

**RESPONSES TO  
U.S. DEPARTMENT OF ENERGY  
LETTERS TO STATE AGENCIES  
AND NATIVE AMERICAN GROUPS**





## United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services  
6950 Americana Parkway, Suite H  
Reynoldsburg, Ohio 43068-4127

September 23, 2002

OFFICIAL FILE COPY  
AMESQ

James L. Elmore, Ph.D.  
Department of Energy  
Oak Ridge Operations Office  
P.O. Box 2001  
Oak Ridge, TN 37831

Log No. \_\_\_\_\_  
Date Received OCT 9 2002  
File Code \_\_\_\_\_

Dear Dr. Elmore:

This responds to your letter of July 12, 2002 regarding Federally listed endangered or threatened species that may occur in the vicinity of the Portsmouth Gaseous Diffusion Plant (PORTS) located in Pike County, Ohio.

### ENDANGERED SPECIES COMMENTS:

The proposed project lies within the range of the Indiana bat (*Myotis sodalis*), a Federally listed endangered species. Summer habitat requirements for the Indiana bat are not well defined, but the following are thought to be of importance:

1. Dead trees and snags (especially those with exfoliating bark), split tree trunk and/or branches, or cavities which may be used as maternity roosts;
2. Live trees (such as shagbark hickory) which have exfoliating bark;
3. Stream corridors, riparian areas, and upland woodlots which provide forage sites.

We recommend that if potential bat roost trees with the above characteristics are encountered in the project area, they should be saved wherever possible. If they must be cut, they should not be cut between April 15 and September 15.

If desirable trees are present and if the above time restriction is unacceptable, mist net or other surveys should be conducted to determine if bats are present. Any survey should be designed and conducted in coordination with the endangered species coordinator for this office, Ms. Angela Boyer (614-469-6923 ext. 22). The survey should be conducted in June or July, the period when peak bat populations could be expected.

The project lies within the range of the timber rattlesnake, a large shy rattlesnake that is declining throughout its national range. No Federal listing status has been assigned to this species. Instead, the U.S. Fish and Wildlife Service has initiated a pre-listing Conservation Action Plan to support state and local conservation efforts. Your proactive

efforts to conserve this species now may help avoid the need to list the species under the Endangered Species Act in the future. The timber rattlesnake is protected throughout much of its range and listed as endangered by the State of Ohio. Due to their rarity and reclusive nature, we encourage early project coordination to avoid potential impacts to timber rattlesnakes and their habitat.

In Ohio, the timber rattlesnake is restricted to the un-glaciated Allegheny Plateau and utilizes the specific habitat types, depending upon season. Winters are spent in dens usually associated with high, dry ridges. These dens may face any direction, but southeast to southwest are most common. Such dens usually consist of narrow crevices in the bedrock. Rocks may or may not be present on the surface. From these dens, timber rattlesnakes radiate throughout the surrounding hills and move distances as great as 4.5 miles. In the fall, timber rattlesnakes return to the same den. Intensive efforts to transplant timber rattlesnakes have not been successful. Thus protection of the winter dens is critical to the survival of this species. Some project management ideas include the following:

- 1) At a minimum, project evaluations should contain delineations of timber rattlesnake habitat within project boundaries. Descriptions should indicate the quality and quantity of timber rattlesnake habitat (den sites, basking sites, and foraging area, etc.) that may be affected by the project.
- 2) In cases where timber rattlesnakes are known to occur or where potential habitat is rated moderate to high, timber rattlesnake surveys may be necessary. If surveys are to be conducted, it may be helpful to inquire about timber rattlesnake sightings with local resource agency personnel or reliable local residents. In addition, local herpetologists may have knowledge of historical populations as well as precise knowledge of the habits, and the specific local types of habitats that may contain timber rattlesnakes. Surveys should be performed during the periods of spring emergence from dens (usually a short period in April or May) and throughout the active season until October. The species is often easiest to locate during the summer months when pregnant females seek open areas in early morning, especially after cool evenings.
- 3) In portions of projects where timber rattlesnakes will be affected, clearing and construction activities should occur at distances greater than 100 feet from known dens. Most importantly, tops of ridges and areas of exposed rock should be avoided.
- 4) In areas where timber rattlesnake dens are known or likely to exist, maintenance activities (mowing, cutting, burning, etc.) should be conducted from November 1 to March 1, when timber rattlesnakes are hibernating.

Two divisions of the Ohio Department of Natural Resources, the Division of Wildlife (614-265-6300) and the Division of Natural Areas and Preserves (614-265-6472), maintain lists of plants and animals of concern to the State of Ohio. If you have not already done so, you may wish to contact each of these agencies to obtain site-specific information about species of state concern.

If you have questions or we may be of further assistance in this matter please contact Mr. Bill Kurey of this office at 614-469-6923 ext. 14.

Sincerely,

A handwritten signature in black ink that reads "Mary Knapp". The signature is written in a cursive style with a large, prominent initial "M".

Mary Knapp, Ph.D.  
Supervisor

cc: R. Sanders, ODOW

FISH & WILDLIFE COMMISSION

Mike Boatwright, Paducah  
Tom Baker, Bowling Green  
Allen K. Gailor, Louisville  
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COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FISH AND WILDLIFE RESOURCES  
C. THOMAS BENNETT, COMMISSIONER

July 26, 2002

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Mr. James L. Elmore  
Department of Energy  
Oak Ridge Operations Office  
P.O. Box 2001  
Oak Ridge, TN 37831

Log No. 71283  
Date Received AUG 2 2002  
File Code \_\_\_\_\_

RE: Environmental Impact Statement Converting DUF6  
Stored at Paducah Gaseous Diffusion Plant,  
McCracken County, Kentucky

Dear Mr. Elmore:

I have reviewed the information provided on the above-referenced project. Accordingly, I offer the following comments and recommendations.

A review of the Kentucky Fish and Wildlife Information System indicates that several federal and/or state threatened and/or endangered species are known to occur within McCracken County that could be impacted by the project. That species list is attached. Please be aware that our database system is a dynamic one that only represents our current knowledge of the various species distributions. This information may also be obtained on the worldwide web at: [www.kfwis.state.ky.us](http://www.kfwis.state.ky.us).

I would recommend that a habitat survey be conducted at the site of the proposed project and if any habitat that might harbor any of these species exists, then a specific survey for that species should be conducted. The results of those surveys will dictate if any additional surveys or analysis need to be conducted.

I appreciate the opportunity to comment.

Sincerely,

Wayne L. Davis  
Environmental Section Chief

cc: Environmental Section Files



1 of 1

<i>Alosa alabamae</i>	Alabama shad	Osteichthyes	MCCRACKEN	C	E	Reference
<i>Atractosteus spatula</i>	alligator gar	Osteichthyes	MCCRACKEN		E	Reference
<i>Cyprinella camura</i>	bluntnose shiner	Osteichthyes	MCCRACKEN		E	Reference
<i>Hybognathus haysi</i>	cypress minnow	Osteichthyes	MCCRACKEN		E	Reference
<i>Myotis sodalis</i>	Indiana myotis	Mammalia	MCCRACKEN	LE	E	Reference
<i>Obovaria retusa</i>	ring pink	Bivalvia	MCCRACKEN	LE	E	Reference
<i>Notropis maculatus</i>	taillight shiner	Osteichthyes	MCCRACKEN		T	Reference
<i>Nyctanassa violacea</i>	yellow-crowned night-heron	Aves	MCCRACKEN		T	Reference



## United States Department of the Interior

## FISH AND WILDLIFE SERVICE

446 Neal Street  
Cookeville, TN 38501

September 18, 2002

Mr. James L. Elmore, Ph.D.  
U.S. Department of Energy  
Oak Ridge Operations Office  
P.O. Box 2001  
Oak Ridge, Tennessee 37831

Dear Dr. Elmore:

Thank you for your letter and enclosures received July 23, 2002, regarding the preparation of an Environmental Impact Statement (EIS) for the proposed construction and operation of a facility to convert DUF<sub>6</sub> to a more stable chemical form at the Paducah Gaseous Diffusion Plant (PGDP) in McCracken County, Kentucky. The referenced maps of the PGDP and proposed facility locations were not included in your letter. U.S. Fish and Wildlife Service personnel have reviewed the information submitted and offer the following comments for consideration.

According to our records, the following federally listed endangered species may occur on or near the PGDP:

Indiana bat *Myotis sodalis*

A qualified biologist should assess potential impacts and determine if the proposed project may affect the species. We recommend that you submit a copy of your assessment and the draft EIS to this office for review and concurrence. A finding of "may affect" could require the initiation of formal consultation procedures.

These constitute the comments of the U.S. Department of the Interior in accordance with provisions of the Endangered Species Act (87 Stat. 884, as amended: 16 U.S.C. 1531 et seq.). We appreciate the opportunity to comment. Should you have any questions or need further assistance, please contact Steve Alexander of my staff at 931/528-6481, ext. 210, or via e-mail at [steven\\_alexander@fws.gov](mailto:steven_alexander@fws.gov).

Sincerely,

Lee A. Barclay, Ph.D.  
Field Supervisor

xc: Wayne Davis, KDFWR, Frankfort  
Laila Lienesch, FWS, Frankfort

DONALD S. DOTT, JR.  
DIRECTOR



PAUL E. PATTON  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
**KENTUCKY STATE NATURE PRESERVES COMMISSION**  
801 SCHENKEL LANE  
FRANKFORT, KENTUCKY 40601-1403  
(502) 573-2886 VOICE  
(502) 573-2355 FAX

August 12, 2002

James L. Elmore, Ph.D.  
Department of Energy  
Oak Ridge Operations Office  
P.O. Box 2001  
Oak Ridge, TN 37831-2001

Dear Dr. Elmore:

This letter is in response to your data request of July 12, 2002 for State-Listed species information in the vicinity of the Paducah Gaseous Diffusion Plant DUF<sub>6</sub> Conversion facility project. We have reviewed our Natural Heritage Program Database to determine if any of the endangered, threatened, or special concern plants and animals or exemplary natural communities monitored by the Kentucky State Nature Preserves Commission occur in the area. Based on our most current information, we have determined that 68 occurrences of the plants or animals and one occurrence of the exemplary natural communities that are monitored by KSNPC are reported as occurring in the specified area. Please see the attached report for more information. I have included a separate report of the species known from McCracken County, Kentucky as well.

Data and data products received from the Kentucky State Nature Preserves Commission, including any portion thereof, may not be reproduced in any form or by any means without the express written authorization of the Kentucky State Nature Preserves Commission. The exact location of plants, animals, and natural communities, if released by the Kentucky State Nature Preserves Commission, may not be released in any document or correspondence. These products are provided on a temporary basis for the express project (described above) of the requester, and may not be redistributed, resold or copied without the written permission of the Kentucky State Nature Preserves Commission's Data Manager (801 Schenkel Lane, Frankfort, KY, 40601. Phone: (502) 573-2886).



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August 12, 2002

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. We would greatly appreciate receiving any pertinent information obtained as a result of on-site surveys.

If you have any questions or if I can be of further assistance, please do not hesitate to contact me.

Sincerely,



Sara Hines  
Data Manager

Enclosures: Data Report and Interpretation Key, McCracken County List  
Endangered, Threatened, and Special Concern Plants and Animals of Kentucky  
Plants and Animals Presumed Extinct or Extirpated from Kentucky  
Monitored Natural Communities of Kentucky

**Data Key for Element and Occurrence Reports (v. 3.98)**  
 Kentucky State Nature Preserves Commission  
 Natural Heritage Program Data Services

Many of the data fields on the enclosed report are easily understood. Other fields, however, use abbreviations and formats that are not always self-explanatory. A key to these fields follows. Your report may contain some or all of the following data fields.

BEARING:	Bearing in degrees from a center point to an occurrence's latitude and longitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U, and Q precision occurrence records.
BESTSOURCE:	Best available reference to the occurrence: literature citation, collector, collection number, museum or herbarium code, etc.
COMMENTS:	Additional information about the occurrence including identification, taxonomy, or date of occurrence.
DIRECTIONS:	Directions to an occurrence. This field is masked for sensitive occurrences; contact KSNPC in these cases.
DISTANCE:	Distance from a center point to an occurrence's latitude and longitude. Units coded as M (miles), K (kilometers), and F (feet). This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U, and Q precision occurrence records.
ELCODE:	Element (species) code.
EOCODE:	Element (species) code, occurrence number (last three digits), and state.
EODATA:	Occurrence population data: date of observation, number of individuals, health, size of colony, flowering data, etc.
EORANK:	Judgement of occurrence quality: A = excellent, B = good, C = marginal, D = poor, E = verified extant but quality not judged, O = obscure (not found at reported site but more searching needed), H = historically known from site but no known observation or collection since 1975, X = extirpated from site.
FIRSTOBS:	Year of first known observation or collection.
GENDESC:	Description of an occurrence's habitat.
GRANK:	Estimate of element abundance on a global scale: G1 = extremely rare, G2 = rare, G3 = uncommon, G4 = common, G5 = very common, GH = historically known and expected to be rediscovered, GU = uncertain, GX = extinct. Subspecies and variety abundances are coded with a 'T' suffix; the 'G' portion of the rank then refers to the entire species.
HABITAT:	General description of the element's habitat across its range.
IDENT:	Whether the identification has been checked by a reliable individual and is believed to be correctly identified: Y = identification confirmed and believed correct, N = No, identification determined to be wrong despite reports to the contrary, ? = Whether identification is correct or not is confusing or disputed, blank or U = unknown whether identification correct or not, assumed correct.
KSNPC:	Kentucky State Nature Preserves Commission status: N or blank = none, E = endangered, T = threatened, S = special concern, H = historic, X = extirpated.
LASTOBS:	Year(-month-date) of most recent known observation or collection.
LAT:	Latitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U and Q precision occurrences.
LONG:	Longitude. This field is masked for sensitive occurrences; contact KSNPC in these cases. Omitted for G, U and Q precision occurrences.
MAP NUMBER:	Number used to location the element on KSNPC Heritage maps.
MARGNUM:	See MAP NUMBER.
PREC:	See PRECISION.

KSNPC  
Data Request No. 03-022

Rate Species and Communities Recorded for the Proposed DUF<sub>6</sub> Conversion Facility at the Paducah Gaseous Diffusion Plant.

Pg 1 of 7  
8/12/02

ECCODE	SCINAME	SCINAME	BRANK	SPROT	IDENT	LASTOBS	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
***Vascular Plants											
PDPAB060417015KY	BAPTISIA BRACTEATA VAR LEUCOPHAEA	CREAM WILD INDIGO	G4G5T4T5	S3	Y	1997-05-11	McCracken	HEATH	WEST KY WMA, RD AROUND NUCLEAR PLANT (DYKE RD).		PRAIRIES AND OPEN WOODS ON SANDY SOIL.
PDUJ061010022KY	CARYA AQUATICA	WATER HICKORY	G5	T	Y	1997-	McCracken	JOPPA	METROPOLIS LAKE.		BOTTOMLANDS AND FLOODPLAIN SWAMPS.
PDSTY010307021KY	HALESIA TETRAPTERA	MOUNTAIN SILVER-BELL	G2	R	Y	2001-04-13	McCracken	JOPPA	METROPOLIS LAKE SWP, SW END OF METROPOLIS LAKE, CA 0.3 AIR MILE OF POWERPLANT LOCATED OFF OF KY 996.		RICH WOODS AND EDGES OF SLOUGHS AND OXBOW LAKES.
PDSTY010307015KY	HALESIA TETRAPTERA	MOUNTAIN SILVER-BELL	G2	R	Y	1991-06-20	McCracken	JOPPA	CIRCA 1.0 AIR MI WNW OF N CORNER OF SETTLING PONDS FOR SHAWNEE STEAM PLANT ALONG RIDGE ABOVE OHIO RIVER.		RICH WOODS AND EDGES OF SLOUGHS AND OXBOW LAKES.
PDAST6C040701KY	MELANTHERA NIVEA	SNOW MELANTHERA	G3	S	Y	2001-07-23	McCracken	JOPPA	METROPOLIS LAKE, OFF KY 996, W OF PADUCAH.		FLOODPLAINS AND SANDY WOODS INCLUDING DISTURBED OPENINGS.
PMP0A4805005KY	MUHLENBERGIA GLABRIFLORIS	HAIR GRASS	G4?	S2S3	Y	1977-08-21	McCracken	JOPPA	ALONG METROPOLIS FERRY ROAD, OFF OF KY 1420, 725 BETWEEN KY 726 AND KY 1154 (MARGINUM 34, 37055N, 844838W), (MARGINUM 35, 370513N, 844859W), (MARGINUM 36, 370521N, 844905W), (MARGINUM 37, 370515N, 844908W), (MARGINUM 38, 370517N, 844918W); JCT OF MAGRUDER RD		DRY, DESICCATED OR BAKED SOILS, PRAIRIES, GRAVELS, OR ROCKY SLOPES AND MEDLEY REPORTS WET WOODS, MARSH EDGES AND FIELDS.
PDASTL0827015KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	S2	Y	1993-07	McCracken	HEATH	WEST KENTUCKY WILDLIFE MANAGEMENT AREA BETWEEN SPRING BAYOU (BAYOU CREEK) AND ACID RD, CA 0.5 AIR MI NW OF SPRING BAYOU CHURCH.		PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
PDASTL0827025KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	S2	Y	1993-07	McCracken	HEATH	BOTH SIDES OF UNPAVED GRAVEL RD, CA 0.7 AIR M S OF SOUTH ACID RD (MARGINUM 23), (MARGINUM 22, 370510N, 844935W), (MARGINUM 40, 37053N, 844948W), (MARGINUM 41, 370548N, 844932W), (MARGINUM 42, 370545N, 844945W).		PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
PDASTL0827016KY	SILPHIUM LACINATUM VAR ROBINSOII	COMPASS PLANT	G5T?	S2	Y	1993-07	McCracken	HEATH	BOTH SIDES OF UNPAVED GRAVEL RD, CA 0.7 AIR M S OF SOUTH ACID RD (MARGINUM 23), (MARGINUM 22, 370510N, 844935W), (MARGINUM 40, 37053N, 844948W), (MARGINUM 41, 370548N, 844932W), (MARGINUM 42, 370545N, 844945W).		PRAIRIES INCL. REMNANTS OF THIS FLORA ON ROADSIDES AND FIELDS.
***Gastropod											
IMGASG107009KY	LEPTOXIS PRAERIOSA	ONYX ROCKSMAIL	G5S4	S	Y	1990-10-18	McCracken	JOPPA	OHIO RIVER AT MILE 446.0, LITTLE CHAIN BAR.		CALL (1815) INDICATED THAT IN THE OHIO RIVER AT THE FALLS IT OCCURRED IN THE GREATEST PROPORTION WHERE THE BOTTOM IS CLEAN ROCK OR ROCK WITH ABUNDANT "CONIFEROID" VEGETATION.
IMGASG107023KY	LITHASIA VERRUCOSA	VARICOSE ROCKSMAIL	G3G4	S	Y	1990-10-08	McCracken	JOPPA	OHIO RIVER AT MILE 446.0, LITTLE CHAIN BAR.		OBSERVATIONS ON THE HABITAT INCLUDE SPECIMENS TAKEN FROM RECENTLY EXPOSED BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (HAG AND PALMER-BALL, PERS COMM).

Rare Species And Communities Recorded for the Proposed DUF<sub>6</sub> Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC  
Data Request No. 08-022

ECCODE	SNAME	SCOMNAME	SRANK	SRANK	SPROT	USESA	DENT	LASTOBS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
***Bivalves														
IMBV21107054*XY	LAMPUSILUS ABRUPTA	PIHK MUCKET	GS	GS	RE	Y	Y	2001-08-31	S	McCracken	JOPPA	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE.	APPARENTLY MORE COMMONLY FROM GRAVEL AND COBBLE, COLLECTED FROM SHALLOW AND DEEP WATER WITH CURRENT VELOCITY RANGING FROM ZERO TO SWIFT (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, BUCHANAN 1989), BUT NEVER STANDING POOLS OF WATER (LAURITSEN PARMALEE 1987, STANSEERY 1976), BUT OCCURS IN MEDIUM-SIZED STREAMS IN GRAVEL, SAND, OR EVEN MUD (PARMALEE 1987, JOHNSON 1970, GORDON AND LAYZER 1989). IN THE LOWER WABASH AND OHIO RIVERS SPECIMENS WERE TAKEN IN DEEP WATER (6-10 FEET OR MORE) IN CURRENT FROM SAND	
IMBV211307079*XY	LAMPUSILUS OVATA	POCKETBOOK	GS	GS	RE	Y	Y	1954-06-30	S	McCracken	JOPPA	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).	
IMBV240207032*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	GS	GS	RE	Y	Y	1907-08-18	S	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).	
IMBV240207053*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	GS	GS	RE	Y	Y	1999-08-07	S	McCracken	JOPPA	OHIO R. AT LITTLE CHAIN BAR CA R MI 948.	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).	
IMBV240207055*XY	PLETHOBASIS COOPERIANUS	ORANGEFOOT PINPLEBACK	GS	GS	RE	Y	Y	2001-08-31	S	McCracken	JOPPA	OHIO RIVER MILE 948.4, CA 120 M FROM KY SHORE	USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).	
IMBV240307080*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	GS	GS	RE	Y	Y	1954-06-30	S	McCracken	JOPPA	OHIO RIVER BETWEEN METROPOLIS AND JOPPA (PLOTTED AT MIDPOINT).	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).	
IMBV240307087*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	GS	GS	RE	Y	Y	1955-05-17	S	McCracken	JOPPA	OHIO RIVER AT JOPPA.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).	
IMBV240307085*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	GS	GS	RE	Y	Y	1907-08-18	S	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).	
IMBV240307125*XY	PLETHOBASIS CYPHIUS	SHEEPIOSE	GS	GS	RE	Y	Y	1999-08	S	McCracken	JOPPA	OHIO RIVER AT LITTLE CHAIN BAR, CA MI 948.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).	
IMBV270307001*XY	POTAMILUS CAPAX	FAT POCKETBOOK	GS	GS	RE	Y	Y	1907-08	S	McCracken	BANDANA	OHIO R. AT HILLERMAN, MASSAC CO., ILL.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989). BACK CHANNELS, AND SOMETIMES IN DITCHES, IN MUD (COZZE), MIXED SAND, MUD, AND CLAY; OR FINE SILT AND MUD IN FLOWING WATER AT DEPTHS OF A FEW INCHES UP TO EIGHT FEET (PARMALEE 1987, AHLSTEDT AND JENKINSON 1987, CUMMINGS AND MAYER 1983, CUMMINGS ET AL. 1980). BACK CHANNELS, AND SOMETIMES IN DITCHES, IN MUD (COZZE), MIXED SAND, MUD, AND CLAY; OR FINE SILT, AND MUD IN FLOWING WATER AT DEPTHS OF A FEW INCHES UP TO EIGHT FEET (PARMALEE 1987, AHLSTEDT AND JENKINSON 1987, CUMMINGS AND MAYER 1983, CUMMINGS ET AL. 1980).	
IMBV270307029*XY	POTAMILUS CAPAX	FAT POCKETBOOK	GS	GS	RE	Y	Y	1999-09-07	S	McCracken	JOPPA	OHIO RIVER AT CA R MI 948.6, BAR AT POWERLINE CROSSING.	USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1987, GORDON AND LAYZER 1989).	
IMBV280417041*XY	QUADRULA CYLINDRICA CYLINDRICA	RABBITSFOOT	GS?	GS?	RE	Y	Y	1907-08-18	S	McCracken	BANDANA	OHIO RIVER AT HILLERMAN, IL.	SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT, SOMETIMES IN DEEP WATER (PARMALEE 1987, BOGAN AND PARMALEE 1983).	

ECCODE	SWNAME	SCOMNAME	GRANK	SRANK	SFROT	USESA	IDENT	LASTOBS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
IMBV03041007KY	QUADRULA CYLINDRICA CYLINDRICA	RABBITSFOOT	G3T3	S2	T	Y		1987-05-21	o	McCracken	JOPPA		OHIO RIVER, ORH 945, AT END OF ROAD THAT PASSES E SIDE OF METROPOLIS LAKE, 10 MI WNW OF PADUCAH.	SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT. SOMETIMES IN DEEP WATER (PARMALEE 1997, BOGAN AND PARMALEE 1983).
***Cudaceans														
ICMALL10907004KY	ORCONICTES LANCIFER	A GRAYFISH	GS	S1	E	Y		1975-04-28	o	McCracken	JOPPA		METROPOLIS LAKE 4.8 KM N GRAHAMVILLE NEAR END OF HWY 305 (ACTUALLY END OF HWY 895 AND DRIVEWAY TO LAKE).	OXBOW LAKES AND STREAMS ON THE GULF COASTAL PLAIN (PAGE 1985) WHERE IT LIVES AMONG ORGANIC DEBRIS, USUALLY NEAR BALD CYPRESS (BURR AND HOBBS 1984).
***Fishes														
AFCA00201002KY	ATRACTOSTEUS SPATULA	ALLIGATOR GAR	G3G4	S1	E	Y		1975-06-27	o	McCracken	JOPPA		OHIO RIVER AT SHAWNEE STEAM PLANT, NEAR PADUCAH.	SLEASHY POOLS AND BACKWATERS OF LARGE RIVERS, BACKWATERS, AND OXBOW LAKES (BURR AND WARREN 1986, PAGE AND BURR 1991, ETNIER AND STARNES 1993).
AFCL0350207008KY	ERIMYZON SUCCETTA	LAKE CHUBSUCKER	GS	S2	T	Y			o	McCracken	JOPPA		OHIO RIVER, SHAWNEE STEAM PLANT W OF PADUCAH.	LOWLAND LENTIC HABITATS (WETLANDS AND FLOODPLAIN LAKES) WITH SUBMERGED AND FLOATING VEGETATION (BURR AND WARREN 1986, ETNIER AND STARNES 1993).
AFCH0010407003KY	ESOX NIGER	CHAIN PICKEREL	GS	S3	S	Y		1972-05-28	o	McCracken	JOPPA		METROPOLIS LAKE, 4.3 KM N GRAHAMVILLE.	COASTAL PLAIN WETLANDS, STREAMS, AND VEGETATED OXBOW LAKE SHORELINES, AND IT ALSO TOLERATES RESERVOIR CONDITIONS (BURR AND WARREN 1986, ETNIER AND STARNES 1993).
AFCL06160307004KY	HYBOMYXINUS HATI	CYPRESS MINNOW	GS	S1	E	Y		1989-07-21	o	McCracken	JOPPA		METROPOLIS LAKE, 3 MI N GRAHAMVILLE.	COASTAL PLAIN AND SHAWNEE HILLS, USUALLY OVER MUD OR SAND BOTTOMS, BUT OCCASIONALLY ASSOCIATED WITH SUBMERGED AQUATIC VEGETATION OR OTHER COVER (BURR AND WARREN 1986, PFLIEGER 1975, SMITH 1979, GILBERT 1990, BURR ET AL. 1990). NEEDS WETLANDS ADJACENT CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT.
AFBA00207006KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1951-	o	McCracken	JOPPA		OHIO RIVER AT JOPPA, ILLINOIS.	LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFBA00207007KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1951-	o	McCracken	METROPOLIS		OHIO RIVER AT METROPOLIS, ILLINOIS.	CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT. LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFBA00207010KY	ICHTHYOMYZON CASTANEUS	CHESTNUT LAMPREY	GS	S2	S	Y		1974-04-17	o	McCracken	JOPPA		OHIO RIVER, AT SHAWNEE STEAM PLANT.	LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLIEGER 1975, RORDE AND LANTEIGNE-COURCHERE 1989, SCOTT AND CROSSMAN 1973, SMITH 1979).
AFCL0070307016KY	ICTIOBUS NIGER	BLACK BUFFALO	SB	S3	S	Y		1997-08-30	o	McCracken	JOPPA		OHIO RIVER, SHAWNEE STEAM PLANT, NW OF PADUCAH.	RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOME TIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).
AFCL0070307025KY	ICTIOBUS NIGER	BLACK BUFFALO	SB	S3	S	Y		1995-04	o	McCracken	JOPPA		LITTLE BAY OU CREEK (AT UNNAMED RD NR HOOPER CEMETERY CA 2.0 AIR KM NW OF KY 896-KY 1403 JCT).	RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOME TIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).

ECCODE	SCINAME	SHNAME	SCOMNAME	SRANK	SRANK	SPROT	USES	IDENT	LASTDTS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
AFC02070307027KY	ICTOBUS NIGER		BLACK BUFFALO	G	S2	S	Y	Y	1997-03	0	McCracken	JOPPA	BIG BAYOU CREEK (CA. 0.4 STREAM KM S OF WEST BOONE RD CROSSING)	RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOMETIME SWIFT CURRENT (BECKER 1983, PFLIEGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).	
AFC0B112070327KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1997-03	0	McCracken	HEATH	LITTLE BAYOU CK AT KY 338 (SITE 12)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0B112070357KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1998-04	0	McCracken	JOPPA	LITTLE BAYOU AT UNNAMED RD (SITE 10) (NR HOOPER CEMETERY CA 2.0 AIR KM NW OF KY #66(KY 142) JCT.)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0B112070347KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1998-06	0	McCracken	JOPPA	BIG BAYOU CREEK AT BOLDY RD, 2.8 RIVER KM FROM MOUTH (SITE 14)	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0B11207007KY	LEPOMIS MINIATUS		REDSPOTTED SUNFISH	G	S2	T	Y	Y	1998-04-02	0	McCracken	JOPPA	METROPOLIS LAKE, 4.8 KM N OF GRAHAMVILLE	OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLIEGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0A020107007KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1992-06-04	0	McCracken	JOPPA	OHIO RIVER NEAR JOPPA.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0A020107009KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1992-09-25	0	McCracken	JOPPA	OHIO RIVER MILE 844-848, NEAR SHAWNEE STEAM PLANT.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0A020107012KY	MENIDIA BERYLLINA		INLAND SILVERSIDE	G	S2	T	Y	Y	1993-07-21	0	McCracken	JOPPA	METROPOLIS LAKE AT BOAT RAMP.	SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0B068507002KY	NOTROPIS MACULATUS		TALLIGHT SHINER	G	S2S3	T	Y	Y	1998-04-02	0	McCracken	JOPPA	METROPOLIS LAKE, 5 KM N GRAHAMVILLE	LOW GRADIENT STREAMS, OYBOW LAKES, AND SLOUGHS IN AND AROUND CYPRESS KNEES, MARGINAL VEGETATION, AND ACCUMULATIONS OF STICKS AND DETRITUS (BURR AND PAGE 1973, BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0A022207047KY	NOTURUS STIGMOSUS		NORTHERN MADTOW	G	S2S3	S	Y	Y	1998-04-08	0	McCracken	JOPPA	OHIO RIVER AT SHAWNEE STEAM PLANT, NW OF PADUCAH.	LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEERS OR PONIVED FOR COVER (BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AFC0A022207037KY	NOTURUS STIGMOSUS		NORTHERN MADTOW	G	S2S3	S	Y	Y	1998-04-08	0	McCracken	JOPPA	OHIO R AT LITTLE CHAIN BAR.	LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEERS OR PONIVED FOR COVER (BURR AND WARREN 1986, ETNIER AND STARNES 1989).	
AAABC020607035KY	HYLA CINEREA		GREEN TREEFROG	G	S3	S	Y	Y	1987-06-28	0	McCracken	JOPPA	CIRCA 0.3 AIR MI SW OF TIP OF SHAWNEE STEAM PLANT SETTLING PONDS.	FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.	

\*\*\*Amphibians

Rare Species And Communities Recorded for the Proposed DUF<sub>6</sub> Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC  
Data Request No. 03-022

ECCODE	SWNAME	SCOMMNAME	BRANK	SRANK	SPROT	IDENT	LASTOBS	PREO	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
AAAB02080034*XY	HYLA CINEREA	GREEN TREEFROG	S3	S3	S	Y	1991-06-25	0	McCracken	JOPPA		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 1.4 AIR MI NW OF THE TIP OF THE IN-MOST SHANNEE STEAM PLANT SETTLING POND.	FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.
AAAB01014749*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1964-03-07	0	McCracken	PADUCAH WEST		US 62, 3.0 MI SW OF PADUCAH.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014750*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1964-03-13	0	McCracken	HEATH		US 60, 0.6 MI E OF FUTURE CITY, 10 MI W OF PADUCAH.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014707*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	0	McCracken	JOPPA		MARTIN CEMETERY, S SIDE KY 358 CA 0.6 RD MI E JCT BETHEL CHURCH RD.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014707*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-20	0	McCracken	HEATH		CIRCA 0.2 AIR MI E OF KY 154, CA 1.2 RD MI N OF ITS JCT W US 60.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014703*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	0	McCracken	JOPPA		CIRCA 0.3 RD MI E OF BETHEL CHURCH RD, CA 1.0 RD MI S JCT KY 358 (MARGNUM 33), CA 1.0 AIR MI SSE JCT KY 358 AND BETHEL CHURCH ROAD (MARGNUM 34, 37078N, 88484W).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014709*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	0	McCracken	HEATH		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, N SIDE WATER WORKS RD JUST W OF FILTRATION PLANT.	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014701*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-20	0	McCracken	HEATH		MI NW JCT KY 358 AND CORDEN LANDING RD (MARGNUM 14), WEST KY WMA, CA 1.3 RD MI W JCT KY 986 AND KY 358 ON N SIDE KY 358 (MARGNUM 15, 37072N, 88738W), WEST KY WMA, 1.5 RD MI W OF JCT KY 986 AND KY 358, 0.15 AIR MI S OF WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 0.1 RD MI NW OF JCT KY 358 AND KY 985, DOWN ROAD JUST SE OF LODGE (MARGNUM 36), AND CA 0.15 RD MI NW OF JCT KY 358 AND KY 985, DOWN RD JUST SE OF LODGE (MARGNUM 39).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014701*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1999-02-27	0	McCracken	JOPPA		WEST KENTUCKY WILDLIFE MANAGEMENT AREA, CA 0.6 RD MI SW OF JCT KY 985 AND KY 358, CA 0.15 AIR MI W OF KY 985, CA 0.3 RD MI SW OF AREA OFFICE (LODGE).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.
AAAB01014706*XY	RANA AREOLATA CIRCULOSA	NORTHERN CRAWFISH FROG	G4T4	S3	S	Y	1991-03-18	0	McCracken	HEATH		CIRCA 0.4 AIR MI NW OF SPRING BAYOU CHURCH ON KY 725 (MARGNUM 11), CA 0.7 RD MI W OF SPRING BAYOU CHURCH ON KY 725 ON N SIDE OF RD (MARGNUM 12, 37632N, 88303W).	BREEDS IN PONDS IN FARMLAND AND EDGE. REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.

\*\*\*Replies

OPEN WATER HABITATS: MOST NUMEROUS IN OPEN RIVER SITUATIONS WITH GRAVEL OR SAND SUBSTRATES, BUT ALSO PRESENT IN SLOWER RIVERS AND IMPOUNDMENTS.  
OHIO RIVER: NEAR BOAT RAMP ACROSS FROM JOPPA (ASSUMED TO BE NEAR METROPOLIS), ILL.

MIDLAND SMOOTH SOFTSHELL  
APALONE MUTICA  
METROPOLIS

Rare Species and Communities Recorded for the Proposed DUF<sub>6</sub> Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC  
Data Request No. 08-022

ECCODE	SCINAME	SCOMNAME	GRANK	SRANK	SPROT	USESA	IDENT	LASTORS	PREC	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
ABPB01607028KY	AMOPHILA AESTIVALIS	BACHMAN'S SPARROW	G3	S1B	Y	Y	Y	1851-07-17	X	McCracken	PADUCAH WEST	OHIO RIVER FROM TENNESSEE RIVER TO MISSISSIPPI RIVER	5 MI W OF PADUCAH.	OPEN PINE WOODS WITH SCATTERED BUSHES OR UNDERSTORY BRUSH OR OVERGROWN HILLSIDES, OVERGROWN FIELDS WITH THICKETS AND BRAEMLES, GRASSY ORCHARDS.
ABPW102807014KY	CORVUS OSSIFRAGUS	FISH CROW	G3	S3B, S34	Y	Y	Y	1980-06-27	H	McCracken	JOPPA	TENNESSEE RIVER TO MISSISSIPPI RIVER	WEST KY WMA, ALONG OHIO RIVER AT EDGE OF BOTTOMLAND FOREST.	BEACHES, BAYS, LAGOONS, INLETS, SWAMPS, NEAR MARSHES, AND, LESS FREQUENTLY, DECIDUOUS OR CONIFEROUS WOODLAND, IN LAND SITUATIONS PRIMARILY IN BALDUPRESS SWAMPS AND ALONG MAJOR WATERCOURSES. ALSO GARBAGE DUMPS.
ABNB20107004KY	LOPHODITES CUCULLATUS	HOODED MERGANSER	G3	S12B, S34	Y	Y	Y	1980-05-08	H	McCracken	JOPPA	WEST KENTUCKY WILDLIFE MANAGEMENT AREA, 3.9 MI NNW OF GRAHAMVILLE.	STREAMS, LAKES, SWAMPS, MARSHES, AND ESTUARIES, WINTERS MOSTLY IN FRESHWATER BUT ALSO REGULARLY IN ESTUARIES AND SHELTERED BAYS (BSCCONGIMA).	
ABPW01107001KY	VIREO BELLII	BELL'S VIREO	G3	S23B	Y	Y	Y	1980-06-27	H	McCracken	JOPPA	ALONG LITTLE BAYOU CREEK, ADJ TO THE W SIDE OF THE ASH SETTLING POND AT THE SHAWNEE STEAM PLANT, 6 MI NNW OF GRAHAMVILLE.	DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BSCCONGIMA); MOST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.	
ABPW11107002KY	VIREO BELLII	BELL'S VIREO	G3	S23B	Y	Y	Y	1984-05-05	S	McCracken	JOPPA	WEST KENTUCKY WMA, W SIDE OF MAIN GRAVEL RD, CA 1.0 MIS OF ENTRANCE ON KY 358.	DENSE BRUSH, MESQUITE, STREAMSIDE THICKETS, AND SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BSCCONGIMA); MOST WOODLAND, BOTTOMLANDS, WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.	
***Mammals														
AMCC010307028KY	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN MYOTIS	G3G4	S1S2	Y	Y	Y	1998-07-14	S	McCracken	HEATH	WEST KENTUCKY WMA, BAYOU CREEK JUST UPSTREAM OF SOUTH ACID RD.	THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.	
AMCC010307027KY	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN MYOTIS	G3G4	S1S2	Y	Y	Y	1998-07-22	S	McCracken	JOPPA	BAYOU CREEK RIDGE STATE NATURAL AREA, W END ON H SIDE OF CREEK, CA 0.1 AIR MI SE OF END OF WMA RD TO OHIO RIVER.	THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.	
AMCC011007014KY	MYOTIS SOCALLIS	INDIANA BAT	G2	S1S2	Y	Y	Y	1989-07-28	S	McCracken	JOPPA	WEST KENTUCKY WILDLIFE MANAGEMENT AREA, W OF BAYOU CREEK RIDGE SMA, CA 0.1 AIR MI SE OF END OF RD (MARGNUM 24), AND CA 0.15 RD MI SE OF BAYOU CREEK ALONG OLD RD (MARGNUM 88).	INDIANA BATS USE PRIMARILY CAVES FOR HIBERNACULA, ALTHOUGH THEY ARE OCCASIONALLY FOUND IN OLD MINE PORTALS.	
AMCC060107015KY	NYCTICEBUS HUMERALLIS	EVENING BAT	G3	S233	Y	Y	Y	1989-07-28	S	McCracken	JOPPA	0.4 AIR MI SSE OF END OF RD TO OHIO RIVER (MARGNUM 26), AND JUST DOWNSTREAM OF GRAVEL RD CROSSING (MARGNUM 88), AND W OF BAYOU CR RIDGE, CA 0.1 AIR MI SE OF N END OF WMA ROAD TO THE OHIO RIVER (MARGNUM 28).	THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.	
AMCC060107047KY	NYCTICEBUS HUMERALLIS	EVENING BAT	G3	S233	Y	Y	Y	1989-08-02	S	McCracken	JOPPA	WEST KY WMA, ALONG BAYOU CREEK CA 0.8 AIR MI WSW OF HEADQUARTERS.	THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER.	

\*\*\*Palustrine Communities

Pg 7 of 7  
8/12/02

Rare Species And Communities Recorded for the Proposed DUF<sub>6</sub> Conversion Facility at the Paducah Gaseous Diffusion Plant.

KSNPC  
Data Request No. 03-022

ECCODE	SNAME	SCOMNAME	SRANK	SPROT	USESA	IDENT	LASTOBS	PREC	BOFRANK	COUNTY	7.5 MINUTE QUADRANGLE	EPA WATERBODY	DIRECTIONS	HABITAT
CPFCR0006701TKY	FLOODPLAIN RIDGE/TERRACE FOREST		S1	N	Y	1991-06	0	0		McCracken	JOPPA		WEST KY WILDLIFE MANAGEMENT AREA, BAYOU CREEK WOODS, CA 2.0 AIR MILE N.W. OF SHANNICE STEAM PLANT.	

69 Records Processed.