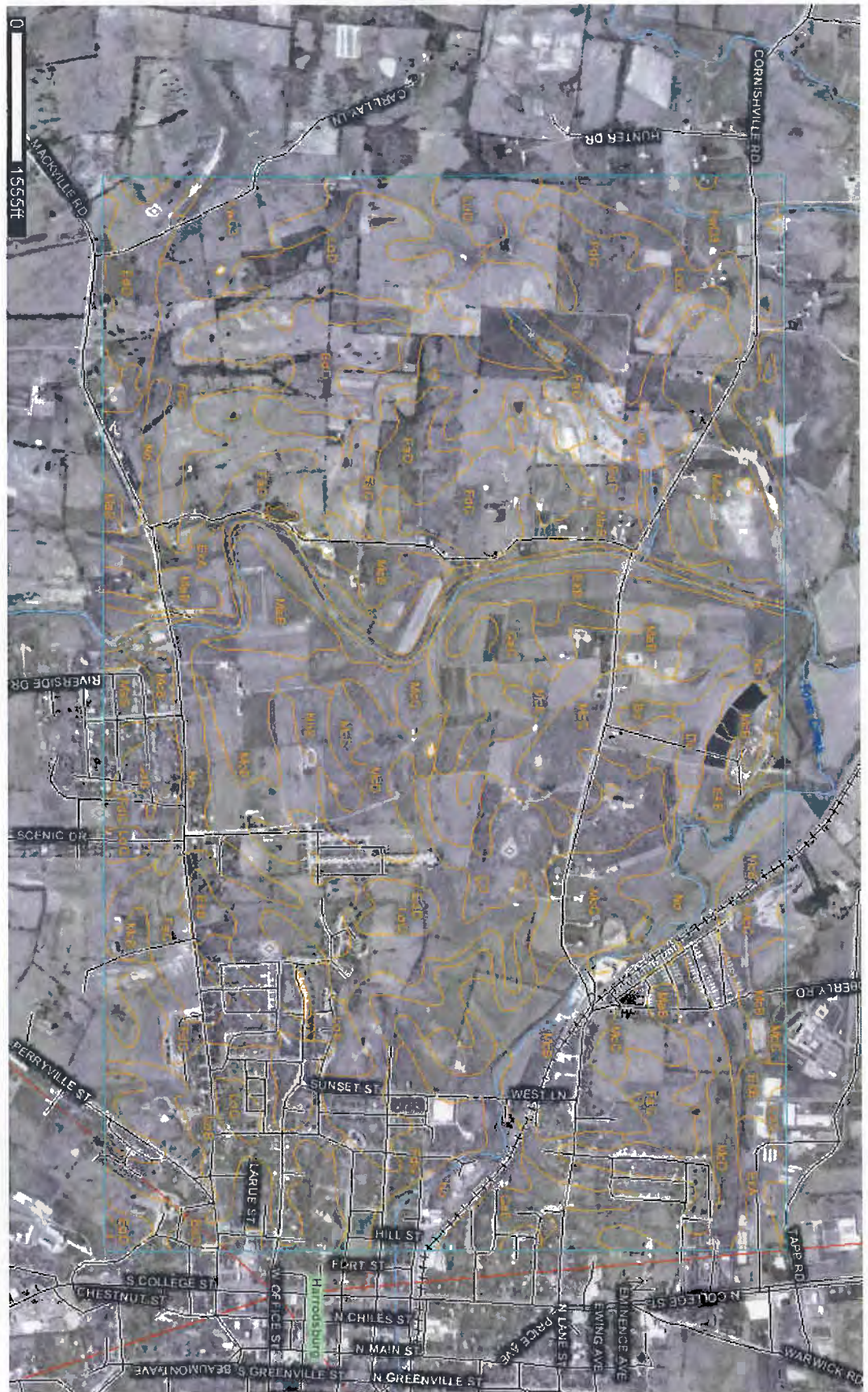
+/- 692.8 acres 28.5 % of Project Area

Map Symbol	Map Unit Name	Farmland Classification
Bq	Boonesboro silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season
CaB	Caleast silt loam, 2 to 6 percent slopes	All areas are prime farmland
CaC	Caleast silt loam, 6 to 12 percent slopes	Farmland of statewide importance
Du	Dunning silty clay loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
EdD	Eden silty clay loam, 6 to 20 percent slopes	Not prime farmland
EkA	Elk silt loam, 0 to 2 percent slopes	All areas are prime farmland
EkB	Elk silt loam, 2 to 6 percent slopes	All areas are prime farmland

FaC	Fairmount-Rock outcrop complex, 6 to 12 percent slopes	Not prime farmland
FaD	Fairmount-Rock outcrop complex, 12 to 30 percent slopes	Not prime farmland
FdC	Faywood silt loam, 6 to 12 percent slopes	Farmland of statewide importance
FdD	Faywood silt loam, 12 to 20 percent slopes	Not prime farmland
FwD3	Faywood silty clay, 12 to 20 percent slopes, severely eroded	Not prime farmland
LoB	Lowell silt loam, 2 to 6 percent slopes	All areas are prime farmland
LoC	Lowell silt loam, 6 to 12 percent slopes	Farmland of statewide importance
LoD	Lowell silt loam, 12 to 20 percent slopes	Not prime farmland
LwC3	Lowell silty clay loam, 6 to 12 percent slopes, severely eroded	Not prime farmland
MaB	Maury silt loam, 2 to 6 percent slopes	All areas are prime farmland
MaC	Maury silt loam, 6 to 12 percent slopes	Farmland of statewide importance
McB	McAfee silt loam, 2 to 6 percent slopes	All areas are prime farmland
McC	McAfee silt loam, 6 to 12 percent slopes	Farmland of statewide importance
McD	McAfee silt loam, 12 to 20 percent slopes	Not prime farmland
MeD	McAfee-Rock outcrop complex, 12 to 20 percent slopes	Not prime farmland

Ne	Newark silt loam	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
NhB	Nicholson silt loam, 2 to 6 percent slopes	All areas are prime farmland
No	Nolin silt loam	Prime farmland if protected from flooding or not frequently flooded during the growing season
Pt	Pits, quarries	Not prime farmland
V	Water	







## MEMORANDUM

**P-019-2007**

**TO:** Daryl Greer  
Director  
Division of Planning

**FROM:** William Broyles, PE  
Geotechnical Engineering  
Branch Manager  
Division of Structural Design

**BY:** Michael Blevins, PG  
Geotechnical Branch

**DATE:** January 24, 2008

**SUBJECT:** Mercer County  
FD04 084 7442 000-000 P  
Harrodsburg Northwest Bypass  
Planning Study  
Item # 07-8344.00  
Mars # 7969101P  
Geotechnical Review

The Geotechnical Branch has completed a review of the project study area and offers the following comments.

### GEOLOGIC OVERVIEW

The project is underlain by Quaternary Alluvium (Qal), the Clays Ferry Formation (Ocf), and the following Members of the Lexington Limestone; Sulphur Well Member (Ols), Brannon Member (Olb), Perryville Limestone Member (Olpc & Olps or Olpcs) and the Tanglewood Limestone Member (Olt).

The Alluvium consists of silt, sand and gravel deposits and is mainly confined to the flood plain along the Salt River and Town Creek. The depth of the deposits can be up to 60 feet.

The Clays Ferry Formation contains interbedded limestone and shale with limestone percentages ranging from 25% at the base, to 50% in the middle and upper portions of the Formation. The Clays Ferry is approximately 80 feet thick and is mainly found West of the Salt River with the exception of an area West of Harrodsburg as shown on the attached Harrodsburg and Cornishville Geologic Quadrangle Maps.

The Lexington Limestone includes a number of Members as stated above. The Perryville Limestone Member and the Tanglewood Member contain various types of Limestone

**Memorandum**  
**Daryl Greer**  
**January 24, 2008**  
**Page-2-**

that should be suitable for Roadway applications. The Brannon Member consists of interbedded Limestone (50%) and Shale. The Limestone is generally argillaceous (shalely) and the Member is a good location for spring lines to occur. The Brannon is not suitable for roadway applications and is approximately 0-7 feet thick.

Several East–West trending Faults are indicated on the Geologic Map and the displacement is approximately 10-15 feet. The bedrock dips 7-10 feet in the proximity of the faulted area. The Faults should not present any major problems.

Sinkholes are present within the project area and are indicated on the attached Geologic Map. Most of the Sinkholes located above the Brannon Member should only extend 20 feet or less from the surface to the top of the Brannon Mbr. Any sinkholes located below the Brannon Member may extend deeper.

## **GEOTECHNICAL CONCERNS**

Structures founded in alluvium may require deeper than normal types of foundations (piles or drilled shafts).

Cuts constructed in the Clays Ferry may require flatter than normal cut slopes and extra Right-of-Way for slopes to be stable. Embankments constructed from this material may require flatter than normal fill slopes. The Branch prefers to avoid this Formation due to the type of material not being suitable for roadway applications and flatter than normal cut and fill slopes.

No problems are anticipated to be encountered with the cuts in the Lexington Limestone. The Branch prefers a corridor to be founded on the Lexington Limestone where possible due to the better quality of bedrock that can be used for roadway construction applications.

The Branch recommends avoiding any sinkholes when possible. Sinkholes are indicated on the attached Geologic Map. Additional sinkholes not shown on the map may also be encountered.

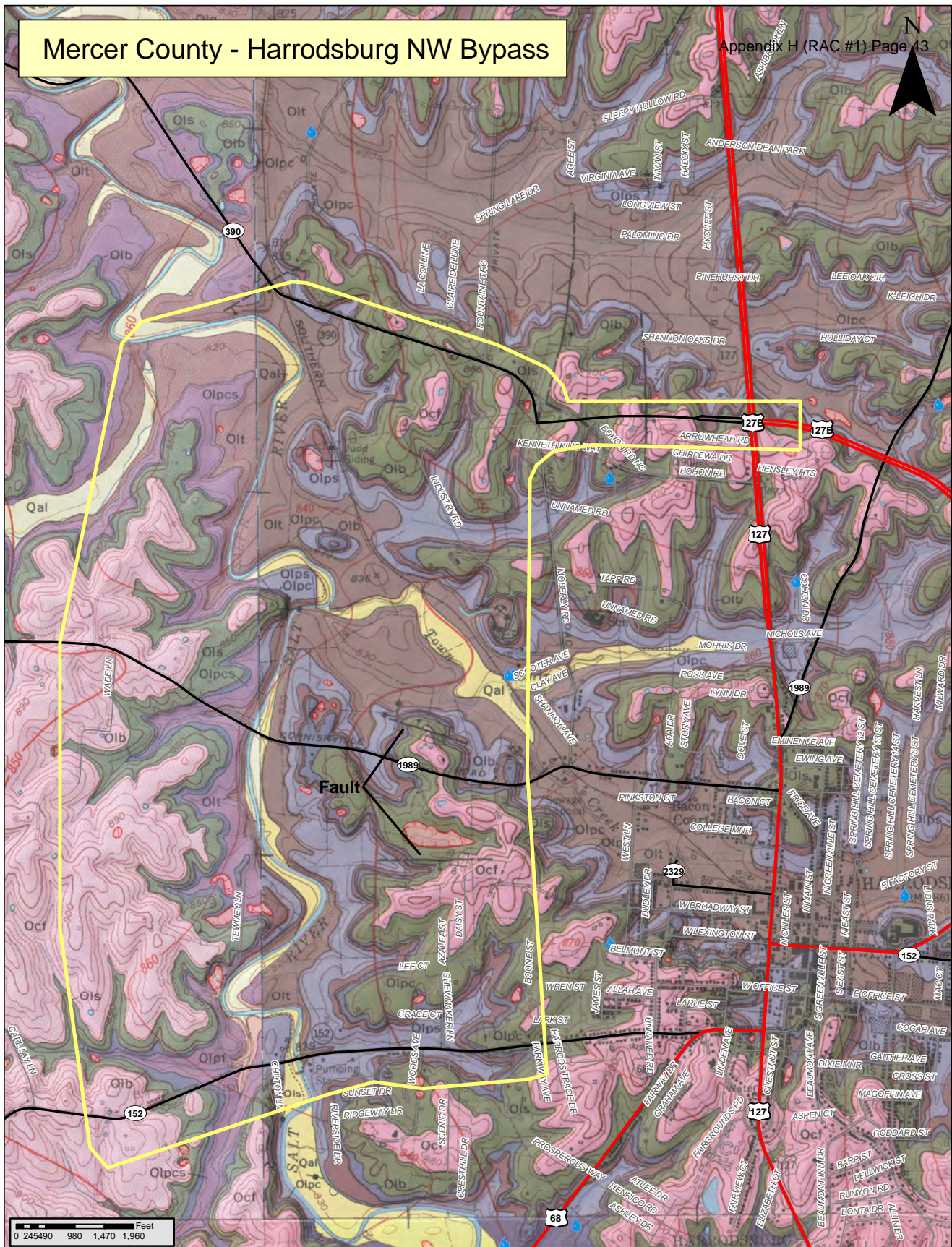
The Branch also prefers to avoid any faults within the project area. If the faults can not be avoided, the roadway corridor should intersect the faults perpendicular to the strike (or direction of fault) to minimize any possible construction problems.

If there are any questions, please advise.



# Mercer County - Harrodsburg NW Bypass

Appendix H (RAC #1) Page 43



## Legend

### Lexington Limestone Members

<b>Ols</b>	Sulphur Well Member
<b>Olb</b>	Brannon Member
<b>Olt</b>	Tanglewood Member
<b>Olpc</b>	Cornishville Bed of the Perryville Limestone Member

	Study Area
	Fault Line
<b>Ocf</b>	Clays Ferry Formation
<b>Qal</b>	Alluvium
<b>QTI</b>	High-level fluvial deposits

	Springs
	Sinkholes
	US Highways
	State Roads
	Local Roads





**Richie Farmer, Commissioner**  
32 Fountain Place  
Frankfort, KY 40601



Phone: (502) 564-5126

Fax: (502) 564-5016

E-mail: richie.farmer@ky.gov

**Kentucky  
Department of  
Agriculture**

*A Consumer Protection And Service Agency*

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**DEC 07 2007**

December 5, 2007

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, Kentucky 40622

RE: Mercer County Item No. 07-8344.00

Dear Mr. Greer:

The Kentucky Department of Agriculture recognizes receipt of information relating to the above noted Item No. At this time, the Department has no comment on the proposed project.

We appreciate the opportunity to provide input.

Yours truly,

A handwritten signature in dark ink, appearing to read "Richie Farmer".  
Richie Farmer, Commissioner







## Springer, Tom

---

**From:** Wilson, Jimmy (KYTC) [Jimmy.Wilson@ky.gov]  
**Sent:** Monday, December 17, 2007 10:53 AM  
**To:** Siria, Bruce; Springer, Tom  
**Cc:** Witt, Thomas (KYTC)  
**Subject:** FW: Planning Study, Harrodsburg Northwest Bypass, KY 152 to US 127, Mercer County, Item No. 07-8344.04

-----Original Message-----

From: Wilkins, Joe N MR NGKY [mailto:joe.wilkins@us.army.mil]  
Sent: Friday, December 14, 2007 10:52 AM  
To: Wilson, Jimmy (KYTC)  
Cc: Berthold, Julius L BG(R) NGKY  
Subject: Planning Study, Harrodsburg Northwest Bypass, KY 152 to US 127, Mercer County, Item No. 07-8344.04

Mr. Wilson,

The Department of Military Affairs can not identify any issues or concerns that affect the development of subject project.

The Kentucky National Guard has an Armory located West of US 127 at 500 Tapp Road. It is expected that such a bypass would facilitate accessibility to the Armory for military vehicles coming from The South and West.

Joe N. Wilkins  
Director, Facilities Division  
Boone National Guard Center  
Frankfort, KY 40601-6168  
502-607-1535  
DSN 667-1535  
502-382-7270 (Cell)  
502-607-1270 (Fax)  
Joe.Wilkins@ky.ngb.army.mil



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FEB 04 2008

**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET**

**Steven L. Beshear**  
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
300 FAIR OAKS LANE  
FRANKFORT, KENTUCKY 40601  
PHONE (502) 564-2150  
FAX (502) 564-4245  
www.dep.ky.gov

**Robert D. Vance**  
Secretary

**R. Bruce Scott**  
Commissioner

January 28, 2008

Mr. Daryl J. Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
Frankfort, KY 40622

Re: Planning Study Mercer County Harrodsburg Northwest Bypass KY 152 to US 127. Item  
No. 07-83344.00 (SERO 2007-31)

Dear Mr. Greer,

The Environmental and Public Protection Cabinet serves as the state clearinghouse for review of environmental documents generated pursuant to the National Environmental Policy Act (NEPA). Within the Cabinet, the Commissioner's Office in the Department for Environmental Protection coordinates the review for Kentucky state agencies.

The Kentucky agencies listed on the attached sheet have been provided an opportunity to review the above referenced report. Responses were received from 3 of the reviewing agencies. Comments were received from the Kentucky Divisions of Water, Waste Management, and Air Quality.

If you should have any questions, please contact me at (502) 564-2150, ext. 112.

Sincerely,

A handwritten signature in blue ink, appearing to read "Larry C. Taylor".

Larry C. Taylor  
State Environmental Review Officer

Enclosures





## **Division of Water Comments**

## **Planning Study for the Harrodsburg Northwest Bypass from KY 152 to US 127**

### **Endorsement:**

A request for review of the Planning Study for the Harrodsburg Northwest Bypass from KY 152 to US 127 in Mercer County, Kentucky was received on December 21, 2007. The Division of Water (DOW) completed this review and found that the information provided warranted an endorsement of this project. Below are the comments that were received.

### **Water Quality Branch:**

This area of study and road construction for the Harrodsburg Bypass could cause water quality degradation to Johnson Creek which ultimately flows into Chaplin River. Chaplin River below the mouth of Johnson Creek is an Exceptional Water listed in 401 KAR 5:030 based on mussels and fish. Care should be taken to avoid any drainage to Johnson Creek by this road construction.

### **Groundwater Branch:**

The Kentucky Transportation Cabinet recognizes that construction in karst terrane, which underlies approximately 55% of the state, presents unique challenges because of the inherent sensitivity of karst groundwater. Because of this, they have developed the following to address these challenges, including: KYTC Best Management Practices, the Kentucky Department of Highways Standard Specifications, and the KYTC Generic Groundwater Protection Plan. If, during construction in any area of the state, but especially in moderately-developed karst terrane such as central Kentucky, these measures are found to be inadequate, KYTC is strongly encouraged to consult with the Kentucky Geological Survey and the Groundwater Branch of the Kentucky Division of Water in the development of any new measures that may be necessary.

### **Water Resources Branch:**

Any excess material generated from the project activity, if disposed outside the Right of Way of Department of Highways and in the regulatory floodplain will require permit from DOW per KRS 151.250.

### **Enforcement Branch:**

The Division of Enforcement does not object to the project proposed by the applicant.

**Division of Waste Management Comments**

**Project Number: SERO 2007-31**

All solid waste generated by this project must be disposed at a permitted facility. If underground storage tanks are encountered they must be properly addressed. If asbestos, lead paint, and/or other contaminants are encountered during this project, they must be properly addressed.



**Division for Air Quality Comments**

Kentucky Division for Air Quality Regulation **401 KAR 63:010** Fugitive Emissions states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. Please note the Fugitive Emissions Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm)

Kentucky Division for Air Quality Regulation **401 KAR 63:005** states that open burning is prohibited. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the Open Burning Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm)

The Division also suggests an investigation into compliance with applicable local government regulations.

**Springer, Tom**

---

**From:** Burton, Dale (EPPC DEP DWM) [Dale.Burton@ky.gov]  
**Sent:** Friday, December 07, 2007 9:17 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Cc:** Jump, John (EPPC DEP DWM); Hall, Clifford (EPPC DEP DWM); Webb, April (EPPC DEP DWM); Logsdon, Kenneth (EPPC DEP DWM)  
**Subject:** RE: Planning Study Mercer Co..pdf

We do have some comments on this proposal. The Kidde-Fenwal site, formerly Hallmack-Nutone ("Hallmack"), is located just NW of site #15 (on the last 2 figures in the attachment). The Hallmack site is a hazardous waste facility with groundwater contamination.

Hallmack is outside the project area. However, there is offsite groundwater contamination of trichloroethylene (TCE) at levels above the drinking water standards which originates from Hallmack and probably Signet (which appears to be site #14 on the maps) that surfaces at Humane Spring, which appears to be site #2 on the figures, which is right on the boundary of the project area. Humane Spring is a large spring, but is currently not used for any purpose.

Based on the westerly flow of both groundwater and surface water, it is unlikely the study area would directly impact the contaminated groundwater flow to Humane Spring. Areas that could impact the stream would be between site 2 and the quarry and the portion of the study area connecting 127. The latter area could potentially be at or near a groundwater surface divide.

However, steps should be taken to avoid any disturbance that would in any way affect Humane Spring itself. Humane Spring has signs posted to warn the public not to drink or have contact with the water, and is sampled routinely to monitor the levels of TCE in the spring.

***Dale Burton, PG***

Kentucky Division of Waste Management  
(502) 564-6716 (x284)  
Fax (502) 564-2705

---

**From:** Webb, April (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 1:08 PM  
**To:** Jump, John (EPPC DEP DWM); Burton, Dale (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf

*April J. Webb PE, Manager*

*Hazardous Waste Branch*  
14 Reilly Road  
Bldg 6  
Frankfort, KY 40601  
(502)564-6716 ext 676

---



**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:35 AM  
**To:** Daniell, Robert (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM)  
**Cc:** Funkhouser, Lloyd (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf

Please forward comments on the proposed TC project by COB Fri., Jan. 7. Thx.

---

**From:** Perry, Jennie (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:22 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Subject:** Planning Study Mercer Co..pdf

**Springer, Tom**

---

**From:** Cooley, Tony (EPPC DEP DWM) [Tony.Cooley@ky.gov]  
**Sent:** Wednesday, January 09, 2008 2:37 PM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Cc:** Anderson, Danny (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM)  
**Subject:** RE: Planning Study Mercer Co..pdf  
**Attachments:** harrodsburg bypass.pdf

There are three landfill sites on the eastern boundary of the study area as shown.

The recycling site – AI 39330 is stated as never having had waste disposed there. It has SW 084-00007 as a permit. Owned and operated by Mercer Co. and City of Harrodsburg.

The Corning Glass site – AI 43582 is an industrial dump for Corning glass, It has SW 084-00003 and SW 084-00006 permits.

The Harrodsburg Site – AI 71316 has little info. According to D. Sample who visited the site in 2001, it was operated by City of Harrodsburg, operational by 1970. He observed two spots with exposed glass. Property owned by Alvin Alderson. It has SW 084-00001 as a permit.

I noted that the DOT attachment "Planning Study Mercer Co..pdf" had illustrations on pages 6 and 7 showing these three landfills, but in the wrong locations. These appear to have been generated by GIS. Bryan Bunch has created a solid waste landfills theme using data drawn directly from my database that is updated by query I think on a weekly basis. This is the "Solid Waste Landfills" theme in the EPPC layers of the EPPC GIS Portal. The query generates an attribute table containing permit no., AI no., primary landfill name, and various status and other information about the landfills. I made the above attachment using this theme. This theme provides current information as it is generated weekly from the unique place where we maintain our own data on the landfills. I don't mind looking up and providing summary data on landfills, but as long as DOT is generating a GIS map that shows landfills, they should be pointed to a source of more accurate data. Their landfills theme is out of date. They can contact Bryan Bunch at 564-6743 ext 178 or at [Bryan.Bunch@ky.gov](mailto:Bryan.Bunch@ky.gov) for information on obtaining access to this theme.

***Tony L. Cooley P.E., P.G.***

Environmental Engineer II  
EPPC-DEP Division of Waste Management  
Solid Waste Branch, Closure Section  
502-564-6716 or  
502-564-8158 ext 298 direct

---

**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Tuesday, January 08, 2008 2:14 PM  
**To:** Gruzesky, Ron (EPPC DEP DWM); Daniell, Vinetta  
**Cc:** Funkhouser, Lloyd (EPPC DEP DWM); Cooley, Tony (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf

Any comments? I need then by COB Friday, if possible.

---

**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:35 AM  
**To:** Daniell, Robert (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM)

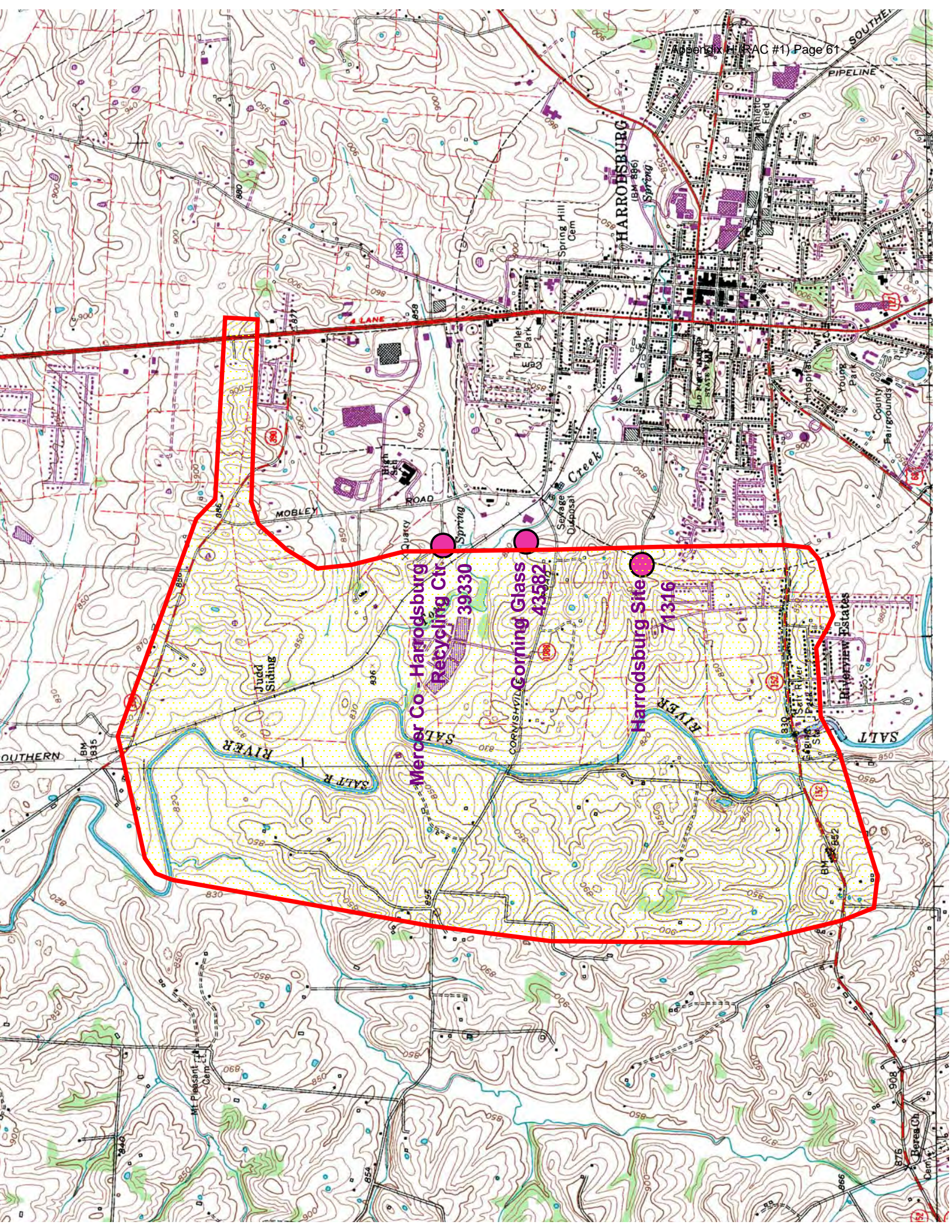
**Cc:** Funkhouser, Lloyd (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf

Please forward comments on the proposed TC project by COB Fri., Jan. 7. Thx.

---

**From:** Perry, Jennie (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:22 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Subject:** Planning Study Mercer Co..pdf









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**From:** Baase, Dawn (EPPC DEP DWM)  
**Sent:** Monday, December 10, 2007 12:46 PM  
**To:** Daniell, Robert (EPPC DEP DWM)  
**Subject:** RE: Planning Study Mercer Co..pdf

UST Branch sends the following comments regarding Item No. 7-8344.00

The USTB identified one (1) facility (AI# 59095) with one (1) registered tank that was removed in 1996 and NFA'd in 2005. The facility is located at the following coordinates along the eastern edge of the project area (37.775833 / -84.860278). It appears there are no facilities undergoing corrective actions within the project area.

Please notify the UST Branch if additional information is required.

*Dawn Langford Baase*  
*AEI Section, USTB*  
*Division of Waste Management*  
*81 C. Michael Davenport Blvd*  
*Frankfort, KY 40601*  
*phone: 502-564-5981 ext. 250*  
*fax: 502-564-5047*





**Springer, Tom**

---

**From:** Sherkat, Fazi (EPPC DEP DWM) [Fazi.Sherkat@ky.gov]  
**Sent:** Friday, December 21, 2007 8:13 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Cc:** Gritton, Sharon (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf  
**Attachments:** Planning Study Mercer Co..pdf; Superfund Mercer Co sites as of 12-20-2008.xls

George,

Attached is a list of SF sites in Mercer Co. Please send the future inquiry of this nature to Sharon Gritton. She will run the report and send it to you. Have a Merry Christmas. Fazi

---

**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:35 AM  
**To:** Daniell, Robert (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM)  
**Cc:** Funkhouser, Lloyd (EPPC DEP DWM)  
**Subject:** FW: Planning Study Mercer Co..pdf

Please forward comments on the proposed TC project by COB Fri., Jan. 7. Thx.

---

**From:** Perry, Jennie (EPPC DEP DWM)  
**Sent:** Thursday, December 06, 2007 11:22 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Subject:** Planning Study Mercer Co..pdf

Selected Report Condition(s):																								
AI County = 'Mercer'																								
AI ID	AI Name	SI County	AAZZ#	SI Desg	SI Description	Regulatory Desc	Site Status	Closure Opt	Closure Dt	SI Long.	SI Lat.	AI Addr Line	AI Addr Line	AI City	AI St	AI Zip	AI Lat	AI Long	AI County	SI Addr Line	SI Addr Line	SI City	SI St	SI Zip
3143	Corning Inc	Mercer		1	32364	CORNING I State Superfund	Closed	Option C Re #####				680 E Office St		Harrodsburg	KY	40330	37.757500	-84.829444	Mercer	680 EAST OFFICE ST		Harrodsburg	KY	
3148	KY Utilities Co - Brown S			1	17562	KENTUCKY State Superfund	Active					815 Dix Dam Rd		Harrodsburg	KY	40330	37.787778	-84.713056	Mercer	NONE				
3150	Mercer Co S	Mercer		2		92 MOA State Superfund	Active			-84.85056	37.76667	356 Magnolia St		Harrodsburg	KY	40330	37.766111	-84.850556	Mercer	455 W. Factory Street		Harrodsburg	KY	40422
3153	Modine Mar	Mercer		1	20396	SIGNET SY State Superfund	Active			-84.85111	37.78000	551 Tapp Rd		Harrodsburg	KY	40330	37.778056	-84.851944	Mercer	551 TAPP RD		Harrodsburg	KY	403330
51747	Cruisemart I	Mercer		1	109379	CRUISEMA Petroleum Cleanup	Closed	Option C Re #####		-84.84412	37.76385	222 W Lexington St		Harrodsburg	KY	40330	37.763850	-84.844120	Mercer	222 West Lexington Stre		Harrodsburg	KY	40330
51891	Sunrise Shore Drum			1	12687	SUNRISE S State Superfund	Closed	Unfounded #####		-84.76667	37.75333	None		Burgin	KY	40310	37.753330	-84.766670	Mercer	NONE				
52448	Kentucky Ut	Mercer		1	53996	KENTUCKY Petroleum Cleanup	Closed	Option A No #####		-84.70917	37.79056	510 Dix Dam Rd		Burgin	KY	40310	37.790560	-84.709170	Mercer	510 DIX DAM RD		Burgin	KY	40310
52539	Salvisa Drur	Mercer		1	114245	SALVISA DI State Superfund	Closed	Option C Re #####		-84.83486	37.91441	Oregon Road		Salvisa	KY	40330	37.914410	-84.834860	Mercer	Oregon Road		Salvisa	KY	40330
52612	Harrodsburg National Gt			1	47813	HARRODSE Petroleum Cleanup	Closed	Option A No #####		-84.84333	37.76222	Tapp Rd		Harrodsburg	KY	40330			Mercer	NONE				
52839	White Motor	Mercer		1	1859	WHITE MOI Petroleum Cleanup	Closed	Option C Re #####		-84.76164	37.75218	108 Danville St		Burgin	KY	40310	37.752180	-84.761640	Mercer	Intersection of Rt. 152 &		Burgin	KY	40310
52955	Watts & Durr Bulk Plant			1	41754	WATTS & D Petroleum Cleanup	Closed	Option A No #####				NONE		NONE	KY	11111			Mercer	NONE				
53023	National By Products			1	47967	NATIONAL Petroleum Cleanup	Closed	Option C Re #####		-84.84333	37.76222	NONE		NONE	KY	11111			Mercer	NONE				
53058	Pandora Cave			1	51207	PANDORA I Petroleum Cleanup	Closed	Option A No #####		-84.84333	37.76222	NONE		NONE	KY	11111			Mercer	NONE				
53112	Powell Ashland Oil			1	30736	POWELL AS Petroleum Cleanup	Closed	Option A No #####		-84.84333	37.76222	UNKNOWN		UNKNOWN	KY	00000			Mercer	NONE				
53458	US 68 Tank			1	45640	HIGHWAY E State Superfund	Closed	Option C Re #####		-84.84333	37.76222	None		Harrodsburg	KY	40330	37.762220	-84.843330	Mercer	NONE				
53494	Harrodsburg Property			1	20494	HARRODSE State Superfund	Closed	Option C Re #####		-84.84333	37.76222	S Main St & E Lexington		Harrodsburg	KY	40330	37.762220	-84.843330	Mercer	NONE				
53554	US 127 S - Mullings Lan			1	46952	U.S. 127S/M State Superfund	Closed	Option C Re #####		-84.84333	37.76222	MM 9 US 127 S		Harrodsburg	KY	40330	37.762220	-84.843330	Mercer	NONE				
53623	Pittman Property			1	46727	PITTMAN P State Superfund	Closed	Option C Re #####		-84.84333	37.76222	195 Bradford Ln		Harrodsburg	KY	40330	37.762220	-84.843330	Mercer	NONE				
53634	Hughley Ln - Mercer Co			1	20583	HUGHLEY I State Superfund	Closed	Option C Re #####		-84.84333	37.76222	Hughley Ln		Harrodsburg	KY	40330	37.762220	-84.843330	Mercer	NONE				
82519	Sac's Wreck	Mercer		1		Wrecker yar Wrecker yar Petroleum Cleanup	Active			-84.80000	37.76000	3179 Cornishville Road		Harrodsburg	KY	40330	37.785889	-84.948083	Mercer	3179 Cornishville Road		Harrodsburg	KY	40330
Total Number		20																						





JAN 22 2008

**ENVIRONMENTAL AND PUBLIC PROTECTION CABINET****Steven L. Beshear**  
Governor**Division of Conservation**  
375 Versailles Road  
Frankfort, Kentucky 40601  
Phone: (502) 573-3080  
Fax: (502) 573-1692  
[www.conservation.ky.gov](http://www.conservation.ky.gov)**Robert D. Vance**  
Secretary**Stephen A. Coleman**  
Director

January 18, 2008

**Mr. Daryl Greer, P.E.**  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
5<sup>th</sup> Floor  
Frankfort, KY 40622**Subject:** Planning Study for Harrodsburg Northwest Bypass

Dear Mr. Greer:

As requested, the Division of Conservation has reviewed the proposed study for a new bypass in Mercer County from KY 152 to US 127 north of Harrodsburg. We would like to provide the following comments and express concerns that may be helpful in this initial data-gathering stage.

There are no agricultural districts established within the study area, however, there is one agricultural district, 084-07, (see enclosed map) located adjacent to the study area along KY 390. This district was certified by the Kentucky Soil and Water Conservation Commission on May 21, 2003 in order to conserve, protect, develop, and improve agricultural land for production of food, fiber, and other agricultural products. Under KRS 262.850(12) state agencies must mitigate any impact their programs may have on land in agricultural districts.

Also within the adjacent agricultural district are four agricultural easements (see enclosed map) indicated by blue shaded areas. These easements were acquired by the Purchase of Agricultural Conservation Easement Corporation to ensure that land currently in agricultural use will continue to remain available for agricultural use and not be converted to other uses. Again the agricultural district and the four PACE easements are outside of the immediate study area but close enough that we wanted your agency to be aware of their location.

We would like to see the issue of the loss of farmland addressed. Every year pressure imposed by utility right-of-ways, urban expansion, and new roads reduce the land available for agricultural use in the Commonwealth. There are two documents that could be utilized to identify prime farmland and farmland of statewide importance: the *Soil Survey Boyle and Mercer County* (NRCS 1983), and *Important Farmland Soils of Kentucky* (NRCS 1981). Both documents are available through this office. The soil survey information can also be downloaded at the following web sites: <http://soildatamart.nrcs.usda.gov/> or <http://websoilsurvey.nrcs.usda.gov>.

**Mr. Daryl Greer**  
**January 18, 2008**  
**Page Two**

One other concern we would like to comment on is the control of erosion and sedimentation during and after earth-disturbing activities once this project begins. We recommend best management practices (BMPs) be utilized to prevent nonpoint source water pollution. This would protect the water quality and aquatic habitat of the perennial and intermittent streams that this project could impact.

The manual, *Best Management Practices for Construction Activities*, contains information on the kinds of BMPs most appropriate for this project and is available through the Mercer County Conservation District, the Kentucky Division of Water, or this office. Also an electronic version of the *Kentucky Erosion Prevention and Sediment Control Field Guide* is available online at <http://www.water.ky.gov/sw/nps/Publications.htm>

We appreciate the opportunity to comment on this project. If you have any questions, please contact this office any time.

Sincerely,

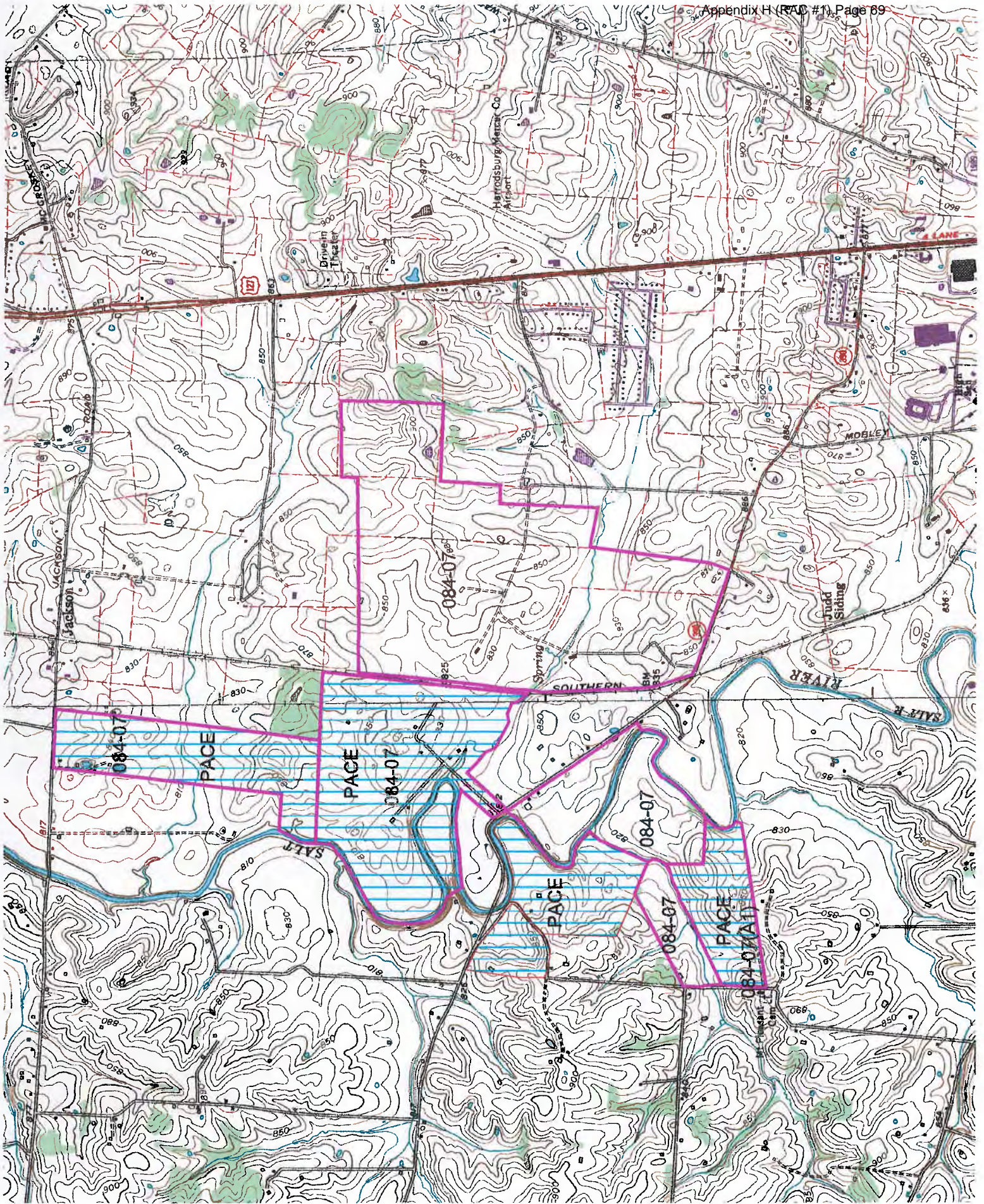


Stephen A. Coleman, Director  
Kentucky Division of Conservation

SAC/MD/aeH

Enclosure











DEC 14 2007

## ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

**Ernie Fletcher**  
Governor

**Department for Natural Resources**  
2 Hudson Hollow  
Frankfort, Kentucky 40601  
Phone: (502) 564-6940  
Fax: (502) 564-5698  
[www.eppc.ky.gov](http://www.eppc.ky.gov)  
[www.dnr.ky.gov](http://www.dnr.ky.gov)

**Teresa J. Hill**  
Secretary

**Susan C. Bush**  
Commissioner

December 10, 2007

Daryl J. Greer, P. E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

Subject: **Planning Study – KY 152 to US 127**  
**Harrodsburg Northwest Bypass in Mercer County**  
**Item No. 07-8344.00**

Dear Mr. Greer:

Thank you for the opportunity to comment on the planning study project located in Mercer County referenced in your communication of November 30, 2007.

Review of the project location does not indicate the presence of any proposed, active or abandoned mining activities in the vicinity of the study area.

I appreciate the notification and the opportunity to comment on the proposal. If you have any questions regarding this correspondence, please contact Pam Carew at (502) 564-2340.

Sincerely,

Paul Rothman, Director  
Division of Mine Reclamation and Enforcement

PR/pbc







RECEIVED

FEB 04 2008

## JUSTICE AND PUBLIC SAFETY CABINET

Steven L. Beshear  
Governor

Kentucky Vehicle Enforcement  
Frankfort, Kentucky 40601

J. Michael Brown  
Secretary

Gregory G. Howard  
Commissioner

January 31, 2008

Mr. Daryl J. Greer, P.E.  
Division of Planning  
Transportation Cabinet  
200 Mero Street  
Frankfort, KY 40622

Dear Mr. Greer:

We are in receipt of your letter requesting any input that Kentucky Vehicle Enforcement might have in regards to a planning study in Mercer County, item no. 07-8344.00, on KY 152 to US 127, Harrodsburg Northwest Bypass.

After having my staff research the matter, we recommend that the proposed roadway be deemed a designated route considering it will take away much of the commercial traffic from the roadways inside the city.

If you need any further information, please do not hesitate to let us know.

Sincerely,

A handwritten signature in blue ink, appearing to read "G. Howard".

Gregory G. Howard  
Commissioner  
Department of Kentucky Vehicle Enforcement



JAN 15 2008



## KENTUCKY STATE POLICE

**Steve Beshear**  
Governor

919 Versailles Road  
Frankfort, Kentucky 40601  
[www.kentucky.gov](http://www.kentucky.gov)

**Rodney Brewer**  
Commissioner

**Kentucky State Police  
Post 7  
699 Eastern By-Pass  
Richmond, Kentucky 40475  
Phone 859-623-2404**

January 11, 2008

Mr. Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Metro Street, 5<sup>th</sup> Floor  
Frankfort, Kentucky 40601

Mr. Greer:

We have surveyed the area encompassing the proposed Northern bypass in Harrodsburg, Kentucky. We have identified no concerns or issues with this project.

Feel free to contact our agency if we can be of further assistance to you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Capt. Jeff Mayberry".

Captain Jeff Mayberry, Unit 21  
Commander, Post 7





JAN 15 2008



## KENTUCKY STATE POLICE

**Steve Beshear**  
Governor

919 Versailles Road  
Frankfort, Kentucky 40601  
[www.kentucky.gov](http://www.kentucky.gov)

**Rodney Brewer**  
Commissioner

**Kentucky State Police  
Post 7  
699 Eastern By-Pass  
Richmond, Kentucky 40475  
Phone 859-623-2404**

January 11, 2008

Mr. Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Metro Street, 5<sup>th</sup> Floor  
Frankfort, Kentucky 40601

Mr. Greer:

We have surveyed the area encompassing the proposed Northern bypass in Harrodsburg, Kentucky. We have identified no concerns or issues with this project.

Feel free to contact our agency if we can be of further assistance to you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Capt. Jeff Mayberry".

Captain Jeff Mayberry, Unit 21  
Commander, Post 7







U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Memphis Airports District Office  
2862 Business Park Dr, Bldg G  
Memphis, TN 38118-1555  
Phone: 901-322-8180

January 10, 2008

**RECEIVED**

Daryl J. Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, KY 40622

JAN 14 2008

Dear Mr. Greer:

This is in response to your letter to Mr. Phillip Braden dated November 30, 2007 requesting information on any impacts to airports as a result of a proposed new northwest bypass of Harrodsburg, KY from KY 152 to US 127.

The Danville – Boyle County airport Danville, KY is in the vicinity but does not appear to be affected by the proposed project. As long as construction activities do not exceed 200 feet in height above ground level, there do not appear to be any impacts on Federal Aviation Administration facilities and no Notice of Proposed Construction will be required.

Thank you for the opportunity to review the proposal.

Sincerely,

  
Michael L. Thompson  
Program Manager





## *Mercer Co. Emergency Management*

Mercer Co. Courthouse  
P.O. Box 760  
Harrodsburg, Kentucky 40330  
Phone (859) 734-6333  
Fax 859-734-0237



January 10, 2008

**RECEIVED**

JAN 11 2008

Mr. Daryl J. Greer, P.E.  
Director  
Division of Planning  
Transportation Cabinet  
Frankfort, KY 40622

Dear Mr. Greer:

Subject: Planning Study  
Mercer County  
Harrodsburg Northwest Passage  
KY 152 to US 127  
Item No. 07-8344.00

Responding to your letter of November 30, 2007, subject as above, we are herein providing the following comments and concerns:

The purpose and goals of this project are definitely needed and will greatly benefit the problems associated with traffic flow through Harrodsburg.

Our concerns are with non-local drivers attempting to bypass Harrodsburg coming from the north on US 127. These drivers will be funneled into town on KY 152, which will take them to the "Y" intersection of KY 152 and US 68. This intersection is already difficult to navigate, even for local drivers, becoming a bottleneck during peak traffic hours. Adding non-local traffic, especially long-haul trucks would pose an even more significant traffic problem at this intersection.

Additionally, south bound long-haul truck traffic that manages to get to the following intersection of US 68 and College Street (US 127) will find it impossible to make the right turn required to continue south toward Danville.

A handwritten signature in black ink, appearing to read "Jon F. Jones".

Jon F. Jones  
Director  
Mercer County Emergency Management Agency







**JAN 07 2008**

**COMMERCE CABINET  
KENTUCKY HERITAGE COUNCIL**

**Steve Beshear**

~~XXXXXXXXXX~~  
~~Ernie Fletcher~~

Governor

**The State Historic Preservation Office**

300 Washington Street  
Frankfort, Kentucky 40601  
Phone (502) 564-7005  
Fax (502) 564-5820  
www.kentucky.gov

**Marcheta Sparrow**

~~XXXXXXXXXX~~  
~~George Ward~~

Secretary

**Donna M. Neary**

Executive Director and  
State Historic Preservation Officer

January 3, 2008

Mr. Daryl J. Greer  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
Frankfort, KY 40622

**Re: Planning Study, Harrodsburg Northwest Bypass, KY 152 to US 127, Mercer County (Item No. 7-8344.00)**

Dear Mr. Greer:

The State Historic Preservation Office has received a request for comments regarding the above-referenced planning study. There are many significant cultural resources within the project area, including the National Register of Historic Places (NRHP) listed sites, as well as many inventoried sites that have yet to be evaluated by professional architectural historians. Additionally, there are a number of previously recorded archeological sites within the project corridor, and most of this area has never been surveyed by professional archaeologists.

Dependent up on the funding source, whether federally-funded or subject to Corps of Engineers permits, the Section 106 Review Process must be completed. A full survey of both archaeological and cultural resources should be conducted and submitted to this office for review, via the KYTC Central Office Division of Environmental Analysis.

We look forward to reviewing the archaeological and cultural resource reports. If you have questions regarding these comments, please contact Janie-Rice Brother of my staff at (502) 564-7005, extension 121.

Sincerely,

Donna M. Neary, Executive Director  
Kentucky Heritage Council and  
State Historic Preservation Officer

Cc: Amanda Abner, KYTC-DEA  
JRB: jrb





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KENTUCKY DEPARTMENT OF FISH & WILDLIFE RESOURCES JAN 10 2008  
COMMERCE CABINET

Steven L. Beshear  
Governor

#1 Sportsman's Lane  
Frankfort, Kentucky 40601  
Phone (502) 564-3400  
1-800-858-1549  
Fax (502) 564-0506  
fw.ky.gov

Marcheta Sparrow  
Secretary

Dr. Jonathan W. Gassett  
Commissioner

January 7, 2008

Daryl J. Greer, P. E.  
Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
5<sup>th</sup> Floor  
Frankfort, KY 40622

RE: Planning Study  
Mercer County  
Harrodsburg, Northwest Bypass  
KY 152 to US 127  
Item No. 7-8344.00

Dear Mr. Greer:

The Kentucky Department of Fish and Wildlife Resources (KDFWR) have received your request for the above-referenced information. The Kentucky Fish and Wildlife Information System indicates that no federal/state threatened and/or endangered fish and wildlife species are known to occur within close proximity to the project area. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions. We recommend that you contact the U. S. Fish & Wildlife Service Kentucky Field Office at 502-695-0468 for consultation under the Endangered Species Act.

It appears that the proposed project has the potential to impact wetland habitats. KDFWR recommends that you look at the appropriate US Department of Interior National Wetland Inventory Map (NWI) and the appropriate county soil surveys to determine where the proposed project may impact wetlands. Additionally, field verification may be needed to determine the extent and quality of wetland habitats within the project area. Any planning should include measures designed to eliminate and/or reduce impacts to wetland habitats. If impacts cannot be avoided, mitigation should be properly designed and proposed to offset the losses. KDFWR will recommend, at a minimum, a 2:1 mitigation ratio for any permanent loss or degradation of wetland habitats.

KDFWR recommends that you contact the appropriate US Army Corps of Engineers office and the Kentucky Division of Water prior to any work within the waterways or wetland habitats of Kentucky. Additionally, KDFWR recommends the following for the portions of the project that impact streams:

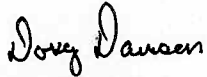
- Channel changes located within the project area should incorporate natural stream channel design.
- If culverts are used, the culvert should be designed to allow the passage of aquatic organisms.



- Culverts should be designed so that degradation upstream and downstream of the culvert does not occur.
- To compensate for unavoidable impacts to streams, we recommend that possible stream mitigation sites be identified on-site or within the Upper Salt River drainage. Restoration of those sites should incorporate natural stream channel design along with the restoration of its associated riparian areas.
- Development/excavation during low flow period to minimize disturbances.
- Proper placement of erosion control structures below highly disturbed areas to minimize entry of silt into area streams.
- Replanting of disturbed areas after construction, including stream banks, with native vegetation for soil stabilization and enhancement of fish and wildlife populations. We recommend a 100 foot forested buffer along each stream bank.
- Return all disturbed instream habitat to a stable condition upon completion of construction in the area.
- Preservation of any tree canopy overhanging any streams within the project area.

I hope this information proves helpful to you. If you have any questions or require additional information, please call me at (800) 852-0942 Extension 366.

Sincerely,



Doug Dawson  
Wildlife Biologist III

Cc: Environmental Section File





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DEC 28 2007

**CABINET FOR HEALTH AND FAMILY SERVICES  
FACILITIES MANAGEMENT DIVISION****Steven L. Beshear**  
Governor275 E. Main Street, 4E-C  
Frankfort, KY 40621  
(502) 564-6631  
Fax: (502) 564-2608  
www.chfs.ky.gov**Ellen M. Hesen**  
Secretary

December 26, 2007

Kentucky Transportation Cabinet  
Dept. of Highways  
Mr. Daryl J. Greer, P.E., Director Division of Planning  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, Ky. 40622

Subject: Harrodsburg Northwest Bypass Planning Study  
KY 152 to US 127

Mr. Greer;

The Kentucky Transportation Cabinet has asked that we identify specific issues or concerns which may affect the development of a road improvement project in Mercer County; the project would involve improvements in the Harrodsburg Northwest Bypass. We have reviewed the project location map, the existing area highway management system data, geometric and traffic characteristics of the existing highways, and crash analysis provided by your office.

The Cabinet for Health and Family Services does not lease or own property located within the Harrodsburg Northwest Bypass; therefore, we do not anticipate or have any specific issues or concerns with regards to this proposed project.

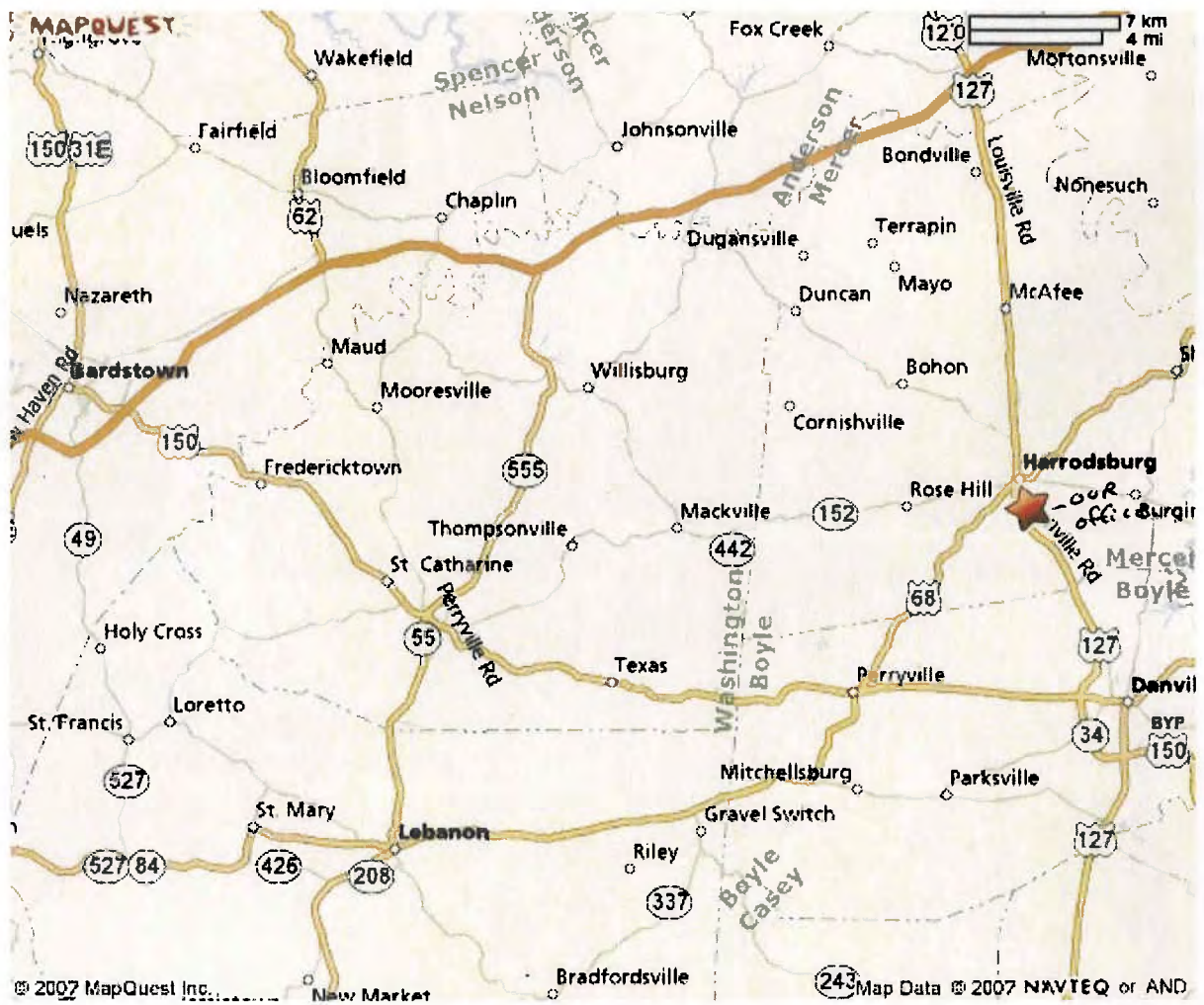
Thank you for giving consideration to our facilities, staff, and clients.

Sincerely,



Robert W. Wright  
Leased Properties Branch

Cc: file



667 Beaumont Plz  
Harrodsburg KY  
40330-2139 US



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JAN 04 2008

**CABINET FOR HEALTH AND FAMILY SERVICES  
OFFICE OF THE SECRETARY**

**Steven L. Beshear**  
Governor

275 E. Main Street, 5W-A  
Frankfort, KY 40621  
(502) 564-7042  
Fax: (502) 564-7091  
[www.chfs.ky.gov](http://www.chfs.ky.gov)

**Ellen M. Hesen**  
Acting Secretary

December 27, 2007

Mr. Daryl J. Greer, P.E., Director  
Division of Planning  
KY Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, Kentucky 40622

Dear Mr. Greer:

Thank you for the opportunity to provide input on the planning studies to determine the need and potential impacts for proposed highway projects in Mercer County (07-8344.00) and Boyd County (9-129.0).

The Cabinet's Department of Public Health recommends that the local health departments in each county be contacted to determine the impact on septic systems located within the areas impacted by the projects. The local health departments should also be able to advise on the impact of any water run off from the expansion of roadways.

Please contact me or Deputy Secretary Nunn at 564-7042 if you have any questions or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ellen M. Hesen".

Ellen M. Hesen  
Acting Secretary

Copy to: Steve Nunn







UNIVERSITY OF KENTUCKY

Appendix H (RAC #1) Page 91  
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**DEC 28 2007**

**Kentucky Geological Survey**  
*Research*  
228 Mining & Mineral Resources Bldg.  
Lexington, KY 40506-0107  
Phone: (859) 257-5500  
Fax: (859) 257-1147  
[www.uky.edu/kgs](http://www.uky.edu/kgs)

December 18, 2007

Daryl J. Greer, P.E.  
Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Mr. Greer:

This letter is to summarize any geologic concerns for the planning study:

Mercer County  
Harrodsburg Northwest Bypass  
Item No. 07-83444.00

**Physiographic Region**

This planning area is in the Bluegrass physiographic region, which is underlain by limestone, shale, silt, clay, sand, and gravel.

**Land-Use Planning Map**

For a good geologic (with physical parameters) overview of the area, refer to the county land-use planning map at [www.uky.edu/KGS](http://www.uky.edu/KGS).

On the home page, click on GIS and Maps.

On this page, click on County Land-Use Planning Maps.

On this page, click on the county of interest on the index map. A viewable and downloadable PDF of the land-use county map will be displayed.

**Karst Potential**

This planning area would encounter karst features such as sinkholes and caves.

**Landslide Potential**

This planning area would encounter shales that are highly susceptible to slumping when they become wet. This condition is particularly prevalent on steep slopes.

**Unconsolidated Sediments**

This planning area would encounter unconsolidated sediments in drainage areas.



**Resource Conflicts**

This planning area should not encounter any resource conflicts such as prior ownership of property for quarrying or mining.

**Materials Suitability**

This planning area would not encounter any rock units that would be suitable as construction stone.

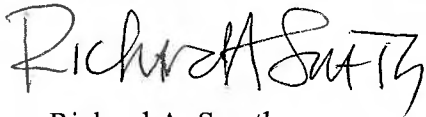
**Fault Potential**

This planning area would encounter faulted areas in the northern part.

**Earthquake Ground Motions**

This planning area has probable peak ground acceleration (PGA) due to earthquake ground motion of 0.09g. There would be a low potential for liquefaction or slope failure in the unconsolidated sediments at or near streams caused by earthquake bedrock ground motion.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard A. Smath". The signature is written in a cursive, flowing style.

Richard A. Smath  
Geologist



**Steven L. Beshear**  
Governor

**TRANSPORTATION CABINET**  
Frankfort, Kentucky 40622  
www.kentucky.gov

**Joseph W. Prather**  
Secretary

May 29, 2008

«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»  
«Title»  
«Organization»  
«Address1»  
«Address2»  
«City» «State» «Zip»

Dear «Letter\_Title» «Last\_Name»:

Subject: Planning Study  
Mercer County  
Harrodsburg Northwest Bypass  
KY 152 to US 127  
Item No. 07-8344.00

We are requesting your agency's input and comments on a planning study to determine the need and potential impacts for a proposed highway project. The Kentucky Transportation Cabinet has assembled a study team to evaluate a proposed northwest bypass of Harrodsburg in Mercer County, Kentucky. Several schools and industries are located in the northwest quadrant of Harrodsburg. This concentration of trip origins and destinations at similar times of the day contributes to traffic congestion in the vicinity. The Norfolk Southern Railroad also runs through Harrodsburg carrying more than 20 trains per day. The unique "diagonal" routing of this rail line results in multi-directional street blockages during passage of these trains. The primary goals of this project are to improve transportation system connectivity, provide grade separated railroad crossings, and reduce congestion on area roadways. Several bypass alternatives, as well as other short-term non-bypass projects have been developed for this study.

We recently asked that you identify specific issues or concerns of your agency that could affect the development of the project as bulleted below:

- Comments on the project goals or purpose and need for the project.
- Significant issues or concerns in the project area that may need to be addressed so that the project can be adequately scoped.



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Page 2

May 29, 2008

- Any conservation or development plans your agency or organization has ongoing or is aware of in the project area.
- Locations of any known areas, issues, or resources within the project area that should be considered when developing alternatives so that impacts can be avoided, minimized, or mitigated early in the process.
- Any mitigation strategies that should be considered in the development of the project.

This planning study included a scoping process for the early identification of potential alternatives, environmental issues, and impacts related to the proposed project. Early identification of these issues or concerns helped us develop preliminary highway project alternatives. Using those responses and other data and information, several improvement alternatives were developed, as shown in the enclosed documents. **Now to continue the scoping process, we are requesting that you provide comments on the proposed improvement alternatives and/or specific comments concerning the bulleted items above as they relate to the proposed improvement alternatives.**

We respectfully ask that you provide us with your comments by June 30, 2008, to ensure timely progress in this planning effort.

During the development of this planning study, comments will be solicited from federal, state, and local agencies, as well as other interested persons and the general public, in accordance with principles set forth in the National Environmental Policy Act (NEPA) of 1969. The Federal Highway Administration is partnering with us in these efforts.

Other Transportation Cabinet offices or consultants working on behalf of the Transportation Cabinet may also contact you seeking more detailed data or information to assist them in completing their environmental studies for this phase of the project.

We have enclosed the following project information for your review and comment:

- Study Purpose, Issues, and Draft Project Goals
- Project Location Map
- Bypass Alternatives E, F, H, and J
- List of Short - Term, Non-Bypass Projects
- Map of Short - Term, Non-Bypass Projects



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Page 3

May 29, 2008

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Thomas Witt of the Division of Planning at (502) 564-7183 or at [Thomas.Witt@ky.gov](mailto:Thomas.Witt@ky.gov). Please address all written correspondence to Daryl J. Greer, P.E., Director, Division of Planning, Kentucky Transportation Cabinet, 200 Mero Street 5<sup>th</sup> Floor, Frankfort, KY 40622.

Sincerely,



Daryl J. Greer, P.E.  
Director  
Division of Planning

DJG/JCW/NH

Enclosures

c: Jose Sepulveda, FHWA (w/e)  
Mary Murray, FHWA (w/e)  
Bruce Duncan, BGADD (w/e)  
Tom Springer, Qk4 (w/e)  
Bob Lewis  
Stuart Goodpaster  
Phil Logsdon  
David Waldner  
Ananias Calvin



Mailing Title	Letter Title	First Name	Last Name	Suffix	Title	Organization	Address1	Address2	City	State	Zip
Mr	Mr	Philip	Braden		District Office Manager	Memphis Airports District Office Federal Aviation Administration	2862 Business Park Drive Bldg G		Memphis	TN	38118-1555
Mr	Sir and/or Madam	Edward W.	Tomlin		Brigadier General	American Association of Truckers	Boone Nat'l Guard Ctr., 100 Minuteman Pky.	P O Box 487	Benton	KY	42025
Mr	Mr	Jamie	Link		Acting Commissioner	Department of Military Affairs	10th Floor, Capital Plaza Tower		Frankfort	KY	40601
Mr	Mr	George	Crothers		Director, Office of State Archaeology	Department of Parks	211 Lafferty Hall	500 Mero Street	Frankfort	KY	40601
Mr	Mr	William	Straw	Ph D	Regional Environmental Officer	Federal Emergency Management Agency, Region IV	3003 Chambers-Tucker Road		Lexington	KY	40506-0024
Mr	Mr	Jack	Fish		President	Kentuckians for Better Transportation	10332 Bluegrass Parkway		Lexington	KY	40506-0024
Ms	Sir and/or Madam	Janie	Miller		Secretary	Kentuckians for The Commonwealth	105 Reams Street		Atlanta	GA	30341-4130
Ms	Ms	Randall	Royer		Interim Chairman	Cabinet for Health and Family Services	275 East Main	P O Box 1450	Louisville	KY	40269
Mr	Mr	Bob	Arnold		Executive Director	Kentucky Airport Zoning Commission	Capital City Airport		London	KY	40743
Mr	Mr	Dave	Adisson		President	Kentucky Association of Counties	360 King's Daughters Drive		Frankfort	KY	40601
Mr	Mr	Richie	Farmer		Commissioner	Kentucky Chamber of Commerce Executives, Inc.	464 Cherault Road		Frankfort	KY	40601
Mr	Mr	Bruce	Scott		Commissioner	Kentucky Department of Agriculture	32 Fountain Place		Frankfort	KY	40601
Dr	Dr	Jonathan	Gassett		Commissioner	Kentucky Department for Environmental Protection	300 Fair Oaks Lane		Frankfort	KY	40601
Ms	Ms	Susan	Bush		Commissioner	Kentucky Department of Fish and Wildlife Resources	1 Sportsmans Lane		Frankfort	KY	40601
Mr	Mr	Stephen A.	Coleman		Director	Kentucky Department of Nat'l Resources	#2 Hudson Hollow		Frankfort	KY	40601
Mr	Mr	Rodney	Brewer		Commissioner	Kentucky Department of Nat'l Resources, Division of Conservation	#2 Hudson Hollow		Frankfort	KY	40601
Mr	Mr	Paul	Rothman		Director	Kentucky Department of State Police	919 Versailles Road		Frankfort	KY	40601
Mr	Mr	Chase	Foster		President	Division of Mine Reclamation and Enforcement	# 2 Hudson Hollow	P O Box 1589	Frankfort	KY	40601
Mr	Mr	John	Lyons		Director	Kentucky Disabilities Coalition			Frankfort	KY	40602-1589
Ms	Ms	Leah W	MacSwords		Director	Kentucky Division of Air Quality	803 Schenkel Lane		Frankfort	KY	40601
Mr	Mr	Greg	Howard		Commissioner	Kentucky Division of Forestry	627 Comanche Trail		Frankfort	KY	40601
Mr	Mr	Tony	Hutton		Acting Director	Kentucky Department of Vehicle Enforcement	125 Holmes Street, 3rd Floor		Frankfort	KY	40622
Ms	Ms	Sandy	Guzesky		Acting Director	Kentucky Department of Waste Management	14 Reilly Road		Frankfort	KY	40601
Mr	Mr	John	Hindman		Secretary	Kentucky Division of Water	Old Capitol Annex	300 West Broadway	Frankfort	KY	40601
Mr	Mr	Jim	Cobb		State Geologist & Director	Kentucky Geological Survey, University of Kentucky	228 Mining and Mineral Resources Bldg		Frankfort	KY	40509
Ms	Ms	Donna M.	Kort		Executive Director & State Historic Preservation Officer	Kentucky Heritage Council	300 Washington Street		Frankfort	KY	40601
Mr	Mr	Mike	Whithorn		Executive Director	Kentucky Historical Society	100 W. Broadway		Frankfort	KY	40601
Mr	Mr	Margeot	Margeot		President/CEO	Kentucky Association of Economic Development	2225 Lawrenceburg Road Bldg B, Suite 4		Frankfort	KY	40601-8489
Ms	Ms	Sylvia L	Lovely		Executive Director	Kentucky League of Cities, Inc	101 East Vine Street, Ste. 800		Frankfort	KY	40507
Mr	Mr	Jamie	Fipke		President/CEO	Kentucky Motor Transport Association	617 Shelby Street		Lexington	KY	40601
Mr	Mr	Robert D.	Vance		Secretary	Kentucky Environmental and Public Protection Cabinet	Capital Plaza Tower, 5th Floor		Frankfort	KY	40601
Mr	Mr	Donald S.	Dott	Jr	Executive Director	Kentucky Nature Preserves	801 Schenkel Lane		Frankfort	KY	40601
Ms	Ms	Vickie	Bourne		Executive Director	Kentucky Office of Transportation Delivery	Transportation Office Building, 3rd Floor	200 Mero Street	Frankfort	KY	40622
Mr	Mr	Beecher	Hudson		Executive Director	Kentucky Public Transit Association	c/o Louisville Red Cross	P O Box 1675	Louisville	KY	40201
Ms	Sir and/or Madam	Marchela	Sparrow		President	Kentucky Tourism Council	612B Shelby Street		Frankfort	KY	40601
Mr	Ms	Alan	Frank		Secretary	Kentucky Commerce Cabinet	Capital Plaza Tower, 24th Floor	500 Mero Street	Frankfort	KY	40601
Ms	Ms	Greta	Smith		Director	KYTC, Division of Structural Design	Transportation Office Building, 3rd Floor	200 Mero Street	Frankfort	KY	40622
Mr	Mr	David	Wadner		Director	KYTC, Division of Construction	Transportation Office Building, 3rd Floor	300 Mero Street	Frankfort	KY	40622
Mr	Mr	Bill	Broyles		Branch Manager	KYTC, Division of Environmental Analysis	Transportation Office Building, 5th Floor	300 Mero Street	Frankfort	KY	40622
Mr	Mr	Diane	Thomas		Director	KYTC, Geotechnical Branch	1236 Wilkerson Boulevard		Frankfort	KY	40601-1200
Mr	Mr	Nancy	Albright		Director	KYTC, Division of Traffic Operations	Transportation Office Building, 3rd Floor	200 Mero Street	Frankfort	KY	40622
Ms	Ms	Tiffany	Jackson		Director	KYTC, Division of Maintenance	Transportation Office Building, 3rd Floor	200 Mero Street	Frankfort	KY	40622
Ms	Ms	Helen	Mourby		Secretary	KYTC, Office of Special Programs	Transportation Office Building, 6th Floor	200 Mero Street	Frankfort	KY	40622
Mr	Mr	James	Adridge		Director	Education Cabinet	Capital Plaza Tower, 2nd Floor		Frankfort	KY	40601
Ms	Mr	Keith P	Eiken		Executive Director	Nature Conservancy - Kentucky Chapter	642 West Main Street	c O Box 2646	Lexington	KY	40508
Mr	Mr	William	Aguto		NEPA Team Leader	Scenic Kentucky		1650 Arch Street	Louisville	KY	40201
Mr	Sir and/or Madam	Kenneth A.	Westlake		Chief	Environmental Programs Branch	U.S. EPA Region 3		Philadelphia	PA	19103
Mr	Mr	Heinz	Mueller		Attorney	Sierra Club	259 West Short Street		Lexington	KY	40607
Mr	Mr	Michael D	Hubbs		State Conservationist	National Environmental Policy Act Implementation Section	Office of Enforcement and Compliance Assistance, U.S. EPA Region 5	77 W. Jackson Boulevard	Chicago	IL	60604
Mr	Mr	Kenneth W	Holt			U.S. Environmental Protection Agency, Region 4 Office	Sam Nunn Atlanta Federal Center	61 Forsyth St. SW	Atlanta	GA	30303
Mr	Mr	Lee	Andrews			U.S. Dept. of Agriculture, Natural Resources Conservation Service	711 Corporate Drive, Suite 110		Lexington	KY	40503
Mr	Mr	Roger	Wibusch		Field Supervisor	U.S. Dept. of Health & Human Serv., Center for Disease Control, Emergency and Environmental Health Services Division	Mail Stop F-16	4770 Buford Highway, N.E.	Atlanta	GA	30341-3724
The Honorable	Senator	Roger	Bunning		Bridge Administrator	United States Coast Guard, Bridge Branch	330 W. Broadway, Suite 264		Frankfort	KY	40601
The Honorable	Senator	Jim	Winn		United States Senator	United States Senate	1222 Spruce Street		St. Louis	MO	63101
Colonel	Colonel	Mitch	McConnell		United States Senator	United States Senate	316 Hart Senate Office Building		Washington	DC	20515
The Honorable	Congressman	Raymond E	Chandler		District Engineer	United States Senate	361-A Russell Senate Office Building	P.O. Box 59	Washington	DC	20515
Ms	Ms	Ben	Chandler		Field Office Director	U. S. Army Corps of Engineers, Louisville District	1117 Longworth House Office Building		Louisville	KY	40204
Ms	Ms	Krista	Mills		Kentucky Division Administrator	U. S. House of Representatives	601 West Broadway		Washington	DC	20515
Ms	Ms	Pamela	Rice		Executive Director	Federal Motor Carrier Safety Administration	300 West Broadway, Suite 264		Louisville	KY	40204
Mr	Mr	Bill	Laly		Executive Director	Kentucky Household Goods Carrier Association Inc	P.O. Box 22204		Frankfort	KY	40601
Mr	Mr	Tony	Reck		President & CEO, P&L Railway, Inc.	Kentucky State Rail Association	1500 Kentucky Avenue		Louisville	KY	40204
Ms	Ms	Linda Stille	Murnane		Executive Director	Kentucky Commission on Human Rights	332 West Broadway, Suite 700		Louisville	KY	40204
Mr	Mr	Siever	Suder		Planning Team Leader	FHWA - Eastern Federal Lands Highway Division	21400 Ridgeway Circle		Sterling	VA	20156
Mr	Mr	John D	Trisler		Mayor	City of Harrodsburg	134 South Main Street		Harrodsburg	KY	40330
The Honorable	Mayor	Lonnie	Campbell		Mayor	City of Harrodsburg	208 South Main Street		Harrodsburg	KY	40330
The Honorable	Representative	Mikward	Dedman		Kentucky State Representative, District 55	Kentucky State Legislature	309 South Chiles Street		Harrodsburg	KY	40330
The Honorable	Senator	Dan	Kelly		Kentucky State Senator, District 14	Kentucky State Legislature	324 West Main Street		Harrodsburg	KY	40330
Mr	Mr	J B	Clunich		Magistrate	Mercer County Fiscal Court	2750 Tanager-Mayo Road		Springfield	KY	40069
Mr	Mr	Ronnie	Sims		Executive Director	Mercer County Fiscal Court	346 Rose Hill Lane		Salvisa	KY	40372
Ms	Ms	Brenda	Sexton		Executive Director	Mercer County Chamber of Commerce	488 Price Avenue		Harrodsburg	KY	40330
Mr	Mr	Kevin	Perkins		Commissioner	City of Harrodsburg	551 Chesapeake Drive		Harrodsburg	KY	40330
Mr	Mr	Eddie	Long		Commissioner	City of Harrodsburg	810 East Lexington Street		Harrodsburg	KY	40330

Mr.	Mr.	Bruce	Johnson		Superintendent		Harrodsburg	371 East Lexington Street		Harrodsburg	KY	40330
Mr.	Mr.	Mike	Preston		Transportation Director		Harrodsburg	371 East Lexington Street		Harrodsburg	KY	40330
Mr.	Mr.	Dave	Weber		Acting EMA Director		Harrodsburg	PO Box 760		Harrodsburg	KY	40330
Mr.	Mr.	Glen	Philips		Fire Chief		Harrodsburg	200 Norris Drive		Harrodsburg	KY	40330
Mr.	Mr.	Billy	Humphrey		Supervisor		Harrodsburg	894 Moberly Road		Harrodsburg	KY	40330
Dr.	Dr.	Earl	Motzer		CEO		Harrodsburg	464 Linden Avenue		Harrodsburg	KY	40330
Mr.	Mr.	Roy	Short		Chair		Harrodsburg	P.O. Box 79		Salvisa	KY	40372
Ms.	Ms.	Linda	McClanahan		Extension Agent for Agriculture & Natural Resources		Harrodsburg	P.O. Box 324		Harrodsburg	KY	40330
Mr.	Mr.	Terry	Sampson		President		Harrodsburg	P.O. Box 316		Harrodsburg	KY	40330
Ms.	Ms.	Lora	Gilkinson		City of Harrodsburg Engineer (GRW, Inc.)		Harrodsburg	801 Corporate Drive		Lexington	KY	40503
Mr.	Mr.	Bill	Durham		E-911 Coordinator		Harrodsburg	208 South Main Street		Harrodsburg	KY	40330
Mr.	Mr.	Ernie	Kelly		Police Chief		Harrodsburg	411 North Greenville Street		Harrodsburg	KY	40330
Ms.	Ms.	Elizabeth	Volaw		Plant Manager		Harrodsburg	965 Cornishville Road		Harrodsburg	KY	40330
Ms.	Ms.	Karen	Hackett		Executive Director		Harrodsburg	P.O. Box 283		Harrodsburg	KY	40330
Mr.	Mr.	Del	White		Executive Director		Harrodsburg	488 Price Avenue, Suite 4		Harrodsburg	KY	40330
Mr.	Mr.	Shawn	Moore		Executive Director		Harrodsburg	109 Short Street		Harrodsburg	KY	40330
Mr.	Mr.	Jim	Kazmierczak		Engineer, Public Improvements		Harrodsburg	1200 Peachtree, NE		Atlanta	GA	30309
Mr.	Mr.	David	Wyatt		Systems Engineer		Harrodsburg	1200 Peachtree, NE		Atlanta	GA	30309
Mr.	Mr.	Chris	Brewer		Vice President of Engineering		Harrodsburg	P.O. Box 990		Nicholsville	KY	40340
Mr.	Mr.	Danny	Collier		Engineer		Harrodsburg	1009 Hustonville Road		Danville	KY	40423
Mr.	Mr.	David	Phelps		System Engineer		Harrodsburg	1009 Hustonville Road		Danville	KY	40423



# STUDY PURPOSE, ISSUES, AND DRAFT PROJECT GOALS

## HARRODSBURG NORTHWEST BYPASS MERCER COUNTY

### STUDY PURPOSE

The purpose of the Harrodsburg Northwest Bypass Scoping Study is to identify and evaluate potential corridors for a new or improved route in the northwest quadrant of Harrodsburg between US 127 and KY 152. The "Enacted Kentucky Six-Year Highway Plan FY 2007 – 2012" includes no further project development activity other than the Scoping Study. The study is further intended to help define the purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA). Tasks included in this study include:

- Discuss project needs and issues with the Project Team and a Steering Committee of local officials and other interested stakeholders,
- Define project goals,
- Identify any known environmental concerns,
- Identify and evaluate potential alternative locations for a northwest bypass, and
- Recommend a preferred location (or alternative locations) to be further examined in any subsequent project development phases.

### ISSUES

Major issues and concerns have been identified within the study area that will be addressed in the Scoping Study. These include:

- Several schools and industries are located in the northwest quadrant of Harrodsburg. A new Mercer County High School is being constructed near the corner of KY 390 (Industry Road) and Moberly Road. This concentration of trip origins and destinations at similar times of the day contributes to traffic congestion in the vicinity.
- Emergency response travel times to the James B. Haggin Memorial Hospital and to other locations are lengthened by congestion along and west of US 127.
- At-grade railroad crossings of the Norfolk Southern Railroad, which runs through Harrodsburg from northwest to southeast, carry more than twenty trains daily. The unique "diagonal" routing of this rail line results in multi-directional street blockages during passage of these trains.
- Location of any northwest bypass in Harrodsburg should be compatible with possible future expansion south of KY 152 and connecting with US 127 south.

### DRAFT PROJECT GOALS

For the Harrodsburg Northwest Bypass project, several draft project goals have been identified. These include:

- Improve Transportation System Connectivity,
- Provide Grade Separated Railroad Crossings,
- Reduce Congestion on Area Roadways, and
- Facilitate Future Expansion to the South.

### CONTACTS

Address written comments to:

Daryl Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
Station W5-05-01  
200 Mero Street  
Frankfort, KY 40622

Or, you may contact by phone or e-mail:

Jim Wilson, P.E.  
Project Engineer  
Division of Planning  
Kentucky Transportation Cabinet  
(502) 564-7183  
[jimmy.wilson@ky.gov](mailto:jimmy.wilson@ky.gov)

Visit our web page at: <http://transportation.ky.gov/planning>

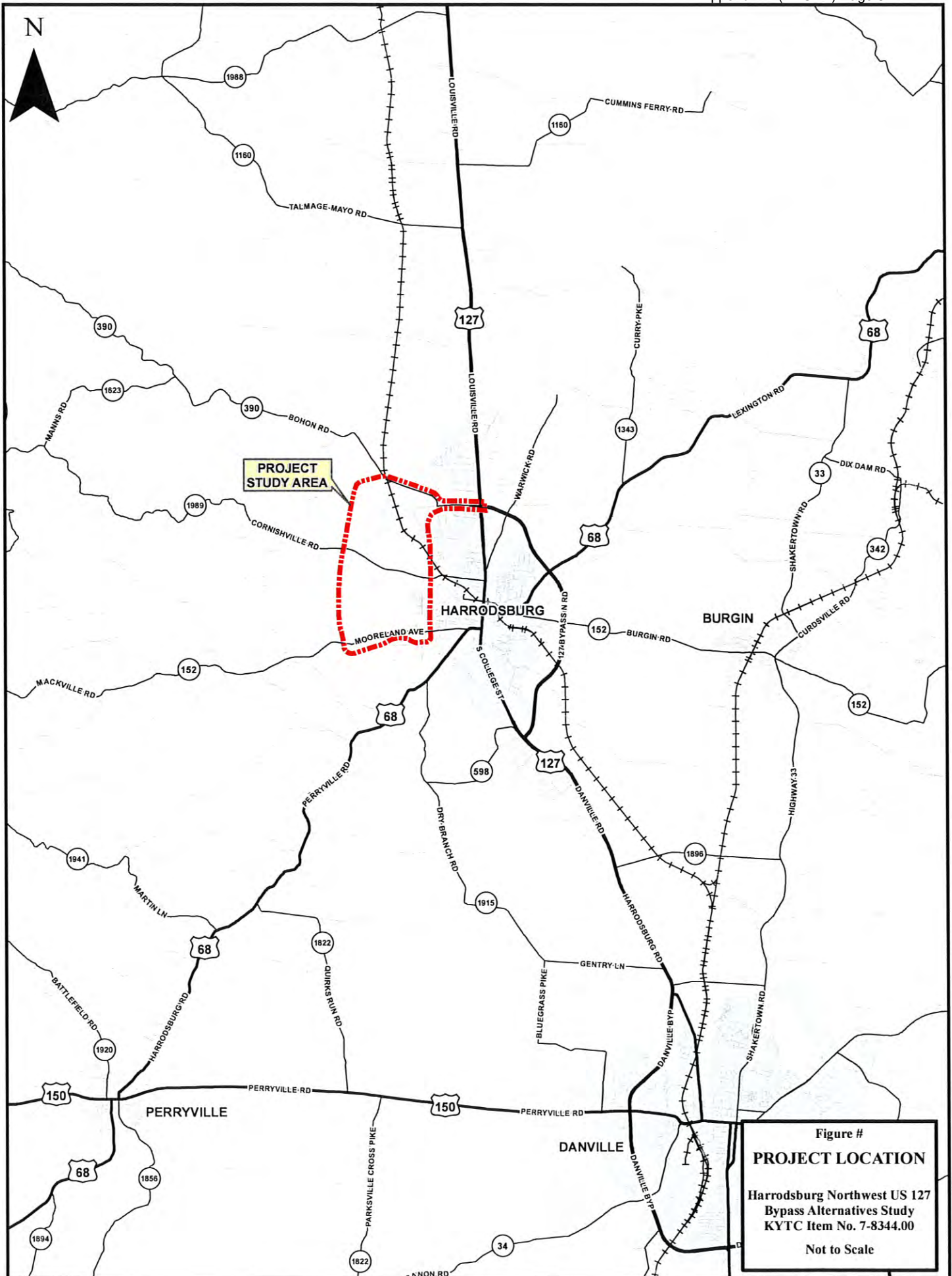
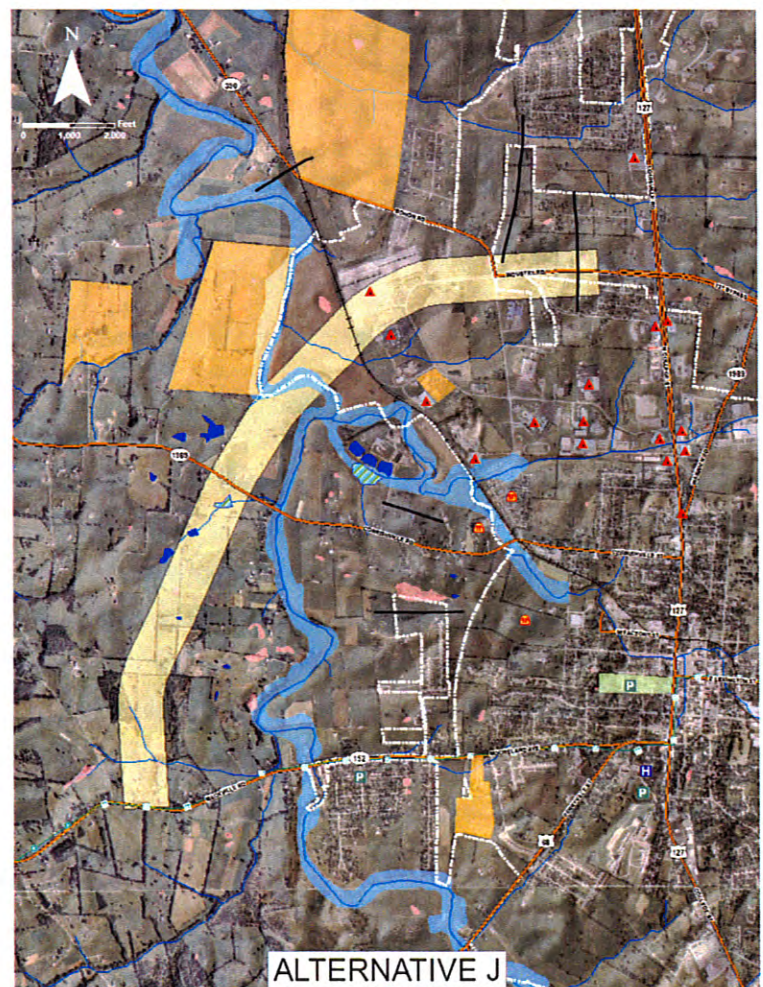
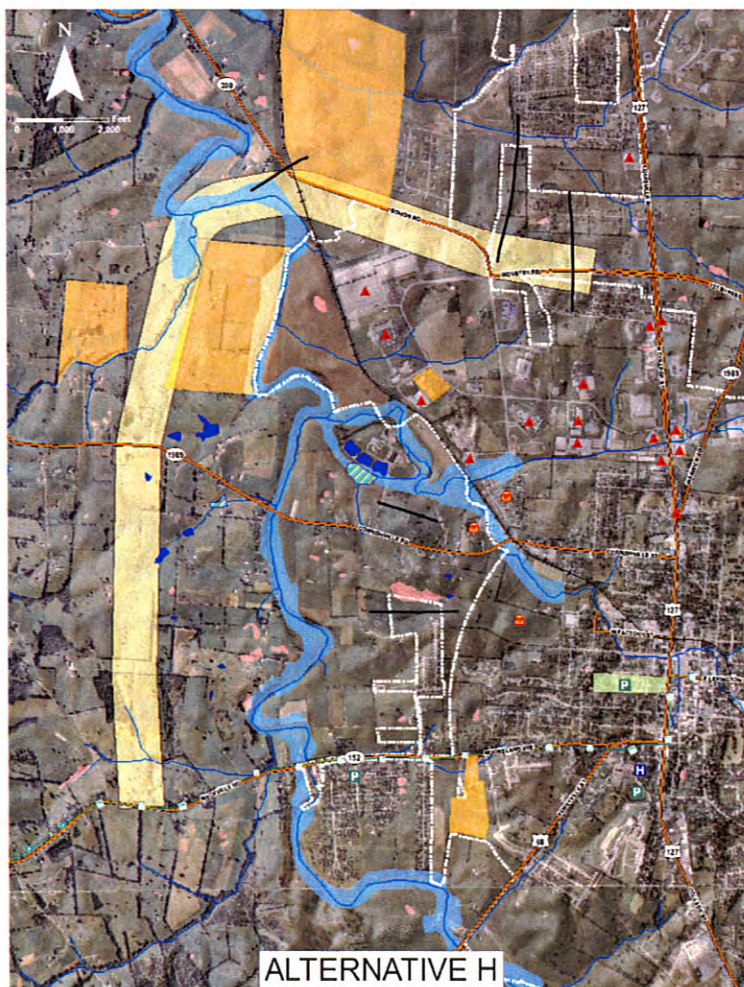
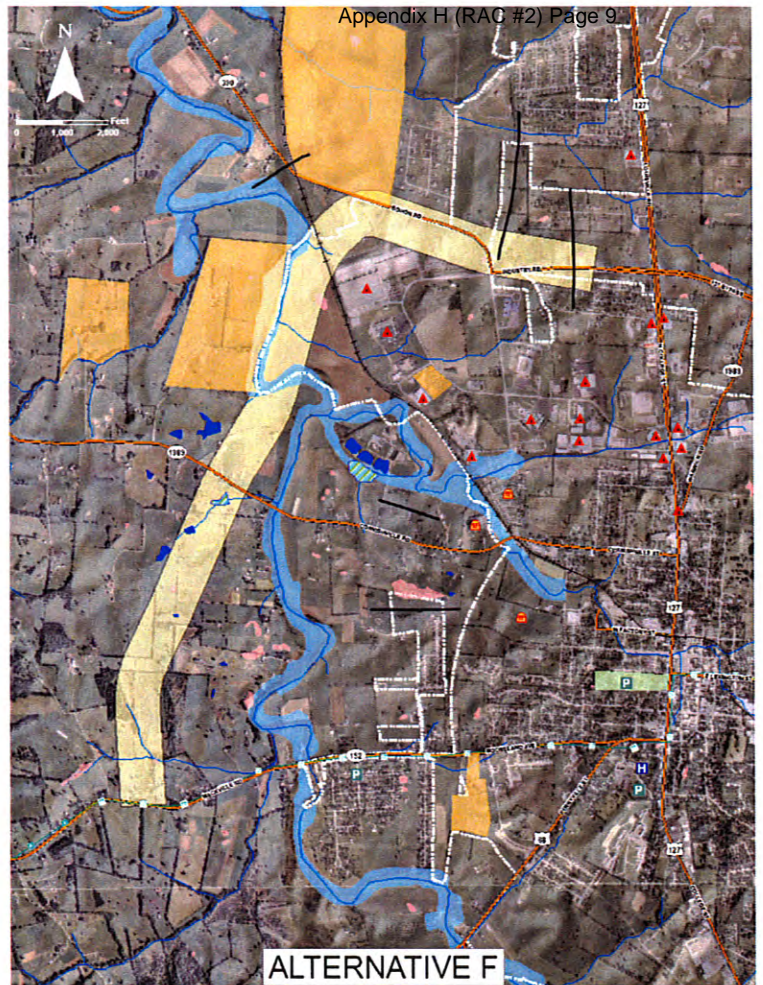
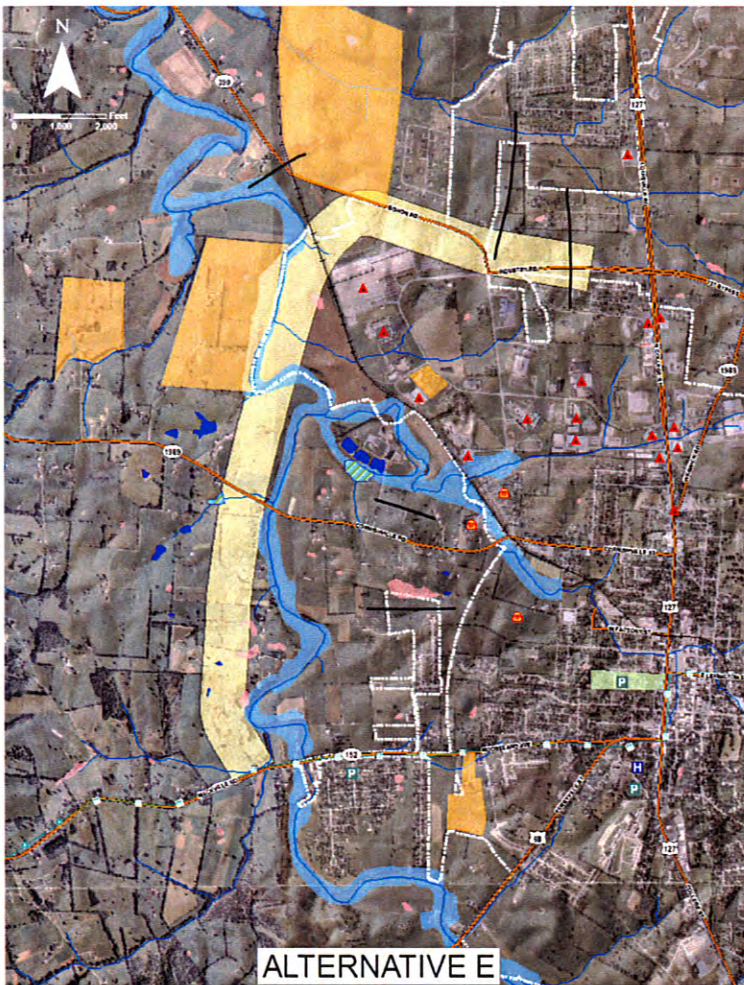


Figure #  
**PROJECT LOCATION**  
 Harrodsburg Northwest US 127  
 Bypass Alternatives Study  
 KYTC Item No. 7-8344.00  
 Not to Scale





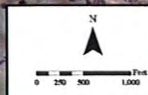


List of short-term projects (in lieu of a bypass) in the study area:

1. Widen Moberly Road from KY 390 to KY 1989 as a stand-alone project
2. Reconstruct Moberly Road/KY 1989 intersection
  - a. with railroad overpass
  - b. without railroad overpass
3. Improvements to KY 1989 from RR east to College Street
4. Improvements to KY 1989 from RR west to Tewmeyer Lane
5. Improve Access from KY 1989 near or west of Tewmeyer Lane to Wausau Paper, Trim Masters, and US 127 North as a Stand-Alone project
6. Improvements to KY 152 from Tewmeyer Lane to US 127
7. Construct new 2-lane connector from KY 1989 near Moberly Road to KY 152 near Parkway Avenue
  - a. Extend Broadway west to new route
8. Rebuild Tewmeyer Lane as an improved 2-lane road
9. Consider additional signalization
  - a. KY 390 and Moberly Road
  - b. Moberly Road and Tapp Road (city project)
  - c. KY 1989 and Moberly Road



- Improvement Options**
- ★ Intersection Improvement
  - 🚦 Additional Signalization
  - 🟢 Re-build 2-Lane Road
  - 🟡 New 2-lane Connector
  - 🔴 Short Term Reconstruction
  - 🔵 Road Widening



**OTHER NORTHWEST QUADRANGLE OPTIONS**  
 Harrodsburg Northwest US 127  
 Bypass Alternatives Study  
 KYTC Item No. 7-8344.00

- ✈ Airport
- ☠ Cemetery
- ⛪ Church
- 🏞 Park
- 🏥 Hospital
- 🎓 School
- 🗑 Landfill
- ⚠ HAZMAT
- 📏 Faults (24%)
- 🚲 Bike Trail
- 🚊 Active Rail
- 🌊 Stream
- 🌊 Ponds
- 🌊 Wetlands
- 🌊 Potential Flood Area
- 🌊 Sink Hole Area
- 🏡 Potential Historic Property
- 📍 Study Area





**Environmental Review Process  
Resource Agencies Responding (2nd Mailing)**

	Agency	Date	Response
1	Federal Aviation Administration	7/1/2008	No Impact anticipated to the nearest airport which is Danville-Boyle County Airport
2	US Natural Resources Conservation Service	6/13/2008	Recommend contact local NRCS representative and provided Mercer County soils data
3	US Coast Guard	7/1/2008	No Impact
4	Kentucky Division of Forestry	6/25/2008	No Impact
5	Kentucky Department of Fish and Wildlife Resources	6/12/2008	Recommended to contact USDFW, USACOE, and suggested recommendations for mitigating stream impacts
6	Kentucky Department of Agriculture	6/23/2008	Recognized the information, but provided no comment
7	Kentucky Department of Military Affairs	6/5/2008	No Impact
8	KY EPPC DEP DWM (UST) Branch	6/6/2008	Identified one (1) facility with one (1) removed underground storage tank in the area
9	KY EPPC DEP Division of Waste Management	6/9/2008	Provided a map of landfills in the vicinity of the study area; any waste generated must be properly disposed of
10	KY EEC DEP Division of Air Quality	6/17/2008	Fugitive Emissions Regulation and open burning is prohibited except under certain circumstances; must meet Clean Air Act
11	KY EPPC Division of Water	7/11/2008	Recommend that groundwater not be adversely affected
12	KY EEC DEP Division of Air Quality	7/11/2008	Fugitive Emissions Regulation and open burning is prohibited except under certain circumstances; must meet Clean Air Act
13	Kentucky Heritage Council SHPO	7/2/2008	Recommend that the area be surveyed by an archaeologist and a historian and two copies of the report be submitted to SHPO
14	Kentucky Airport Zoning Commission	6/2/2008	No negative effect on air navigation; however if equipment usage exceeds 200' AGL, a permit must be obtained
15	KYTC Geotechnical	6/24/2008	No issues with any improvement options
16	Kentucky Geological Survey	6/27/2008	Summarization of any geologic concerns for the study area
17	Kentucky Education Cabinet	7/10/2008	No Input
18	Kentucky TAHC Dept of Parks	6/18/2008	No Impact
19	Kentucky Justice and Public Safety Cabinet (KVE)	6/24/2008	Recommend roadway be named a designated route
20	Kentucky State Police	7/2/2008	Provided several comments: Most significant concern is public safety







U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

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JUL 08 2008

Appendix H (RAC #2) Page 15

Memphis Airports District Office  
2862 Business Park Dr, Bldg G  
Memphis, TN 38118-1555  
Phone: 901-322-8180

July 1, 2008

Mr. Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Department of Transportation  
200 Mero Street  
Frankfort, KY 40622

Re: Planning Study, Mercer County, Harrodsburg Northwest Bypass  
KY 152 to US 127 Item No. 07-8344.00

Dear Mr. Greer:

We have reviewed the proposed study and found no issue or concerns that could affect the nearest airport (Danville-Boyle County Airport) in that area. We feel, from your proposal, that this project will have no environmental impact for future airport development. We would like to be notified if any changes should occur from the original studies.

Thank you for considering our opinion in your study and if you have any question feel free to call our office.

Sincerely,

James H. Williams  
Program Manager





Natural Resources Conservation Service  
771 Corporate Drive, Suite 210  
Lexington, KY 40503

**RECEIVED**

JUN 20 2008

June 13, 2008

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, KY 40622

RE: Planning Study, Mercer County, Harrodsburg, Northwest Bypass

Dear Mr. Greer:

In regards to the above study, the USDA-Natural Resources Conservation Service (NRCS) is concerned with potential impacts that the proposed project might have upon prime farmland soils and additional farmlands of statewide importance. If federal dollars are to be used to convert important farmlands from agricultural uses to non-agricultural uses a Form AD-1006 (or Form NRCS-CPA-106 if the project is a corridor type project) must be submitted to the local NRCS office. These forms may be obtained from the local NRCS office and are also available as electronic forms on the web at [http://www.nrcs.usda.gov/programs/fppa/pdf\\_files/AD1006.PDF](http://www.nrcs.usda.gov/programs/fppa/pdf_files/AD1006.PDF) and [http://www.nrcs.usda.gov/programs/fppa/pdf\\_files/CPA106.pdf](http://www.nrcs.usda.gov/programs/fppa/pdf_files/CPA106.pdf).

Enclosed is a CD containing ArcView GIS shapefiles of soils information for Mercer County. The GIS shapefiles are in UTM projection, nad83, zone 16. The soil database table includes a column for "farmland classification-all components" (farmclac) that identifies prime farmlands and soils of statewide importance. A legend file has been provided (farmland\_classif.avl), which may be used with GIS software to more clearly display the soils that are considered prime farmlands and soils of statewide importance.

The NRCS contact person for Mercer County is Robert Campbell, district conservationist, 859-734-6889. Mr. Campbell can assist in identifying important farmlands in the proposed project area.

Sincerely,

A handwritten signature in blue ink that reads "Donald J. Pettit".

DONALD J. PETTIT  
Acting State Conservationist

Enclosure: CD (1)

cc: Jacob Kuhn, Assistant State Conservationist, Lexington, KY  
J. David Stipes, Area Conservationist, Lexington, KY  
Robert Campbell, District Conservationist, Harrodsburg, KY

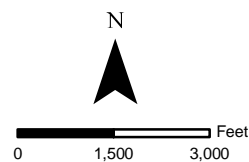
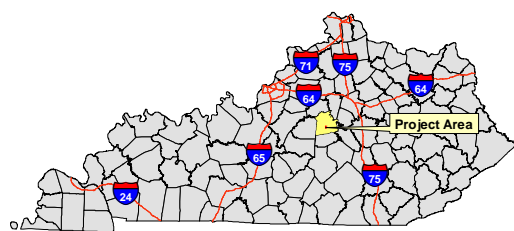
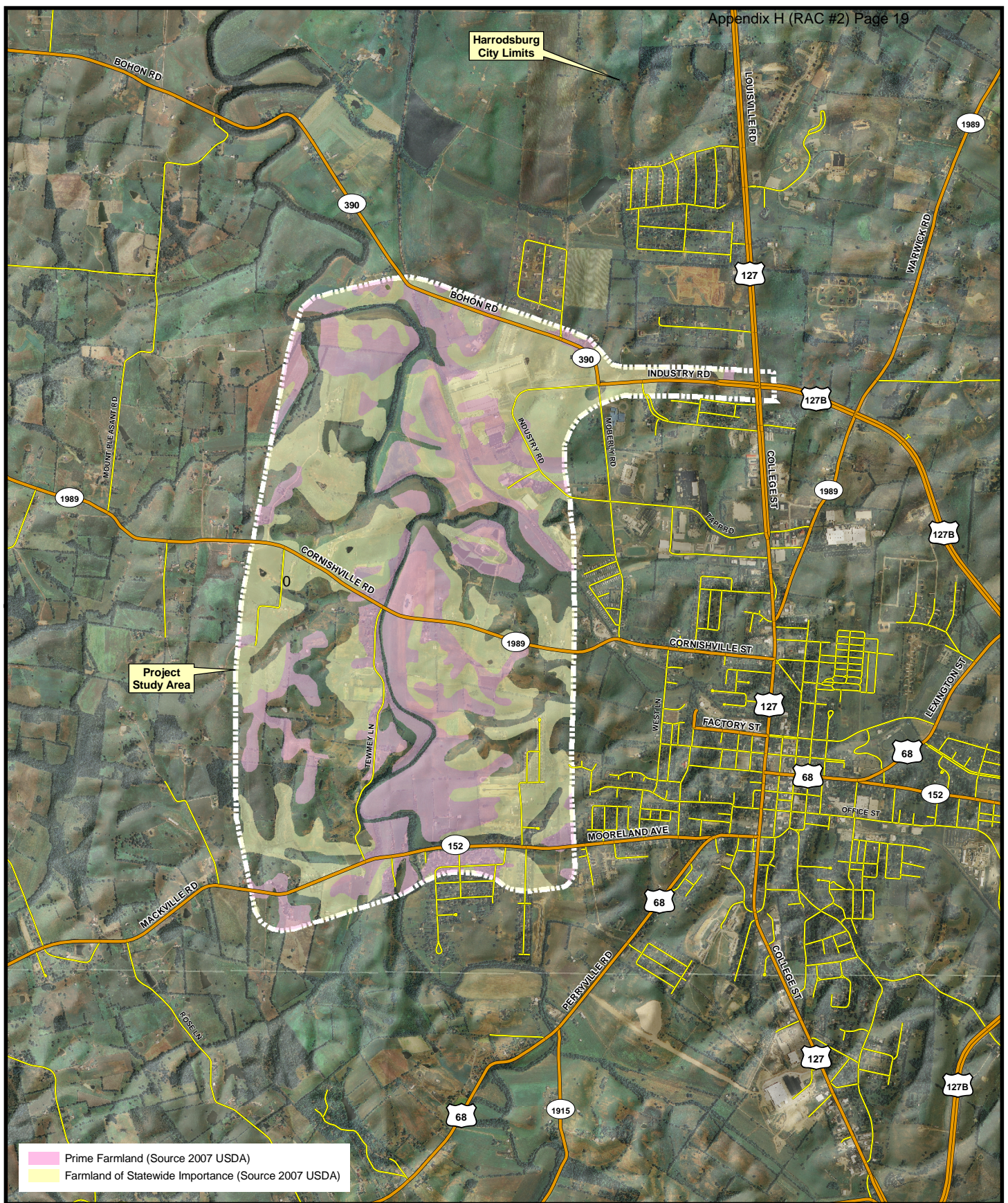
*Helping People Help the Land*

An Equal Opportunity Provider and Employer









**STUDY AREA**  
**USDA FARMLAND**  
 Harrodsburg Northwest US 127  
 Bypass Alternatives Study  
 Mercer County, Kentucky  
 KYTC Item No. 7-8344.00





U.S. Department of  
Homeland Security

United States  
Coast Guard



Commander  
Eighth Coast Guard District

Appendix H (RAC #2) Page 21  
1222 Spruce Street  
St. Louis, MO 63103-2832  
Staff Symbol: dwb  
Phone: (314)269-2378  
Fax: (314)269-2737  
Email:

16591.1/Salt River  
July 1, 2008

Mr. Daryl Greer  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, KY 40622

Subj: HARRODSBURG ROADWAY IMPROVEMENT PROJECT, SALT RIVER

Dear Mr. Greer:

Please refer to your correspondence of May 29, 2008. We have determined that pursuant to the Coast Guard Authorization Act of 1982, the subject project does not involve bridges over navigable waters of the United States. Therefore, a Coast Guard bridge permit is not required for this project.

We appreciate the opportunity to comment on the project.

Sincerely,

A handwritten signature in blue ink, appearing to read "DKL Wiebusch".

ROGER K. WIEBUSCH

Bridge Administrator

By direction of the District Commander





## Heberle, Doug

---

**From:** Witt, Thomas (KYTC) [Thomas.Witt@ky.gov]  
**Sent:** Wednesday, June 25, 2008 3:12 PM  
**To:** Heberle, Doug; Goodpaster, Stuart (KYTC-D07); Martin, David (KYTC); Springer, Tom; Turner, Randy (KYTC-D07); Zimmerman, Albert  
**Subject:** FW: Mercer County Planning Study; Harrodsburg Northwest Bypass - Response from KY Division of Forestry

---

**From:** MacSwords, Leah (EEC)  
**Sent:** Wednesday, June 25, 2008 2:41 PM  
**To:** Witt, Thomas (KYTC)  
**Subject:** Mercer County Planning Study; Harrodsburg Northwest Bypass

No significant forest resources affected by this bypass.

**Leah W. MacSwords**  
**Director/State Forester**  
Kentucky Division of Forestry  
627 Comanche Trail  
Frankfort, KY 40601  
ph: 502-564-4496, 800-866-0555  
fax: 502-564-6553





JUN 17 2008

**KENTUCKY DEPARTMENT OF FISH & WILDLIFE RESOURCES  
COMMERCE CABINET****Steven L. Beshear**  
Governor#1 Sportsman's Lane  
Frankfort, Kentucky 40601  
Phone (502) 564-3400  
1-800-858-1549  
Fax (502) 564-0506  
fw.ky.gov**Marcheta Sparrow**  
Secretary**Dr. Jonathan W. Gassett**  
Commissioner

June 12, 2008

Daryl J. Greer, P. E.  
Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
5<sup>th</sup> Floor  
Frankfort, KY 40622RE: Planning Study  
Mercer County  
Harrodsburg, Northwest Bypass  
KY 152 to US 127  
Item No. 7-8344.00

Dear Mr. Greer:

The Kentucky Department of Fish and Wildlife Resources (KDFWR) have received your request for the above-referenced information. The Kentucky Fish and Wildlife Information System indicates that no federal/state threatened and/or endangered fish and wildlife species are known to occur within close proximity to the project area. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions. We recommend that you contact the U. S. Fish & Wildlife Service Kentucky Field Office at 502-695-0468 for consultation under the Endangered Species Act.

It appears that the proposed project has the potential to impact wetland habitats. According to the National Wetland Inventory Map it appears that *Alternate H* would impact a forested wetland at the Salt River crossing. KDFWR recommends that you look at the appropriate US Department of Interior National Wetland Inventory Map (NWI) and the appropriate county soil surveys to determine where the proposed project may impact other wetlands. Additionally, field verification may be needed to determine the extent and quality of wetland habitats within the project area. Any planning should include measures designed to eliminate and/or reduce impacts to wetland habitats. If impacts cannot be avoided, mitigation should be properly designed and proposed to offset the losses. KDFWR will recommend, at a minimum, a 2:1 mitigation ratio for any permanent loss or degradation of wetland habitats.

KDFWR recommends that you contact the appropriate US Army Corps of Engineers office and the Kentucky Division of Water prior to any work within the waterways or wetland habitats of Kentucky. Additionally, KDFWR recommends the following for the portions of the project that impact streams:



- All alternates will cross the Salt River. KDFWR recommends utilizing a bridge design that spans the Salt River and eliminates the need to place bridge piers within the river channel.
- Channel changes located within the project area should incorporate natural stream channel design.
- If culverts are used, the culvert should be designed to allow the passage of aquatic organisms.
- Culverts should be designed so that degradation upstream and downstream of the culvert does not occur.
- To compensate for unavoidable impacts to streams, we recommend that possible stream mitigation sites be identified on-site or within the Upper Salt River drainage. Restoration of those sites should incorporate natural stream channel design along with the restoration of its associated riparian areas.
- Development/excavation during low flow period to minimize disturbances.
- Proper placement of erosion control structures below highly disturbed areas to minimize entry of silt into area streams.
- Replanting of disturbed areas after construction, including stream banks, with native vegetation for soil stabilization and enhancement of fish and wildlife populations. We recommend a 100 foot forested buffer along each stream bank.
- Return all disturbed instream habitat to a stable condition upon completion of construction in the area.
- Preservation of any tree canopy overhanging any streams within the project area.

I hope this information proves helpful to you. If you have any questions or require additional information, please call me at (800) 852-0942 Extension 366.

Sincerely,



Doug Dawson  
Wildlife Biologist III

Cc: Environmental Section File





**Richie Farmer, Commissioner**  
32 Fountain Place  
Frankfort, KY 40601



**RECEIVED**

Appendix H (RAC #2) Page 27

**JUN 25 2008**

Phone: (502) 564-5126

Fax: (502) 564-5016

E-mail: richie.farmer@ky.gov

**Kentucky  
Department of  
Agriculture**

*A Consumer Protection And Service Agency*

June 23, 2008

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5th Floor  
Frankfort, Kentucky 40622

RE: Mercer County Item No. 07-8344.00

Dear Mr. Greer:

The Kentucky Department of Agriculture recognizes receipt of information relating to the above noted Item No. At this time, the Department has no comment on the proposed project.

We appreciate the opportunity to provide input.

Yours truly,

A handwritten signature in blue ink that reads "Richie Farmer".

Richie Farmer, Commissioner





## Heberle, Doug

---

**From:** Witt, Thomas (KYTC) [Thomas.Witt@ky.gov]  
**Sent:** Tuesday, June 10, 2008 10:30 AM  
**To:** Heberle, Doug; Goodpaster, Stuart (KYTC-D07); Martin, David (KYTC); Springer, Tom; Turner, Randy (KYTC-D07); Zimmerman, Albert  
**Subject:** FW: Item No. 07-8344.00; Second Agency Coordination Responses

---

**From:** Ross, Steve (KYTC)  
**Sent:** Friday, June 06, 2008 8:11 AM  
**To:** Witt, Thomas (KYTC); Martin, David (KYTC)  
**Subject:** FW: Planning Study, Mercer County, Harrodsburg Northwest Bypass, KY 152 to US 127, Item No. 07-8344.00

---

**From:** Greer, Daryl (KYTC)  
**Sent:** Thursday, June 05, 2008 2:59 PM  
**To:** Ross, Steve (KYTC)  
**Subject:** FW: Planning Study, Mercer County, Harrodsburg Northwest Bypass, KY 152 to US 127, Item No. 07-8344.00

---

**From:** Wilkins, Joe N MR NGKY [mailto:joe.wilkins@us.army.mil]  
**Sent:** Thu 6/5/2008 2:25 PM  
**To:** Greer, Daryl (KYTC)  
**Subject:** Planning Study, Mercer County, Harrodsburg Northwest Bypass, KY 152 to US 127, Item No. 07-8344.00

Mr. Greer,

The Department of Military Affairs can not identify any issues or concerns that affect the development of subject project. We have an Armory located East of the proposed construction site at 500 Tapp Rd.

Joe N. Wilkins  
Director, Facilities Division  
Boone National Guard Center  
Frankfort, KY 40601-6168  
502-607-6535  
DSN 667-6535  
502-382-7270 (Cell)  
502-607-1270 (Fax)  
Joe.Wilkins@ky.ngb.army.mil

6/10/2008





**Heberle, Doug**

---

**From:** Witt, Thomas (KYTC) [Thomas.Witt@ky.gov]  
**Sent:** Tuesday, June 10, 2008 9:41 AM  
**To:** Springer, Tom; Zimmerman, Albert; Heberle, Doug  
**Subject:** FW: Item No. 7-8344.00; Second Agency Coordination Responses

---

**From:** Burton, Dale (EPPC DEP DWM)  
**Sent:** Monday, June 02, 2008 2:00 PM  
**To:** Webb, April (EPPC DEP DWM); Gilbert, George (EPPC DEP DWM)  
**Cc:** Jump, John (EPPC DEP DWM)  
**Subject:** RE: Planning Study Harrodsburg

The proposed route will apparently not affect the hazardous waste facilities in the area. Those facilities include Hallmack and Corning.

Therefore, I have no comments.

---

**From:** Webb, April (EPPC DEP DWM)  
**Sent:** Monday, June 02, 2008 1:14 PM  
**To:** Burton, Dale (EPPC DEP DWM); Jump, John (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

*April J. Webb PE, Manager*

*Hazardous Waste Branch*  
14 Reilly Road  
Bldg 6  
Frankfort, KY 40601  
(502)564-6716 ext 676

---

**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Monday, June 02, 2008 12:41 PM  
**To:** Daniell, Robert (EPPC DEP DWM); Gruzsky, Ron (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM)  
**Cc:** Cooley, Tony (EPPC DEP DWM); Gritton, Sharon (EPPC DEP DWM); Funkhouser, Lloyd (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

Here is another Transportation study on Mercer County. Pls. forward comments by COB Friday, June 13. Thx.

---

**From:** Perry, Jennie (EPPC DEP DWM)  
**Sent:** Friday, May 30, 2008 4:03 PM  
**To:** Gilbert, George (EPPC DEP DWM)

**Heberle, Doug**

---

**From:** Witt, Thomas (KYTC) [Thomas.Witt@ky.gov]  
**Sent:** Tuesday, June 10, 2008 9:30 AM  
**To:** Siria, Bruce; Springer, Tom; Zimmerman, Albert  
**Subject:** FW: Item No. 7-8344.00; Second Agency Coordination Responses

---

**From:** Burton, Dale (EPPC DEP DWM)  
**Sent:** Thursday, June 05, 2008 1:19 PM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Cc:** Webb, April (EPPC DEP DWM); Hall, Clifford (EPPC DEP DWM); Logsdon, Kenneth (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

George,

The widening of Moberly Road will cross a low-level groundwater contaminant plume which runs from the former Hallmack facility (as well as the former Signet facility) (east of Moberly Road) to Humane Spring (west of Moberly Road). We do not anticipate that the road construction would encounter this TCE-contaminated groundwater, but we wanted to pass this information along.

---

**From:** Hall, Clifford (EPPC DEP DWM)  
**Sent:** Thursday, June 05, 2008 8:35 AM  
**To:** Burton, Dale (EPPC DEP DWM); Logsdon, Kenneth (EPPC DEP DWM)  
**Subject:** RE: Planning Study Harrodsburg

I agree, this road will likely cross contaminated groundwater, but it really isn't an HW issue.

---

**From:** Burton, Dale (EPPC DEP DWM)  
**Sent:** Thursday, June 05, 2008 7:59 AM  
**To:** Logsdon, Kenneth (EPPC DEP DWM)  
**Cc:** Hall, Clifford (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

FYI – please review and comment. It looks to me like the widening of Moberly will cross the area between Hallmack and Humane Spring, but otherwise, I don't see any HW issues – do you concur?

---

**From:** Webb, April (EPPC DEP DWM)  
**Sent:** Wednesday, June 04, 2008 3:51 PM  
**To:** Burton, Dale (EPPC DEP DWM); Jump, John (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

*April J. Webb PE, Manager*  
*Hazardous Waste Branch*

**Heberle, Doug**

---

**From:** Witt, Thomas (KYTC) [Thomas.Witt@ky.gov]  
**Sent:** Tuesday, June 10, 2008 9:28 AM  
**To:** Siria, Bruce; Springer, Tom; Zimmerman, Albert  
**Subject:** FW: Item No. 7-8344.00; Second Agency Coordination Responses

---

**From:** Daniell, Robert (EPPC DEP DWM)  
**Sent:** Friday, June 06, 2008 9:19 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

Rob Daniell, Manager  
Underground Storage Tank Branch  
81 C. Michael Davenport Blvd.  
Frankfort, KY 40601  
(502) 564-5981

---

**From:** Baase, Dawn (EPPC DEP DWM)  
**Sent:** Friday, June 06, 2008 9:10 AM  
**To:** Daniell, Robert (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

UST Branch sends the following comments regarding Item No. 7-8344.00

The USTB identified one (1) facility (AI# 59095) with one (1) registered tank that was removed in 1996 and NFA'd in 2005. The facility is located at the following coordinates along the eastern edge of the project area (37.775833 / -84.860278). It appears there are no facilities undergoing corrective actions within the project area.

Please notify the UST Branch if additional information is required.

*Dawn Langford Baase*  
*AEI Section, USTB*  
*Division of Waste Management*  
*81 C. Michael Davenport Blvd*  
*Frankfort, KY 40601*  
*phone: 502-564-5981 ext. 250*  
*fax: 502-564-5047*

---

**From:** Daniell, Robert (EPPC DEP DWM)  
**Sent:** Monday, June 02, 2008 3:05 PM

6/10/2008

**Heberle, Doug**

---

**From:** Cooley, Tony (EPPC DEP DWM) [Tony.Cooley@ky.gov]  
**Sent:** Monday, June 09, 2008 10:55 AM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Cc:** Anderson, Danny (EPPC DEP DWM)  
**Subject:** RE: Planning Study Harrodsburg

The attached image shows the waste boundaries of the landfills in the vicinity of the proposed work. The Corning Glass landfill is outside the likely area affected by the proposed work and is an inert landfill.

The Harrodsburg City Dump is probably outside the affected area. Area 1 is the most likely location for this dump based on an old aerial photo and one identification of the site. An alternate location for the dump, Area 2, lies adjacent to the work on the existing road. Work would probably encroach on Area 2 property while widening this road. This area was identified as the waste area by TetraTech during a Stage 1 study for DWM, though I am skeptical because there is little change to this property between an aerial photo in 1963 and one in 1974, while disturbance compatible with a city dump is visible in Area 1. However, I can't rule out the possibility of waste on this property.

Should construction encounter waste, this would have to be removed to at least the edge of the road right of way and transported to a permitted contained landfill for disposal. My preference would be to remove it at least 5 or 10 feet back from the right of way fence so we could have access for waste consolidation if needed. In addition, on the property beyond the right of way, the cap at the cut edge of the waste should be restored to at least as good as the existing condition of the cap and appropriate drainage control should be provided such that no new surface or groundwater flow will affect the remaining waste on the site beyond the road right of way.

Danny, do you have anything to add?

---

**From:** Gilbert, George (EPPC DEP DWM)  
**Sent:** Monday, June 02, 2008 12:41 PM  
**To:** Daniell, Robert (EPPC DEP DWM); Gruzesky, Ron (EPPC DEP DWM); Maybriar, Jon (EPPC DEP DWM); Sherkat, Fazi (EPPC DEP DWM); Webb, April (EPPC DEP DWM)  
**Cc:** Cooley, Tony (EPPC DEP DWM); Gritton, Sharon (EPPC DEP DWM); Funkhouser, Lloyd (EPPC DEP DWM)  
**Subject:** FW: Planning Study Harrodsburg

Here is another Transportation study on Mercer County. Pls. forward comments by COB Friday, June 13. Thx.

---

**From:** Perry, Jennie (EPPC DEP DWM)  
**Sent:** Friday, May 30, 2008 4:03 PM  
**To:** Gilbert, George (EPPC DEP DWM)  
**Subject:** Planning Study Harrodsburg

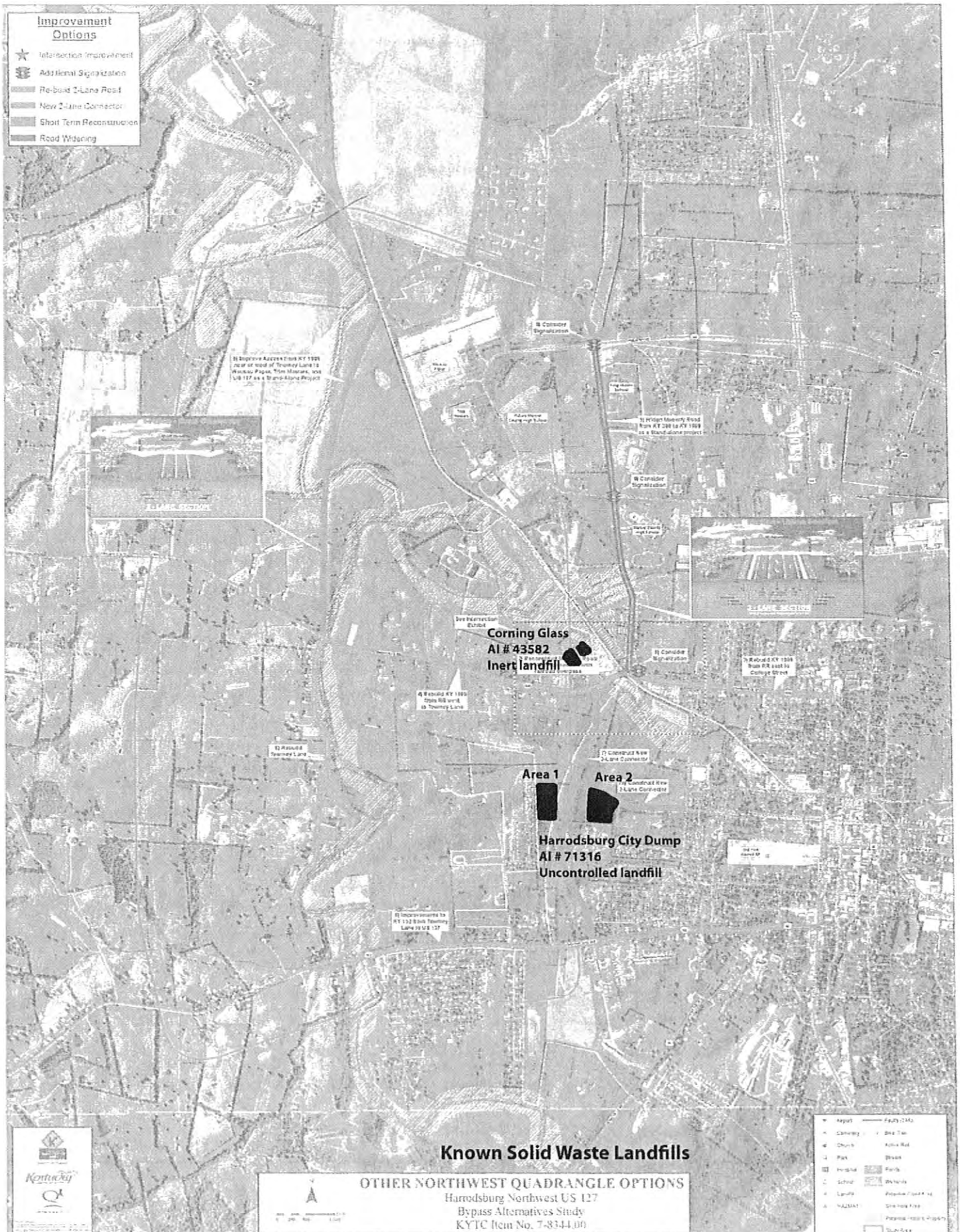
Hard copy on your desk.

**Jennie Perry**

Department for Environmental Protection  
Division of Waste Management  
Director's Office  
Frankfort Office Park  
14 Reilly Road  
Phone (502) 564-6716, x215  
jennie.perry@ky.gov

6/10/2008







**RECEIVED****JUN 18 2008**Leonard K. Peters  
SecretarySteven L. Beshear  
Governor

Commonwealth of Kentucky  
Energy and Environment Cabinet  
Department for Environmental Protection  
Division for Air Quality  
803 Schenkel Lane  
Frankfort, Kentucky 40601-1403  
[www.air.ky.gov](http://www.air.ky.gov)  
June 17, 2008

Mr. Daryl Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero St.  
Frankfort, Ky 40622

Re: Planning Study for Harrodsburg Northwest Bypass, Item No. 07-8344.00

Dear Mr. Greer:

Upon review of the above referenced planning study, it has been found that the following Kentucky Administrative Regulations apply to this proposed project:

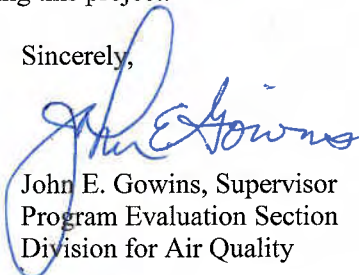
Kentucky Division for Air Quality Regulation **401 KAR 63:010** Fugitive Emissions states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. Please note the Fugitive Emissions Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm).

Kentucky Division for Air Quality Regulation **401 KAR 63:005** states that open burning is prohibited. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the outdoor atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the Open Burning Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm).

Finally, the project listed in this document must meet the conformity requirements of the Clean Air Act as amended and the transportation planning provisions of Title 23 and Title 49 of United States Code. The Division also suggests an investigation into compliance with applicable local government regulations.

We appreciate the opportunity to provide input concerning this project.

Sincerely,

  
John E. Gowins, Supervisor  
Program Evaluation Section  
Division for Air Quality

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RECEIVED

JUL 15 2008

## ENERGY AND ENVIRONMENT CABINET

**Steven L. Beshear**  
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION  
300 FAIR OAKS LANE  
FRANKFORT, KENTUCKY 40601  
PHONE (502) 564-2150  
FAX (502) 564-4245  
[www.dep.ky.gov](http://www.dep.ky.gov)

**Leonard K. Peters**  
Secretary

**R. Bruce Scott**  
Commissioner

July 11, 2008

Mr. Daryl J. Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
Frankfort, KY 40622

Re: Planning Study, Mercer County, Harrodsburg Northwest Bypass. Item No. 07-8344.00  
(SERO 2008-16)

Dear Mr. Greer,

The Energy and Environment Cabinet serves as the state clearinghouse for review of environmental documents generated pursuant to the National Environmental Policy Act (NEPA). Within the Cabinet, the Commissioner's Office in the Department for Environmental Protection coordinates the review for Kentucky state agencies.

The Kentucky agencies listed on the attached sheet have been provided an opportunity to review the above referenced report. Responses were received from 3 of the reviewing agencies. Comments were received from the Kentucky Divisions of Water and Air Quality, and the Kentucky Heritage Council.

If you should have any questions, please contact me at (502) 564-2150, ext. 112.

Sincerely,

Larry C. Taylor  
State Environmental Review Officer

Enclosures

## COMMONWEALTH OF KENTUCKY STATE ENVIRONMENTAL REVIEW PROCESS

**Project Number:** SERO 2008 - 16

**Scoping Document**

**Project Title:**

Planning Study, Mercer County, Harrodsburg Northwest Bypass. Item No. 07-8344.00

The following Commonwealth of Kentucky agencies make up the State Environmental Review Process. Their response is listed below. Agencies that did not receive the document for review or did not respond are also noted.

<b>REVIEWING AGENCIES:</b>	<b>RESPONSE:</b>
Division of Water.....	COMMENTS ATTACHED
Division of Waste Management.....	NO COMMENT
Division for Air Quality.....	COMMENTS ATTACHED
Department for Public Health.....	Not Sent for Review
Cabinet for Economic Development.....	Not Sent for Review
Division of Forestry.....	Not Sent for Review
Department of Parks.....	Not Sent for Review
Department of Agriculture.....	Not Sent for Review
Nature Preserves Commission.....	No Response Received
Kentucky Heritage Council.....	COMMENTS ATTACHED
Division of Conservation.....	Not Sent for Review
Department for Natural Resources.....	Not Sent for Review
Department of Fish and Wildlife Resources....	Not Sent for Review
Transportation Cabinet.....	Not Sent for Review
Department for Military Affairs.....	Not Sent for Review

### **Division of Water Comments**

## **Planning Study for the Harrodsburg Northwest Bypass from KY 152 to US 127**

### **Endorsement:**

A request for review of the Planning Study for the Harrodsburg Northwest Bypass from KY 152 to US 127 in Mercer County, Kentucky was received on May 29, 2008. The Division of Water (DOW) completed this review and has provided the following comments.

### **Water Quality Branch:**

No comments.

### **Groundwater Branch:**

Did not comment.

### **Field Operations Branch:**

A review of the geology of the area indicates that the proposed site is located in a karst region. Thin soil mantles, sinks and sinkholes, sinking streams, and fractured and solutioned limestone characterize karst topography. As a consequence, karst regions can have extreme groundwater transmissivity. "Percolation" can be swift. Groundwater flows are usually measured in feet per day instead of the normal rate of inches per year (Groundwater flows in Kentucky have been recorded as high as 1,300 feet per hour). The Division of Water recommends that a registered karst hydrogeologist be utilized to ensure that groundwater in the area will not be adversely affected by this project.

Any water or monitoring wells that may be destroyed by the project will need to be abandoned properly. All water well and monitoring well construction, alteration, repair or plugging must be performed by a Kentucky certified driller in accordance with KRS 223.400 460 and 401 KAR 6:310 and 320.

### **Water Resources Branch:**

Any excess material generated from the project activity, if disposed outside the Right of Way of the Department of Highways and in the regulatory floodplain will require a permit from DOW per KRS 151.250.

### **Enforcement Branch:**

Did not comment.



### **Division for Air Quality Comments**

**DAQ Comments on Harrodsburg NW Bypass Planning Study (SERO 2008-16)**

Kentucky Division for Air Quality Regulation 401 KAR 63:010 Fugitive Emissions states that no person shall cause, suffer, or allow any material to be handled, processed, transported, or stored without taking reasonable precaution to prevent particulate matter from becoming airborne. Additional requirements include the covering of open bodied trucks, operating outside the work area transporting materials likely to become airborne, and that no one shall allow earth or other material being transported by truck or earth moving equipment to be deposited onto a paved street or roadway. Please note the Fugitive Emissions Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm)

Kentucky Division for Air Quality Regulation 401 KAR 63:005 states that open burning is prohibited. Open Burning is defined as the burning of any matter in such a manner that the products of combustion resulting from the burning are emitted directly into the atmosphere without passing through a stack or chimney. However, open burning may be utilized for the expressed purposes listed on the Open Burning Fact Sheet located at [http://www.air.ky.gov/homepage\\_repository/e-Clearinghouse.htm](http://www.air.ky.gov/homepage_repository/e-Clearinghouse.htm)

Finally, the projects listed in this document must meet the conformity requirements of the Clean Air Act as amended and the transportation planning provisions of Title 23 and Title 49 of United States Code.

The Division also suggests an investigation into compliance with applicable local government regulations.

### **Kentucky Heritage Council Comments**



**COMMERCE CABINET  
KENTUCKY HERITAGE COUNCIL**

**Steven L. Beshear**  
Governor

**The State Historic Preservation Office**  
300 Washington Street  
Frankfort, Kentucky 40601  
Phone (502) 564-7005  
Fax (502) 564-5820  
[www.kentucky.gov](http://www.kentucky.gov)

**Marcheta Sparrow**  
Secretary

**Donna M. Neary**  
Executive Director and  
State Historic Preservation Officer

July 2, 2008

Mr. Larry Taylor  
Department for Environmental Protection  
14 Reilly Road  
Frankfort, Kentucky 40601

**Re: Planning Study, Harrodsburg Northwest Bypass, Mercer County, Kentucky**

Dear Mr. Taylor:

Thank you for your letter concerning the above referenced project. Our review indicates that this project has the potential to impact both archaeological and historic sites eligible for listing in the National Register of Historic Places. Therefore, I recommend that the entire project area be surveyed by a professional archaeologist and architectural historian. Two separate reports documenting the results of these investigations should be submitted to the State Historic Preservation Officer for review, comment, and approval.

Should you have any questions, feel free to contact Lori Stahlgren of my staff at (502) 564-7005, extension 118.

Sincerely,

  
Donna M. Neary, Director  
Kentucky Heritage Council and  
State Historic Preservation Officer

LCS:lcs



## Heberle, Doug

---

**From:** Springer, Tom  
**Sent:** Wednesday, June 04, 2008 4:09 PM  
**To:** Heberle, Doug  
**Subject:** FW: KY 152 to US 127 Item No. 07-8344.00

Tom H. Springer, AICP, CEP

Director

Planning Department

Qk4

815 West Market Street, Suite 300, Louisville, KY 40202

502.992.2891 - Fx. 502.992.3110

[tspringer@qk4.com](mailto:tspringer@qk4.com)

---

**From:** Witt, Thomas (KYTC) [<mailto:Thomas.Witt@ky.gov>]  
**Sent:** Wednesday, June 04, 2008 3:45 PM  
**To:** Springer, Tom; Siria, Bruce; Zimmerman, Albert  
**Cc:** Goodpaster, Stephen; Turner, Randy (KYTC-D07); Martin, David (KYTC)  
**Subject:** FW: KY 152 to US 127 Item No. 07-8344.00

This is from the Kentucky Airport Zoning Commission in response to the agency coordination letter.

---

**From:** Ross, Steve (KYTC)  
**Sent:** Tuesday, June 03, 2008 12:25 PM  
**To:** Witt, Thomas (KYTC); Martin, David (KYTC)  
**Subject:** FW: KY 152 to US 127 Item No. 07-8344.00

---

**From:** Greer, Daryl (KYTC)  
**Sent:** Monday, June 02, 2008 5:23 PM  
**To:** Ross, Steve (KYTC)  
**Subject:** FW: KY 152 to US 127 Item No. 07-8344.00

---

**From:** Houlihan, John (KYTC)  
**Sent:** Mon 6/2/2008 2:35 PM  
**To:** Greer, Daryl (KYTC)  
**Subject:** KY 152 to US 127 Item No. 07-8344.00

Mr. Greer,

I have review the proposed project and found that it will have no negative impact to air navigation. However if any of the construction equipment (example cranes) exceed 200 feet above ground level, this equipment will require a permit from this office. If you have any questions, let me know.

6/4/2008

Thank you.

Kentucky Airport Zoning Commission  
John Houlihan, Administrator  
90 Airport Road, Building 400  
Frankfort, KY 40601  
Desk 502.564.0310  
Cell 502.330.3955

<http://transportation.ky.gov/aviation/kyzoning.htm>

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**MEMORANDUM****PA-001-2008 for P-019-2007**

**TO:** Thomas Witt,  
Division of Planning

**FROM:** William Broyles, PE  
Geotechnical Engineering  
Branch Manager  
Division of Structural Design

**BY:** Michael Blevins, PG *MB*  
Geotechnical Branch

**DATE:** June 24, 2008

**SUBJECT:** Mercer County  
Planning Study  
Harrodsburg Northwest Bypass  
KY 152 to US127

The Branch has completed a review of the proposed alternates and offers the following comments.

**ALTERNTE E:**

Alternate E offers the most suitable location from a Geotechnical perspective. The bedrock that the roadway would be founded on is of better quality than the majority of the material encountered in alternates F, H and J. The majority of the bedrock to be encountered in alternate E would be Members of the Lexington Limestone and should be suitable for most roadway applications. Some cut slopes may be in the Clays Ferry Formation which is composed of interbedded limestone and shale and will likely require flatter than normal cut slopes and additional Right of Way due to the poor engineering properties of the shale. The Geologic Quadrangle Map indicates an abandon quarry that should be avoided and is shown on the attached Geologic Quadrangle Map.

**ALTERNATES F, H and J**

These alternates, as stated in the above paragraph, will encounter the Clays Ferry Formation at various locations and lengths. The Formation is comprised of interbedded limestone and shale and will likely require flatter than normal cut slopes and additional Right of Way due to the poor engineering properties of the shale. Fill slopes constructed from this Formation may require flatter than normal slopes as well.

Alternate H may encounter a Fault along KY 390 and should be avoided if possible to due to constructability issues associated with cut slopes.

**Memorandum**  
**Thomas Witt**  
**June 24, 2008**  
**Page-2-**

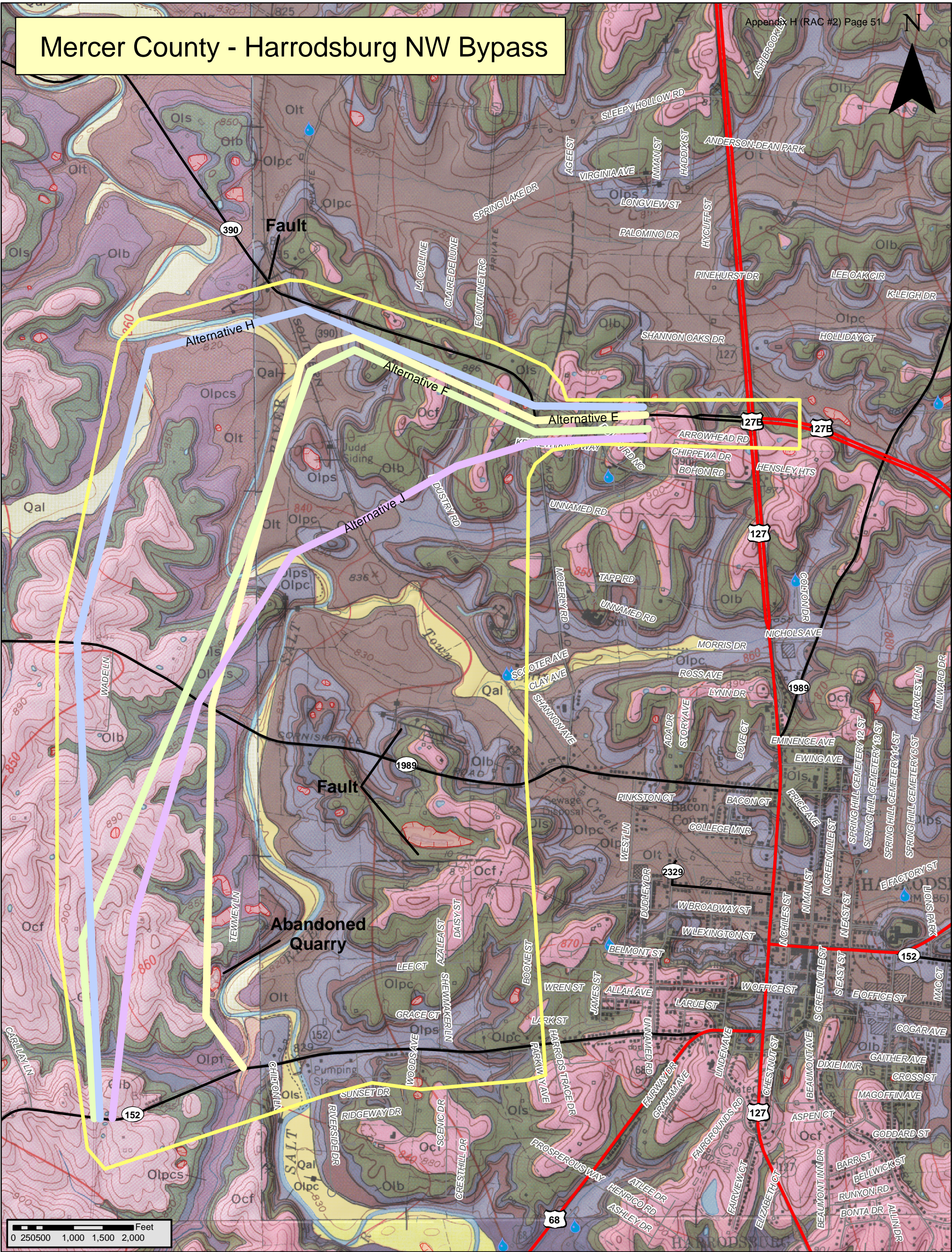
## **IMPROVEMENT OPTIONS**

No issues are anticipated at this time for any alternates associated with Improvement Options.

If there are any questions, please advise.



# Mercer County - Harrodsburg NW Bypass



## Legend

### Lexington Limestone Members

- Ols** Sulphur Well Member
- Olb** Brannon Member
- Olt** Tanglewood Member
- Olpc** Cornishville Bed of the Perryville Limestone Member

- Study Area**
- Fault Line**
- Ocf** Clays Ferry Formation
- Qal** Alluvium
- QTf** High-level fluvial deposits

- Springs**
- US Highways**
- State Roads**
- Local Roads**
- Sinkholes**







UNIVERSITY OF KENTUCKY

Appendix H (RAC #2) Page 53

JUN 30 2008

**Kentucky Geological Survey**

*Research*

228 Mining & Mineral Resources Bldg.

Lexington, KY 40506-0107

Phone: (859) 257-5500

Fax: (859) 257-1147

[www.uky.edu/kgs](http://www.uky.edu/kgs)

June 27, 2008

Daryl J. Greer, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street  
5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Mr. Greer:

This letter is to summarize any geologic concerns for the planning study:

Mercer County  
Harrodsburg Northwest Bypass  
Item No. 07-8344.00

The following comments reflect the review of maps, online searches, and documents available in the files and on the Web site of the Kentucky Geological Survey. No on-site investigation (except for the section on fracture orientations) of the planning study area was conducted.

**Physiographic Region**

This planning study area is in the Inner Bluegrass physiographic region, which is underlain by bedrock consisting of limestone, interbedded limestone and shale, and unconsolidated material consisting of silt, clay, sand, and gravel.

**7.5-Minute U.S. Geological Survey Topographic and Geologic Quadrangle Maps**

The planning study area is located in the Harrodsburg and Cornishville quadrangles.

**Land-Use Planning Map**

For a good geologic (with physical parameters) overview of the area, refer to the county land-use planning map at [www.uky.edu/KGS](http://www.uky.edu/KGS).

On the home page, click on GIS and Maps.

On this page, click on County Land-Use Planning Maps.

On this page, click on the county of interest on the index map or select the desired county from the pull-down menu. A viewable and downloadable PDF of the land-use county map will be displayed.



**Karst Potential**

The planning study area would encounter karst features such as sinkholes and caves. Sinkholes are more pronounced in the Cornishville and Salvisa Beds of the Perryville Limestone Member. They are as identified on the maps you provided.

**Landslide Potential**

The planning study area would encounter shaly units in the Clays Ferry Formation that are highly susceptible to slumping when they become wet.

**Unconsolidated Sediments**

The planning study area would encounter unconsolidated sediments in drainage areas.

**Monitoring and Water Wells and Springs**

The planning study area should not encounter any monitoring or water wells or springs.

**Oil and Gas Wells**

The planning study area should not encounter any oil and gas wells.

**Resource Conflicts**

The planning study area should not encounter any resource conflicts such as prior ownership of property for quarrying or mining.

**Materials Suitability**

The planning study area would encounter rock units that would be suitable for use as construction stone.

**Fault Potential**

The planning study area would encounter faulted areas. They are as identified on the maps you provided.

**Fracture Orientations**

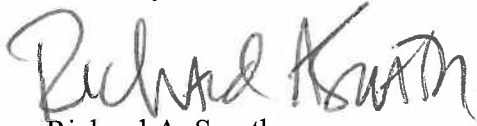
Field reconnaissance of the proposal area was conducted on June 19, 2008, by Steve Martin. The joint orientations are plotted as Rose diagrams and are included on the attached map. There are three dominant joint sets in this area that trend northeast, east-west, and northwest. Bedding and joint orientations from the original geologic mapping of the area are also included on the attached geologic map. For more information, contact Steve Martin, 859.257.5500 ext. 179 or [smartin401@uky.edu](mailto:smartin401@uky.edu).



**Earthquake Ground Motions**

This planning area has probable peak ground acceleration (PGA) due to earthquake ground motion of 0.09g. There would be a low potential for liquefaction or slope failure in the unconsolidated sediments at or near streams caused by earthquake bedrock ground motion.

Sincerely,

A handwritten signature in dark ink, appearing to read "Richard A. Smath". The signature is fluid and cursive, with the first name "Richard" being more prominent than the last name "Smath".

Richard A. Smath  
Geologist



Geologic map of study area showing fracture orientations. Rose diagrams show the location, frequency, and orientation of joint measurements from field reconnaissance. The orientations of bedding and joints from the published geologic map of the area are symbolized in red. Fault locations are symbolized with a black line with "U" and "D" denoting the up thrown and down thrown sides of the fault. The location of quarries is denoted with black, crossed hammers. Map unit abbreviations include Ocf (Clays Ferry Formation), Olb (Brannon Member of the Lexington Limestone), Olu (upper members of the Lexington Limestone), Olt1 (Tanglewood Member of the Lexington Limestone), and Qal (alluvium).





RECEIVED

JUL 14 2008

**EDUCATION CABINET  
DEPARTMENT OF EDUCATION**

**Steven L. Beshear**  
Governor

Capital Plaza Tower  
500 Mero Street  
Frankfort, Kentucky 40601  
Phone (502) 564-4770  
[www.education.ky.gov](http://www.education.ky.gov)

**Jon E. Draud, Ed.D.**  
Commissioner of Education

July 10, 2008

Mr. Daryl J. Greer, P.E., Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, 5<sup>th</sup> Floor  
Frankfort, KY 40601

RE: Mercer County Harrodsburg Northwest Bypass Planning Study

Dear Mr. Greer:

I am in receipt of your May 29, 2008 letter regarding the Harrodsburg Northwest Bypass, Item No. 07-8344.00 and advise you that this project will not affect the Kentucky Department of Education's responsibilities and programs. The Division of Facilities Management office contacted the Mercer County School District's office and in their opinion, there are no negative environmental impacts from this project.

Sincerely,

Mark W. Ryles, Director  
Division of Facilities Management

MWR/efh

c: Bruce Johnson, Superintendent, Mercer County Schools  
Secretary Helen Mountjoy, Education Cabinet  
Mark W. Ryles





## Hardy, Eileen - Facilities Management

---

**From:** Sims, Jessica - Mercer  
**Sent:** Wednesday, July 09, 2008 10:28 AM  
**To:** Hardy, Eileen - Facilities Management  
**Subject:** Harrodsburg NW Bypass

Eileen,

I'm very sorry for the late response. Things have been very busy. I'm sure it has been the same in your office. This is in response to the planning study mailed to our district on May 29<sup>th</sup>. We are in agreement with the plans and do not see anything that will have a negative impact on our schools.

Please let me know if there is anything else you need.

*Jessica Sims*

Personnel Director  
Superintendent's Secretary  
Mercer County Board of Education  
371 East Lexington Street  
Harrodsburg, KY 40330  
Phone: 859-734-8400, ext. 2037





Appendix H (RAC #2) Page 61  
**RECEIVED**

**JUN 19 2008**

**STEVEN L. BESHEAR**  
GOVERNOR

**TOURISM, ARTS AND HERITAGE CABINET  
DEPARTMENT OF PARKS**

11<sup>th</sup> Floor, Capital Plaza Tower  
500 Mero Street  
Frankfort, Kentucky 40601-1974  
Phone 502-564-2172  
Fax 502-564-9015  
[www.parks.ky.gov](http://www.parks.ky.gov)

**MARCHETA SPARROW**  
SECRETARY

**GERRY VAN DER MEER**  
COMMISSIONER

June 18, 2008

Daryl J. Greer, P.E.  
Director, Division of Planning  
KY Transportation Cabinet  
200 Mero Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Mr. Greer:

In reviewing the Planning Study for the Mercer County Harrodsburg Northwest Bypass, our staff have determined that the proposed highway project will not adversely impact any of the Parks under our administration. We thank you for the opportunity to express our thoughts regarding this matter.

Sincerely,

Gerry van der Meer  
Commissioner  
Kentucky Department of Parks







RECEIVED

JUN 25 2008

## JUSTICE AND PUBLIC SAFETY CABINET

**Steven L. Beshear**  
Governor

**Kentucky Vehicle Enforcement**  
Frankfort, Kentucky 40601



**J. Michael Brown**  
Secretary

**David G. Leddy**  
Deputy Commissioner

June 24, 2008

Mr. Daryl J. Greer, P.E.  
Division of Planning  
Transportation Cabinet  
200 Mero Street  
Frankfort, KY 40622

Dear Mr. Greer:

We are in receipt of your letter requesting any input that Kentucky Vehicle Enforcement might have in regards to a planning study in Mercer County, item no. 07-8344.00, on KY 152 to US 127, Harrodsburg Northwest Bypass.

As per our letter dated January 31, 2008, to you, we do not have any changes to our findings. We recommend that the proposed roadway be deemed a designated route considering it will take away much of the commercial traffic from the roadways inside the city.

If you need any further information, please do not hesitate to let us know.

Sincerely,

A handwritten signature in cursive script that reads "David G. Leddy".

David G. Leddy  
Deputy Commissioner  
Department of Kentucky Vehicle Enforcement



**RECEIVED**

JUL 03 2008



STEVE BESHEAR  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
KENTUCKY STATE POLICE  
919 VERSAILLES ROAD  
FRANKFORT, KY 40601

RODNEY BREWER  
COMMISSIONER

**Kentucky State Police  
Post 7  
699 Eastern By-Pass  
Richmond, Kentucky 40475  
Phone 859-623-2404**

July 2, 2008

Mr. Daryl J. Greer, P.E.  
Director  
Division of Planning  
Kentucky Transportation Cabinet  
200 Metro Street 5<sup>th</sup> Floor  
Frankfort, KY 40622

Dear Mr. Greer:

Subject: Planning Study  
Mercer County  
Harrodsburg Northwest Bypass  
KY 152 to US 127  
Item No. 07-8344.00

I am responding to your letter requesting comments regarding the proposed improvement alternatives. After reviewing the information I decided to address each bullet point individually.

- **Project goals or purpose and need for the project**

It seems that the project would provide enhanced emergency response times due to system connectivity and reduced congestion. However, consider the road will be heavily congested during early morning and afternoon times in correspondence with the school times as it is currently congested through the 127 corridor, Moberly Road and Industry Road.

- **Significant issues or concerns in the project that may need to be addressed so that the project can be adequately scoped**

The significant concern for the Kentucky State Police with this project is highway safety. The need for proper signage, signals and lighting should be stressed from the beginning stages. Please keep in mind that the schools will have a large amount of inexperienced drivers, the factories will attract a large amount of commercial vehicles, as well as a large amount of people unfamiliar with the area bypassing Harrodsburg. To illustrate the significance of the above, the current bypass has insufficient lighting leading to consistent complaints of vehicles driving in the wrong direction of a four lane highway. In addition to this, the Kentucky State Police experience a large amount of vehicle collisions on the south end of the bypass. A large amount of drivers in these wrecks fall into the categories of inexperienced drivers, out-of-town drivers and commercial vehicles. It is the opinion of the Kentucky State Police that highway safety can never be stressed enough.

- **Any conservation or development plans your agency or organization has ongoing or is aware of in the project area.**

I am not aware of any at this time.

- **Locations of any known areas, issues or resources within the project area that should be considered when developing alternatives so that impacts can be avoided, minimized or mitigated early in the process.**

As you are already aware, a new high school is under construction on Moberly Road that will significantly increase the traffic population on a road that is currently inadequate to handle the volume of peak traffic.

- **Any mitigation strategies that should be considered in the development of the project.**

I am not aware of any involving the Kentucky State Police at this time.

I hope this has benefited you and will help move the scoping process forward.

Thank you for considering the Kentucky State Police in the process.

Sincerely,

  
Captain Eddie Johnson