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Jeff DeRouen, Executive Director Public Service Commission of Kentucky 211 Sower Boulevard P. O. Box 615 Frankfort, Kentucky 40602

# RECEIVED

SEP 01 2011 PUBLIC SERVICE COMMISSION

September 1, 2011

# RE: The Application of Kentucky Utilities Company for Certificates of Public Convenience and Necessity and Approval of Its 2011 Compliance Plan for Recovery by Environmental Surcharge Case No. 2011-00161

Dear Mr. DeRouen:

Enclosed please find and accept for filing the original and fifteen (15) copies of Kentucky Utilities Company's Motion to Deviate from Requirement Governing Filing of Copies for certain responses to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club, and the Natural Resources Defense Council dated August 18, 2011, in the above-referenced matter.

Please confirm your receipt of this filing by placing the stamp of your Office with the date received on the attached additional copies. Please do not hesitate to contact the undersigned should you have any questions.

Sincerely,

Robert M. Conroy

cc: Parties of Record

Kentucky Utilities Company

State Regulation and Rates 220 West Main Street PO Box 32010 Louisville, Kentucky 40232 www.lge-ku.com

Robert M. Conroy Director - Rates T 502-627-3324 F 502-627-3213 robert.conroy@lge-ku.com

#### **COMMONWEALTH OF KENTUCKY**

#### **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

APPLICATION OF KENTUCKY UTILITIES)COMPANY FOR CERTIFICATES OF)PUBLIC CONVENIENCE AND NECESSITY)AND APPROVAL OF ITS 2011 COMPLIANCE)PLAN FOR RECOVERY BY)ENVIRONMENTAL SURCHARGE)

CASE NO. 2011-00161

# MOTION OF KENTUCKY UTILITIES COMPANY TO DEVIATE FROM REQUIREMENT GOVERNING FILING OF COPIES

Kentucky Utilities Company ("KU") by counsel, petitions the Kentucky Public Service Commission ("Commission") to grant KU approval pursuant to 807 KAR 5:001 § 14 to deviate from the requirement that parties file an original and fifteen (15) complete copies of all data responses and attachments. KU requests that it be excused from filing any paper copies of certain attachments to its responses because such attachments are voluminous and the requesting intervenor has asked KU to provide the attachments in an electronic format. Similarly, KU requests that it be excused from filing all paper copies but one with respect to another response because of the volume of the response. In support of its Motion, KU states as follows:

1. Pursuant to Commission's June 28, 2011 Order, KU must provide an original and fifteen (15) copies of all data responses and attachments to the Commission, along with a service copy to all parties of record. Certain of KU's attachments to its responses to the Joint Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club, and Natural Resources Defense Council (collectively, "Environmental Group") are voluminous, and the Environmental Group has requested certain information explicitly in electronic form. KU is therefore requesting permission to file only electronic copies of the attachments on compact disc for KU's responses to Request for Information Nos. 1 and 9, and to provide only one paper copy

of the attachments to KU's response to Request for Information No. 30 (the remainder of such copies to be provided electronically on compact disc).

2. The Environmental Group's Joint Supplemental Request for Information No. 1 asks for the names of the electronic files KU provided in response to the Environmental Group's Initial Request for the Production of Documents No. 26. By a motion dated August 5, 2011, KU requested a deviation from the paper filing requirement concerning its response to the Environmental Group's request due to the volume of the response, which response KU provided solely in electronic format on compact disc. KU now seeks to provide in response to the Environmental Group's Joint Supplemental Request for Information No. 1 the same electronic files provided in response to the Environmental Group's Joint Supplemental Group's Initial Request for the Production of Documents No. 26, this time with the full-length file names intact. Because KU will produce the same volume of data in this response as it produced in the previous response, it respectfully requests a deviation from the paper filing requirement and proposes to file all copies of this response with the Commission electronically on compact disc, and to provide all service copies in the same format.

3. The Environmental Group's Joint Supplemental Request for Information No. 9 explicitly asks for "data in an electronic or standard machine readable format" concerning annual capital expenditures for a broad range of items. KU proposes to comply with the request by providing the requested information in an electronic format on compact disc, and requests a deviation from the paper filing requirement to provide all copies of the response to the Commission and the intervenors in the same format.

4. KU's response to the Environmental Group's Joint Supplemental Request for Information No. 30 is voluminous, consisting of 540 pages. To produce a paper original and 15

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paper copies for the Commission would consume over 8,500 pages, and service copies would consume even more pages. For that reason, KU requests a deviation to produce a single paper copy to the Commission, with 15 additional copies and all service copies to be produced in electronic format on compact disc.

5. The Environmental Group's Initial Requests for Production of Documents explicitly requested that responses be provided in an electronic format ("Please produce the requested documents in electronic format ...."). Providing the above-listed attachments in the form KU is providing them complies with the Environmental Group's request.

6. KU is making all of the above requests to deviate from the paper filing requirement pursuant to 807 KAR 5:001 § 14.

WHEREFORE, KU requests the above-described deviations from the requirement that parties provide an original and fifteen (15) paper copies of discovery responses. KU requests that it be allowed to instead submit the attachments to responses identified above on compact discs in compliance with this requirement.

Dated: September 1, 2011

Respectfully submitted,

Kendrick R. Riggs W. Duncan Crosby III Monica H. Braun Stoll Keenon Ogden PLLC 2000 PNC Plaza 500 West Jefferson Street Louisville, Kentucky 40202-2828 Telephone: (502) 333-6000

Allyson K. Sturgeon Senior Corporate Attorney LG&E and KU Services Company 220 West Main Street Louisville, Kentucky 40202 Telephone: (502) 627-2088

Counsel for Kentucky Utilities Company

## **CERTIFICATE OF SERVICE**

I hereby certify that a true copy of the foregoing Motion to Deviate was served via U.S. mail, first-class, postage prepaid; overnight delivery; or hand-delivery, this 1st day of September 2011 upon the following persons:

Dennis G. Howard II Lawrence W. Cook Assistant Attorneys General Office of the Attorney General Office of Rate Intervention 1024 Capital Center Drive, Suite 200 Frankfort, KY 40601-8204

Michael L. Kurtz Kurt J. Boehm Boehm, Kurtz & Lowry 36 East Seventh Street, Suite 1510 Cincinnati, OH 45202

David C. Brown Stites & Harbison PLLC 400 West Market Street, Suite 1800 Louisville, KY 40202-3352

Kristin Henry Staff Attorney Sierra Club 85 Second Street San Francisco, CA 94105 Iris G. Skidmore Bates and Skidmore 415 West Main Street, Suite 2 Frankfort, KY 40601

David J. Barberie, Attorney Senior Leslye M. Bowman, Director of Litigation Government Center (LFUCG) Department of Law 200 East Main Street, Suite 1134 Lexington, KY 40507

Edward George Zuger III Zuger Law Office PLLC P.O. Box 728 Corbin, KY 40702

Shannon Fisk Senior Attorney Natural Resources Defense Council 2 N. Riverside Plaza, Suite 2250 Chicago, IL 60660

Counsel for Kentucky Utilities Company

## COMMONWEALTH OF KENTUCKY

RECEIVED

## **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

APPLICATION OF KENTUCKY UTILITIES COMPANY FOR CERTIFICATES OF PUBLIC CONVENIENCE AND NECESSITY AND APPROVAL OF ITS 2011 COMPLIANCE PLAN FOR RECOVERY BY ENVIRONMENTAL SURCHARGE SEP 01 2011

PUBLIC SERVICE COMMISSION

CASE NO. 2011-00161

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# PETITION OF KENTUCKY UTILITIES COMPANY FOR CONFIDENTIAL PROTECTION FOR RESPONSES TO CERTAIN DATA REQUESTS OF RICK CLEWETT, RAYMOND BARRY, SIERRA CLUB, AND NATURAL RESOURCES DEFENSE COUNCIL

Kentucky Utilities Company ("KU") hereby petitions the Kentucky Public Service Commission ("Commission") pursuant to 807 KAR 5:001, Section 7, and KRS 61.878(1)(c) to grant confidential protection for the items described herein, which KU seeks to provide in response to the Second Data Requests of Rick Clewett, Raymond Barry, Sierra Club and Natural Resources Defense Council, Request No. 28. In support of this Petition, KU states as follows:

## Confidential or Proprietary Commercial Information (KRS 61.878(1)(c))

1. The Kentucky Open Records Act exempts from disclosure certain commercial information. KRS 61.878(1)(c). To qualify for the exemption and, therefore, maintain the confidentiality of the information, a party must establish that the material is of a kind generally recognized to be confidential or proprietary, and the disclosure of which would permit an unfair commercial advantage to competitors of the party seeking confidentiality.

2. Request No. 28 asks KU to provide all reports, memoranda, presentations, or other documents related to the status and need for coal-fired generating plants. In response, KU is providing confidential board minutes. The board minutes contain information showing KU's highest level decision making processes on numerous matters, including confidential and

proprietary matters. To the extent such information is obtained by competitors, those competitors would derive an unfair commercial advantage.

3. If the Commission disagrees with any of these requests for confidential protection, however, it must hold an evidentiary hearing (a) to protect KU's due process rights and (b) to supply with the Commission with a complete record to enable it to reach a decision with regard to this matter. <u>Utility Regulatory Commission v. Kentucky Water Service Company</u>, <u>Inc.</u>, 642 S.W.2d 591, 592-94 (Ky. App. 1982).

4. The information for which KU is seeking confidential treatment is not known outside of KU, is not disseminated within KU except to those employees with a legitimate business need to know and act upon the information, and is generally recognized as confidential and proprietary information in the energy industry.

5. KU will disclose the confidential information, pursuant to a confidentiality agreement, to intervenors and others with a legitimate interest in this information and as required by the Commission. In accordance with the provisions of 807 KAR 5:001, Section 7 and the Commission's June 28, 2011 Order in this proceeding, KU herewith files with the Commission one copy of the above-discussed responses with the confidential information highlighted and fifteen (15) copies of its responses without the confidential information.

WHEREFORE, Kentucky Utilities Company respectfully requests that the Commission grant confidential protection for the information at issue, or in the alternative, schedule and evidentiary hearing on all factual issues while maintaining the confidentiality of the information pending the outcome of the hearing.

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Dated: September 1, 2011

Respectfully submitted,

Infor Kendrick R. Riggs

Kendrick RyRiggs W. Duncan Crosby III Monica H. Braun Stoll Keenon Ogden PLLC 2000 PNC Plaza 500 West Jefferson Street Louisville, Kentucky 40202-2828 Telephone: (502) 333-6000

Allyson K. Sturgeon Senior Corporate Attorney LG&E and KU Services Company 220 West Main Street Louisville, Kentucky 40202 Telephone: (502) 627-2088

Counsel for Kentucky Utilities Company

#### **CERTIFICATE OF SERVICE**

I hereby certify that a true copy of the foregoing Petition was served via U.S. mail, firstclass, postage prepaid; overnight delivery; or hand-delivery, this 1st day of September 2011 upon the following persons:

Dennis G. Howard II Lawrence W. Cook Assistant Attorneys General Office of the Attorney General Office of Rate Intervention 1024 Capital Center Drive, Suite 200 Frankfort, KY 40601-8204

Michael L. Kurtz Kurt J. Boehm Boehm, Kurtz & Lowry 36 East Seventh Street, Suite 1510 Cincinnati, OH 45202

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Kristin Henry Staff Attorney Sierra Club 85 Second Street San Francisco, CA 94105 Iris G. Skidmore Bates and Skidmore 415 West Main Street, Suite 2 Frankfort, KY 40601

David J. Barberie, Attorney Senior Leslye M. Bowman, Director of Litigation Government Center (LFUCG) Department of Law 200 East Main Street, Suite 1134 Lexington, KY 40507

Edward George Zuger III Zuger Law Office PLLC P.O. Box 728 Corbin, KY 40702

Shannon Fisk Senior Attorney Natural Resources Defense Council 2 N. Riverside Plaza, Suite 2250 Chicago, IL 60660

Counsel for Kentucky Utilities Company



a PPL company

Jeff DeRouen, Executive Director Public Service Commission of Kentucky 211 Sower Boulevard P.O. Box 615 Frankfort, Kentucky 40602

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SEP 01 2011 PUBLIC SERVICE COMMISSION

**Kentucky Utilities Company** 

State Regulation and Rates 220 West Main Street PO Box 32010 Louisville, Kentucky 40232 www.lge-ku.com

Robert M. Conroy Director - Rates T 502-627-3324 F 502-627-3213 robert.conroy@lge-ku.com

September 1, 2011

#### The Application of Kentucky Utilities Company for Certificates of RE: Public Convenience and Necessity and Approval of Its 2011 Compliance Plan for Recovery by Environmental Surcharge Case No. 2011-00161

Dear Mr. DeRouen:

Enclosed please find an original and fifteen (15) copies of Kentucky Utilities Company's (KU) response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club, and the Natural Resources Defense Council dated August 18, 2011, in the above-referenced matter.

Also enclosed are an original and fifteen (15) copies of a Petition for Confidential Protection regarding certain information contained in response to Question No. 28.

Should you have any questions regarding the enclosed, please contact me at your convenience.

Sincerely, Robert M. Conroy

Parties of Record cc:

# **COMMONWEALTH OF KENTUCKY**

## **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE APPLICATION OF KENTUCKY UTILITIES	5)	
COMPANY FOR CERTIFICATES OF PUBLIC	)	
CONVENIENCE AND NECESSITY AND	)	CASE NO.
APPROVAL OF ITS 2011 COMPLIANCE PLAN	)	2011-00161
FOR RECOVERY BY ENVIRONMENTAL	)	
SURCHARGE	)	

# RESPONSE OF KENTUCKY UTILITIES COMPANY TO THE SUPPLEMENTAL REQUESTS FOR INFORMATION OF RICK CLEWETT, RAYMOND BARRY, SIERRA CLUB, AND THE NATURAL RESOURCES DEFENSE COUNCIL DATED AUGUST 18, 2011

FILED: SEPTEMBER 1, 2011

**COMMONWEALTH OF KENTUCKY** ) ) SS: **COUNTY OF JEFFERSON** )

The undersigned, **Daniel K. Arbough**, being duly sworn, deposes and says that he is Treasurer for Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Daniel K. Arbough

Subscribed and sworn to before me, a Notary Public in and before said County and State, this  $31^{\leq +}$  day of 2011.

Notary Public J. Elgy (SEAL)

November 9, 2014

# COMMONWEALTH OF KENTUCKY ) ) SS: COUNTY OF JEFFERSON )

The undersigned, **Lonnie E. Bellar**, being duly sworn, deposes and says that he is Vice President, State Regulation and Rates for Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Eselle

Lonnie E. Bellar

Subscribed and sworn to before me, a Notary Public in and before said County

and State, this  $31^{5\pm}$  day of 2011.

<u>Jamm J. Ely</u> (SEAL) Notary Public ()

November 9, 2014

**COMMONWEALTH OF KENTUCKY** ) ) ) SS: **COUNTY OF JEFFERSON** 

The undersigned, Charles R. Schram, being duly sworn, deposes and says that he is Director - Energy Planning, Analysis and Forecasting for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Charles R. Schram

Subscribed and sworn to before me, a Notary Public in and before said County and State, this  $31^{\text{st}}$  day of 12011.

Jammy J. Elny (SEAL) Notary Public ()

November 9, 2014\_

# COMMONWEALTH OF KENTUCKY ) ) SS: COUNTY OF JEFFERSON )

The undersigned, **Gary H. Revlett**, being duly sworn, deposes and says that he is Director – Environmental Affairs for LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

Jany H. Ruhr Gary H. Revlett

Subscribed and sworn to before me, a Notary Public in and before said County and State, this  $3/\frac{5+}{2}$  day of 2011.

Notary Public () Ely (SEAL)

November 9, 2014

COMMONWEALTH OF KENTUCKY ) ) SS: COUNTY OF JEFFERSON )

The undersigned, **John N. Voyles**, **Jr.**, being duly sworn, deposes and says that he is Vice President, Transmission and Generation Services for Kentucky Utilities Company and an employee of LG&E and KU Services Company, and that he has personal knowledge of the matters set forth in the responses for which he is identified as the witness, and the answers contained therein are true and correct to the best of his information, knowledge and belief.

John N. Voyles, Jr.

Subscribed and sworn to before me, a Notary Public in and before said County and State, this  $31^{5^{1}}$  day of 2011.

Notary Public J. Elmy (SEAL)

November 9, 2014

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

#### Question No. 1

- Q-1. File Names: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11. Please provide original file names for all documents contained in the Question 26 subfolders BreakevenFuel and BreakevenYears.
- A-1. The requested information is being provided on the attached CD in the folder titled Question No. 1.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

## Question No. 2

- Q-2. MTPCapital Costs: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517 LAK 11IRPRetireStudies MC1-2CombFGD.xlsx.
  - a. Please provide a detailed description of MTPCapital tab, and any documentation or workpapers that support the values given in the tab.
- A-2. The MTPCapital tab referenced in the above request contains revenue requirement information associated with ongoing capital costs. The table below summarizes the ongoing capital costs for each of the Companies' generating stations. These costs are assumed to escalate at 2.5% per year. For each station, the CER module of Strategist was used to compute revenue requirements for the 2011 capital cost. Then, the revenue requirements associated with the capital costs in the remaining years were computed by escalating the revenue requirements for the 2011 capital cost by 2.5%. The total revenue requirements by station were allocated to individual units based on the units' capacities. Please see attachment on CD to the response to SC-NRDC Production of Documents Question No. 26 in the folder titled CER/MTP/20110429\_MTPCapital.xlsx for the derivation of the annual ongoing capital costs by station.

	Ongoing Capital
Station	(2011 \$M)
Brown	5
Cane Run	3
Ghent	22
Green River	1
Mill Creek	16
Trimble	3
Tyrone	• 1

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## Question No. 3

- Q-3. Landfill Costs: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517\_LAK\_11IRPRetireStudies\_MC1-2CombFGD.xlsx.
  - a. Please provide a detailed description of LandfillCapital tab, and any documentation or workpapers that support the values given in tab.
  - b. Please explain the meaning and derivation of the values given in lines 24-33 of the LandfillCapital tab.
- A-3. a. The LandfillCapital tab contains the revenue requirements associated with future capital costs for the storage of coal combustion residuals. The revenue requirements were computed using the CER module of Strategist and allocated to individual units based on the units' capacities. The capital costs are taken from the 2009 ECR filing (see Case No. 2009-00197). Please see attachments on CD to the response to SC-NRDC Production of Documents Question No. 3 for the input and output files of the CER module of Strategist.
  - b. The values given in lines 24-33 are the revenue requirements associated with future capital costs for the storage of coal combustion residuals. Please see response to Question No. 3a.

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# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

## Question No. 4

- Q-4. Water Costs: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517\_LAK\_11IRPRetireStudies\_MC1-2CombFGD.xlsx.
  - a. Please provide a detailed description of WaterCapital tab, and any documentation or workpapers that support the values given in tab.
  - b. Please explain the meaning and derivation of the values given in lines 25-30 of the WaterCapital tab.
- A-4. a. The WaterCapital tab contains the revenue requirements associated with future capital costs for complying with effluent guidelines scheduled to be proposed in late 2012. The revenue requirements were computed using the CER module of Strategist and allocated to individual units based on the units' capacities. The capital costs are estimated based on a range of control costs provided by a consultant in our Trimble County KPDES Permit Application process. The capital costs were further refined using actual costs from a sister company's water treatment installation scaled to match our stations' expected volumes of water to be treated. Please see attachments on CD to the response to SC-NRDC Production of Documents Question No. 3 for the input and output files of the CER module of Strategist.
  - b. The values given in lines 25-30 are the revenue requirements associated with future capital costs for complying with these regulations. Please see response to Question No. 4a.

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# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

#### **Question No. 5**

- Q-5. **Escalation Rates:** Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517\_LAK\_11IRPRetireStudies\_MC1-2CombFGD.xlsx.
  - a. Please explain the escalation rate of 2.5% used in the MTPCapital tab, and provide all calculations and workpapers used to make that determination.
  - b. Please explain the escalation rate of 2.0% used in the RetirementCost\_Savings and NewControlsFOM tabs, and provide all calculations and workpapers used to make those determinations.
- A-5. a. The 2.5% escalation rate was used for capital costs and is based on constructionrelated price indices from IHS Global Insight.
  - b. The 2% escalation rate was used for O&M costs and is based on prices indices for materials and other costs from IHS Global Insight.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## **Question No. 6**

- Q-6. Retirement Costs: Refer to Attachment to Response to SC/NRDC Document Request provided 8-5-11, file 26, by CD on main folder, 20110517 LAK 11IRPRetireStudies MC1-2CombFGD.xlsx. In the RetirementCost Savings tab, a \$2.1 million dollar cost appears in the year 2016 for each and every plant. Please explain, for each plant, what the \$2.1 million cost entails and please provide all calculations and workpapers used to make that determination.
- A-6. Please see the Companies' response to KPSC-2 Question No. 7a.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## Question No. 7

- Q-7. New Controls Capital Costs: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517 LAK 11IRPRetireStudies MC1-2CombFGD.xlsx.
  - a. In tab RRComparison, the formulas in rows 104 (and following rows) for calculating the avoided capital cost of retiring Tyrone 3 appear to reference capital costs for Green River 3. Please explain why Green River 3 is used for this calculation instead of Tyrone 3.
  - b. In tab NewControlsCapital, please provide the stream of annual capital expenses for new controls for years 2010 - 2059 for Tyrone 3, similar to those shown on the NewControlsCapital tab for the Brown, Ghent, Mill Creek, Trimble County, Cane Run, and Green River plants.
- A-7. a. Because Green River 3 and Tyrone 3 are similar in size and vintage, the avoided capital for Tyrone 3 and Green River 3 was assumed to be equal.
  - b. Please see costs for Green River 3 in the NewControlsCapital tab. Annual capital expenses for Green River 3 and Tyrone 3 were assumed to be equal.

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Response to Question No. 8 Page 1 of 2 Schram

#### KENTUCKY UTILITIES COMPANY

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### Question No. 8

#### Witness: Charles R. Schram

- Q-8. New Controls Fixed O&M Costs: Refer to Attachment to Response to SC/NRDC Document Request 26, provided by CD on 8-5-11, main folder, file 20110517 LAK 11IRPRetireStudies MC1-2CombFGD.xlsx.
  - a. In tab RRComparison, the formulas in rows 370 (and following rows) for calculating the avoided fixed O&M cost of retiring Tyrone 3 appear to reference FOM costs for Green River 3. Please explain why Green River 3 is used for this calculation instead of Tyrone 3.
  - b. In tab NewControlsFOM, please provide the stream of annual FOM costs for new controls for years 2010 2059 for Tyrone 3, similar to those shown on the NewControlsCapital tab for the Brown, Ghent, Mill Creek, Trimble County, Cane Run, and Green River plants.
- A-8. a. Because Green River 3 and Tyrone 3 are similar in size and vintage, the avoided fixed O&M costs for Tyrone 3 and Green River 3 were assumed to be equal.
  - b. In responding to this interrogatory, the Companies identified a minor discrepancy in the workbook in question: the fixed O&M costs for Tyrone 3, Green River 3, and Green River 4 inadvertently included costs for a new SCR on those units. The impact of this inclusion is not material; removing these costs does not impact the Companies' recommendation to retire these units in 2016.

The table below contains the present value revenue requirement ("PVRR") differences from Table 2 in Exhibit CRS-1 for these units as well as updated PVRR differences reflecting the removal of the SCR-related fixed O&M costs. The updated PVRR differences were computed by changing the values in cells F50 and F53 (in the NewControlsFOM tab) to zero. After making this change, the updated PVRR differences for Tyrone 3, Green River 3, and Green River 4 are located in the RRComparison tab in cells C427, C428, and C436, respectively. These changes do not impact the results of any other analyses in this proceeding. For annual fixed O&M costs for Tyrone 3, please see the fixed O&M costs for Green River 3 on lines 51 and 52 of the NewControlsFOM tab.

		PVRR Difference:	
	PVRR Difference:	Updated to Reflect Removal	
Unit	Exhibit CRS-1	of SCR-Related FOM	
Tyrone 3	(13)	(1)	
Green River 3	(80)	(69)	
Green River 4	(110)	(94)	

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### Question No. 9

- Q-9. Please identify the expected annual capital expenditures <u>other than</u> for the new environmental controls required at each KU or LG&E generating unit, including known or estimated periodic maintenance, life extension projects, or other required capital investments. Provide data in an electronic or standard machine readable format.
- A-9. The expected annual capital expenditures information is being provided on the attached CD in the folder titled Question No. 9.

Attachment to Response to SC-NRDC-2 Question No. 9 Page 1 of 5 Schram

	2011	2012	2013	2014	2015	2016	2017	2018
Brown 1	738	753	768	783	799	815	831	848
Brown 2	1,221	1.245	1,270	1,295	1,321	1,348	1,375	1,402
Brown 3	3,041	3,102	3,164	3,227	3,292	3,357	3,425	3,493
Cane Run 4	826	842	859	876	894	0	0	0
Cane Run 5	895	913	931	950	969	0	0	0
Cane Run 6	1,279	1,304	1,331	1,357	1,384	0	0	0
Ghent 1	5,448	5,557	5,668	5,782	5,898	6,015	6,136	6,258
Ghent 2	5,552	5,663	5,776	5,891	6,009	6,129	6,252	6,377
Ghent 3	5,506	5,616	5,728	5,843	5,960	6,079	6,200	6,324
Ghent 4	5,494	5,604	5,716	5,831	5,947	6,066	6,187	6,311
Green River 3	417	426	434	443	452	0	0	0
Green River 4	583	594	606	618	631	0	0	0
Mill Creek 1	3,293	3,359	3,427	3,495	3,565	3,636	3,709	3,783
Mill Creek 2	3,272	3,337	3,404	3,472	3,541	3,612	3,685	3,758
Mill Creek 3	4,250	4,335	4,422	4,510	4,600	4,692	4,786	4,882
Mill Creek 4	5,185	5,288	5,394	5,502	5,612	5,724	5,839	5,956
Trimble County 1	1,233	1,257	1,283	1,308	1,334	1,361	1,388	1,416
Trimble County 2	1,767	1,803	1,839	1,875	1,913	1,951	1,990	2,030
Tyrone 3	1,000	1,020	1,040	1,061	1,082	0	0	0
75% TC								

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2%

Escalation Rate

Attachment to Response to SC-NRDC-2 Question No. 9 Page 2 of 5 Schram

	2019	2020	2021	2022	2023	2024	2025	2026
Brown 1	865	882	006	918	936	955	974	994
Brown 2	1,430	1,459	1,488	1,518	1,548	1,579	1,611	1,643
Brown 3	3,563	3,634	3,707	3,781	3,857	3,934	4,012	4,093
Cane Run 4	0	0	0	0	0	0	0	0
Cane Run 5	0	0	0	0	0	0	0	0
Cane Run 6	0	0	0	0	0	0	0	0
Ghent 1	6,384	6,511	6,642	6,774	6,910	7,048	7,189	7,333
Ghent 2	6,505	6,635	6,767	6,903	7,041	7,182	7,325	7,472
Ghent 3	6,451	6,580	6,711	6,846	6,983	7,122	7,265	7,410
Ghent 4	6,437	6,566	6,697	6,831	6,968	7,107	7,250	7,395
Green River 3	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0
Mill Creek 1	3,859	3,936	4,015	4,095	4,177	4,260	4,346	4,433
Mill Creek 2	3,833	3,910	3,988	4,068	4,149	4,232	4,317	4,403
Mill Creek 3	4,980	5,079	5,181	5,284	5,390	5,498	5,608	5,720
Mill Creek 4	6,075	6,196	6,320	6,447	6,576	6,707	6,841	6,978
Trimble County 1	1,444	1,473	1,503	1,533	1,564	1,595	1,627	1,659
Trimble County 2	2,071	2,112	2,154	2,197	2,241	2,286	2,332	2,378
Tyrone 3	0	0	0	0	0	0	0	0
75% TC				,				

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Escalation Rate

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Attachment to Response to SC-NRDC-2 Question No. 9 Page 3 of 5 Schram

2033 2034																,016 8,176			
2032 2																			
2031	1,097	1,814	4,519	0	0	0	8,096	8,249	8,181	8,164	0	0	4,894	4,862	6,315	7,704	1,832	2,626	0
2030	1,076	1,778	4,430	0	O	0	7,937	8,088	8,021	8,004	0	0	4,798	4,766	6,191	7,553	1,796	2,574	0
2029	1,054	1,744	4,343	0	0	0	7,782	7,929	7,864	7,847	0	0	4,704	4,673	6,070	7,405	1,761	2,524	0
2028	1,034	1,709	4,258	0	0	0	7,629	7,774	7,709	7,693	0	0	4,612	4,581	5,951	7,260	1,726	2,474	0
2027	1,014	1,676	4,175	0	0	0	7,479	7,621	7,558	7,542	0	0	4,521	4,491	5,834	7,118	1,692	2,426	0
	Brown 1	Brown 2	Brown 3	Cane Run 4	Cane Run 5	Cane Run 6	Ghent 1	Ghent 2	Ghent 3	Ghent 4	Green River 3	Green River 4	Mill Creek 1	Mill Creek 2	Mill Creek 3	Mill Creek 4	Trimble County 1	Trimble County 2	Tyrone 3

75% TC

Escalation Rate

Attachment to Response to SC-NRDC-2 Question No. 9 Page 4 of 5 Schram

																		3,077 3,138	
2038	1,260	2,084	5,191	0	0	0	9,300	9,476	9,398	9,378	0	0	5,622	5,584	7,254	8,850	2,104	3,016	0
2037	1,235	2,043	5,089	0	0	0	9,117	9,290	9,213	9,194	0	0	5,511	5,475	7,112	8,676	2,063	2,957	0
2036	1,211	2,003	4,989	0	0	0	8,939	9,108	9,033	9,014	0	0	5,403	5,368	6,973	8,506	2,023	2,899	0
2035	1,188	1,964	4,891	0	0	0	8,763	8,929	8,856	8,837	0	0	5,297	5,262	6,836	8,339	1,983	2,842	0
	Brown 1	Brown 2	Brown 3	Cane Run 4	Cane Run 5	Cane Run 6	Ghent 1	Ghent 2	Ghent 3	Ghent 4	Green River 3	Green River 4	Mill Creek 1	Mill Creek 2	Mill Creek 3	Mill Creek 4	Trimble County 1	Trimble County 2	Tyrone 3

Escalation Rate

75% TC

<u>Max Cap</u> 101 167	416	155	168	240	475	484	480	479	68	96	303	301	391	477	383	549	71
Brown 1 Brown 2	Brown 3	Cane Run 4	Cane Run 5	Cane Run 6	Ghent 1	Ghent 2	Ghent 3	Ghent 4	Green River 3	Green River 4	Mill Creek 1	Mill Creek 2	Mill Creek 3	Mill Creek 4	Trimble County 1	Trimble County 2	Tyrone 3

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Annual Capital (2011 \$) 16,000 3,000 3,000	22,000 5,000 1,000
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Attachment to Response to SC-NRDC-2 Question No. 9 Page 5 of 5 Schram

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

Case No. 2011-00161

# Question No. 10

- Q-10. Please identify the expected variable O&M for new environmental controls on a \$/MWh basis.
- A-10. Below are the incremental expected variable O&M for the new environmental controls on a \$/MWh basis.

		Variable O&M
	New Environmental Controls	(2011 \$/MWh)
Brown 1	Baghouse	4.01
Brown 1	SAM Mitigation	5.17
Brown 2	Baghouse	3.81
Brown 2	SAM Mitigation	2.34
Brown 3	Baghouse	2.72
Ghent 1	Baghouse	2.84
Ghent 1	SAM Mitigation/Economizer Modifications	-
Ghent 2	Baghouse	2.79
Ghent 2	SAM Mitigation	0.37
Ghent 3	Baghouse	3.30
Ghent 3	SAM Mitigation/Economizer Modifications	-
Ghent 4	Baghouse	2.93
Ghent 4	SAM Mitigation/Economizer Modifications	-

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

# Case No. 2011-00161

#### Question No. 11

- Q-11. Please identify the expected fixed O&M for the new environmental controls on a \$/kWyr basis.
- A-11. Below are the incremental expected fixed O&M for the new environmental controls on a \$/kW-yr basis.

		Fixed O&M	Fixed O&M	Max Capacity
	New Environmental Controls	(2011 \$/kW-yr)	(\$M)	(MW)
Brown 1	Baghouse	5.32	0.6	106
Brown 1	SAM Mitigation	1.20	0.1	106
Brown 2	Baghouse	4.05	0.7	166
Brown 2	SAM Mitigation	0.76	0.1	166
Brown 3	Baghouse	2.46	1.0	406
Ghent 1	Baghouse	2.43	1.2	493
Ghent 1	SAM Mitigation/Economizer Modifications	-	-	493
Ghent 2	Baghouse	3.06	1.5	490
Ghent 2	SAM Mitigation	0.20	0.1	490
Ghent 3	Baghouse	2.64	1.2	454
Ghent 3	SAM Mitigation/Economizer Modifications	-	-	454
Ghent 4	Baghouse	2.46	1.2	487
Ghent 4	SAM Mitigation/Economizer Modifications	-	-	487

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### **Question No. 12**

- Q-12. Brown 1-2: Please refer to the 2011 Air Compliance Plan, provided as Exhibit CRS-1. Section 4.2.6 is an analysis of the merit of retiring Brown Units 1 and 2.
  - a. Please explain why Brown units 1-2 are considered as a single entity in this analysis.
  - b. Please describe if those units are physically required to run together or if there are engineering constraints which require the operation of both units jointly, or prohibit the retirement of one of the units independently.
- A-12. a. The analysis in Exhibit CRS-1 supporting the 2011 Compliance Plan contemplated a single fabric filter baghouse to serve both Brown Units 1 and 2. Therefore, the analysis to build controls or retire the units affected both units and was conducted on a combined basis.
  - b. Brown Units 1-2 are not physically required to run together.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### Question No. 13

- Q-13. Mill Creek 1-2: Please refer to the 2011 Air Compliance Plan, provided as Exhibit CRS1. Section 4.2.16 is an analysis of the merit of retiring Mill Creek Units 1 and 2.
  - a. Please explain why Mill Creek Units 1-2 are considered as a single entity in this analysis.
  - b. Please describe if the units are physically required to run together or if there are engineering constraints which require the operation of both units, or prohibit the retirement of one of the units independently.
- A-13. a. The analysis contemplated the construction of a single FGD to serve Mill Creek Units 1 and 2. Therefore, the analysis to build controls or retire the units affected both units and was conducted on a combined basis.
  - b. Mill Creek Units 1-2 are not physically required to run together.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

# Case No. 2011-00161

# Question No. 14

### Witness: Charles R. Schram

- Q-14. Evaluation Order: Please refer to the 2011 Air Compliance Plan, provided as Exhibit CRS-1. In Section 4.2, the exhibit notes that "units were evaluated in the order of decreasing variable production costs."
  - a. Please state whether you conducted this analysis using any order other than by decreasing variable production cost.
  - b. If so, please provide the results of this analysis, and any supporting workpapers or documents for this analysis, including raw model inputs in a machine-readable format.
- A-14. a. No. Exhibit CRS-1 Section 3.3 describes the Companies' analytical approach.

b. Not applicable.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### Question No. 15

- Q-15. Environmental Controls: Please refer to the Environmental Air Compliance Strategy Summary, provided as Exhibit JNV-2. On page 5, the table of Environmental Air Timeline shows "preliminary optimal technologies" that include SCR at Mill Creek 1 & 2, SCR at Ghent 2, and Brown 1 & 2. These technologies are not considered in the "final scope" as given on Page 9, or within the analyses which support this docket.
  - a. Please state whether the company ran an analysis similar to that given in the 2011 Air Compliance Plan with these SCR included in the analysis.
  - b. If so, please provide the results of this analysis, and any supporting workpapers or documents for this analysis, including raw model inputs in a machine-readable format.
- A-15. a. The identification of "preliminary optimal technologies" was responsive to a potential need to reduce NOx emissions at non-SCR equipped units. That need was not certain at the time the "preliminary optimal technologies" were identified. Ultimately, the system needs analysis (see Exhibit CRS-1 Section 4.1.1) determined that the Companies' system NOx emissions did not require the construction of additional SCRs. Therefore, the Companies did not include these additional SCRs in any analyses similar to that provided in the 2011 Air Compliance Plan.
  - b. Not applicable.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

#### Question No. 16

- Q-16. Environmental Controls: Please refer to the Environmental Air Compliance Strategy Summary, provided as Exhibit JNV-2. On page 8, the document states that "The Companies' Energy Planning, Analysis and Forecasting department's first round of modeling indicated that the SCRs, and associated scope with the implementation of SCRs, identified in the Phases I and II studies would not be necessary to meet the CATR NOx emission reductions for the generating fleet."
  - a. Please produce any documents and workpapers associated with the "first round of modeling" referenced in this statement supporting the assertion that "SCRs...would not be necessary to meet the CATR NOx emission reductions."
- A-16. The "first round of modeling" refers to the assessment of the Companies' system NOx emissions relative to the CATR allowance allocation (see Exhibit CRS-1 Section 4.1.1). Based on this assessment, additional SCRs were not needed to meet the CATR NOx emission reductions for the generating fleet. Also please see the responses to KPSC-1 Question Nos. 40, 57, and 59.

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# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

Case No. 2011-00161

Question No. 17

#### Witness: John N. Voyles, Jr. / Gary H. Revlett

- Q-17. Please state whether any of the upgrades proposed in the Environmental Air Compliance Strategy Summary are a result of a settlement with either a government agency or the result of a citizen suit. If so, please provide the settlement agreements that affect such units.
- A-17. The Sulfuric Acid Mist (SAM) mitigation systems at Brown Units 1 and 2 are a consequence of a consent decree requiring the addition of a SCR on Brown Unit 3 and the installation of the Brown Unit 1 3 WFGD with the associated transition to higher sulfur fuel. A copy of the consent decree requiring the Brown Unit 3 SCR and WFGD was provided as Exhibit GHR-3 to the Direct Testimony of Mr. Gary H. Revlett. The transition to higher sulfur fuel and the installation of a SCR initially resulted in triggering PSD permitting for SAM. However, with the SAM controls at Units 1 & 2 along with previous approval of SAM mitigation at Unit 3, PSD is not triggered and SAM BACT controls are not required.

The SAM mitigation upgrades at Ghent Unit 1, 3 & 4 and new SAM controls at Unit 2 address two CAA compliance issues. These compliance plan upgrades are required to maintain compliance with each unit's CAA opacity standard and addresses two Notices of Violations (NOVs) issued by EPA. KU is currently negotiating settlement of these two NOVs and will provide the KPSC with a copy of the consent decree when finalized.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### **Question No. 18**

- Q-18. Market Prices of Energy and Capacity: Please refer to the 2011 Air Compliance Plan. Please identify the company's assumed forward market prices of energy and capacity through the analysis period and any source for those market price assumptions. Please also produce any documentation or workpapers that support these assumptions.
- A-18. Please see KU's response to the KPSC-1 Question No. 46 for the forward market prices for energy. There is no assumed price for capacity due to the absence of a liquid capacity market.

# **Response to the Supplemental Requests for Information of** Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### **Question No. 19**

# Witness: Charles R. Schram

- Q-19. Sales: Please refer to the 2011 Air Compliance Plan. Please identify the company's assumed system and off-system sales of energy through the analysis period, and Produce any documentation or workpapers that support these assumptions.
- A-19. Please see below for KU's projected system sales of energy. The analysis in the 2011 Compliance Plan does not consider off-system sales of energy. The Companies' 2011 Integrated Resource Plan contains a detailed discussion of the energy forecast.

	Energy Requirements		Energy Requirements	
Year	(GWh)	Year	(GWh)	
2011	22,796	2026	28,314	
2012	23,178	2027	28,726	
2013	23,541	2028	29,167	
2014	23,783	2029	29,590	
2015	24,139	2030	29,992	
2016	24,442	2031	30,354	
2017	24,702	2032	30,755	
2018	25,036	2033	31,139	
2019	25,451	2034	31,514	
2020	25,864	2035	31,893	
2021	26,216	2036	32,240	
2022	26,626	2037	32,618	
2023	27,006	2038	32,967	
2024	27,489	2039	33,355	
2025	27,920	2040	33,609	

Note: Values reflect the Company's ability to curtail customers with Curtailable Service Riders.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## **Question No. 20**

# Witness: Charles R. Schram

- Q-20. **Demand:** Please refer to the 2011 Air Compliance Plan. Please identify the company's assumed demand projections through the analysis period, and produce any documentation or workpapers that support these assumptions.
- A-20. Please see below for KU's peak demand projections. The Companies' 2011 Integrated Resource Plan contains a detailed discussion of the demand forecast.

	Peak Demand*		Peak Demand*
Year	(MW)	Year	(MW)
2011	4,748	2026	5,877
2012	4,794	2027	5,972
2013	4,936	2028	6,052
2014	4,905	2029	6,119
2015	4,991	2030	6,313
2016	5,066	2031	6,297
2017	5,087	2032	6,398
2018	5,161	2033	6,471
2019	5,336	2034	6,517
2020	5,347	2035	6,599
2021	5,438	2036	6,783
2022	5,511	2037	6,779
2023	5,564	2038	6,857
2024	5,672	2039	6,925
2025	5,777	2040	6,961
*Non-coir	cident company	peaks	

Note: Values reflect the Company's ability to curtail customers with Curtailable Service Riders.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

#### Case No. 2011-00161

#### Question No. 21

## Witness: Charles R. Schram

- Q-21. **EE/DSM:** Please refer to the 2011 Air Compliance Plan. Please identify the company's assumed energy efficiency or other demand side management projections through the analysis period, and produce any documentation and workpapers that support these assumptions.
- A-21. Please see the attachment for combined LG&E and KU projections, consistent with prior filings. Energy Efficiency and DSM programs are detailed in Section 8 of the Companies' 2011 Integrated Resource Plan filing. Furthermore, the expansion of the existing and new DSM programs is the subject of another proceeding before this Commission in Case No. 2011-00134.

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Cumulative Louisville Gas and Electric Company / Kentucky Utilities Company DSM Energy and Demand Impacts

DSM Energy Reduction (GWh)	Status	2011	2012	2013	2014	2015	2016	2017	2015	2019	2020	2021	2022	2023	2024	2025
Residential High Efficiency Lighting	Existing	201.8	250.6	299.5	348.3	348,3	348.3	348.3	348.5	348.3	1	348.3	348.3	348.3	348.3	3.48.3
Residential New Construction	Existing	6.9	0.6	11.4	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	1412
Residential HVAC Tune Up	Existing	6.1	3.0	4.0	5.1	5.1	5.1	5.1	5.1	5.1		5.1	5.1	5.1	5.1	5.1
Commercial HVAC Tune Up	Existing	0	4 Ci	6.4	S.6	8.6	S.6	8.6	8.6	S.6		S.6	8.6	8.6	8,6	8.6
Customer Education & Public Information	Existing	1	•	•	•			•	•	•	•	•	•	•		-
Dealer Referral Network	Existing	1	•	•	•	•					1	1	,	,	1	
Residential Responsive Pricing (RRP)	Existing		,	1	ı	,	•	•			,	:- - -	•	ť	,	,
									•		•.	:				
Program Development & Administration	Enhanced			-	•	, ,				-	       	•	•	•		•
Residential Conservation (HEPP)	Enhanced	15.5	20.7	25.9	31.0	36.2	41,4	46.5	51.7	56.8	62.0	67.2	72.3	77.5	82.7	87.8
Residential Load Management	Enhanced	5.9	9.6	12.8	16.0	18.7	21.4	24.1	26.7	29.4	32.1	34.7	37.4	40.1	42.7	45.4
Commercial Load Management	Enhanced	0.2	0.4	0.6	0.7	0.8	6.0	1.0	12	13	1.4	5	1.6	1.7	1.8	6.1
Residential Low Income Weatherization	Enhanced	20.5	23.3	26.1	28.9	31.7	34.5	37.3	46.5	55.7	64.9	74.1	S3.3	92.5	101.5	111.0
Commercial Conservation/Rebates	Enhanced	93.8	150.8	205.5	266.8	324.8	382.7	440.7	495.7	550.7	605.7	660.7	715.7	770.6	\$25.6	SS0.6
Smart Energy Profile	New	29.3	57.0	57.0	104.4	104.4	104.4	104.4	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
Residential Refingerator Removal	New	3.0	9.0	16.5	24.0	31,4	38.9	46.4	53.9	61.4	68.9	76.4	\$3.9	91.4	6'36	106.4
Residential Incentives	New	8.8	20.0	36.9	53.8	70.7	87.6	104.6	120.8	137.1	153.4	169.7	136.0	202.3	218.6	234.9
Total Annual Energy Reduction	AU	389.7	557.6	705.9	901.8	994.9	1.088.1	1,181.2	1.279.1	1.375.1	1.471.0	1.566.9	1,662.9	1,758.8	1,854.7	1.950.7
															- - -	
DSM Peak Demand Reduction (MW)	Status	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

DSM Peak Demand Reduction (MW)	Status	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential High Efficiency Lighting	Existing	14.2	17.5	20.8	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
	Existing	2.8	3.5	42	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Residential HVAC Tune Up	Existing	6.0	1	1.8	2.3	50	23	23	2.3	2.3	23	23	2.3	53	53	2.3
	Existing	0.5	1,0	1.5	5	5	2.1	5	5.1	~1	51	51	2.1	51	5	
Customer Education & Public Information	Existing			1		-		1	•			•	•			•
Dealer Referral Network	Existing	•	•	,		•	•	•	•	•	•	•	•	•		•
Residential Responsive Pricing (RRP)	Existing	•	,	•	•	,	•	•	•	٠	•		•	•	1	•
Program Development & Administration	Enhanced	•	.,		•	•	,	: <b>,</b>	•	•	,	•	!.		, <b>1</b>	,
Residential Conservation (HEPP)	Enhanced		3.6	5.1	6.5	8.0	9.4	10.9	122	13.5	14.8	16.1	17.4	18.8	20.1	21.4
Residential Load Management	Enhanced	157.3	171.6	183.9	196.2	206.5	216.7	227.0	237.2	247.5	257.7	268.0	278.2	288.5	298.7	309.0
Commercial Load Management	Enhanced	5.9	6.7	9'1	8.5	9.1	9.6	10.2	10.8	11.4	12.0	12.5	13.1	13.7	14.3	14.9
rization	Enhanced		13	1.6	1.8	2.1	4 (1	5.1	3.6	4.5	5.4	59	7.3	8.2	9.1	10.0
	Enhanced	26.5	47.9	69.7	91.6	113.4	135.2	157.0	177.7	198.4	219.1	239.8	260.4	2\$1.1	301.8	322.5
The second s																
Smart Energy Profile	New	5.6	10.9	10.9	19.9	19.9	19.9	19.9	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
Residential Refrigerator Removal	New	0.4	2	ភ	3.1	4.1	5.0	6,0	6.9	7.7	S.6	9,4	10.3	11.1	12.0	12.S
Residential Incentives	New	2.5	5,7	11.0	16.3	21.7	27.0	32.3	35.3	38.4	41.4	44.5	47.5	50.5	53.6	56.6
Total Annual Demand Reduction	AI	219.6	272.3	320.4	377.6	418.2	458.9	499.5	537.6	575.2	612.9	6S0.5	688.2	725.8	763.4	S01.1

Cumulative Louisville Gas and Electric Company / Kentuchy Utiliti DSM Energy and Demand Impacts

DSM Energy Reduction (GWh)	Status	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	6502	2040
Residential High Efficiency Lighting	Existing	348.3	348.3	348.5	348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3	348.3
Residential New Construction	Existing	14.2	142	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	42	14.2	14.2	142
Residential HVAC Tune Up	Existing		5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Commercial HVAC Tune Up	Existing	8.6	S.6	8.6	8.6	3.6	8.6	8.6	8.6	8.6	3.6	3.6	8.6	<b>S.6</b>	8.6	3.6
Customer Education & Public Information	Existing		,			•	· •	· ,	.		; ; ,	•	•	. •		:,
Dealer Referral Network	Existing		,	.  .	•	•	•		•	; ,	   	1				
Residential Responsive Pricing (RRP)	Existing	•		1	1	,	•		,	<b>,</b>		•	ı	•	•	,
						-			÷ :	• • • •			•			:
Program Development & Administration	Enhanced	•	,		-	•	•				'				. <b>.</b>	•
Residential Conservation (HEPP)	Enhanced	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0
Residential Load Management	Enhanced		48.1	48.1	48.]	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1
Commercial Load Management	Enhanced	2.0	2.0	2.0	0.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	50	2.0	0.0
Residential Low Income Weatherization	Enhanced	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2	120.2
Commercial Conservation/Rebates	Enhanced	935.6	935,6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6	935.6
Smart Energy Profile	New	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5
Residential Refrigerator Removal	New	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
Residential Incentives	New	251.2	251.2	251.2	251.2	251.2	2512	2512	251.2	251.2	251.2	251.2	221.2	2512	2512	251.2
Total Annual Energy Reduction	ΠV	2,046.6	2,046.6	2,046.6	2,046.6	2,046.6	2.046.6	2,046.6	2.046.6	2,046.6	2.046.6	2,046.6	2,046.6	2,046.6	2,046.6	2,046.6

DSM Peak Demand Reduction (MW)	Status	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Residential High Efficiency Lighting	Existing	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1	24.1
Residential New Construction	Existing	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
Residential HVAC Tune Up	Existing	23	55	ei ei	53	53	23	2.3	5	2.3	2.3	23	53	5 1	2.3	5 N
Commercial HVAC Tune Up	Existing	51	5	Fi	2.1	57	51	121		5	171	1	57	2.1	5.1	51
Customer Education & Public Information	Existing			•	   	•	•	; ; ;	÷		1		, 	i , 	 	
Dealer Referral Network	Existing	,	: *		•	•	•	; ,	•	5	1	•		•	1	;
Residential Responsive Pricing (RRP)	Existing			•	•	•		•	•	1	•	•	•	: •	•	· ,
Program Development & Administration	Enhanced	•		•	. '				•	•	,		·   ·		: : :	•
Residential Conservation (HEPP)	Enhanced	1.22	22.7	22.7	22.7	22.7	1.22	22.7	22.7	22.7	22.7	22.7	22.7	317	22.7	22.7
Residential Load Management	Enhanced	1	319.2	319.2	319.2	319.2	319.2	319.2	319.2	319.2	3192	319.2	319.2	319.2	319.2	319.2
Commercial Load Management	Enhanced	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
Residential Low Income Weatherization	Enhanced		10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
Commercial Conservation/Rebates	Enhanced	:	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	345.2	343.2	343.2	343.2	343.2	343.2
Smart Energy Profile	New	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3	203	20.3	20.3	20.3	20.3	20.3
Residential Refrigerator Removal	Ncw	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
Residential Incentives	New	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
Total Annual Demand Reduction	IIV	\$38.7	838.7	\$38.7	\$38.7	7.8ES	838.7	838.7	838.7	\$38.7	838.7	\$38.7	\$38.7	\$38.7	838.7	838.7
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# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

# Case No. 2011-00161

#### Question No. 22

- Q-22. **Renewables:** Please refer to the 2011 Air Compliance Plan. Please identify the companies' assumed renewable energy purchases or contracts through the analysis period, and produce any documentation or workpapers that support these assumptions.
- A-22. The 2011 Compliance Plan does not include assumptions for renewable energy purchases or contracts through the analysis period. Also see KU's response to KPSC-1 Question No. 20.

# Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

#### Question No. 23

- Q-23. Expansion Units: Please refer to the 2011 Air Compliance Plan, Table 94 in Section 6.3. The table lists three types of expansion units (two types of combined cycle turbines, and one simple cycle CT).
  - a. Please state whether the company ran an analysis similar to that given in the 2011 Air Compliance Plan with any other expansion units available to be picked in the model.
  - b. If so, please produce the results of this analysis, and any supporting workpapers or documents for this analysis, including raw model inputs in a machine-readable format.
- A-23. a. The Companies' 2011 IRP included other technologies in the Supply Side Screening, however, natural gas fired combined cycle combustion turbines were identified as the least cost resource to meet requirements for the intermediate load capacity needed in 2016. The retirement analysis contained in the 2011 Compliance Plan recognized that, due to the sequential nature of the unit analysis, a simple cycle CT should be included as an option to address the case of retirement for a small unit. Also please see the responses to KPSC-1 Question Nos. 20 and 43, and the responses to SC-NRDC-1 Interrogatories Question Nos. 6 and 25.
  - b. Not applicable.

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### Question No. 24

### Witness: Charles R. Schram

- Q-24. Please refer to the KU response to Staff's first information request, question 40. The answer to subquestion (a), provided by Witness Revlett, states that "the addition of SCRs on units that do not currently have SCRs will not have an impact on the projects in this compliance plan."
  - a. Please state whether KU ran an analysis of the economic merit of each unit in this docket similar in structure to the 2011 Air Compliance Plan (as provided in CRS-1) with "the addition of SCRs on units that do not currently have SCRs."
  - b. If yes, please provide any workpaper, source document, and in machine readable format, input and output files, used in or developed as part of the modeling carried out in such an analysis responsive to the above question.
  - c. If no, please provide a justification of the statement by Witness Revlett, and produce any documents or workpapers supporting that statement.
- A-24. a. Please see the response to KPSC-2 Question No. 31. The Companies' review of the need for additional SCRs is discussed in Exhibit CRS-1 Section 4.1.1. In the absence of a need for additional SCRs, the Companies did not perform an analysis of the economic merit of each unit with additional SCRs.

The Companies' 2011 Compliance Plan contains analysis relevant to the question about future SCRs. Please refer to Table 2 of Exhibit CRS-1. The positive values in the "Difference" column are indicative that the results favor building controls for a particular unit. The magnitude of each positive value also indicate the level at which the NPVRR of future expenditures could affect the current decision to build controls on that unit.

- b. Not applicable.
- c. Please see the response to Question Nos. 15-16 for further information about the SCR needs analysis.

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### **Question No. 25**

### Witness: Charles R. Schram

- Q-25. Please refer to the KU response to Staff's first information request, question 46(b), pages 3-4. The summer maximum capacity of some units decreases in the 2013 to 2016 timeframe. Please state whether these capacity derates are due to the environmental controls expected to be implemented at these units. If not, please explain the cause of these projected capacity derates.
- A-25. The capacity derates are due to the installation of environmental controls.

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### **Question No. 26**

### Witness: Charles R. Schram

- Q-26. Please refer to the KU response to Staff's first information request, question 46(b), pages 3-4. The heat rates for each unit given in these tables do not change over the analysis period, save in 2040. Please state whether the analysis in the 2011 Air Compliance Plan assumes any heat rate penalty for fabric filters, FGD, SCR, or SAM modifications? If so, please identify what heat rate penalties are assumed for each such modification. If not, please explain why not.
- A-26. While capacity derates are considered as described in the response in Question No. 25, any heat rate penalties as a result of the installation of the controls in the 2011 Compliance Plan are considered de minimus and are not included in the analysis.

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### Question No. 27

### Witness: Charles R. Schram

- Q-27. Please refer to the KU response to Staff's first information request, question 46(c), pages 1-2. Please provide justification for the NOx and SO2 price trajectory given in this table, and produce any workpaper or source document supporting this justification.
- A-27. The 2011-2013 NOx and SO2 prices are based on market prices as quoted by Amerex on May 28, 2010. The Companies' did not project allowance prices after 2013, recognizing that the development of markets for CATR (now CSAPR) are likely to be limited considering the rule's interstate trading restrictions. Therefore, the 2011 Compliance Plan assumes that the Companies will physically comply with the rule's NOx and SO2 emissions caps.

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### Question No. 28

### Witness: Lonnie E. Bellar

- Q-28. Please provide all reports, memoranda, presentations, or other documents provided to or considered by the KU, LG&E, or PPL Board of Directors (and any subcommittee of that Board) within the past five years concerning
  - a. the status of the Companies' coal-fired generating stations (the Coal Plants),
  - b. past, present or future environmental compliance of the Coal Plants, litigation or settlements (including NSR settlements with the EPA and/or DOJ) concerning the Coal Plants, to the extent not covered by attorney-client privilege,
  - c. past, present or future need for the Coal Plants, or the need for or plans for capital additions to the Coal Plants, whether for environmental compliance or otherwise, and
  - d. any other matter that could affect the costs or output of the Coal Plants.
- A-28. a-d. Please see the attached. Certain information is considered confidential and is being filed pursuant to a Petition for Confidential Protection.

## Attachment to Question No. 28 1 of 9 Bellar

### E.ON US Investments Corp. E.ON U.S. LLC Louisville Gas and Electric Company Kentucky Utilities Company Written Consents of the Boards of Directors

### August 18, 2008

### AGENDA

### APPROVALS AND RATIFICATIONS

Approvals and Ratifications on the following topics are submitted for the E.ON US investments Corp. ("EUSIC"), E.ON U.S. LLC ("EUS"), Louisville Gas and Electric Company ("LG&E") and Kentucky Utilities Company ("KU") Boards' consents.

Please direct any questions to John McCall or John Fendig. Upon completion, please return signed consents to Cheryl Johnson.

### EUSIC BOARD CONSENT

### OMITTED TEXT \_ NOT RELEVANT

### Alliance Coal Contract

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Approval is sought to enter into coal supply agreements between Louisville Gas and Electric Company and Kentucky Utilities Company and Alliance Coal LLC aggregating up to \$565.2 million. A board paper with details is attached.

### EUS BOARD CONSENTS

OMITTED TEXT \_ NOT RELEVANT

### LG&E BOARD CONSENT

### Alliance Coal Contract

As described above.

### KU BOARD CONSENT

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OMITTED TEXT \_\_ NOT RELEVANT { Alliance Coal Contract As described above.

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### ACTION OF THE BOARD OF DIRECTORS OF LOUISVILLE GAS AND ELECTRIC COMPANY TAKEN BY WRITTEN CONSENT

### August 18, 2008

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act, the Board of Directors of Louisville Gas and Electric Company, a Kentucky corporation (the "Company" or "LG&E"), hereby adopt the following resolutions by unanimous written consent in lieu of a special meeting and consent to the actions contemplated thereby:

### ALLIANCE COAL LLC COAL SUPPLY AGREEMENT

WHEREAS, LG&E and Kentucky Utilities Company ("KU") have conducted negotiations with Alliance Coal Company LLC ("Alliance") regarding a potential coal supply agreement in the amount of up to \$565.2 million (the "Alliance Coal Contract"); and

WHEREAS, this Board of Directors has considered matters relating to the Alliance Coal Contract and deems it advisable and in the best interest of LG&E to proceed with such transaction.

NOW, THEREFORE, BE IT RESOLVED, that this Board of Directors does hereby authorize and approve the Alliance Coal Contract; and

FURTHER RESOLVED, that the appropriate officers of LG&E are, and each of them hereby is, authorized and directed to negotilate, execute and deliver, from time to time, for and on behalf of the Company (I) coal purchase, supply and transport contracts and appropriate amendments thereto, (II) relevant federal, state or other governmental notices, filings or applications and (III) any other agreement, document or instrument, that may be necessary or appropriate in connection with the Alliance Coal Contract, including but not limited to credit, security, pledge, guaranty or other financial support arrangements, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of LQ&E are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable to consummate the Alliance Coal Contract, including such additional terms, conditions precedent or other changes as may be deemed necessary, appropriate or advisable in the discretion of such officers, with the taking of such actions and the execution of such agreements or documents conclusively to evidence the authorization thereof by this Board of Directors; and

FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company in connection with the Alliance Coal Contract contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

WITNESS the signatures of the undersigned, who are all of the directors of Louisville Gas and Electric Company as of the date first written above.

Victor A. Staffleri

AMAN

Chris Hermann

John R. McCall

S. Bradford Rives

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Paul W. Thompson

### E.ON US Investments Corp. E.ON U.S. LLC Louisville Gas and Electric Company Kentucky Utilities Company

### Written Consents of the Boards of Directors And Shareholders

### December 17, 2007

### AGENDA

### APPROVALS AND RATIFICATIONS

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Approvals and Ratifications on the following topics are submitted for the E.ON US investments Corp., E.ON U.S. LLC, Louisville Gas and Electric Company and Kentucky Utilities Company Boards' consents.

Please direct any questions to John Fendig or Cheryl Johnson. Upon completion, please return signed consents to Cheryl Johnson.

### **OMITTED TEXT – NOT RELEVANT**

### Approval of Armstrong Coal Contract

Authorization is requested to enter coal supply arrangements between Louisville Gas and Electric Company and Kentucky Utilities Company and Armstrong Coal Company aggregating up to \$777.1 million. A Board Paper with details is provided. E.ON U.S. LLC

### **OMITTED TEXT – NOT RELEVANT**

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# Attachment to Question No. 28 2 of 9

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### ACTION OF THE BOARD OF DIRECTORS OF E.ON U.S. LLC TAKEN BY WRITTEN CONSENT IN LIEU OF A SPECIAL MEETING

### December 17, 2008

The undersigned, being all the members of the Board of Directors of E.ON U.S. LLC, a Kentucky limited liability company ("Company"), hereby adopt the following resolutions and consent to the actions contemplated thereby in lieu of a special meeting:

### BROWN NSR SETTLEMENT / FGD & SCR CONSTRUCTION

WHEREAS, Kentucky Utilities Company, a subsidiary of the Company ("KU"), is party to litigation and/or administrative proceedings commenced by the U.S. Department of Justice and the Environmental Protection Agency ("DOJ/EPA") (the "Brown NSR Litigation"); and

WHEREAS, KU and DOJ/EPA have negotiated a settlement-in-principle to resolve the on-going Brown NSR Litigation, with the prospect for a favorable outcome, appropriately balancing the parties' legal positions, the risk of continuing litigation process and operational and financial considerations; and

WHEREAS, the terms of the settlement would include, among other matters, (I) the payment of a \$1.4 million civil penalty, (II) establishment of a \$3 million fund for environmental mitigation projects, (Iii) surrender of 53,000 SO2 allowances, (iv) surrender of excess NOx allowances for E.W. Brown Unit 3 ("Brown Unit 3") through 2010, (v) Installation of flue gas desulfurization ("FGD") controls at Brown Unit 3 by December 31, 2010, (vi) installation of selective catalytic reduction ("SCR") controls at Brown Unit 3 by December 31, 2012, and (vii) compliance with specified operational restrictions, including NOx, SO2 and particulate matter emissions limits and heat input limits (collectively, the "Brown NSR Settlement" and Items (v) and (vi), "the FGD/SCR Construction"); and

WHEREAS, EUS desires to receive approval to negotiate and proceed with the Brown NSR Settlement and the FGD/SCR Construction; and

WHEREAS, the Board of Directors has considered matters relating to the Brown NSR Settlement and the FGD/SCR Construction and deems it advisable and in the best interest of the Company to authorize such transaction as set forth herein.

NOW, THEREFORE, BE IT RESOLVED, that the Company is hereby authorized to negotlate and enter into the ICSID Settlement and the FGD/SCR Construction transactions, if and on such terms and conditions as may, be deemed acceptable and advisable by its officers; and

FURTHER RESOLVED, that the officers of the Company are, and each of them

hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection with the Brown NSR Settlement and the FGD/SCR Construction, including negotiating such terms, conditions or other changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

**FURTHER RESOLVED**, that all actions heretofore or hereafter taken by any officer of the Company in connection with the Brown NSR Settlement and the FGD/SCR Construction contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

WITNESS the signatures of the undersigned, who are all of the directors of E.ON U.S. LLC as of the date first written above.

Staffieri

Chris Hermann

John R. McCall

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S. Bradford Rives

Paul W. Thompson

### ACTION OF THE BOARD OF DIRECTORS OF E.ON U.S. LLC TAKEN BY WRITTEN CONSENT IN LIEU OF AN ANNUAL MEETING

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### May 10, 2007

The undersigned, being all the members of the Board of Directors of E.ON U.S. LLC, a Kentucky limited liability company ("Company"), hereby adopt the following resolutions by unanimous written consent in lieu of an annual meeting and consent to the actions contemplated thereby:

### APPROVAL OF KU FLUE GAS DESULFURIZATION PROJECT UPDATE

WHEREAS, the Board of Directors previously approved matters relating to the \$659 million Flue Gas Desulfurization Project for Kentucky Utilities Company ("KU") on December 16, 2004 and June 13, 2006; and

WHEREAS, actual and projected increases in costs and expenses of equipment, materials, services, labor and other factors have lead to an anticipated increase in the overall cost of the projects to approximately \$980 million (Including approximately \$52 million in capitalized interest) (the "FGD Project"); and

WHEREAS, the Board of Directors has considered matters relating to the FGD Project and deems it advisable and in the best interests of the Company and KU to approve such transactions.

NOW, THEREFORE, BE IT RESOLVED, that the FGD Project is hereby approved in the increased total amount, and the Company and KU are hereby authorized to proceed with such transactions, as set forth herein; and

FURTHER RESOLVED, that the appropriate officers of the Company and KU are, and each of them hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company and KU, respectively, such contracts, agreements, documents or instruments, including appropriate fillings with regulatory agencies, that may be necessary or appropriate in connection with the FGD Project, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of the Company and KU are, and each of them hereby is, authorized to determine the form and content of documentation, filings or actions relating to the FGD Project; and

FURTHER RESOLVED, that the appropriate officers of the Company and KU are, and each of them hereby is, authorized and directed, to take such other

actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection with the FGD Project, including such changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

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FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company or KU in connection with the transactions contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

### **OMITTED TEXT – NOT RELEVANT**

### **OMITTED TEXT – NOT RELEVANT**

WITNESS the signatures of the undersigned, who are all of the directors of E.ON U.S. LLC as of the date first written above.

Victor Staffierl

Chris Hermann

John R. McČall

S. Bradford Rives

Paul W. Thompson

# Attachment to Question No. 28 3 of 9

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### E.ON US INVESTMENTS CORP. LOUISVILLE GAS AND ELECTRIC COMPANY KENTUCKY UTILITIES COMPANY

### **Board Summary**

### August 18, 2008

### Alliance Coal LLC Coal Supply Agreement

### I. AUTHORIZATION REQUEST:

This request seeks approval of a coal supply agreement jointly between Louisville Gas & Electric (LG&E) and Kentucky Utilities (KU), and Alliance Coal LLC (Alliance). This agreement is treated as LG&E/KU Joint Contract #J09002. This is a seven-year contract for the period January 1, 2009 - December 31, 2015 for the delivery of 11.0 M tons of high-sulfur coal (scheduled delivery to start January 1, 2010). The contract's value of approximately \$565.2 M (based upon the forecasted CPI as established by EON plus 2% each year) is expected to be recovered through the Fuel Adjustment Clause (see Appendix A for a description of the Fuel Adjustment Clause).

### **II. RATIONALE:**

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Louisville Gas and Electric Company and Kentucky Utilities Companys(collectively, the "Utilities") will burn approximately 18 M tons of coal per year beginning in calendar year 2011. The deliveries under this contract will represent approximately for of this annual burn (at the annual base quantily of 2.0M tons). Historically the Utilities have awarded contracts of similar tonnage as part of their procurement strategy. Under its regulatory obligations, the Utilities must secure an adequate and reliable supply of coal for those generating units utilized to meet the needs of its native load customers. Prudent fuel purchases, such as that which will be made under the Alliance Coal LLC Agreement, are then eligible for cost recovery under the Fuel Adjustment Clause mechanism.

. A, DESCRIPTION OF KEY CONTRACTUAL TERMS & CONDITIONS:

The contract is the standard LG&E/KU form Coal Supply Agreement with modifications to reflect the business deal negotiated between the parties. The contract contains standard commercial terms of the kind to be expected in a transaction of this sort. The contract allocates various commercial risks to Alliance through an indemnity clause **business** and through a requirement that Alliance maintain certain insurance coverage

PARTIES:

The counterparty to the Contract Is Alliance Coal LLC, who has extensive financial assets and who is directly liable as a party to the agreement for failure to perform by one of its affiliates supplying coal under the Contract. LG&E/KU has the assurance that the contract will result in a reliable supply of coal to its largest base-load generaling units, used to serve the needs of its native load customers.

- TERM:
  - o January 1, 2009 December 31, 2015.
  - o QUALITY:

Btu/lb 11,500

1b/mmBtu

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### **CONFIDENTIAL INFORMATION REDACTED**

Sulfur	2.60
Molsture	10.00
Ash	7.00

- TONNAGE:
  - 2010 1,000,000 tons 0
  - 2,000,000 lons 2011 o
  - 2012 2,000,000 tons 0
  - 2013 2,000,000 tons 0
  - 2,000,000 tons 2014 0
  - 2,000,000 tons 2015 0
- PRICING: The pricing is effective April 1, 2008 and subject to adjustment effective July 1, ø 2008 and each calendar guarter thereafter based upon the guarterly percentage change in the Consumers Price Index, plus one-half percent (0.50%)

	Quantity (1)	FOB Barge (2)			
Year .	Millions	\$/Ton	¢/MMBtu		
2010	1.0	44,92	195.30		
2011	2.0	46.98	204.26		
2012	2.0	49.13	213.61		
2013	2.0	51.12	222.26		
2014	2.0	53.20	231.30		
2015	2.0	55,36	240.70		

Notes:

(1) If mine production occurs after January 1, 2010, the Base Quantity of coal will be the lesser of (I) the quantity of coal produced after the Production Date multiplied by a factor of 1.0/5.2, or (II) 1.0 million tons. 

(2) Price is effective April 1, 2008 and adjusted effective July 1, 2008 and each quarter thereafter based upon the forecasted CPI established by EON plus 0.50% per quarter.

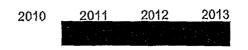
The current high sulfur coal position is illustrated in the table below.

### Scrubbed High Sulfur Coal Position Report as of 6/30/2008 (Tons in Millions)

	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>
Projected Need of HI-Sulfur Tons				
Tons committed under contract				
Tons committed pending final contract				
Alliance tons pending final contract				
Tons remaining open				

The Alliance FOB prices are below the Forward Price Curve (FPC) used for budgeting of the 2009 MTP. The table below illustrates the open position pricing used at Mill Creek Station for High Sulfur Illinois Basin Coal.

### 2009 MTP MIII Creek Comparison



MIII Creek Open Position Delivered Price

Alliance Price Alliance MTP Trans/Other Pricing Estimated delivered price for Alliance

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### **B. COMPARISON TO OTHER VENDORS:**

Alliance's price as compared to those offers received in response to LG&E's and KU's solicitations for high sulfur coal. On January 24, 2008, the Ullilles sent out a solicitation for steam coal with a bid due date of February 21, 2008. Solicitation invitations were sent to approximately one hundred and sixty-nine vendors and responses were received from according companies providing proposals. The Alliance offer

### C. VENDOR INFORMATION:

Allance Resource Partners, L.P. (ARLP) is a diversified coal producer and marketer with significant operations in the eastern United States. The company is the coal-producing industry's only publicly traded master limited partnership. ARLP's common units are traded on the Nasdaq National Market under the ticker symbol "ARLP." The headquarters of ARLP are in Tulsa, Oklahoma. A centrally-located operations support office is in Lexington, Kentucky.

Strategically located operations, abundant long-lived reserves and appropriate acquisitions consistently have provided ARLP with solid growth opportunities since they began operations in 1971 as MAPCO Coal Inc. Operations include mining operations in four states – Illinois, Indiana, Kentucky and Maryland, development of new mining operations in West Virginia and a rail-to-barge loading terminal located in Indiana. Work is currently underway on the mine slope and entryway shaft at the Riverview Mine. Mine development is on progress to be producing coal in late 2009 and early 2010.

Alliance Coal, LLC, ARLP's operating holding company, is a diversified producer and marketer of steam coal to major United States utilities and industrial users. Coal is the energy source used by utilities to fuel more than 50 percent of the electricity generated in the United States of America each year. More than 80 percent of ARLP's sales tonnage is dedicated to electric utilities that have long-term contractual relationships with the company.

Through various contractual arrangements, Alliance has been a reliable supplier of coal to LG&E since 1996. The parties concurrently have an existing contract for 4.0 million tons of coal annually through December 31, 2011.

At 2007 year end, ARLP had approximately 2,600 employees, \$701.7 million in assets and \$1.0 billion in total revenues.

### III. FINANCIAL IMPACT:

LG&E (and KU) employ a Fuel Adjustment Clause ("FAC") mechanism, which under Kentucky law allows the Utilities to recover from customers the actual fuel costs associated with retail electric sales. A certain amount of fuel cost recovery occurs through base rates; the FAC is a true-up mechanism by which the difference between base rate fuel cost and actual fuel cost is either collected from the customer or refunded to the customer through a monthly adjustment to the customers bills. The combination of recovery in base rates and the monthly adjustment allows the Companies to recover, in full, the actual fuel costs incurred.

This contract is for delivery of coal to base-load units primarily serving native load customers. The cost of fuel under this contract will be subject to pass-through under the Kentucky Public Service Commission's Fuel Adjustment Clause.

### IV. RECOMMENDATION:

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It is recommended that the E.ON U.S. Investments Corp. Board approve LG&E/KU contract #J09002 for a total value of approximately \$565.2 M and to delegate authority to execute the necessary contractual documents to affect the contract to the CEO of E.ON U.S. LLC.

<sup>1</sup>Generation Planning's allocation of unit output between native load and OSS for 2009 - 2013 planning period.

### APPENDIX A: DESCRIPTION OF FUEL ADJUSTMENT CLAUSE

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Louisville Gas and Electric Company and Kentucky Utilities Company (collectively, the "Utilities") employ a Fuel Adjustment Clause ("FAC") mechanism, which under Kentucky law allows the two utilities to recover from customers the actual fuel costs associated with retail electric sales. A certain amount of fuel cost recovery occurs through base rates; the FAC is a true-up mechanism by which the difference between base rate fuel cost and actual fuel cost is either collected from the customer or refunded to the customer through a monthly adjustment to the customer's bills. The combination of recovery in base rates and the monthly adjustment allows the Utilities to recover, in full, the actual fuel costs prudently incurred.

For purposes of the Fuel Adjustment Clause, fuel expense is defined as the actual cost of fuel burned at company generating facilities, plus the fuel portion of economic power purchases less the incremental fuel costs associated with off-system sales. For power purchases, fuel cost is defined as all non-demand charges for the purchase, included in the FAC are adjustments for fuel costs associated with forced outages greater than 6 hours, any purchase power expense greater than the Utilities highest cost units, and purchase power associated with maintaining a reserve margin.

Both LG&E and KU have retail fuel adjustment clauses in place that have essentially remained unchanged for approximately thirty years. Additionally, KU has a FERC wholesale monthly fuel clause applied to wholesale billings (KU municipal customers) and an annual fuel factor component to base rates, applied to Virginia retail customers.

Recovery of fuel expenses occurs during the second calendar month after the expenses are incurred, and fuel expense billed through the fuel adjustment clause are subject to subsequent review and approval by the Kentucky Public Service Commission. The review process generally requires the Utilities to provide to the Commission supplemental information related to purchased power contracts, the degree to which the Utilities engage in energy sales to third parties, and the extent to which the Utilities believe the current fuel inventory level is sufficient to meet upcoming demand. Fuel procurement procedures are subject to review and the Utilities are responsible for ensuring that Company policies and procedures are followed in every instance.

Disallowance of previously billed fuel costs the Utilities and the Commission reached a universal settlement on the appro- treatment of purchased power costs and off-system sales revenues, and subsequent to	priate
settlement, Contraction of the set	

### Attachment to Question No. 28 4 of 9 Bellar

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### E.ON US INVESTMENTS CORP.

### LOUISVILLE GAS AND ELECTRIC COMPANY

### And

### KENTUCKY UTILITIES COMPANY

### <u>Board Summary</u>

### December 13, 2007

### Armstrong Coal Company, Inc. Coal Supply Agreement

### I. AUTHORIZATION REQUEST:

This request seeks approval of a coal supply agreement jointly between Louisville Gas & Electric (LG&E) and Kentucky Utilities (KU), and Armstrong Coal Company, Inc. (Armstrong). This agreement is treated as LG&E/KU Joint Contract #J07032. This is an eight-year contract for the period January 1, 2008 - December 31, 2015 for the delivery of 27.1 M tons of high-sulfur coal. The contract's value of approximately \$777.1 M (based upon electing the maximum tonnage of Quality 2 coal available each year) is expected to be recovered through the Fuel Adjustment Clause (see Appendix A for a description of the Fuel Adjustment Clause).

### II. RATIONALE:

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Louisville Gas and Electric Company and Kentucky Utilities Company (collectively, the "Utilities") burn approximately 15 M tons of coal per year. The deliveries under this contract will represent approximately **and** of this annual burn (at the annual base quantity of 4.0M tons). Historically the Utilities have awarded contracts of similar tonnage as part of their procurement strategy. Under its regulatory obligations, the Utilities must secure an adequate and reliable supply of coal for those generating units utilized to meet the needs of its native load customers. Prudent fuel purchases, such as that which will be made under the Armstrong Coal Supply Agreement, are then eligible for cost recovery under the Fuel Adjustment Clause mechanism.

### A. DESCRIPTION OF KEY CONTRACTUAL TERMS & CONDITIONS:

The contract is the standard LG&E/KU form Coal Supply Agreement with modifications to reflect the business deal negotiated between the parties. The contract contains standard commercial terms of the kind to be expected in a transaction of this sort. The contract allocates various commercial risks to Armstrong through an indemnity clause **Expected Contract Contract allocates** and through a requirement that Armstrong maintain certain insurance coverage **Expected Contract Contract Contract** 

PARTIES:

The counterparty to the Contract is Armstrong Land Company, LLC, the ultimate parent of Armstrong Coal Company, Inc. Armstrong Coal Company, Inc. is majority funded by Yorktown Partners. Yorktown Partners LLC is the manager of Yorktown Energy Partners VII, L.P. which was formed in September 2006 with \$850M of committed capital of which \$154M has been invested as of March 2007. The limited partners include university endowments, foundations, families, insurance companies and other institutional Investors. The general partner and the management company are owned by Yorktown staff. Yorktown Partners LLC also manages Yorktown Energy Partners VI, L.P. formed in July 2004 with \$730M of capital, Yorktown Energy Partners V, L.P. formed in January 2002 with \$588M of capital, Yorktown Energy Partners IV, L.P. formed in October 1999 with \$396M of invested capital, Yorktown Energy Partners III, L.P. formed in August 1997 with \$250M of invested capital and two

predecessor partnerships which invested \$75M from February 1991 through June 1997. Capital committed and/or invested by the Yorktown partnerships is \$2.9 billion with investments made in 61 companies since the first "Pre-Yorktown" investment in 1983. Armstrong Land Company, LLC has financial assets and is directly liable as a party to the agreement for the failure to perform by one of its affiliates supplying coal under the Contract. This ensures a parental guarantee. LG&E/KU has the assurance that the contract will result in a reliable supply of coal to its largest base-load generating units, used to serve the needs of its native load customers.

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- January 1, 2008 December 31, 2015. Either party with notice given by April 1, 2012 may reopen the agreement for repricing effective January 1, 2013 and beyond. The parties will then meet to negotiate an agreement on new pricing for tons to be delivered in 2013 and beyond. If the parties do not reach an agreement on this new pricing by August 1, 2012, the contract will terminate effective December 31, 2012.
- o QUALITY:

<u>Quality 1</u> 11,000	<u>Quality 2</u> 11,300
•	
3.00	2.75
12.00	10.44
12.00	10.44
	11,000 3.00 12.00

TONNAGE:

0	2008	600,000 tons
o	2009	2,500,000 tons
Q	2010	4,000,000 tons
Ø	2011	4,000,000 tons
0	2012	4,000,000 tons
0	2013	4,000,000 tons
0	2014	4,000,000 tons
0	2015	4,000,000 tons

 PRICING: The pricing is firm for years 2008 and 2009 of this contract. Pricing effective January 1, 2010 is subject to a diesel fuel adjustment based upon the Producer Price Index as published by the United States Department of Labor, Bureau of Labor Statistics. The base index is 232.5, the average Producer Price Index for May, June, and July 2007. However, the diesel fuel adjustment contains a 20% dead band before any diesel fuel adjustment can be made.

		Quality 1 (	11,000 BTU)	Quality 2 (11,300 BTU) FOB Rall/Barge		
	Quantity	FOB R	ail/Barge			
Year	Millions	\$/Ton	¢/MMBtu	\$/Ton	¢/MMBtu	
2008 (1)	.6	27.31	124.14	28,30	125.22	
2009 (2)	2.5	27.60	125,46	28,76	127.26	
2010 (3)	4.0	28.21	128.23	29,63	131.11	
2011 (3)	4.0	28,36	128.91	29,78	131.77	
2012 (3)	4.0	28,51	129.59	29.93	132.43	
2013 (3)	4.0	28.66	130.27	30.08	133.10	
2014 (3)	4.0	28,81	130.96	30,23	133.76	
2015 (3)	4.0	28,96	131.64	30.38	134.43	

Notes:

(1) Rail delivery is not available. Up to a maximum of 90,000 tons may be Quality 2.

(2) Rail delivery is not available. Up to a maximum of 375,000 tons may be Quality 2.

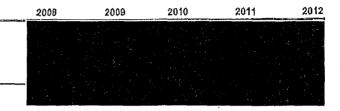
(3) Up to 1.5M tons may be rail delivered. Up to a maximum of 600,000 tons may be Quality 2. Prices are subject to a diesel fuel adjustment if the diesel fuel component of the base price increases by at least 20%.

The current high sulfur coal position is illustrated in the table below.

### Scrubbed High Sulfur Coal Position Report as of 11/15/2007 (Tons in Millions)

Projected Need of HI-Sulfur Tons Tons committed under contract Tons committed pending final contract Armstrong tons pending final contract Tons remaining open

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The Armstrong FOB prices are below the Forward Price Curve (FPC) used for budgeting of the 2008 MTP. The table below illustrates the open position pricing used at Mill Creek Station for High Sulfur Illinois Basin Coal. The largest percentage of Armstrong coal will be going to the Mill Creek Station via barge delivery.

2008 MTP Milli Creek Comparison					
	2008	2009	2010	2011	2012
Mill Creek Open Position Delivered Price		and a spart of the second	1 de 1 de 1997	14.5	
Armstrong Qual 1 Price 2008 MTP Trans/Other Pricing Estimated delivered price for Armstrong					

### **B. COMPARISON TO OTHER VENDORS:**

Armstrong's price **Example 1** as compared to those offers received in response to LG&E's and KU's solicitations for high sulfur coal. On March 6, 2007, the Utilities sent out a solicitation for steam coal (delivery to start January 2008) with a bid due date of March 29, 2007. Solicitation invitations were sent to approximately one hundred and seventy vendors and responses were received from the different bidders. The Armstrong offer Armstrong is a

### C. VENDOR INFORMATION:

Armstrong Coal Company, Inc. was formed in 2006 to acquire and develop coal reserves in Western Kentucky. Armstrong Coal Company, Inc. (Armstrong) and its affiliates purchased 225 million tons of saleable coal in Western Kentucky from Peabody Energy. Armstrong is investing approximately million to (i) purchase the coal reserves from Peabody Energy, (ii) purchase and upgrade the Smallhous Dock located on the Green River, (iii) build two coal wash/preparation plants, (iv) construct a 120 railcar unit train load out facility on the Paducah and Louisville Railway, and (v) develop the reserves/mines purchased from Peabody Energy.

Strategically located operations and abundant reserves have prepared Armstrong to be a significant coal producer in Western Kenlucky. Armstrong plans to be in production from both surface and underground mining operations no later than mid year 2008.

According to Armstrong's 2009 proforma targeted net cash flow, this agreement will provide of Armstrong's revenues; a long term agreement with TVA will provide the second structure of East Kentucky Power will provide the second structure agreement with Owensboro Municipal Utilities will provide the second structure.

Work is currently underway on the new preparation/wash plant, new continuous mining equipment has been purchased for underground operations in the Big Run Mine; the rall bed for the new rall spur and railcar loading facility is under construction; and at least two drag lines have been purchased and are being assembled for surface operations.

### III. FINANCIAL IMPACT:

LG&E (and KU) employ a Fuel Adjustment Clause ("FAC") mechanism, which under Kentucky law. allows the Utilities to recover from customers the actual fuel costs associated with retail electric sales. A certain amount of fuel cost recovery occurs through base rates; the FAC is a true-up mechanism by which the difference between base rate fuel cost and actual fuel cost is either collected from the customer or refunded to the customer through a monthly adjustment to the customers bills. The combination of recovery in base rates and the monthly adjustment allows the Companies to recover, in full, the actual fuel costs incurred.

This contract is for delivery of coal to base-load units primarily serving native load customers. The cost of fuel under this contract will be subject to pass-through under the Kentucky Public Service Commission's Fuel Adjustment Clause.

### IV. RECOMMENDATION:

It is recommended that the E.ON U.S. Investments Corp. Board approve LG&E/KU contract #J07032 for a total value of approximately \$777.1 M and to delegate authority to execute the necessary contractual documents to affect the contract to the CEO of E.ON U.S. LLC.

<sup>1</sup>Generation Planning's allocation of unit output between native load and OSS for 2008 – 2012 planning period.

### APPENDIX A; DESCRIPTION OF FUEL ADJUSTMENT CLAUSE

Louisville Gas and Electric Company and Kentucky Utilities Company (collectively, the "Utilities") employ a Fuel Adjustment Clause ("FAC") mechanism, which under Kentucky law allows the two utilities to recover from customers the actual fuel costs associated with retail electric sales. A certain amount of fuel cost recovery occurs (hrough base rates; the FAC is a true-up mechanism by which the difference between base rate fuel cost and actual fuel cost is either collected from the customer or refunded to the customer through a monthly adjustment to the customer's bills. The combination of recovery in base rates and the monthly adjustment allows the Utilities to recover, in full, the actual fuel costs prudently incurred.

For purposes of the Fuel Adjustment Clause, fuel expense is defined as the actual cost of fuel burned at company generating facilities, plus the fuel portion of economic power purchases less the incremental fuel costs associated with off-system sales. For power purchases, fuel cost is defined as all non-demand charges for the purchase. Included in the FAC are adjustments for fuel costs associated with forced outages greater than 6 hours, any purchase power expense greater than the Utilities highest cost units, and purchase power associated with maintaining a reserve margin.

Both LG&E and KU have retail fuel adjustment clauses in place that have essentially remained unchanged for approximately thirty years. Additionally, KU has a FERC wholesale monthly fuel clause applied to wholesale billings (KU municipal customers) and an annual fuel factor component to base rates, applied to Virginia retail customers.

Recovery of fuel expenses occurs during the second calendar month after the expenses are incurred, and fuel expense billed through the fuel adjustment clause are subject to subsequent review and approval by the Kentucky Public Service Commission. The review process generally requires the Utilities to provide to the Commission supplemental information related to purchased power contracts, the degree to which the Utilities engage in energy sales to third parties, and the extent to which the Utilities believe the current fuel inventory level is sufficient to meet upcoming demand. Fuel procurement procedures are subject to review and the Utilities are responsible for ensuring that Company policies and procedures are followed in every instance.

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# Attachment to Question No. 28 5 of 9 Bellar

### ACTION OF THE BOARD OF DIRECTORS OF KENTUCKY UTILITIES COMPANY TAKEN BY WRITTEN CONSENT

### December 17, 2008

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act, and Section 13.1-685 of the Virginia Stock Corporation Act, the Board of Directors of Kentucky Utilities Company, a Kentucky and Virginia corporation (the "Company" or "KU"), hereby adopt the following resolutions and consent to the actions contemplated thereby in lieu of a special meeting:

### BROWN NSR SETTLEMENT / FGD & SCR CONSTRUCTION

WHEREAS, the Company, is party to litigation and/or administrative proceedings commenced by the U.S. Department of Justice and the Environmental Protection Agency ("DOJ/EPA") (the "Brown NSR Litigation"); and

WHEREAS, the Company and DOJ/EPA have negotiated a settlement-inprinciple to resolve the on-going Brown NSR Litigation, with the prospect for a favorable outcome, appropriately balancing the parties' legal positions, the risk of continuing litigation process and operational and financial considerations; and

WHEREAS, the terms of the settlement would include, among other matters, (i) the payment of a \$1.4 million civil penalty, (ii) establishment of a \$3 million fund for environmental mitigation projects, (iii) surrender of 53,000 SO2 allowances, (iv) surrender of excess NOx allowances for E.W. Brown Unit 3 ("Brown Unit 3") through 2010, (v) installation of flue gas desulfurization ("FGD") controls at Brown Unit 3 by December 31, 2010, (vi) installation of selective catalytic reduction ("SCR") controls at Brown Unit 3 by December 31, 2012, and (vii) compliance with specified operational restrictions, including NOx, SO2 and particulate matter emissions limits and heat input limits (collectively, the "Brown NSR Settlement" and items (v) and (vi), "the FGD/SCR Construction"); and

WHEREAS, the Company desires to receive approval to negotiate and proceed with the Brown NSR Settlement and the FGD/SCR Construction; and

WHEREAS, the Board of Directors has considered matters relating to the Brown NSR Settlement and the FGD/SCR Construction and deems it advisable and in the best interest of the Company to authorize such transaction as set forth herein.

NOW, THEREFORE, BE IT RESOLVED, that the Company is hereby authorized to negotilate and enter into the ICSID Settlement and the FGD/SCR Construction transactions, if and on such terms and conditions as may, be deemed acceptable and advisable by its officers; and

FURTHER RESOLVED, that the officers of the Company are, and each of them

hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company (I) joint motions, consent decrees, or withdrawal agreements, (II) relevant federal, state or local governmental, regulatory, corporate or judicial notices, filings, applications or submissions, (III) transfer, surrender or walver documents relating to emissions allowances, (IV) contribution, donation, consulting or services agreements relating to transaction elements and (v) any other agreement, document or instrument, that may be necessary or appropriate in connection with the Brown NSR Settlement, including but not limited to indemnity, release or other arrangements, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

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FURTHER RESOLVED, that the officers of the Company are, and each of them hereby is, authorized and directed to negotlate, execute and deliver, from time to time, for and on behalf of the Company (i) engineering, construction and contracting arrangements, (ii) financing, guarantees, credit support or loan agreements or notes; (iii) relevant federal, state or local governmental or regulatory filings, applications or submissions for, among other matters, certificates of convenience and necessity, financing, cost or rate recovery treatment, environmental and other permits, siting and real property concerns, and other matters, and (iii) any other agreement, document or instrument, that may be necessary or appropriate in connection with the FGD/SCR Construction, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the officers of the Company are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection with the Brown NSR Settlement and the FGD/SCR Construction, including negotiating such terms, conditions or other changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company In connection with the Brown NSR Settlement and the FGD/SCR Construction contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

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WITNESS the signatures of the undersigned, who are all of the directors of Kentucky Utilities Company as of the date first written above.

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## ACTION OF THE BOARD OF DIRECTORS OF KENTUCKY UTILITIES COMPANY TAKEN BY WRITTEN CONSENT

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## August 18, 2008

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act and Section 13.1-685 of the Virginia Stock Corporation Act, the Board of Directors of Kentucky Utilities Company, a Kentucky and Virginia corporation ("KU" or the "Company"), hereby adopt the following resolutions by unanimous written consent in lieu of a special meeting and consent to the actions contemplated thereby:

## **OMITTED TEXT – NOT RELEVANT**

## **OMITTED TEXT – NOT RELEVANT**

## ALLIANCE COAL LLC COAL SUPPLY AGREEMENT

WHEREAS, LG&E and Kentucky Utilities Company ("KU") have conducted negotiations with Alliance Coal Company LLC ("Alliance") regarding a potential coal supply agreement in the amount of up to \$565.2 million (the "Alliance Coal Contract"); and

WHEREAS, this Board of Directors has considered matters relating to the Alliance Coal Contract and deems it advisable and in the best interest of KU to proceed with such transaction.

NOW, THEREFORE, BE IT RESOLVED, that this Board of Directors does hereby authorize and approve the Alliance Coal Contract; and

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FURTHER RESOLVED, that the appropriate officers of KU are, and each of them hereby is, authorized and directed to negotlate, execute and deliver, from time to time, for and on behalf of the Company (I) coal purchase, supply and transport contracts and appropriate amendments thereto, (II) relevant federal, state or other governmental notices, filings or applications and (III) any other agreement, document or instrument, that may be necessary or appropriate in connection with the Alliance Coal Contract, including but not limited to credit, security, pledge, guaranty or other financial support arrangements, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of KU are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable to consummate the Alliance Coal Contract, including such additional terms, conditions precedent or other changes as may be deemed necessary, appropriate or advisable in the discretion of such officers, with the taking of such actions and the execution of such agreements or documents conclusively to evidence the authorization thereof by this Board of Directors; and FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company in connection with the Alliance Coal Contract contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

WITNESS the signatures of the undersigned, who are all of the directors of Kentucky Utilities Company as of the date first written above.

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## ACTION OF THE BOARD OF DIRECTORS OF KENTUCKY UTILITIES COMPANY TAKEN BY WRITTEN CONSENT

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## December 17, 2007

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act and Section 13.1-685 of the Virginia Stock Corporation Act, the Board of Directors of Kentucky Utilities Company, a Kentucky and Virginia corporation ("KU" or the "Company"), hereby adopt the following resolutions by unanimous written consent in lieu of a special meeting and consent to the actions contemplated thereby:

## ARMSTRONG COAL COMPANY, INC. COAL SUPPLY AGREEMENT

WHEREAS, KU and Louisville Gas and Electric Company have conducted negotiations with Armstrong Coal Company, Inc. regarding a potential coal supply agreement in the amount of up to \$777.1 million (the "Armstrong Coal Contract"); and

WHEREAS, this Board of Directors have considered matters relating to the Armstrong Coal Contract and deem it advisable and in the best interest of KU to proceed with such transaction.

NOW, THEREFORE, BE IT RESOLVED, that this Board of Directors does hereby authorize and approve the Armstrong Coal Contract; and

FURTHER RESOLVED, that the appropriate officers of KU are, and each of them hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company (I) coal purchase, supply and transport contracts and appropriate amendments thereto, (ii) relevant federal, state or other governmental notices, fillings or applications and (iii) any other agreement, document or instrument, that may be necessary or appropriate in connection with the Armstrong Coal Contract, including but not limited to credit, security; pledge, guaranty or other financial support arrangements, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of KU are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable to consummate the Armstrong Coal Contract, including such additional terms, conditions precedent or other changes as may be deemed necessary, appropriate or advisable in the discretion of such officers, with the taking of such actions and the execution of such agreements or documents conclusively to evidence the authorization thereof by this Board of Directors; and

FURTHER RESOLVED, that all actions heretofore or hereafter taken by any

officer of the Company in connection with the Armstrong Coal Contract contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

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## **OMITTED TEXT – NOT RELEVANT**

## **OMITTED TEXT - NOT RELEVANT**

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WITNESS the signatures of the undersigned, who are all of the directors of Kentucky Utililies Company as of the date first written above.

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## ACTION OF THE BOARD OF DIRECTORS OF KENTUCKY UTILITIES COMPANY TAKEN BY WRITTEN CONSENT IN LIEU OF AN ANNUAL MEETING

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## May 10, 2007

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act, and Section 13.1-685 of the Virginia Stock Corporation Act, the Board of Directors of Kentucky Utilities Company, a Kentucky and Virginia corporation (the "Company"), hereby adopt the following resolutions by unanimous written consent in lieu of an annual meeting and consent to the actions contemplated thereby:

## APPROVAL OF FLUE GAS DESULFURIZATION PROJECT UPDATE

WHEREAS, the Board of Directors previously approved matters relating to the \$659 million Flue Gas Desulfurization Project for Kentucky Utilities Company ("KU") on December 16, 2004 and June 13, 2006; and

WHEREAS, actual and projected increases in costs and expenses of equipment, materials, services, labor and other factors have lead to an anticipated increase in the overall cost of the projects to approximately \$980 million (including approximately \$52 million in capitalized interest) (the "FGD Project"); and

WHEREAS, the Board of Directors has considered matters relating to the FGD Project and deems it advisable and in the best interests of the Company to approve such transactions.

**NOW, THEREFORE, BE IT RESOLVED,** that the FGD Project is hereby approved in the total increased amount, and the Company is hereby authorized to proceed with such transactions, as set forth herein; and

FURTHER RESOLVED, that the appropriate officers of the Company, and each of them hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company, respectively, such contracts, agreements, documents or instruments, including appropriate fillings with regulatory agencies, that may be necessary or appropriate in connection with the FGD Project, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of the Company, and each of them hereby is, authorized to determine the form and content of documentation, filings or actions relating to the FGD Project; and

FURTHER RESOLVED, that the appropriate officers of the Company, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection

with the FGD Project, including such changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

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FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company or KU in connection with the transactions contemplated by these resolutions be, and they hereby are, approved, ratifled and confirmed in all respects.

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## **OMITTED TEXT – NOT RELEVANT**

WITNESS the signatures of the undersigned who are all of the directors of Kentucky Utilities Company as of the date first written above.

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## ACTION OF THE BOARD OF DIRECTORS OF KENTUCKY UTILITIES COMPANY TAKEN BY WRITTEN CONSENT

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## June 13, 2006

Pursuant to the provisions of Section 271B.8-210 of the Kentucky Business Corporation Act, and Section 13.1-685 of the Virginia Stock Corporation Act, the Board of Directors of Kentucky Utilities Company, a Kentucky and Virginia corporation (the "Company"), hereby adopt the following resolutions by unanimous written consent in lieu of a special meeting and consent to the actions contemplated thereby:

## GHENT UNIT 2 - SCR PROJECT

WHEREAS, the Company has examined options for future requirements for longterm NOx emissions compliance, including an approximate \$95 million selective catalytic reduction system to be constructed and installed by approximately spring 2009 at the Company's Ghent Unit 2 generating station ("Ghent Unit 2 SCR"); and

WHEREAS, the Company desires to receive approval for the Ghent Unit 2 SCR including, but not limited to, authorization to proceed with engineering, construction, and contracting arrangements; completion of financing, credit support or capital contribution arrangements; submission of governmental applications for certificates of convenience and necessity, financing, cost or rate recovery treatment, environmental and other permits, submissions for siting approvals; acquisition of easements and real property, and other actions; and

WHEREAS, the Board of Directors has considered matters relating to the Ghent Unit 2 SCR and deems it advisable and in the best interests of the Company to approve such transactions.

NOW, THEREFORE, BE IT RESOLVED, that the Ghent Unit 2 SCR is hereby approved, and the Company is hereby authorized to proceed with such transactions, as set forth below; and

FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company such agreements, documents or instruments, including appropriate filings with regulatory agencies, that may be necessary or appropriate in connection with the Ghent Unit 2 SCR, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and

FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized to determine the form and content of documentation, filings or actions relating to the Ghent Unit 2 SCR; and FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection with the Ghent Unit 2 SCR, including such changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

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FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company in connection with the Ghent Unit 2 SCR as contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

## BROWN ASH POND EXPANSION - PHASE I

WHEREAS, the Company has considered options for long-term environmental and combustion byproduct compliance requirements, including an approximate \$150.7 million expansion project to be completed with respect to the ash pond at KU's E.W. Brown generating station (the "Brown Ash Pond Expansion"); and

WHEREAS, the Company desires to receive approval for Phase I of the Brown Ash Pond Expansion, representing actions and expenditures of approximately \$73.1 million through approximately 2010 (the "Phase I Activities"), which amount includes approximately \$19 million previously approved as part of the \$678 million KU FGD Project approved by the Board of Directors on December 16, 2004; and

WHEREAS, the approval of the Phase I Activities will include, but is not limited to, authorization to proceed with engineering, construction, and contracting arrangements; completion of financing, credit support or capital contribution arrangements; submission of governmental applications for certificates of convenience and necessity (if required), financing, cost and rate recovery treatment, environmental and other permits; submissions for siting approvals; acquisition of easements and real property, and other actions; and

WHEREAS, the Board of Directors has considered matters relating to the Phase I Activities and deems it advisable and in the best interests of the Company to approve such transactions.

NOW, THEREFORE, BE IT RESOLVED, that the Phase I Activities are hereby approved and the Company is hereby authorized to proceed with such transactions, as set forth below; and

FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized and directed to negotiate, execute and deliver, from time to time, for and on behalf of the Company such agreements, documents or instruments, including appropriate fillings with regulatory agencies, that may be necessary or appropriate in connection with the Phase I Activities, with such officer's execution and delivery to conclusively evidence such officer's approval thereof and the approval of this Board of Directors; and FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized to determine the form and content of documentation, fillings or actions relating to the Phase I Activities; and

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FURTHER RESOLVED, that the appropriate officers of the Company are, and each of them hereby is, authorized and directed, to take such other actions as they shall, in their discretion, deem necessary, appropriate or advisable in connection with the Phase I Activities, including such changes as may be deemed necessary, appropriate or advisable in the discretion of such officers; and

FURTHER RESOLVED, that all actions heretofore or hereafter taken by any officer of the Company in connection with the Phase I Activities as contemplated by these resolutions be, and they hereby are, approved, ratified and confirmed in all respects.

WITNESS the signatures of the undersigned, who are all of the directors of Kentucky Utilities Company as of the date first written above.

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Victor A. Staffleri

N lm

Chris Hermann

A John R. McCall

S. Bradford Rives

Paul W. Thompson

# Attachment to Question No. 28 6 of 9

Bellar



## Proprietary & Confidential

Strategic Discussion (Project Atlantis)

Presentation to the Board of Directors

February 26, 2010

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	Service		Requested Ra	ested Rate Increase	On January 29, 2010, E.ON U.S. Illeu all
	Electric		12.1%	12.1% (\$94.6 million)	application with the KPSC requesting annual increases in base electric and gas rates
LG&E G	Gas Electric		7.7%	7.7% (\$22.6 million) 11.5% (\$136 million)	The requested increases are based on historic test
					year ended October 31, 2003 - 11.5% return on equity and 53% equity
3	008-2009 e (Cé	9 electric retail ave (cents/kilowatt houl	2008–2009 electric retail average rates (cents/kilowatt hour)	S	<ul> <li>Designed to recover costs associated with</li> </ul>
12 J			9.6	10.0	capital investments, including a portion of the Trimble County 2 coal plant under
10 8	u u	6.7			construction (COD 2010), as well as other
Beefing and and				the second se	increases in operating costs, including ice and wind storm regulatory assets for which
4 0					E.ON U.S. is seeking recovery over five
		LG&E	Midwest <sup>(1)</sup>	, US average	Hearings expected to begin in May 2010
Recidential 7	7.18	7.51	11.46	11.76	
••	6.39	6.96	9.98	10.25	<ul> <li>Anticipated effective date of August 1, 2010</li> </ul>
	5.52	5.15	6.57	6.82	

<u>مر</u> ' `` ) ©2010 PPL Corporation

Supportive Rec	egulatory Environment
Regulatory construct	Description
Environmental cost recovery ("ECR")	<ul> <li>Provides real-time recovery of, and return on, environmental investment and recovery of environmental O&amp;M resulting from compliance with the Clean Air Act</li> </ul>
	<ul> <li>Approximately 75% of the \$1 billion of environmental capital expenditures to be spent in 2010–2019 has been approved by the KPSC for inclusion in the ECR</li> </ul>
Construction work in progress ("CWIP")	<ul> <li>History of including CWIP in rate base for large projects such as Trimble County 2 coal plant</li> </ul>
Fuel adjustment clause ("FAC")	<ul> <li>Increases and decreases in the cost of fuel for electric generation are reflected monthly in the rates charged to retail electric customers with a two month lag</li> </ul>
Gas supply clause ("GSC")	<ul> <li>Actual cost of natural gas supply for LG&amp;E gas utility reflected in rates, which are reset quarterly</li> </ul>
	<ul> <li>Includes an incentive mechanism tied to performance versus benchmarked natural gas costs</li> </ul>
Demand side management ("DSM")	<ul> <li>Concurrent recovery of DSM costs, including lost revenue</li> <li>Financial incentive to the utility for implementing DSM programs</li> </ul>
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Capacity (MW) <sup>(1)</sup>	<b>Operating plants</b>	ints				
Hydro		Ca	capacity In-service Primary	service F		
Gas 1%	Plant name	Owner	(MM)	year f		Environmental equipment
21%	Ghent	KU	1,918	1974 (	Coal	Scrubber, particulate & NOX control
		1685	1,472	1972	Coal	Scrubber, particulate & NOx control
Coal Coal 72%	Mill Creek F IV Brown		697	1957	Coal	Particulate control and NOx control. Scrubber to be installed by 12/2010
	Cane Run	LG&E	583	1962	Coal	Scrubber, particulate & NOx control
	Trimble County 1	LG&E	383	1990	Coal	Scrubber, particulate & NOx control
Totai (MW) = 8,077MW	Green River	ĸn	163	1954	Coal	Scrubber, particulate & NOx control
Output (GWh) <sup>(2)</sup>	Tvrone 3	Ŕ	11	1953	Coal	NA
Gas Hydro	Trimble County 2	LG&E / KU	570	2010 <sup>(1)</sup> Coal	Coal	Scrubber, mercury, PM, NOX control
1% 1%	Trimble County CT LG&E / KU	LG&E / KU	960	2002	Gas	NA
	E.W. Brown CT	LG&E / KU	947	1994	Gas	NA
	Secondary CTs	LG&E / KU	257	¥	Gas	NA
Coal	Chio Falls	LG&E	52	1928	Hydro	NA
%86	Dix Dam	ĸn	24	1925	Hydro	NA
Total Output (GWh) = 31,678	Total		8,077			

ulated Generation Fleet

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# Attachment to Question No. 28 7 of 9 Bellar



## (outside directors, Chairman, CLC and J. McGuire)

PRESENTATION

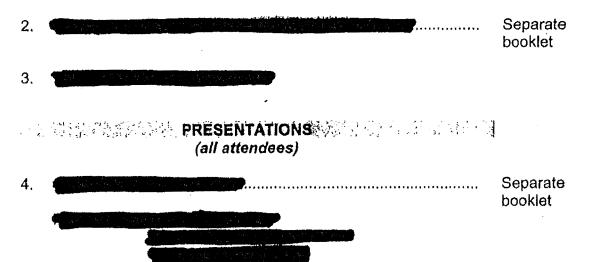
1. Strategic Update..... Separate booklet Presenter: James H. Miller Chairman, President and

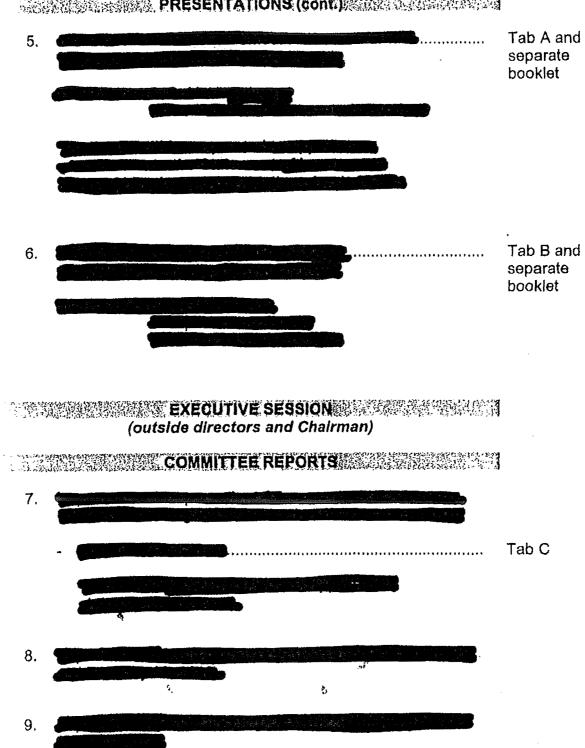
Chairman, President and Chief Executive Officer

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EXECUTIVE SESSION

(all attendees)

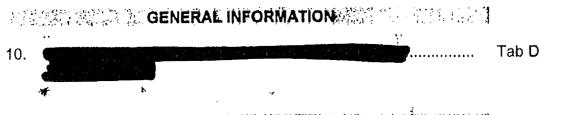




PRESENTATIONS (cont.)

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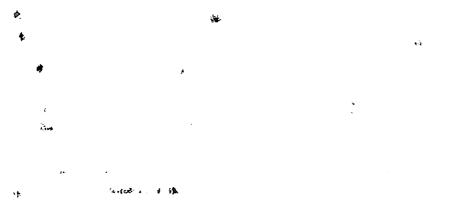
ADJOURNMENT

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## Attachment to Question No. 28

8 of 9 Bellar

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Proprietary & Confidential

March 26, 2010

Presentation to the Board of Directors

(Project Atlantis)

Strategic Update

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Progressive N	regulatory Environment
Regulatory construct	
Environmental cost recovery ("ECR")	<ul> <li>Provides real-time recovery of, and return on, environmental investment and recovery of environmental O&amp;M associated with coal-fired generation</li> </ul>
	<ul> <li>Approximately 75% of the \$1 billion of environmental capital expenditures to be spent in 2010–2019 has been approved by the KPSC for inclusion in the ECR</li> </ul>
Construction work in progress ("CWIP")	<ul> <li>History of including CWIP in rate base for large projects such as Trimble County 2 coal plant</li> </ul>
Fuel adjustment clause ("FAC")	<ul> <li>Increases and decreases in the cost of fuel for electric generation are reflected monthly in the rates charged to retail electric customers with a two-month lag</li> </ul>
Gas supply clause ("GSC")	<ul> <li>Actual cost of natural gas supply for LG&amp;E gas utility reflected in rates, which are reset quarterly</li> </ul>
	<ul> <li>Includes an incentive mechanism tied to performance versus benchmarked natural gas costs</li> </ul>
Demand side management ("DSM")	<ul> <li>Concurrent recovery of DSM costs, including lost revenue</li> </ul>
	<ul> <li>Financial incentive to the utility for implementing DSM programs</li> </ul>
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# **Drogressive Regulatory Environment**

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Key Issues:	Environmental
FGDs in Coal Fleet (SOx)	<ul> <li>Environmental cost recovery ("ECR") mechanism</li> <li>95% of E.ON US's electric production comes from coal-fired plants</li> </ul>
1st Generation 35%	<ul> <li>Most recent ECR plan approved by KPSC December 2009</li> <li>Includes Brown SCR and coal combustion by-products projects at Brown, Cane Run, Ghent and Trimble County 1</li> </ul>
High efficiency	<ul> <li>Year-end 2009 ECR Rate Base over \$1.5 billion, with environmental capital spending of approximately \$1 billion over the 2010-2019 period</li> </ul>
SCRs in Coal Fleet (NOx)	Environmental legislation and regulation issues
None 37%	<ul> <li>EPA regulation: significant areas include NSR, CAIR and CAMR replacements, Hg and HAPs and coal ash</li> </ul>
Current	<ul> <li>Renewable legislation: Kentucky does not currently have an RPS standard</li> </ul>
56% Planned Planned 7%	CO <sub>2</sub> legislation: anticipate recovery of carbon costs through ECR mechanism
©2010 PPL Corporation	25 25

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## Attachment to Question No. 28 9 of 9 Bellar

## AGENDA BOARD OF DIRECTORS MEETING APRIL 27, 2010

## INTRODUCTORYMATTERS

1. Overview of Transaction

James H. Miller Chairman, President and Chief Executive Officer

## PRESENTATIONS

2. Business Judgment Rule

Presenters: Vincent Pagano Mario A. Ponce Simpson Thacher & Bartlett LLP

3. Review of Terms of Purchase and Sale Agreement

Presenter: Mario A. Ponce Andrew Calder Simpson Thacher & Bartlett LLP

4. Analysis Supporting Fairness Opinion

Presenters: Jamie Welch Managing Director Head of Global Energy Credit Suisse

> John Cogan Managing Director Credit Suisse

Plerre Bosse Director Credit Suisse

The Board will be requested to approve the acquisition of the limited liability company interests of E.ON U.S. LLC.

ADJOURNMENT

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## **KENTUCKY UTILITIES COMPANY**

## Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## Question No. 29

## Witness: Lonnie E. Bellar

- Q-29. To the extent not already provided in response to request 28 above, please provide any agendas, handouts, minutes, documents or notes prepared for or resulting from each meeting of the Companies' Board of Directors (and any subcommittee of that Board) at which the matters of request 28 were discussed in any way.
- A-29. Please see the response to Question No. 28.

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## KENTUCKY UTILITIES COMPANY

## Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## Question No. 30

## Witness: Counsel / John N. Voyles, Jr. / Daniel K. Arbough

- Q-30. Please provide all reports, memoranda, presentations, or other documents provided to stockholders, investors, banks, investment firms, investment brokers or dealers, investment analysts, bond rating agencies or the like by the Companies' within the past five years concerning
  - a. the status of the Companies' coal-fired generating stations (the Coal Plants),
  - b. past, present or future environmental compliance of the Coal Plants, litigation or settlements (including NSR settlements with the EPA and/or DOJ) concerning the Coal Plants, to the extent not covered by attorney-client privilege,
  - c. past, present or future need for the Coal Plants, or the need for or plans for capital additions to the Coal Plants, whether for environmental compliance or otherwise, and
  - d. any other matter that could affect the costs or output of the Coal Plants.
- A-30. Objections are made to the request for information on the grounds that it is not a supplemental data request, is overly broad and unduly burdensome. Without wavier of these objections, KU provides the following responses:
  - a. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30. Please also see the response to KPSC-1 Question No. 32(h).
  - b. The consent decrees responsive to this request were provided as Exhibits attached to Mr. Revlett's testimony.
  - c. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30. Please also see the response to KPSC-1 Question No. 32(h) and part b above.
  - d. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30.

## KENTUCKY UTILITIES COMPANY

## Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

## Case No. 2011-00161

## Question No. 31

## Witness: John N. Voyles, Jr. / Daniel K. Arbough

- Q-31. To the extent not already provided in response to request 30 above, please provide any agendas, handouts, minutes or notes prepared for or resulting from each meeting of the Companies' representatives with stockholders, investors, banks, investment firms, investment brokers or dealers, investment analysts, bond rating agencies or the like during which the matters listed in request 30 were discussed in any way.
- A-31. Please see the response to Question No. 30.

### KENTUCKY UTILITIES COMPANY

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### Question No. 32

### Witness: Charles R. Schram

- Q-32. Please state whether the company has evaluated, or caused to be evaluated, the external costs or damages, including costs or damages to human health or the environment, of operating the existing coal fleet? If yes, please provide the analysis, as well as any workpaper or source document supporting this analysis.
- A-32. Please see the response to SC-NRDC-1 Production of Documents Question No. 18. Consistent with Commission precedent<sup>1</sup>, the Companies did not evaluate externalities in determining the least-cost plan for meeting native load requirements and complying with anticipated environmental regulations.

<sup>&</sup>lt;sup>1</sup> See, .e.g., In the Matter of the Application of East Kentucky Power Cooperative, Inc., for a Certificate of Public Convenience and Necessity to Construct a 138 kV Transmission Line in Rowan County, Kentucky, Case No. 2005-00089, Order at 7 (Aug. 19, 2005) ("Unlike some other utility regulatory agencies, this Commission has not previously attempted to quantify "externalities," nor does it intend to ....").

### KENTUCKY UTILITIES COMPANY

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

### Case No. 2011-00161

### **Question No. 33**

### Witness: Charles R. Schram

- Q-33. For each of the following tables and exhibits, please state if the dollar values are in real or nominal dollars, and the assumed inflation rate associated with the table.
  - a. Attachment to Response to LGE KPSC-1 Question 37 Pages 1-2, 4-5, and 7-8
  - b. Attachment to Response to LGE KPSC-1 Question 45 Page 1
  - c. Attachment to Response to LGE KPSC-1 Question 46(b) Pages 9-10
  - d. Attachment to Response to LGE KPSC-1 Question 46(c) Pages 1-4
  - e. Attachment to Response to SC/NRDC Document Request 16, 2011 Air Compliance Plan Sensitivity Analysis, page 4
- A-33. a. Nominal.
  - b. Nominal.
  - c. Nominal.
  - d. Nominal.
  - e. Table 2 on Page 4 of the Companies' response to SC-NRDC-1 Production of Documents Question No. 16 does not contain dollar values.

### **COMMONWEALTH OF KENTUCKY**

### **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE APPLICATION OF KENTUCKY UTILITIES	5)	
COMPANY FOR CERTIFICATES OF PUBLIC	)	
CONVENIENCE AND NECESSITY AND	)	CASE NO.
APPROVAL OF ITS 2011 COMPLIANCE PLAN	)	2011-00161
FOR RECOVERY BY ENVIRONMENTAL	)	
SURCHARGE	)	

RESPONSE OF KENTUCKY UTILITIES COMPANY TO THE SUPPLEMENTAL REQUESTS FOR INFORMATION OF RICK CLEWETT, RAYMOND BARRY, SIERRA CLUB, AND THE NATURAL RESOURCES DEFENSE COUNCIL DATED AUGUST 18, 2011

# **ONE PAPER COPY QUESTION NO. 30**

FILED: SEPTEMBER 1, 2011

### KENTUCKY UTILITIES COMPANY

### Response to the Supplemental Requests for Information of Rick Clewett, Raymond Barry, Sierra Club and the Natural Resources Defense Council Dated August 18, 2011

Case No. 2011-00161

Question No. 30

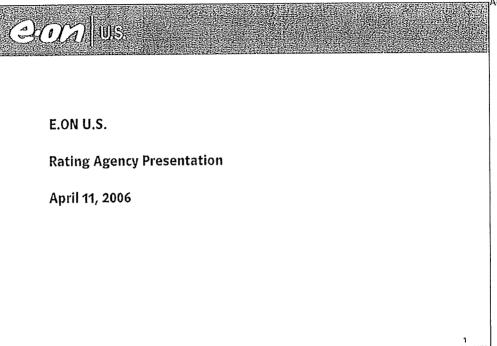
### Witness: Counsel / John N. Voyles, Jr. / Daniel K. Arbough

- Q-30. Please provide all reports, memoranda, presentations, or other documents provided to stockholders, investors, banks, investment firms, investment brokers or dealers, investment analysts, bond rating agencies or the like by the Companies' within the past five years concerning
  - a. the status of the Companies' coal-fired generating stations (the Coal Plants),
  - b. past, present or future environmental compliance of the Coal Plants, litigation or settlements (including NSR settlements with the EPA and/or DOJ) concerning the Coal Plants, to the extent not covered by attorney-client privilege,
  - c. past, present or future need for the Coal Plants, or the need for or plans for capital additions to the Coal Plants, whether for environmental compliance or otherwise, and
  - d. any other matter that could affect the costs or output of the Coal Plants.
- A-30. Objections are made to the request for information on the grounds that it is not a supplemental data request, is overly broad and unduly burdensome. Without wavier of these objections, KU provides the following responses:
  - a. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30. Please also see the response to KPSC-1 Question No. 32(h).
  - b. The consent decrees responsive to this request were provided as Exhibits attached to Mr. Revlett's testimony.
  - c. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30. Please also see the response to KPSC-1 Question No. 32(h) and part b above.
  - d. Documents responsive to the request for information are attached on CD in the folder titled Question No. 30.

# Attachment to Question No. 30 1 of 8

Arbough

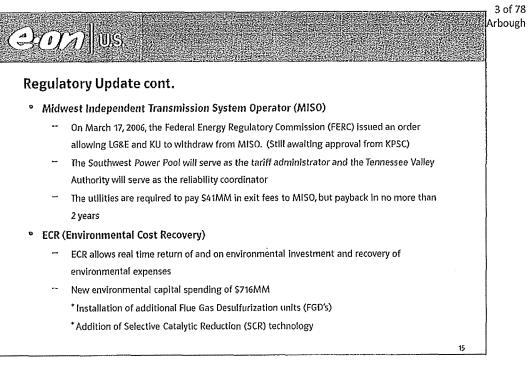
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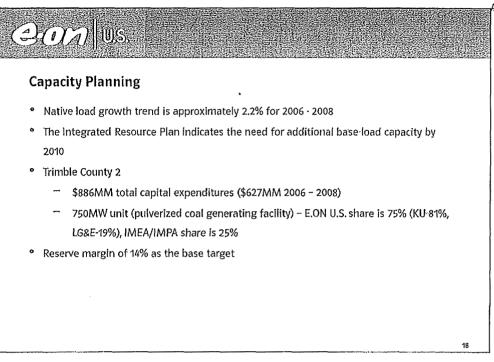
THE REPORT

Arbough









Attachment to Response to Question No. SC—NRDC 2-30 5 of 78 Arbough

207) WSX	
Frimble County 2 Timeline	
<u>Event</u>	Timing
File CCN	Completed
Air Permit Application Complete	Completed
Issue EPC Bid Package	Completed
Final Air Permit Issued	Completed
CCN Order Issued	Completed
Board Authorization to Construct	Completed
Full Notice to Proceed	3 <sup>rd</sup> Quarter 2006
Commercial Operation of TC2	2 <sup>nd</sup> Quarter 2010

19

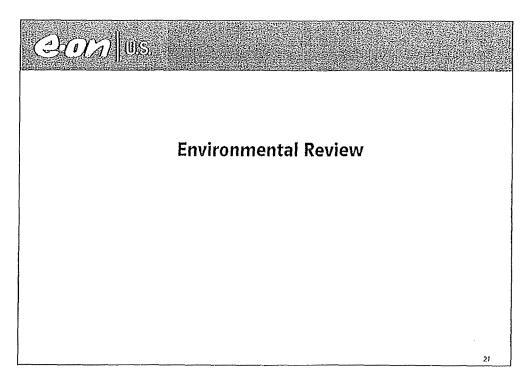
## Attachment to Response to Question No. SC-NRDC 2-30 6 of 78 Arbough

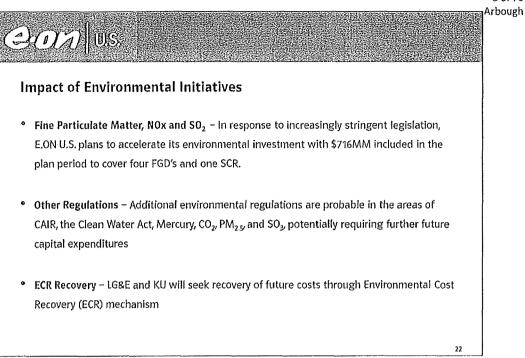
	ンン し ble Coun		ital Expe	nditures	i (in \$Mil	lions)			
	<u>Pre-2005</u>	<u>2005</u>	2006	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	Total	
KU	9	3	66	172	270	169	28	717	
LG&E	2	<u>1</u>	<u>16</u>	<u>40</u>	<u>63</u>	<u>40</u>	<u>Z</u>	<u>169</u>	
Total	11	4	82	212	333	209	35	886	
								20	

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Attachment to Response to Question No. SC—NRDC 2-30 7 of 78 Arbough



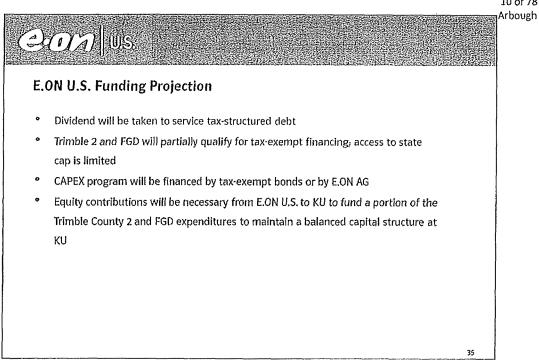


Attachment to Response to Question No. SC--NRDC 2-30 9 of 78 Arbough

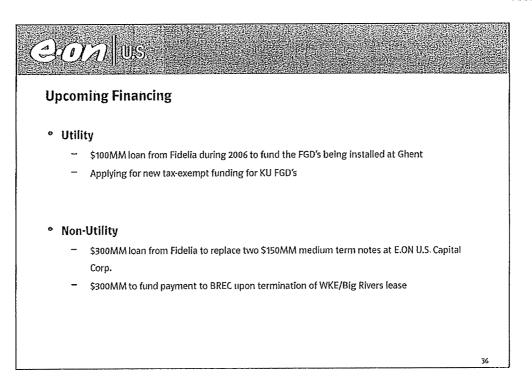
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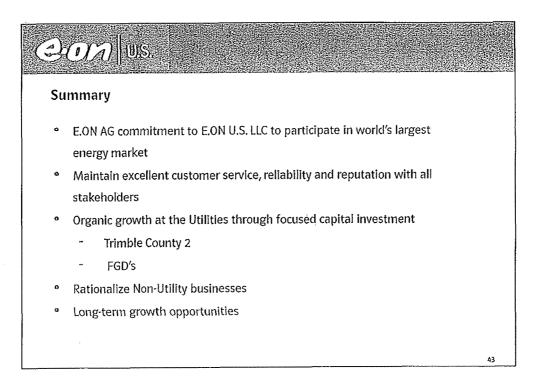
COM WS.					
Utility Environmental	Capital Ex	penditu	res (\$Milli	ons)	
	<u>2006</u>	2007	2008	<u>Total</u>	
Ghent 2 FGD	50	50	22	122	
Ghent 3 FGD	102	38	0	140	
Ghent 4 FGD	0	49	49	98	
Brown 1-3 FGD	2	98	100	200	
Ghent SCR	7	30	46	83	
Other	<u>18</u>	25	<u>30</u>	<u>73</u>	
Total	179	290	247	716	
					23

10 of 78

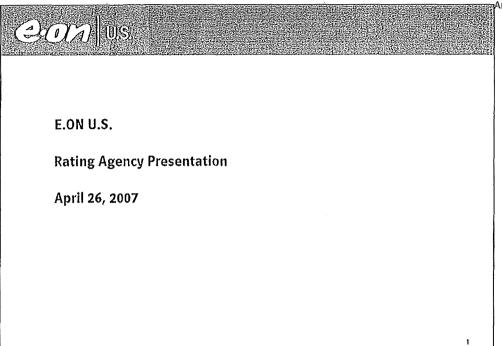


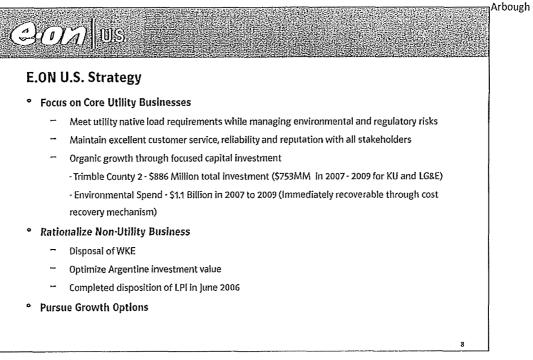
Attachment to Response to Question No. SC—NRDC 2-30 11 of 78 Arbough



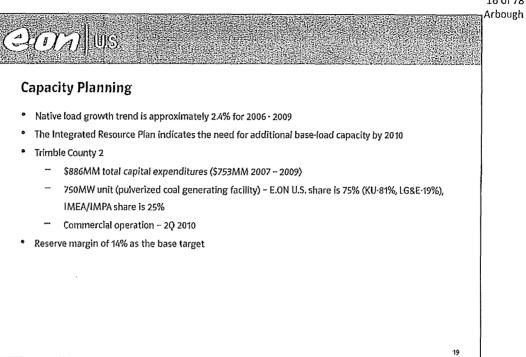








15 of 78 Arbough CON US **Regulatory Update cont.** ECR (Environmental Cost Recovery) 0 ----ECR allows real time return of and on environmental investment and recovery of environmental expenses New environmental capital spending of \$1.1 billion from 2007 - 2009 \* Installation of additional Flue Gas Desulfurization units (FGD's) at Ghent and Brown \* Installation of Air Quality Control System at TC II "Addition of Selective Catalytic Reduction (SCR) technology at Ghent Final order from Kentucky Commission received in January 2007, approving changes and credits billed through the ECR. 17

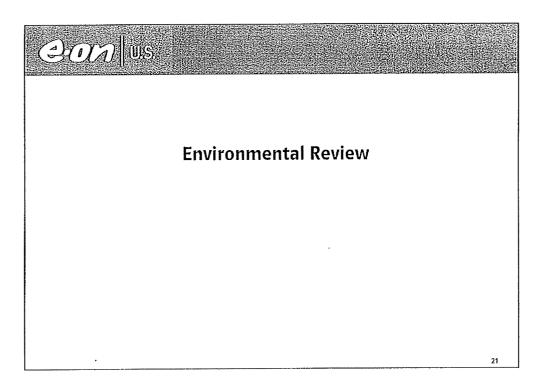


Arbough

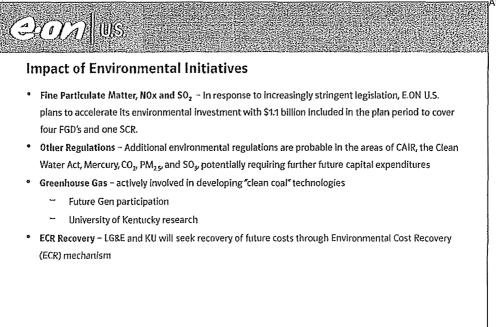
irim	ble Coun	ity 2 Cap	паг Ехре	enaitures	5 (IN \$1411	nons)		
	Pre-2006	2006	2007	2008	2009	<u>2010</u>	Total	
KU	8	87	253	256	98	7	709	
LG&E	9	_21	67	59	_20	1	<u>177</u>	
Total	17	108	320	315	118	8	886	

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Attachment to Response to Question No. SC--NRDC 2-30 18 of 78 Arbough



Arbough

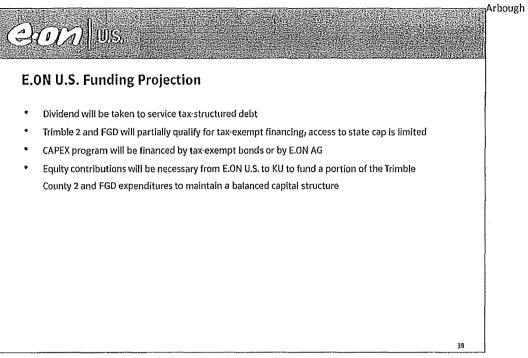


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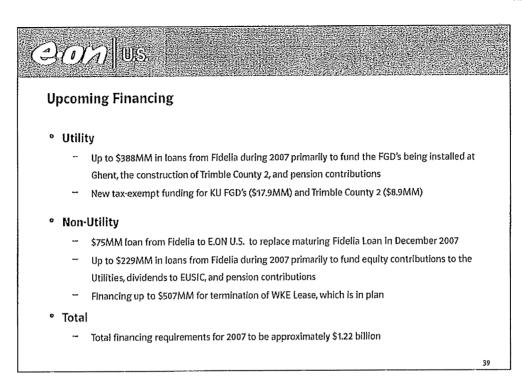
Arbough

tility Environment	al Capital Ex	kpenditu	res (\$Milli	ons)	
	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>Total</u>	
Ghent 2-4 FGD	197	121	36	354	
Brown Ash Pond	26	8	6	40	
TC2 Emissions	80	131	3	214	
Controls	79	129	68	276	
Brown 1-3 FGD	25	35	34	94	
Ghent SCR	33	_47	<u>51</u>	<u>    131</u>	
Other	440	471	198	1,109	
Total					

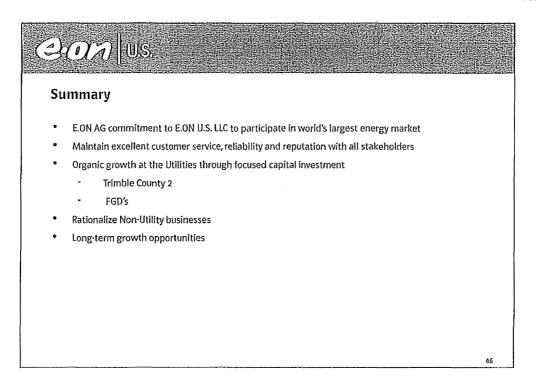
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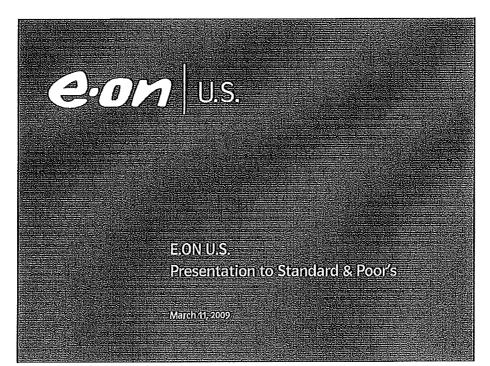
Attachment to Response to Question No. SC—NRDC 2-30 22 of 78 Arbough



Attachment to Response to Question No. SC—NRDC 2-30 23 of 78 Arbough



Attachment to Response to Question No. SC---NRDC 2-30 24 of 78 Arbough



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# eon us

# E.ON U.S. Currently Has a Good Position in the U.S. Midwest with Significant Organic Utility Growth in Kentucky

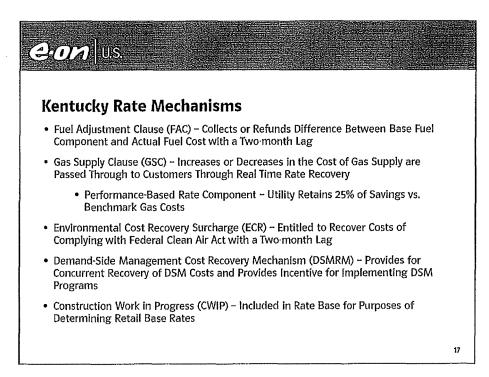
### E.ON U.S. Utility - A Strong Position in Kentucky

- Excellent Customer Satisfaction Rating
- Superior Cost and Operational Excellence
- Outstanding Safety Record
- Low Rates Compared to Midwest and Nation
- Strong Returns on Invested Capital
- Supportive Regulatory Regime and Rate Mechanisms

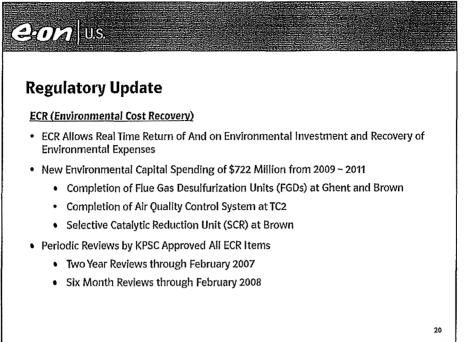
### Value Creating Organic Growth is Priority

- Invest in Infrastructure to Meet Expanding Native Load: Trimble County 2 Base Load Plant
- Comply with Increasing Environmental Requirements: Investments Immediately Recoverable
  Through Environmental Cost Recovery Mechanism

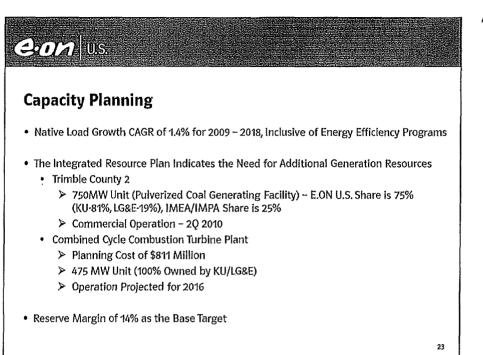
Attachment to Response to Question No. SC---NRDC 2-30 26 of 78 Arbough



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# **20**7 US

# Trimble County 2 Capital Expenditures (US\$ in millions)

	Pre-2009	2009	<u>2010<sup>1</sup></u>	Total
КU	\$549	\$148	(\$9)	\$688
LG&E	<u>146</u>	<u>35</u>	<u>(2)</u>	<u>179</u>
Total	\$695	\$183	(\$11)	\$867

One of Most Technologically Advanced Coal Fired Facilities in the Region

Cost to Construct is Approximately 50% of Current Levels

Qualified for \$125 Million Advanced Coal Credit Investment Tax Credit

Alleviates Need for Generation Additions Until 2016

· More than two-thirds of plant construction costs currently reflected in rates

<sup>1</sup>Negative figures represent credits recorded as capital expenditures for test volumes sold into the market in 2010.

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#### Attachment to Response to Question No. SC-NRDC 2-30

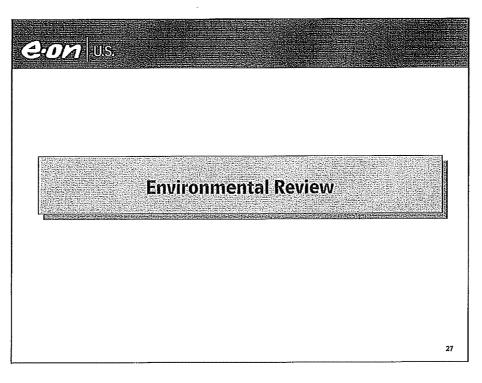
30 of 78 Arbough

## **@071** US

### Total Capital Expenditures (US\$ in millions)

	2007	2008	<u>2009E</u>	<u>2010E</u>	2011E	Total <u>′09·'11E</u>
Trimble County 2	\$245	\$155	\$152	\$(13)	ş.	\$139
Trimble County 2 (ECR)	58	115	31	2	-	33
Other ECR Eligible Costs	397	300	298	232	215	745
Other Energy Services	134	132	130	109	176	415
Energy Delivery	159	161	168	184	214	566
IT	44	48	28	20	20	, 68
Other	<u>12</u>	<u>27</u>	Z	1	<u>1</u>	2
Total	\$1,049	\$938	\$814	\$535	\$626	\$1,975

Attachment to Response to Question No. SC---NRDC 2-30 31 of 78 Arbough



Attachment to Response to Question No. SC-NRDC 2-30

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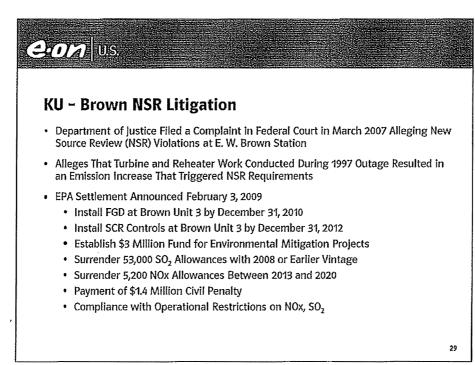
32 of 78 Arbough

## eon us

#### Impact of Environmental Initiatives

- Fine Particulate Matter, NOx and SO<sub>2</sub> In Response to Increasingly Stringent Legislation, E.ON U.S. Plans to Continue its Environmental Investment Including Three FGD's and One SCR
- Greenhouse Gas Actively Involved in Developing "Clean Coal" Technologies
  - Future Gen Participation
  - University of Kentucky Research
  - Participation in Kentucky Consortium for Carbon Storage and the Carbon Management Research Group
  - EPRI Research Programs on Greenhouse Gas Reduction and Carbon Storage
- ECR Recovery LG&E and KU Will Seek Recovery of Future Costs Through Environmental Cost Recovery (ECR) Mechanism

Attachment to Response to Question No. SC—NRDC 2-30 33 of 78 Arbough



#### Attachment to Response to Question No. SC--NRDC 2-30

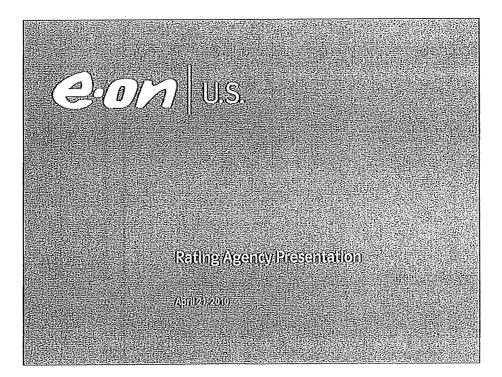
34 of 78 Arbough

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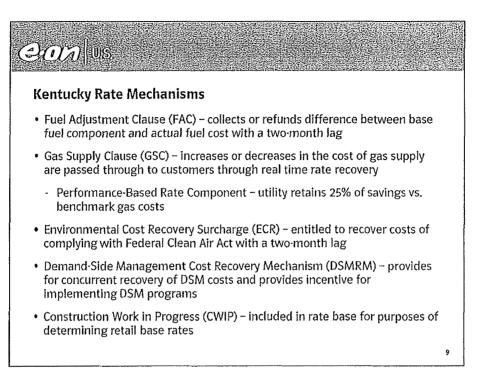
### Utility Environmental Capital Expenditures (US\$ in millions)

	2007	2008	0000	08405	2044E	Total <u>'09-'11E</u>
	2007	2000	<u>2009E</u>	<u>2010E</u>	<u>2011E</u>	<u>09" 11C</u>
TC2 AQCS	\$ 58	\$ 115	\$ 31	\$2	\$ -	\$ 33
Ghent FGDs	267	143	99	-	-	99
Brown FGD	99	132	178	88	2	268
Brown SCR	-	4	•	34	74	108
Ash Ponds / Landfills	23	12	19	76	87	182
Other	.8	9	.2	34	<u>52</u>	_ 88
Total	\$455	\$415	\$329	\$234	\$215	\$778

Attachment to Response to Question No. SC---NRDC 2-30 35 of 78 Arbough

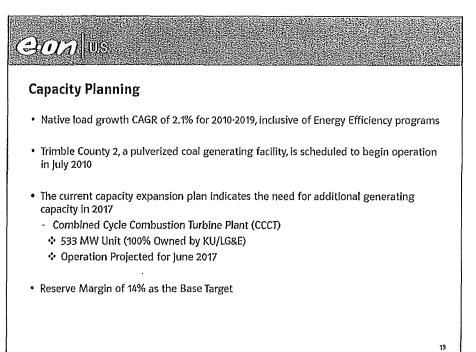


#### Attachment to Response to Question No. SC—NRDC 2-30 36 of 78 Arbough

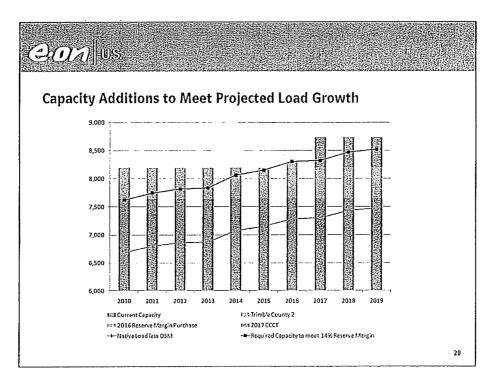


### Attachment to Response to Question No. SC---NRDC 2-30

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Attachment to Response to Question No. SC—NRDC 2-30 38 of 78 Arbough



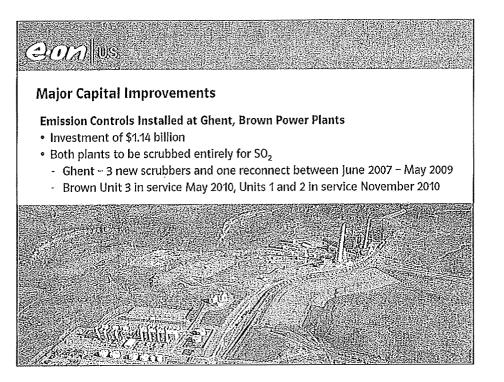
#### Attachment to Response to Question No. SC-NRDC 2-30

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21

ıble County 2 <i>in Millions)</i>			
	Through <u>2009</u>	2010	<u>Total</u>
Air Quality Control Systems	\$231	2	\$233
Balance of Plant	616	18	634
Transmission Projects	89	_5	_94
Total	\$936	\$25	\$961



## , Attachment to Response to Question No. SC-NRDC 2-30

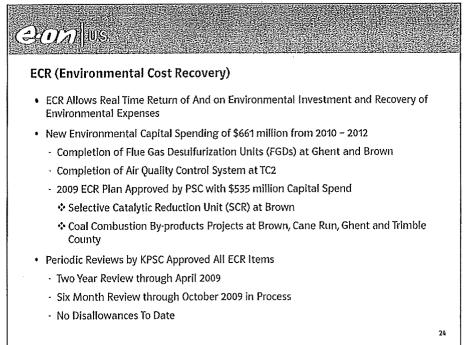
41 of 78 Arbough

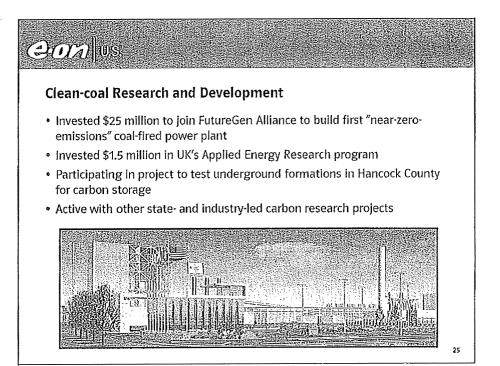
atal Constal Example	******							
otal Capital Expend US \$ in Millions)	itures							
	Actual		Forecast					
	2008	2009	<u>2010</u>	<u>2011</u>	<u>2012</u>	Tota <u>'10-'12</u>		
Generation Capacity	\$301	\$181	\$31	\$32	\$30	\$9		
FGDs	273	170	139	30		16		
<b>Coal Combustion Products</b>	11	23	84	77	86	24		
Other ECR	16	10	37	90	111	23		
Generation Maintenance	63	51	43	157	135	33		
Transmission	28	42	50	32	28	11		
Distribution	154	152	183	190	208	58		
Other	67	33	40	33	52	12		
Accrual to Cash		41	3	10	11	_2		
Total	\$931	\$703	<u>\$610</u>	\$651	\$661	\$1,92		

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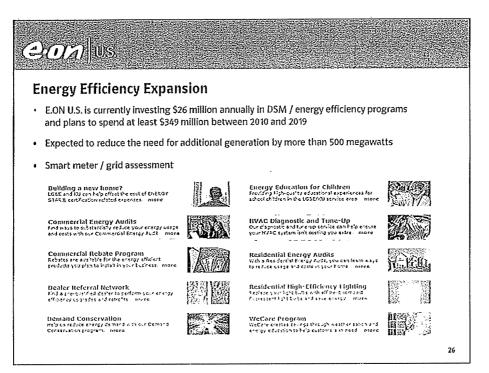
#### Attachment to Response to Question No. SC--NRDC 2-30

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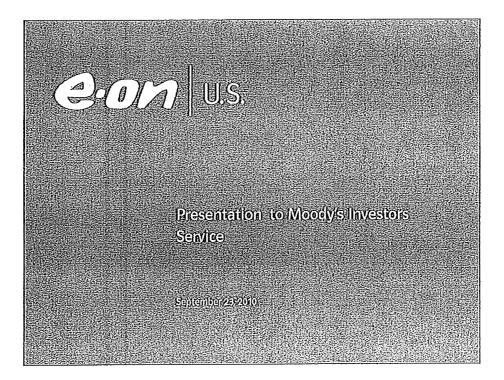


Attachment to Response to Question No. SC—NRDC 2-30 44 of 78 Arbough



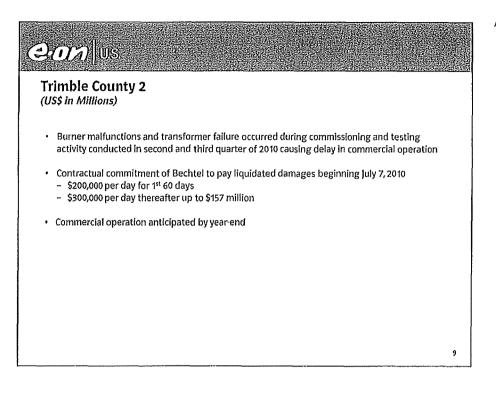
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Attachment to Response to Question No. SC—NRDC 2-30 45 of 78 Arbough

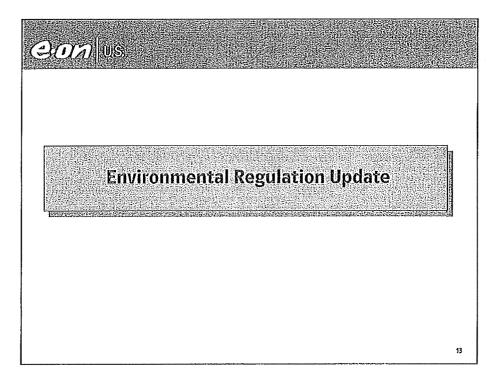


Attachment to Response to Question No. SC--NRDC 2-30

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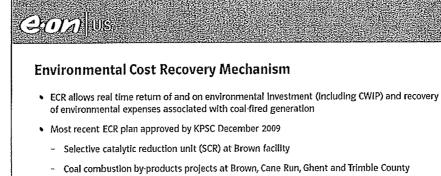


Attachment to Response to Question No. SC—NRDC 2-30 47 of 78 Arbough



#### Attachment to Response to Question No. SC---NRDC 2-30

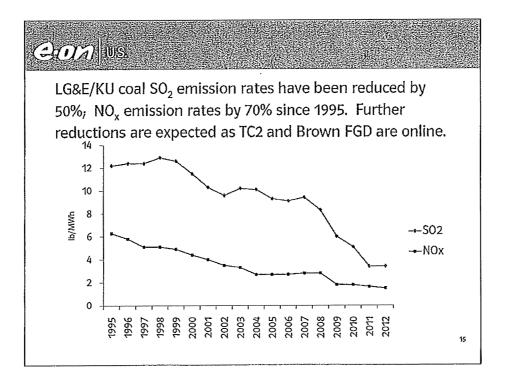
48 of 78 Arbough



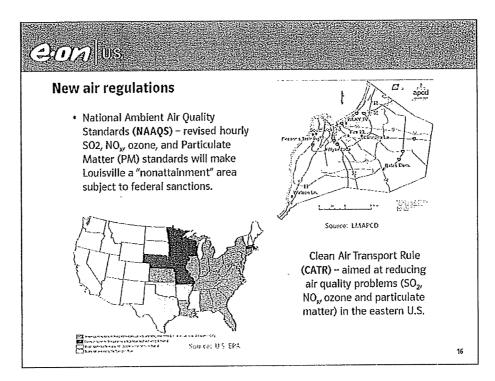
- Periodic Reviews by KPSC
  - Two year reviews complete through April 2009
  - Six month review initiated through April 2010
  - No disallowances
- Anticipate recovery of carbon costs through this mechanism

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Attachment to Response to Question No. SC—NRDC 2-30 50 of 78 Arbough



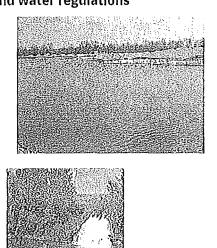
#### Attachment to Response to Question No. SC—NRDC 2-30 51 of 78 Arbough

### QOA US New air regulations (continued) Maximum Achievable Control Technology (MACT) for Hazardous Air Pollutants (HAP) - new federal focus on plant by plant controls (as opposed to cap & trade) will dramatically increase the cost of reducing mercury and other emissions. 50 Source: U.S. EPA CO<sub>2</sub> Best Available Control Technology (BACT) – EPA will require implementation of BACT despite the consensus that no control technology is currently available. 17

## ON US

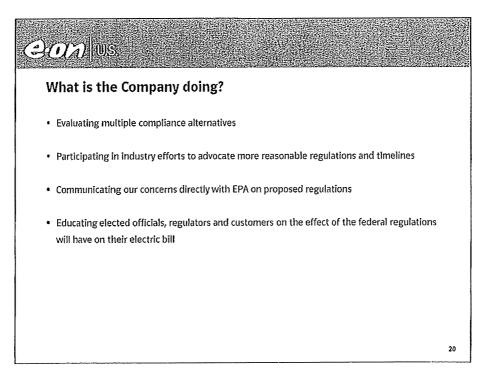
#### New coal combustion products and water regulations

- Coal Combustion Products (CCP) Despite past EPA determinations that CCPs do not pose any significant human health or environmental risks, EPA is considering designation of CCPs as a "hazardous waste" subject to extensive requirements or modifying current "nonhazardous" rules with more stringent requirements. Both approaches will increase costs.
- Water quality EPA is revising cooling water withdrawal and water discharge guidelines and standards.

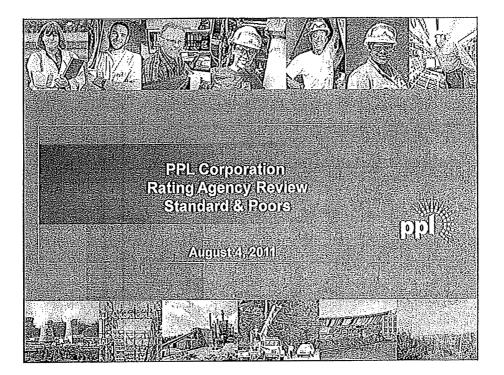


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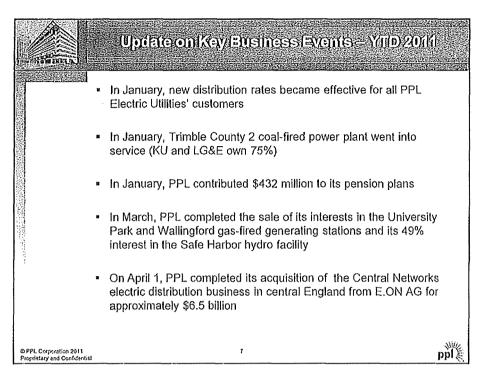
# Cond US Short compliance timelines likely once final rules are issued National Ambient Air Quality Standards (NAAQS) for NO<sub>x</sub> and SO<sub>2</sub> -Issued: February - June 2010, Compliance: January - June 2017 Clean Air Transport Rule (CATR) -Projected Final Rule: June 2011, Compliance: January 2012 & January 2014 Maximum Achievable Control Technology (MACT) for Hazardous Air Pollutants (HAP) -Projected Final Rule: November 2011, Compliance: January 2015 Carbon Dioxide (CO<sub>2</sub>) Best Available Control Technology (BACT) -Issued: May 2010, Compliance: January 2015 Coal Combustion Products (CCP) -Alternatives Proposed: May 2010, Projected Final Rule: uncertain; Compliance: within 5 years of final rule Water quality - Water withdrawal Projected Issue date: December 2010, Water Discharge Projected Issue date: 2012, Compliance: Uncertain



Attachment to Response to Question No. SC---NRDC 2-30 55 of 78 Arbough



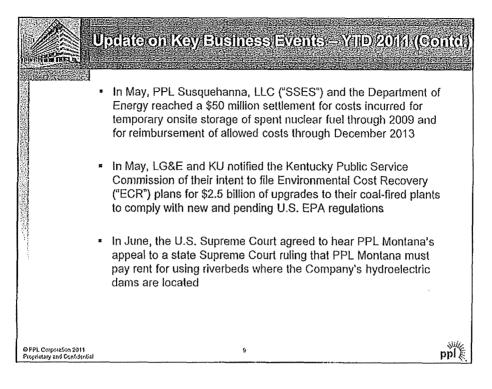
Attachment to Response to Question No. SC—NRDC 2-30 56 of 78 Arbough



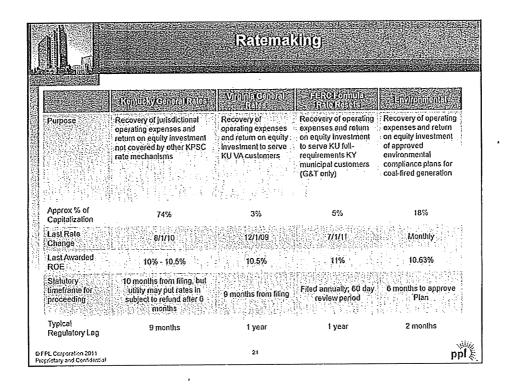
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Attachment to Response to Question No. SC---NRDC 2-30 57 of 78 Arbough



Attachment to Response to Question No. SC—NRDC 2-30 58 of 78 Arbough



Attachment to Response to Question No. SC---NRDC 2-30 59 of 78 Arbough

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		20	11	2012		Projec 2013		rear of 014		2015	2	016	ĩ	otal
LG&E														
	Mil Creek FGD's	\$	4	\$ 12	8 \$	225 188	s	183 187	\$.	105 149	\$	В	\$	645 623
	Mill Creek Baghouses Trimble County Baghouse		6	E E	5 -	23		38		149 58		5		124
	TotalLGSE	\$	10	\$ 21	3 \$	438	5	408	\$	312	\$	13	\$	1,392
				2012		Project 2013	led \		Spi			016		016 per
ĸu		20	111	2012		Projec 2013	ted Y	rear ol	Spi	end	2			otal
ĸIJ	Brown LandM		1 <u>11</u> 8	<u>2012</u> 5 2	75	Projec 2013 24	ted Y	rear ol 1014 -	Spi	end 2015				<u>otal</u> 59
ĸIJ	Вголя Landfil Вголя Вадноизее	20	111	2012	75	Projec 2013 24 125 193	<u>ted \</u> 2 \$	rear ol 014 111 230	5 5	end 2015 38 169	2 \$	016 - 13	\$	59 343 712
ĸu	Brown LandM	20	8 5	<u>2012</u> \$ 2 6	75	Projec 2013 24 125	<u>ted \</u> 2 \$	<u>rear ol</u> 014 111	5 5	end 2015 38	2 \$	016 - 13	\$	<u>fotal</u> 59 343

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Attachment to Response to Question No. SC--NRDC 2-30 60 of 78 Arbough

	EQR Filling Schedule	
	All supplemental requests for information to KU/LG&E filed	08/08/11
	KU/LG&E responses to supplemental requests for information due	08/22/11
	Intervenor testimony filed	09/06/11
	KU/LG&E send requests for information to Intervenors	09/20/11
	Intervenors' responses to requests for information	10/03/11
	Rebuttal testimony, if any, to be filed	10/14/11
	Last day for KU/LG8E to publish notice of hearing	TBD
	Public hearing	TBD
3 PPL Corpstation 2011	23	4

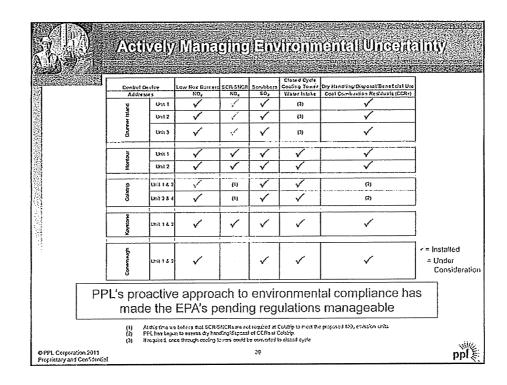
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Attachment to Response to Question No. SC—NRDC 2-30 61 of 78 Arbough

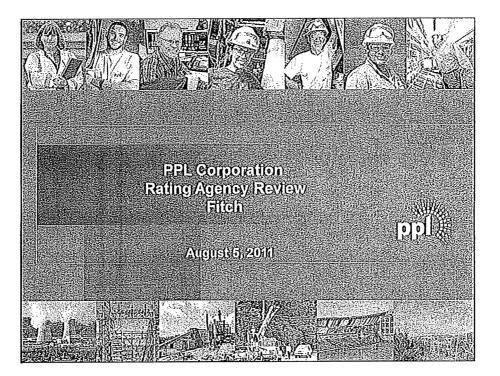
	Update on Trimble Gounty Unit 2	
	<ul> <li>760 MW coal-fired generating station with ownership as follows:</li> <li>60.75% KU</li> <li>14.25% LG&amp;E</li> <li>25% Third partles</li> <li>LKE took care, custody and control with limited exceptions in January 2011</li> <li>Contractor paid liquidated damages of approximately \$19 million to LKE in January 2011</li> <li>Remaining burner issues to be resolved</li> <li>Could include payment of additional liquidated damages</li> </ul>	
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Attachment to Response to Question No. SC---NRDC 2-30 62 of 78 Arbough

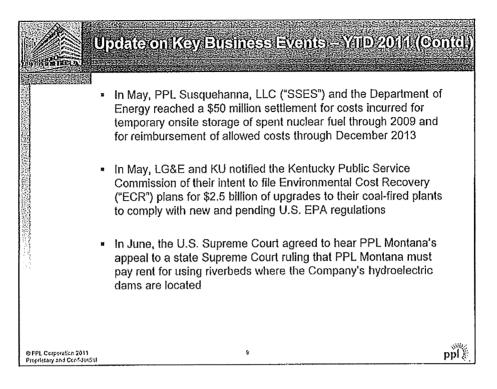


Attachment to Response to Question No. SC—NRDC 2-30 63 of 78 Arbough

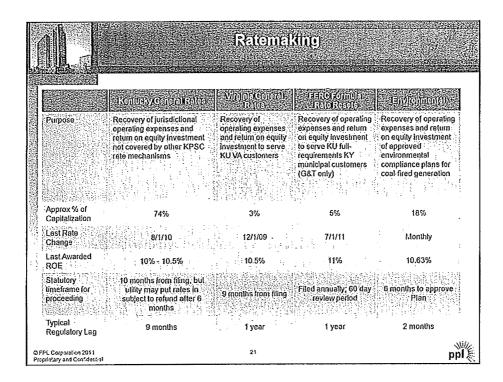


Attachment to Response to Question No. SC—NRDC 2-30 64 of 78 Arbough

	Update on Key Business Events — YTID 2011
	<ul> <li>In January, new distribution rates became effective for all PPL Electric Utilities' customers</li> </ul>
	<ul> <li>In January, Trimble County 2 coal-fired power plant went into service (KU and LG&amp;E own 75%)</li> </ul>
	<ul> <li>In January, PPL contributed \$432 million to its pension plans</li> </ul>
	<ul> <li>In March, PPL completed the sale of its interests in the University Park and Wallingford gas-fired generating stations and its 49% interest in the Safe Harbor hydro facility</li> </ul>
	<ul> <li>On April 1, PPL completed its acquisition of the Central Networks electric distribution business in central England from E.ON AG for approximately \$6.5 billion</li> </ul>
ତ PPL Corporation 2011 Proprietary and Confidential	r ppl



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Attachment to Response to Question No. SC---NRDC 2-30 67 of 78 Arbough

Total
Total
Total
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623
124 \$ 1,392
<u>kaona kaona m</u>
Total
\$ 59
343
712 \$ 1,114
crease of
1-2016 period.

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Attachment to Response to Question No. SC—NRDC 2-30 68 of 78 Arbough

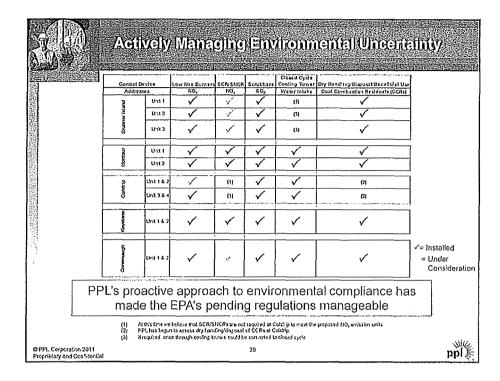
EGR Filling Schedule	
•	
All supplemental requests for information to KU/LG&E filed	08/08/11
KU/LG&E responses to supplemental requests for information due	08/22/11
Intervenor testimony filed	09/06/11
KU/LG&E send requests for information to Intervenors	09/20/11
Intervenors' responses to requests for information	10/03/11
Rebuttal testimony, if any, to be filed	10/14/11
Last day for KU/LG&E to publish notice of hearing	TBD
Public hearing	TBD

Attachment to Response to Question No. SC---NRDC 2-30 69 of 78 Arbough

	Update on Trimble County Unit 2
•	<ul> <li>760 MW coal-fired generating station with ownership as follows:</li> <li>60.75% KU</li> <li>14.25% LG&amp;E</li> <li>25% Third partles</li> </ul>
•	LKE took care, custody and control with limited exceptions in January 2011
•	Contractor paid liquidated damages of approximately \$19 million to LKE in January 2011
	Remaining burner issues to be resolved <ul> <li>Could include payment of additional liquidated damages</li> </ul>
© PPL Corporation 2011 Proprietary and Coolidential	24 ppl 5

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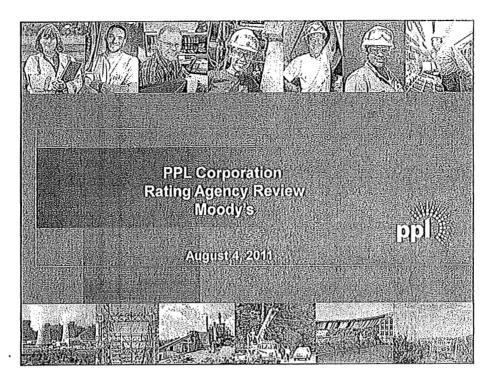
Attachment to Response to Question No. SC---NRDC 2-30 70 of 78 Arbough



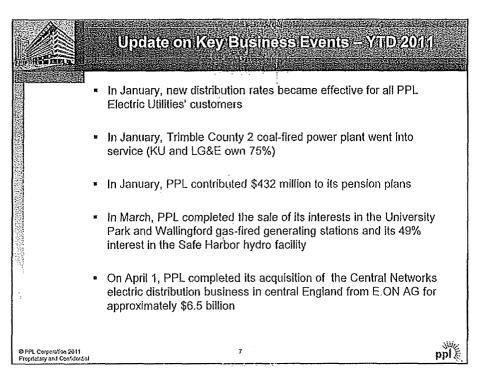
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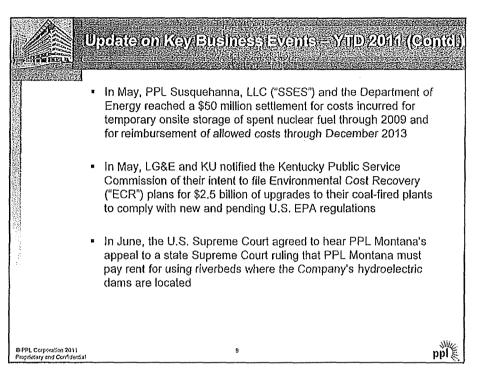
Attachment to Response to Question No. SC—NRDC 2-30 71 of 78 Arbough



Attachment to Response to Question No. SC—NRDC 2-30 72 of 78 Arbough



Attachment to Response to Question No. SC—NRDC 2-30 73 of 78 Arbough



Attachment to Response to Question No. SC---NRDC 2-30 74 of 78 Arbough

		Ratema	ang)	
	. Kentuk Ketatar Halles	Wight Colorab	HERCEROTORUM	<ul> <li>Iamitorino all'</li> </ul>
Purpose	Recovery of jurisdictional operating expenses and return on equity Investment not covered by other KPSC rate mechanisms	Recovery of operating expenses and return on equity Investment to serve KU VA customers	Recovery of operating expenses and return on equity Investment to serva KU full- requirements KY municipal customers (G&T only)	Recovery of operating expenses and return on equity investment of approved environmental compliance plans for coal-fired generation
Approx % of Capitalization	74%	3%	5%	18%
Last Rale Change	8/1/10	12/1/09	7/1/11	Monlinly
Last Awarded ROE	10% - 10.5%	10.5%	11%	10.63%
Statutory timeframe for proceeding	10 months from filing, but Utility may put reles in subject to refund after 6 months	9 months from filing	Filed annually; 60 day review pariod	6 months to approve Plan
Typical Regulatory Lag	9 months	1 year	1 year	2 months

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Attachment to Response to Question No. SC—NRDC 2-30 75 of 78 Arbough

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Millions of Dollars				
		Projected Year o		
LG&E	2011 20	012 2013 2014	2015 2016 Tol	31
Mil Creek FGD's	\$4\$	128 \$ 225 \$ 183		845
Mil Creek Baghouses	6	85 188 187		823 124
Trimble County Baghouse Tatal LG&E	\$ 10 S	- 23 38 213 \$ 436 \$ 403		
KU Brown Landfil Brown Baghouses Ghent Boghouses Total KU	\$ 8 \$ 5 5 <u>5</u> <u>5</u> 8 18 \$	27 \$ 24 \$ 65 125 111 97 198 230 190 \$ 347 \$ 341	169 13	59 343 712 114
The impact of the above exp \$1.13 per month, or 1.5% in :	end?ures on KU 2012, and an est	is electric customer using 1,0 limated averaga annual Incre	XXXVn per month is an increa tase of 2 3% over the 2011-201	sa of 16 períod.

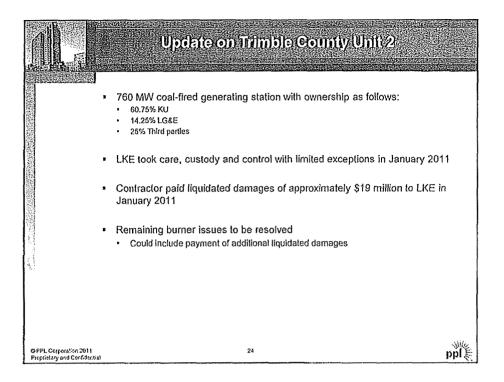
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Attachment to Response to Question No. SC—NRDC 2-30 76 of 78 Arbough

	EGR\Filling;Schedule)	
211 - 1024 2017 - 102 1		
	All supplemental requests for information to KU/LG&E filed	08/08/11
	KU/LG&E responses to supplemental requests for information due	08/22/11
	Intervenor testimony filed	09/06/11
1990-1991 - 1990-1990 - 1990-1990 - 1990-1990 - 1990-1990 - 1990-1990 - 1990-1990 - 1990-1990 - 1990-1990 - 19	KU/LG&E send requests for information to intervenors	09/20/11
2.00000	Intervenors' responses to requests for information	10/03/11
	Rebuttal testimony, if any, to be filed	10/14/11
	Last day for KU/LG&E to publish notice of hearing	TBD
	Public hearing	TBD
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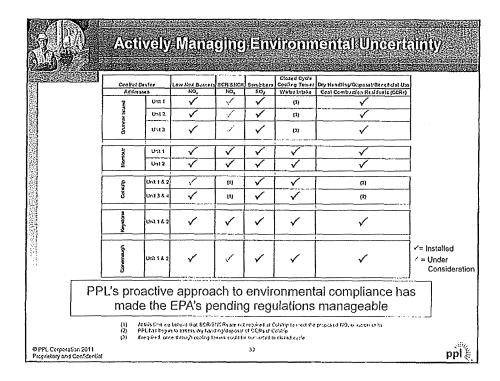
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Attachment to Response to Question No. SC—NRDC 2-30 77 of 78 Arbough



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Attachment to Response to Question No. SC—NRDC 2-30 78 of 78 Arbough

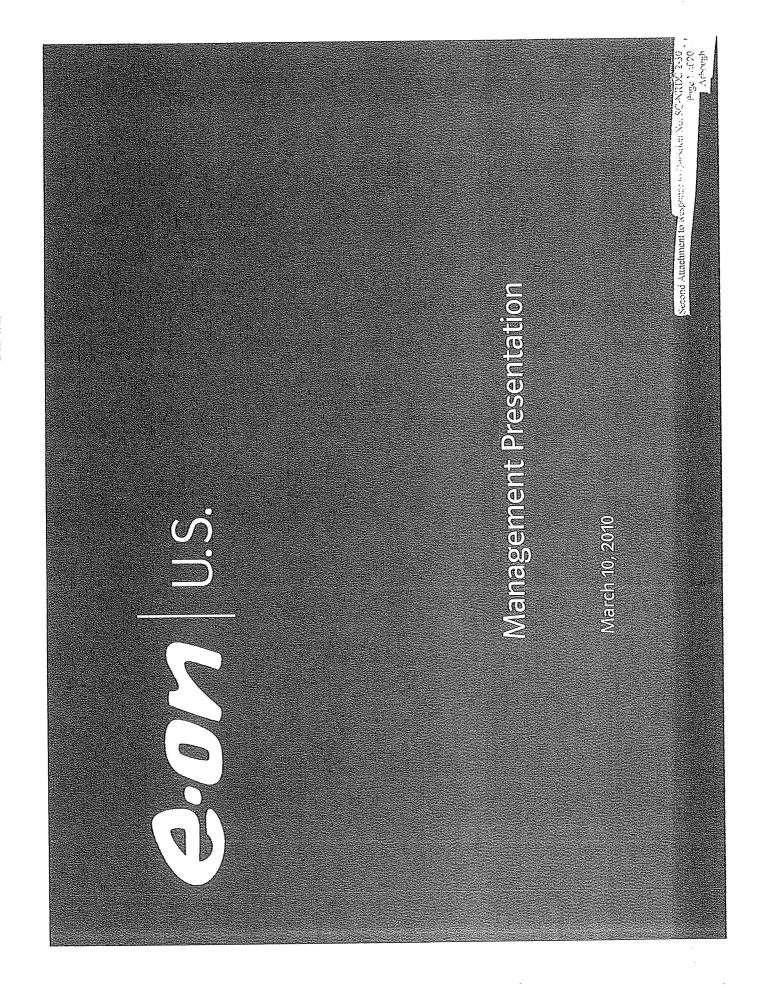


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#### Attachment to Question No. 30 2 of 8 Arbough

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#### 2007 US.

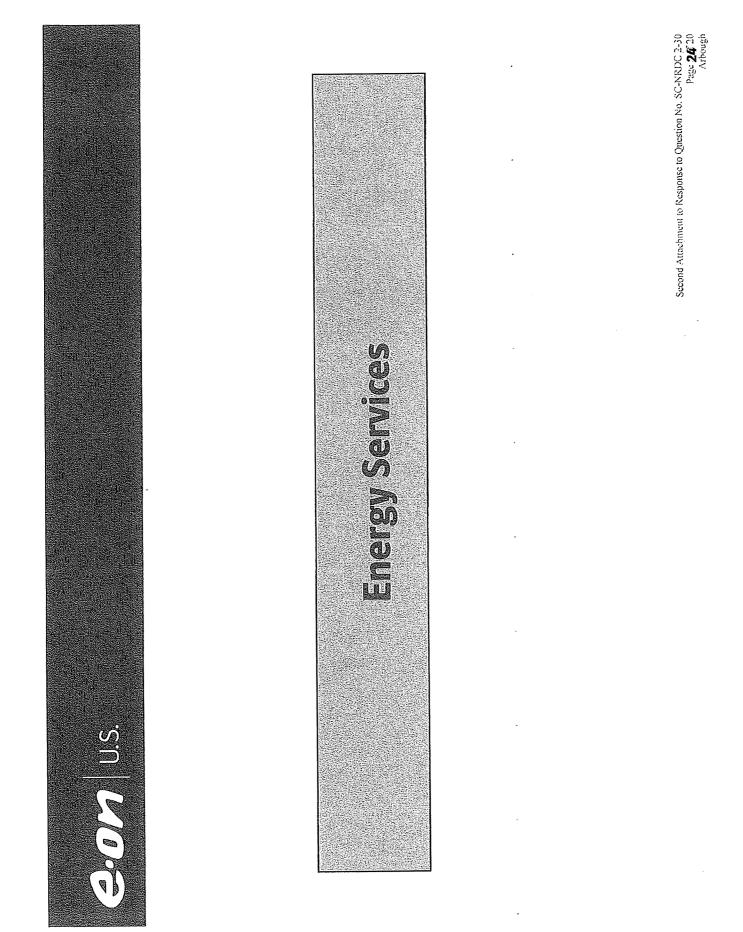
# E.ON U.S. is Top Quartile in 5 out of 5 Utility Cost Categories

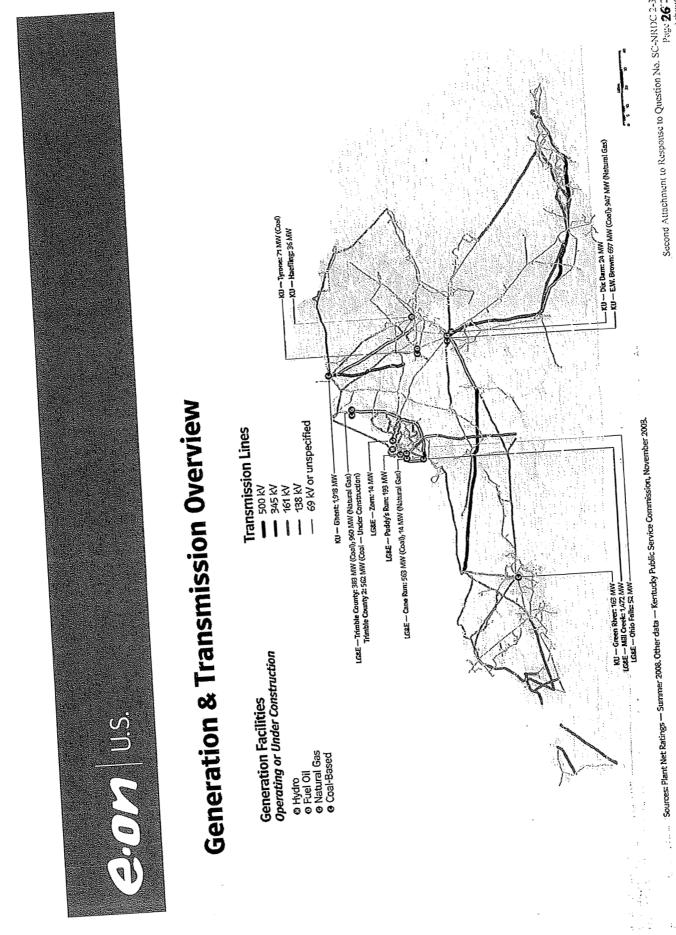
Compared FERC Form 1 data 2004 - 2008. Database includes U.S. Electric Utilities (over 150 utilities within over 70 holding companies).

		E.ON U.S Rank Out of
Utility Area	Metric/E.ON U.S. Performance	Holding Companies
Generation	Non-fuel O&M/ \$4.78 MWh of Production	th —Top Decile
Transmission	Cash Cost/ \$10,702 Transmission Mile	2 6th — Top Decile
Distribution	Cash Cost/ Sustomer	16th — Top Quartile
Retail	O&M Cost/ \$41.51 Customer	I 11th — Second Decile
Corporate A&G	A&G Cost/ \$3.23 <sup>2</sup> MWh of Sales	<sup>2</sup> 7th — Top Decile

<sup>2</sup> E.ON U.S. cost adjusted upward to include \$80m of VDT amortization costs over the five year period <sup>1</sup> E.ON U.S. cost adjusted upward to include CWIP changes over the five year period

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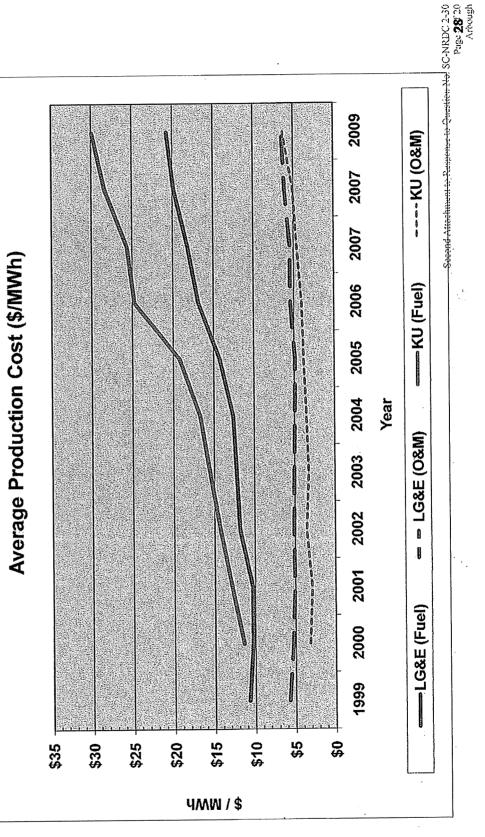
Net Capacity (MW)					m Coal m Gas Mudro			2009 Prod	1% <b>E</b> 1%		%86 ■		■ Coal ⊡Gas ■ Hydro		 KU reak = 4,040 MW ON 1/10/07 50 50 MW in 2010 with the completion of Trinble County 200 NRDC 2-30 Page 27/20	NguodiA.
(Net MW)	<b>7.849</b>	1,499`	24	4,372		2,418	665	52	3,135		5,267	2,164	76	7,5071	 oximately 8,100 MW ii	
Generating Capacity 2009 (Net MW)	KU Systems and a second s	20		KU Sub-total	LGE System	Coal	Peaking	Hydro		E.ON U.S. System	Coal	Peaking	Hydro	E.ON U.S. Total	KU reak - 4,040 MW ON 1, 10,027 -505 - 505 1 Generating capacity will increase to appl	
Gen	Lunation													4.5-		

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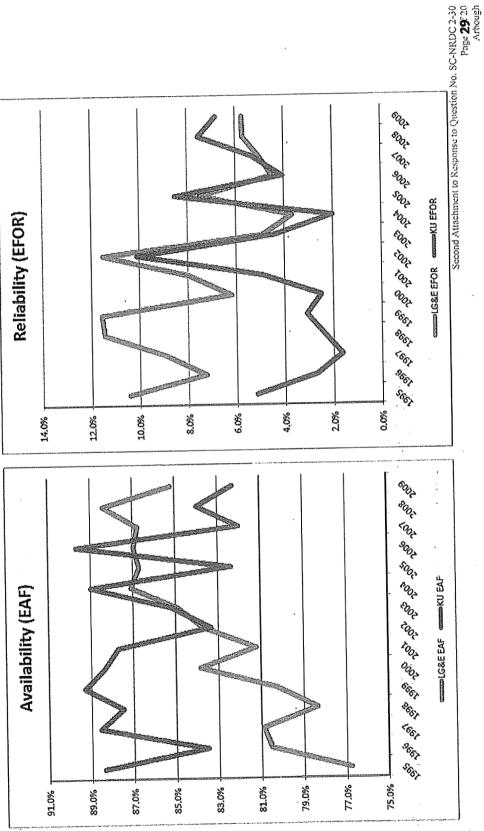
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# **Generation Fleet Trends - Production Costs**





# Fleet Trends - Availability and Reliability



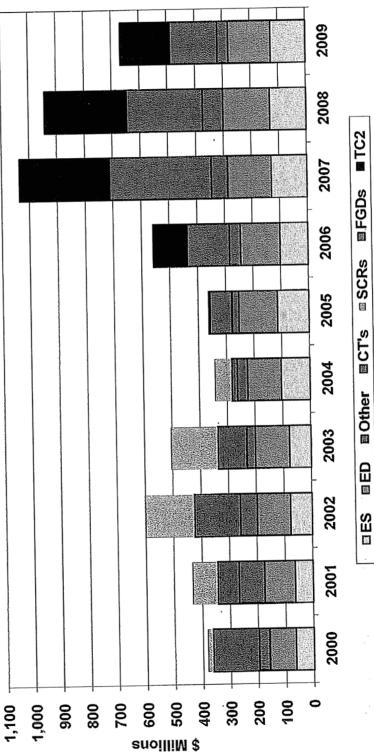
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2007 U.S.

### E.ON U.S. Capital Investment

\$3.6 billion invested past 5 years

Over 50% greater than previous 5 years but in line with projections for next 5 years



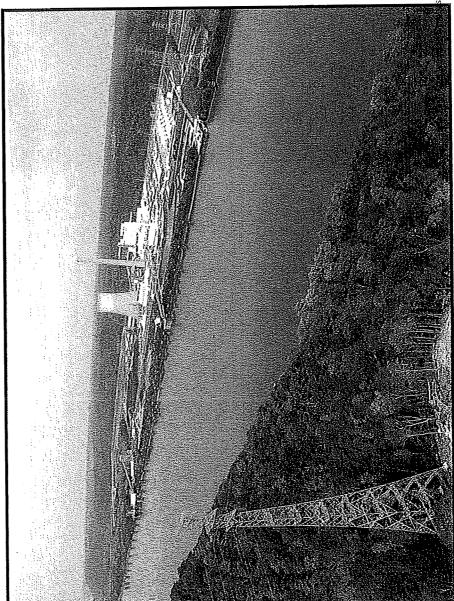






## **Trimble County Unit 2 In Process**

809 MW gross, 760MW net Super-Critical Coal Unit with Doosan Babcock boiler, Hitachi Turbine/Generator and Siemens Air Quality Control Systems



se, to Question No. SC-NRDC 2-30 Page **34**120 Arbough

#### JON U.S.

#### **Trimble County 2**

(US\$ in Millions)

	Through <u>2009</u>	2010	Total
Air Quality Control Systems	\$231	7	\$233
Balance of Plant	616	18	634
Transmission Projects	89	5	<u>94</u>
Total	\$936	\$25	\$961

760MW unit – 75% ownership (KU-81%, LG&E-19%), IMEA/IMPA share is 25%

Commercial operation - Mid-Year 2010

Cost to construct of \$1,521/KW significantly below current levels

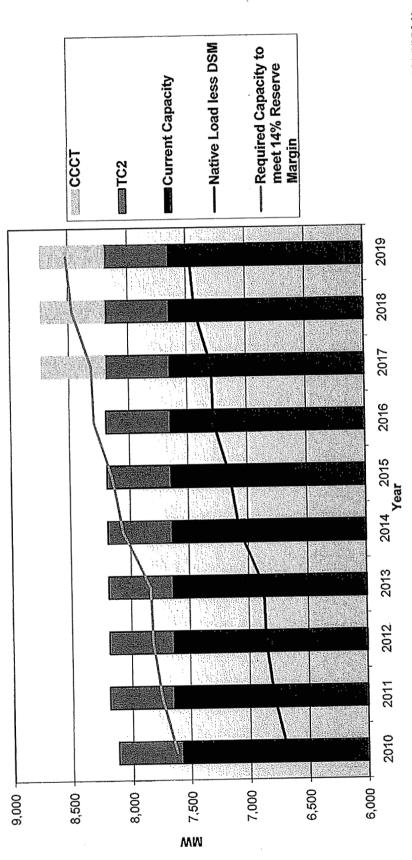
One of most technologically advanced coal fired facilities in the region

Qualified for \$125 million advanced coal credit investment tax credit

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# **Capacity Additions to Meet Projected Load Growth**



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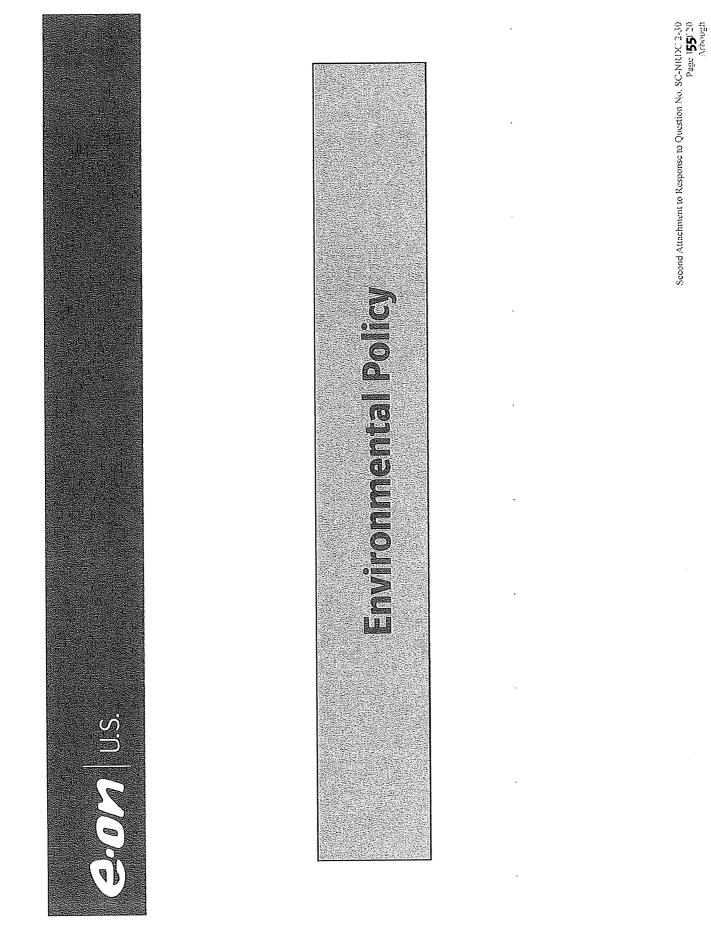
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### **Coal Procurement Strategy**

- Contract term typically ranges from 1 to 3 years
- Longest existing contract runs through 2016
- Most multi-year contracts have some degree of price indexation/re-openers ı
  - Spot market purchases typically used to address short-term supply issues ۱
- Target physical position (% of annual projected burn under contract)
- 98 to 100 90 to 100 **Current Year:** 
  - Year 1:
    - Year 2:

- Year 3:
- Year 4+:
- Maintain diversity of suppliers and regional supply sources . 0
- Fuel inventory target range balances fuel availability with cost of inventory ø
- Strategy, positions and fuel inventory target ranges reviewed and approved by Risk Management Oversight Committee in accordance with Statement of Trading e

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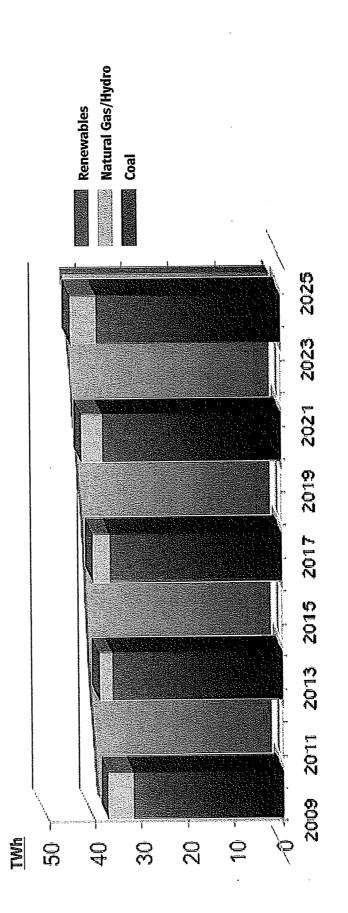






### Demand Met with Coal

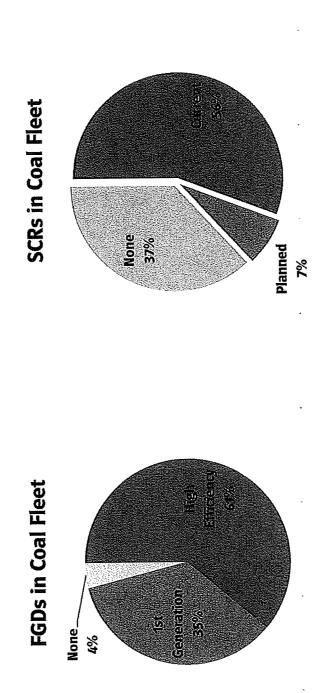
95% of electric consumption from coal-fired power plants



SOURCE: 2008 Integrated Resource Plan

Second Attachment to Response to Question No. SC-NRDC 2-30 Page 156 20 Arbough THE PARTY INCOME.

## **SOx and NOx Air Quality Achievements**



Corrent Planning Assumed for Fleet:
 Co-benefits (mercury) under fleet-wide cap & trade legislation
 Comparable replacement for CAIR, CAMR

Second Attachment to Response to Question No. SC-NRDC 2-30 Page 1577 20 Arbough

Percents are based on capacity including TC2.

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# **Environmental Legislation & Regulation Issues**

- CO2 Legislation: Significant Parameters
- Start Date; Target Levels; Economy Wide; Allowance Allocations; Safety Valve; R&D Funding
- Legislation vs. Regulation
- <u>Renewable Legislation:</u> Significant Parameters
- Regional approach; Alternative Compliance Payment level and use
- EPA Regulation: Significant Areas
- CAIR & CAMR replacements
- Hg and HAPs
- Coal Ash

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Ū	Governor Beshear's Energy Plan
Ň	Seven Strategies to Achieve Energy Independence
0	Improve energy efficiency to offset 18% of 2025 energy demand
Ø	Increase use of renewable energy – 1,000 MW by 2025
0	Sustainably grow biofuel production – 12% of motor fuel
0	Develop coal-to-liquids industry – 4 billion gallons of fuel annually by 2025
0	Increase natural gas supply including coal-to-gas – 100% of 2025 requirements
ø	<ul> <li>Initiate carbon capture/sequestration projects – 50% of facilities will have CCS technology by 2025</li> </ul>
<b>@</b>	Examine use of nuclear power – make decision by 2025
	E.ON US is actively involved in dialogue with government in areas impacting the business (e.g., energy efficiency, renewable energy, carbon capture and nuclear power) serving on his Kentucky Climate Action Plan Council.
	E.ON US is actively involved in multiple research programs – FutureGen, EPRI and several local carbon and biomass research projects.
	Second Attachment to Response to Question No. SC-NRDC 2-30 Page 159C 20 Arbough

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### **Generation Facilities**

The strength of the		T	r		T	1	T	T	T	T	T	T	1	T	T	ĥ
Summer Rating Net (MW)	14	563	24	697	947	1,918	163	36	1,472	52	193	960	383	570	Ч	14
Fuel	Gas	Coal	Hydro	Coal	Gas	Coal	Coal	Gas	Coal	Hydro	Gas	Gas	Coal	Coal	Coal	Gas
LG&E	100%	100%	4	t	Joint	1	3	ŧ	100%	400%	Joint	Joint	75%	Joint	1	100%
Ň	3	1	100%	100%	Joint	100%	100%	100%	ŧ	Ŧ	Joint	Joint	I	Joint	100%	E
Generating Facility	Cane Run Combustion Turbine	Cane Run Station	Dix Dam Hydroelectric	E.W. Brown	E. W. Brown Combustion Turbines	Ghent Station	Green River	Haefling Combustion Turbines	Mill Creek Station	Ohio Falls Hydroelectric Station	Paddys Run Combustion Turbines	Trimble County Combustion Turbines	Trimble County Unit 1 <sup>*</sup> (75%)	Trimble County Unit 2 ** (75% with COD 2010)	Tyrone Station	Zorn Avenue Combustion Turbine

•TC1 ownership 75% LG&E and 25% IMPA & IMEA • TC2 ownership is 75% E.ON Utilities and 25% IMEA & IMPA

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### **Coal-Fired Generation Units**

	Commissioned	Jurbine	Boiler	FGD	<b>NOX Control</b>
	1967	General Electric	벙	Yes	SLNB
Cane Kun 4	1066	General Electric	Riley	Yes	CCVSAZ
cane Kun 5	1000	Mactinothouse	U U U U	Yes	LNCFS 2
Cane Run 6	1707	Weatherthouse	B&W	2010	LNB
E.W. Brown 1	1957	AVESUITBUTOUSE			I NCES 2
E.W. Brown 2	1963	Westingthouse	Ë	2010	LINUESS
E M/ Brown 3	1971	Westingthouse	CE	2010	LNCFS 3
	107/	Westingthouse	빙	Yes	LNCFS 2 + SCR
Ghent 1	+//1	Coneral Flantric	GE	Yes	LNCFS 2
Ghent 2	1/61			Vac	I NB+0FA + SCR
Ghent 3	1981	General Electric	۲W	6	
Chent /i	1984	General Electric	FW	Yes	LNB+UFA +>CK
	4053	Westinothouse	B&W	No	TNB
Green River 3	CC71		DotA	Mo	LNB
Green River 4	1959	Westingthouse	B&W	001	
1000 July 1	1977	General Electric	붠	Yes	LNCF5 2
WIII CLEEK I		Conoral Flortric	E E	Yes	LNCFS 2
Mill Creek 2	17/4		Mod	Vac	DRB-4Z + SCR
Mill Creek 3	1978	General Electric	D&W	621	000 K7 400
Mill Creek 4	1982	General Electric	B&W	Yes	DKB-47 +3CK
	1001	General Electric	CE	Yes	ALNB + SCR
Irimble Co. 1	0661	11:4-0-1	D Bahrork	Yes	MB + SCR
Trimble Co. 2	2010	HIGGI	D. Dabcock		INR
Tvrone 3	1953	Westingthouse	B&W	NO	
				Second Att	Second Attachment to Response to Question No. SC-NR

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#### Attachment to Question No. 30 3 of 8 Arbough

Third Attachment to Response to Question No. SC-NRDC 2-30 Page 1 of 9 Arbough

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February 2010



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## I. Executive Summary

#### A. INTRODUCTION / SUMMARY OF E.ON'S TRANSACTION OBJECTIVES

E.ON AG ("E.ON" or "Parent") has retained Goldman, Sachs & Co. and The Blackstone Group (together, the "Advisors") as financial advisors in connection with the proposed sale (the "Transaction") of E.ON U.S., a regulated electric and gas utility business principally located in Kentucky, referred to herein as "E.ON U.S." or the "Company." E.ON's objectives are to realize maximum cash value for the Company's operations and to consummate the sale of the Company in a timely, efficient manner.

## B. OVERVIEW OF E.ON U.S.

E.ON U.S. is a regulated utility holding company engaged in the generation, transmission and distribution of electricity and the distribution of natural gas, in each case primarily in Kentucky. The Company's two utility subsidiaries are: (i) LG&E, which serves approximately 396,000 electric and 321,000 natural gas customers in and around Louisville, Kentucky; and (ii) KU, which serves approximately 515,000 electric customers in central, southeastern and western Kentucky and approximately 30,000 electric customers in Virginia under the operating name, Old Dominion Power (LG&E and KU are referred to herein as the "Utilities"). Approximately 98% of total system generation is provided by the Utilities' existing low-cost coal fleet.

The Company does not own any assets or operations outside of the United States or any material assets or interests in any non-regulated operations other than its interest in EEI.

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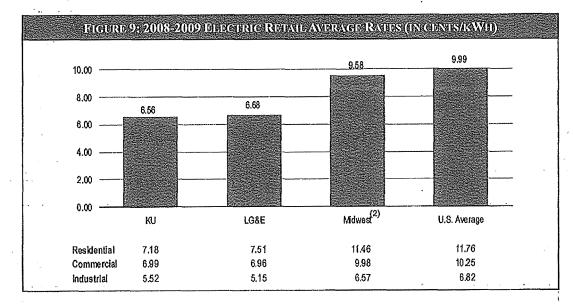
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# **II.** Investment Highlights

Rie	URE 8: COMPARATIVE OPERA	HINC PIBRICO	RMANCE 2004-2008
Utility Area	Metric / E.ON U.S. 2008 Perform	nance	E.ON U.S. Rank Out of IOU Holding. Companies
Generation	Non-fuel O&M Cost / MWh of Production	\$4.78	4 <sup>th</sup> – Top Decile
Transmission	Cash Cost / Transmission Mile	\$10,702	6 <sup>th</sup> - Top Decile
Distribution <sup>(i)</sup>	Cash Cost / Customer	\$189	16 <sup>th</sup> – Top Quartile
Retail	O&M Cost /	\$41.51	11 <sup>th</sup> – Second Decile
Corporate A&G(i)	A&G Cost / MWh of Sales	\$3.23	7 <sup>th</sup> – Top Decile

As shown in Figures 7 and 8, the Company's performance in each operating benchmark category results in costs among the lowest in the U.S. The Company also has a safety record among the nation's best IOUs. In 2008, the Company's RIIR was 1.73 versus the EEI top quartile average of 2.49 and the national utility average of 4.00. In 2009, the Company's RIIR improved to 1.09, a Company record best.

The Company's culture of safety and cost management generates extensive customer benefits. These are evident in rate comparisons against other U.S. and Midwest utilities. The following figure compares the total average rates of U.S. electric IOUs.



Source: Edison Electric Institute, Typical Bills and Average Rates Report, Summer 2009 (covers 7/1/2008 through 6/30/2009).
 (1) If unadjusted for the inclusion of capital additions (CWIP) over the five year period, E.ON U.S.'s Cash Cost/Customer ranking is 1<sup>st</sup> at \$135. If adjusted for \$116 million of VDT amortization costs over the four year period, E.ON U.S.'s A&G Cost/MWh

(2) "Midwest" definition is the Reliability First Corporation area, which includes DE, IL, IN, KY, MD, MI, NJ, OH, PA, WI, and WV. The RFC is a NERC regional reliability council and replaced the old ECAR, MAIN, and MAAC regions.

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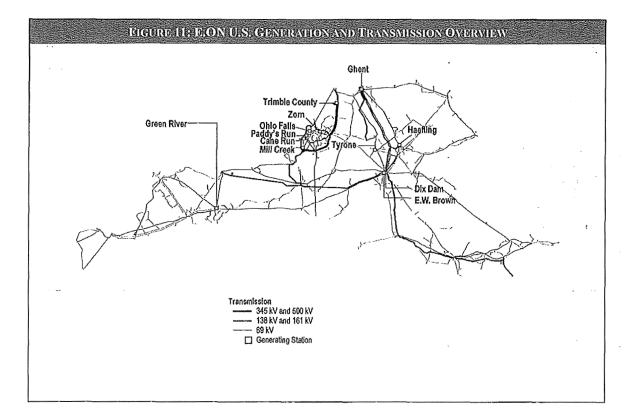
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of Sales ranking improves to 5th at 2.86.

# **II.** Investment Highlights

# C. LOW COST, HIGH-PERFORMANCE AND STRATEGICALLY LOCATED UTILITY GENERATION CAPACITY.

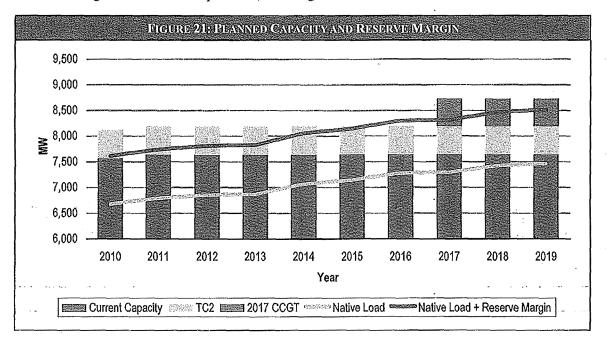
The Company has a strategically valuable fleet of approximately 8,100 MWs of ratebased generation capacity, including its 570 MW net ownership of TC2. Approximately 70% of current utility generating capacity represents base-load coal-fired units that provided approximately 98% of total system generation in 2009. These units are sited in close proximity to load within the heart of the Utilities' service territories. Taken together with low non-fuel O&M per MWh of production that ranks in the top decile of all IOUs in the United States, the Company has among the lowest electric utility rates of any IOU.



Goldman Sachs

# **III.** Overview of E.ON U.S.

LG&E and KU currently maintain a 12%–14% reserve margin range. The Utilities expect average annual growth for retail electricity native-load sales for 2009–2019 to be 2.0% after the impact of energy efficiency programs. The overall growth is expected to be driven by growth in residential and industrial classes consistent with history and external forecasts. Figure 21 below shows forecasted reserve margins based on annual peak load, including TC2 and a new build CCGT unit on-line in 2017.



### **Description and Operating Performance of the Electric System**

### **Generation Assets**

At December 31, 2009, LG&E and KU owned steam and combustion turbine generating facilities with a net summer capability of 7,431 MW and 76 MW of hydroelectric facilities. LG&E and KU also obtain power from other utilities under bulk power purchase and interchange contracts, as described below.

The Utilities combined electric peak load of 7,132 MW was set on August 9, 2007. LG&E's electric peak load of 2,834 MW was set on August 16, 2007, while KU, a dual-peaking utility, recorded its highest electric peak load of 4,476 MW on January 25, 2008.

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# **III.** Overview of E.ON U.S.

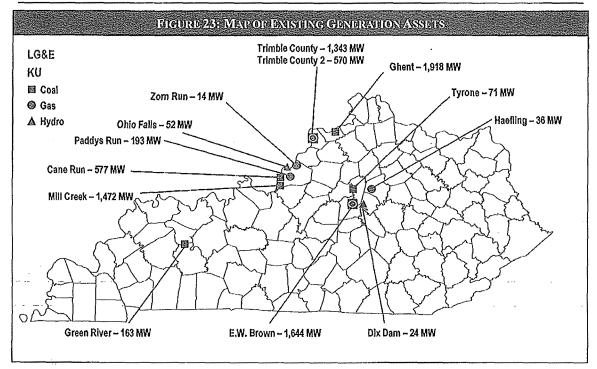
0(60)(622;	E.ONU.S.	POWER UTILITY GI	DNDRAANON	Assidi	(OMBRA	MIDANY	
			2009 Heat				2009
			Rate	Plant		0000	Generation
Plant	Subsidiany	Location	(Blu/KWh) <sup>(0</sup>	Type	Fuel	Nalmws	GWh
Steam Turbines	1/11	On well On which IAC	40 777	ST	Coal	1,918	11,346
Ghent – Units 1-4	KU	Carroll County, KY	10,777	ST		•	•
Mill Creek – Units 1-4	LG&E	Jefferson County, KY	10,602	ST	Coal Coal	1,472 697	10,303 2,505
E.W. Brown – Units 1-3	KU	Mercer County, KY	10,583	ST	Coal	563	
Cane Run – Units 4-6	LG&E	Jefferson County, KY	10,771	ST		383	3,235 3,064
Trimble County - Unit 1	LG&E	Trimble County, KY	10,565	ST	. Coal Coal	163	3,004
Green River Units 3-4	KU	Muhlenberg County, KY	11,520	ST		103 71	625 24
Tyrone – Unit 3	KU	Woodford County, KY	13,518	51	Coal	5,267	31,102
Total Coal-fired Generation						5,207	31,102
Combustion Turbines							
	KU/LG&E	Trimble County, KY		СТ	Gas	960	195
Trimble County – Units 5-10 E.W. Brown – Units 5-11	KU/LG&E	Mercer County, KY		CT	Gas	947	-82
Secondary CTs	KU/LG&E	Fayette / Jefferson County	WV.	CT	Gas	257	1
	NU/LGGE	rayette / Jelielson County	1/1	C1	600		278
Total Gas-fired Generation						2,164	410
Hydroelectric Stations							-
Ohio Falis	LG&E	Jefferson County, KY	NA	NA	Hydro	. 52	
Dix Dam	KU	Mercer County, KY	NA	NA	Hydro	24	69
Total Hydroelectric Generation						76	299
In Construction					•		
Trimble County - Unit 2	KU/LG&E	Trimble County, KY		ST	Coal	570	
Grand Total						8,077	31,678

<sup>(1)</sup> Source: Company management.

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The Blackstone Group\*



# III. Overview of E.ON U.S.

#### **Electric Operations**

KU and LG&E own a portion of and purchase power from Ohio Valley Electric Corporation ("OVEC"). The Utilities' contracts for purchased power with OVEC each terminate in 2026. The Utilities' share of OVEC's output is approximately 179 MW (KU: 55 MW; LG&E: 124 MW) of generation capacity. KU also purchases power from Owensboro Municipal Utilities ("OMU") under an agreement scheduled to terminate in May 2010.

KU and LG&E were formerly members of the Midwest ISO ("MISO"), a non-profit independent transmission system operator that serves the electrical transmission needs of much of the Midwest. The Utilities withdrew from the MISO effective September 1, 2006. The Utilities paid an exit fee of approximately \$33 million in October 2006, with FERC approving a recalculation of this exit fee in March 2008 resulting in certain credits back to the Utilities. The Utilities have, since 2006, contracted with the Tennessee Valley Authority ("TVA") to act as their transmission reliability coordinator and Southwest Power Pool, Inc. ("SPP") as their independent transmission operator ("ITO"), pursuant to FERC requirements. In July of 2009, SPP informed the Utilities of its intention to terminate the ITO Agreement between SPP and the Utilities effective September 1, 2010. On October 26, 2009, SPP provided E.ON U.S. filed a joint notice of termination of the agreement with the FERC. Given SPP's notice to terminate the ITO Agreement, on October 30, 2009, the Utilities applied to the FERC and the KPSC for approval to reassign the ITO functions formerly performed by SPP to the Utilities. The Utilities requested an expedited approval for February 2010. The KPSC issued an Order on February 2, 2010, approving the Utilities' request. TVA will continue to serve as the transmission reliability coordinator.

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# III. Overview of E.ON U.S.

Headcount increases generally relate to large capital projects including TC2, environmental and regulatory compliance needs, customer service initiatives including a new customer information system, and the replacement of certain contract labor.

At December 31, 2009, of the 3,127 employees of E.ON U.S., 818 (LG&E: 669; KU: 149) employees are covered by collective bargaining agreements with the International Brotherhood of Electrical Workers ("IBEW") Local 2100 and the United Steelworkers of America ("USWA") Local 9447-01. LG&E employees represented by the IBEW Local 2100 signed a three-year collective bargaining agreement effective November 11, 2008. KU employees represented by the IBEW Local 2100 signed a three-year collective bargaining agreement effective August 1, 2009. KU employees represented by the USWA Local 9447-01 entered into a three-year collective bargaining agreement effective August 1, 2009. KU employees represented by the very good.

#### **Environmental**

Protection of the environment is a major priority for E.ON U.S. Federal, state and local regulatory agencies have issued the Company and its subsidiaries permits for various activities subject to air quality, water quality and waste management laws and regulations. The Company has also proactively pursued initiatives to address its greenhouse gas profile including upgrades to existing hydroelectric capacity and clean coal investments, among other things.

Kentucky law permits the Company current recovery of, and a return on, its costs of complying with the Federal Clean Air Act and other state, federal and local environmental requirements which apply to coal combustion wastes and by-products from facilities utilized for the production of energy from coal. The ECR mechanism permits the Company to earn a timely recovery of, and reasonable return on, these capital investments without applying for an increase in base rates. Related operation and maintenance expenses are also recoverable under the ECR.

The KPSC must approve projects in advance in order for the Company to use the ECR mechanism. Of the total capital investment for the period from 2010 through 2019, approximately three-fourths is covered by prior KPSC approvals. Additional environmental regulations (including regulations related to the areas of CAIR, the Clean Water Act, CAMR, CO2, PM2.5, SO3, and CCP) could develop and require further future capital expenditures. The Company anticipates that these future capital expenditures will also be fully recoverable via the ECR mechanism.

In April 2006, the EPA issued a Notice of Violation ("NOV") alleging KU had violated certain provisions of the Clean Air Act's new source review rules relating to work performed in 1997, on a boiler and turbine at KU's E.W. Brown generating station. In the first quarter of 2009, a settlement was reached with the Department of Justice resolving this claim. The settlement called for KU to complete plans for the installation of its planned FGD at the Brown site by December 31, 2010 and its SCR on Brown Unit 3 by December 31, 2012. These projects are included in ECR plans approved by the KPSC. The settlement also provided for compliance with specified emission limits and operational restrictions, civil penalties of \$1 million, funding of \$3 million for environmental mitigation projects, a one-time surrender of 53,000 SO2 allowances, and an ongoing surrender of NOx allowances estimated at 650 allowances annually for eight years.

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# **III.** Overview of E.ON U.S.

In September 2007, the EPA issued an NOV alleging that KU had violated certain provisions of the Clean Air Act's operating rules relating to opacity during June and July 2007 at Units 1 and 3 of KU's Ghent generating station (the "2007 NOV"). In March 2009, the EPA issued an NOV alleging that KU violated certain provisions of the Clean Air Act's rules governing new source review and prevention of significant deterioration by installing FGD and SCR controls at its Ghent generating station without assessing potential increased sulfuric acid mist emissions (the "2009 NOV"). The Company is disputing both the 2007 NOV and the 2009 NOV. On December 23, 2009, the EPA issued a Section 114 data request for Ghent Station regarding the sulfuric acid mist emissions investigation. The Company has provided the requested data to the EPA.

In addition to its current hydro generation upgrade at its Ohio Falls facility, the Utilities issued a request for proposal in 2007 and have completed their evaluation of these proposals and the potential for implementing renewable supply options while also assessing potential actions to meet future Renewable Portfolio Standard levels. There is currently no renewable portfolio standard in Kentucky. The Utilities continue to explore the least cost renewable options available which include the development of landfill gas generation, the use of biomass at existing coal plants, and the purchase of wind generation.

With respect to carbon capture and sequestration ("CCS"), the Company has been actively pursuing research and development opportunities. The Company is a member of the FutureGen Alliance with its Senior Vice President - Energy Services having served as Chairman of the Alliance. The Company is also an active participant in Electric Power Research Institute research programs and has provided funding, manpower and other assistance to various carbon research and management activities in Kentucky.

In addition, from time to time, KU and LG&E appear before the EPA, various state or local regulatory agencies and state and federal courts regarding matters involving compliance with applicable environmental laws and regulations.

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# Attachment to Question No. 30 4 of 8 Voyles

Prepared for: E.ON U.S., LLC Louisville, KY



# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for E. W. Brown Generating Facility, Harrodsburg, Kentucky

ENSR Corporation August 21, 2008 Document No.: 12267-006-0008

Prepared for: E.ON U.S., LLC Louisville, KY

# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for E. W. Brown Generating Facility, Harrodsburg, Kentucky

Une AN Wan

Prepared By Dianne C. Donovan Senior Project Specialist

Reviewed By Russell G. Turner Compliance Group Section Manager

ENSR Corporation August 21, 2008 Document No.: 12267-006-0008



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## 1.0 Introduction

## 1.1 Purpose

E.ON U.S., LLC (E.ON) requested ENSR Corporation (ENSR) to perform a Desktop Phase I environmental site assessment (ESA) to identify recognized environmental conditions (RECs) at the E.W. Brown Electric Generating facility located in Harrodsburg, Mercer County, Kentucky (hereinafter referred to as the "subject property"). ENSR received authorization to perform the Phase I ESA on August 15, 2008. ENSR representatives Ms. Dianne C. Donovan, Senior Project Specialist conducted the desktop ESA between August 18, 2008 and September 15, 2008.

## 1.2 Scope-of-work

This assessment has been performed in accordance with ENSR's Proposal number 12267-A12, dated August 14, 2008. Tasks performed by ENSR as a part of the Desktop Phase I ESA are described in the proposal.

This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. Upon receipt of your comments, the draft report will be finalized. However, this desktop ESA is limited in scope and is not an exhaustive research of the subject property and surrounding area.

## 1.3 Study limitations

This report describes the results of ENSR's limited due diligence assessment to identify the presence of environmental liabilities materially affecting the subject property utilizing publicly available, practically reviewable and reasonably ascertainable information. Under the authorized scope of work, no site visit was completed and the information presented herein is based solely on data obtained from public sources or data provided by the client.

In the conduct of this due diligence investigation, ENSR has attempted to independently assess the presence of such liabilities within the limits of the established scope of work as described in our proposal. As with any due diligence evaluation, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable or supported by any available written documentation. ENSR shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by ENSR in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of ENSR's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report, including all supporting field data and notes (collectively referred to hereinafter as "information"), was prepared or collected by ENSR for the benefit of its client, E.ON U.S. LLC (E.ON). The information may be released to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall create no rights, obligations, or liabilities on the part of ENSR with respect to any such party. The information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should ENSR be required to review the report after six (6) months from its date of submission, ENSR shall be entitled to



additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the client.

## 2.0 Site description

## 2.1 Location

The subject property is located on the western shore of Herrington Lake within Burgin, Mercer County, Kentucky along State Highway 342. The surrounding area consists of a mixed rural and residential area. Access to the subject property is provided from Dix Dam Road onto the subject property. The subject property consists of 900 acres.

Figure 1 provides a site location map for the subject property.

## 2.2 Current use of the subject property

The plant consists of three coal-fired generating units with 740 megawatts; seven combustion turbines with 1006 megawatts; and 3 hydro-electric generating units with 24 megawatts for a total generating capacity of 1,770 megawatts. The hydro-electric plant began operation in 1925, the coal-fired plant began operation in 1957 and the combustion turbines began operation in 1994.

Herrington Lake was formed during the construction of Dix Dam after the turn of the century. Herrington Lake is an impoundment of the Dix River that serves three hydro-electric generating units (8.3 MW each) located at the base of the dam. The hydro-electric plant and Herrington Lake are owned by Kentucky Utilities Company. Herrington Lake is a recreational water resource, warm water aquatic habitat and serves to provide water for the City of Danville.

All waters serving the plant are withdrawn from two intake structures located in Herrington Lake. Cooling water is recycled through the use of mechanical draft cooling towers. These were constructed to minimize the effects of cooling waters on Herrington Lake.

The plant generates several wastes which are "exempt" under 40 CFR Part 261.4. These non-hazardous special wastes include fly ash, bottom ash and boiler slag. These wastes are disposed of and treated in a large on-site surface impoundment (ash treatment basin) and then discharged into Lake Herrington according to a KPDES permit. The ash treatment basin covers 117.5 acres and was designed for a 25 year storage life.

The E. W. Brown facility has five oil/water separators and miscellaneous drains are directed to these devices for treatment. Three of the oil/water separators are located at the combustion turbine portion of the facility and all five of the oil/water separators discharge to the ash treatment basin prior to discharge to Herrington Lake.

Sanitary wastes are treated in a septic tank and lateral fields, except combustion turbine area sanitary wastes are collected in belowground tanks and privately contracted for removal to a treatment facility.

Internal boiler tube surfaces are cleaned as needed to remove scale build-up from water deposition. Nonhazardous chelating solvents are used and are disposed of by evaporation in an operating boiler. Toxic Characteristic Leachate Procedure (TCLP) tests are conducted to ensure that these wastes are nonhazardous; if test results indicate any particular batch of the boiler cleaning wastes to be hazardous, the wastes are appropriately shipped off-site for disposal in accordance with state and federal hazardous waste protocols.

Combustion turbine inlet turbine blades wash water (non-hazardous soaps and alcohols) are collected in aboveground tanks and deposited in the coal pile runoff retention basin.

Turbine oil rooms are built to confine any oil spill. Transformers are surrounded with course gravel so as to allow for the accumulation of the oil immediately adjacent to the transformer should a leak occur. All bulk oil

storage tanks are bermed to contain any leak or spill. To prevent spills and/or accidental releases, the facilities have been designed or modified to comply with existing state and federal regulations.

Transformer/Rectifier sets on the electrostatic precipitators as well as ground neutral and lighting transformers that contain regulated levels of PCBs have been removed from service, disposed of, and replaced with NON-PCB units.

Material	Maximum gallons	Location/Comments		
#2 Fuel Oil	1,100,000	Outside, steel Aboveground Storage Tank (AST),		
(Two Tanks) 1,100,000		South Combustion Turbine (CT) Area, Impermeable Synthetic Liner & Rock Berm		
Diesel Fuel	391	Outside, steel Double-Wall ASTs, CT Site-east,		
(ThreeTanks)	391	(3) Emergency Generators w/ External Housing &		
	391	Integral Metal Pan Liners		
Diesel Fuel	300	Outside, Steel AST, CT Site-SW, Fire Pump Emergency Power, Concrete Berm		
#2 Fuel Oil	525,000	Outside, Steel AST, West of Unit 3, Concrete-lined Earthen Berm		
#2 Fuel Oil	25,000	Outside, Steel AST, North of Unit 3, Concrete-lined Earthen Berm		
#2 Fuel Oil	15,000	Outside, Steel AST, Adjacent-East of Unit 1 Cooling Tower, Concrete Berm		
Diesel Fuel	1,650	Outside, Steel AST, Coal Yard, Concrete Berm		
Diesel Fuel	275	Outside, Steel AST, Unit 3 West-side, Metal Containment Pan		
Unleaded Gasoline	1,000	Outside, Steel AST, Adjacent Maintenance Building, Metal Pan Berm		
Kerosene	500	Outside, Steel Skid-Mounted AST Adjacent Maintenance Building		
Kerosene	55	Outside, Elevated Drum, by Unit 1 Cooling Tower (in Fuel Oil Tank Concrete Berm)		
Diesel Fuel	1,000	Outside, Steel AST, Adjacent Dispatch Parking Lot, Concrete Berm		
Turbine Oil	4,000	Inside, Steel AST, drains to oil/water separator, Unit 5 oil reservoir		
Turbine Oil	6,500	Inside, Steel AST, drains to oil/water separator, Unit 6 oil reservoir		
Turbine Oil	6,500	Inside, Steel AST, drains to oil/water separator, Unit 7 oil reservoir		
Turbine Oil	4,000	Inside, Steel AST, drains to oil/water separator, Unit 8 oil reservoir		
Turbine Oil	4,000	Inside, Steel AST, drains to oil/water separator, Unit 9 oil reservoir		
Turbine Oil	4,000	Inside, Steel AST, drains to oil/water separator, Unit 10 oil reservoir		
Turbine Oil	4,000	Inside, Steel AST, drains to oil/water separator, Unit 11 oil reservoir		
Turbine Oil	3,000	Inside, Steel AST, drains to plant sumps, Unit 1 oil reservoir		
Turbine Oil	3,000	Inside, Steel AST, drains to plant sumps, Unit 2 oil reservoir		
Turbine Oil	6,500	Inside, Steel AST, drains to plant sumps, Unit 3 oil reservoir		

According to the SPCC plan the following aboveground storage tanks are located on the subject property:

Material	Maximum gallons	Location/Comments	
Turbine Oil	2,000	Inside, Steel AST, drains to plant sumps, Unit 3 Boiler Feed pump oil reservoir	
Turbine Oil	3,600	Inside, Steel AST, curbed room, valved to plant sumps, Clean Oil Tank, ground floor Oil Storage Room, Units 1&2	
Turbine Oil	3,600	Inside, Steel AST, curbed room, valved to plant sumps, Dirty Oil Tank, ground floor Oil Storage Room, Units 1&2	
Turbine Oil	9,000	Inside, Steel AST, curbed room, valved to plant sumps, Clean Oil Tank, ground floor Oil Storage Room, Unit 3	
Turbine Oil	9,000	Inside, Steel AST, curbed room, valved to plant sumps, Clean Oil Tank, ground floor Oil Storage Room, Unit 3	
GST 68	275	Inside, Drums, Oil Storage Room, drains to oil/water separator	
AW Machine Oil	275	Inside, Drums, Oil Storage Room, drains to oil/water separator	
Gear Compound	895	Inside, Drums, Oil Storage Room, drains to oil/water separator	
Industrial Oil	275	Inside, Drums, Oil Storage Room, drains to oil/water separator	
AW Hydraulic Fluid	120	Inside, Drums, Oil Storage Room, drains to oil/water separator	
Engine Oil 30W	650	Outside, Steel AST, beside Tractor Garage, concrete berm, valved	
50W SAE Oil	650	Outside, Steel AST, beside Tractor Garage, concrete berm, valved drain	
Hydraulic Oil	650	Outside, Steel AST, beside Tractor Garage, concrete berm, valved drain	
Gear Compound 220	110	Outside, Elevated Drum w/ Containment Pan, beside Tractor Garage	
Turbine Oil	200	Inside, Steel AST, Hydroelectric Unit 1 oil reservoir	
Turbine Oil	200	Inside, Steel AST, Hydroelectric Unit 2 oil reservoir	
Turbine Oil	200	Inside, Steel AST, Hydroelectric Unit 3 oil reservoir	
Sodium Hydroxide (caustic soda)	10,000	Outside, Steel AST, Adjacent Unit 1, concrete bermed	
Sulfuric Acid	10,000	Outside, Steel AST, Adjacent Unit 1, concrete bermed	
Phosphonic Acid	1,000 1,000 2,000	Outside, Plastic ASTs, Heat Traced & Insulated on Concrete Pads, at Unit 1 & 2 Cooling Towers (2 x 1000 gal/ea) Inside, Steel AST, Unit 3 Basement	
Cyclohexylamine	560 560	Inside, Plastic AST/Portable Tote, adjacent Unit 1 boiler Inside, Steel AST/Portable Tote. adjacent Unit 3 Ash Hopper	
Hydrazine	180 180 180	Inside, Unit 1 Basement, 180-gallon tote Inside, Unit 2 Basement, 180-gallon tote Inside, Unit 3 Basement, 180-gallon tote	
Sodium Hypochlorite	2,000 150 1,000	Outside, Plastic AST, Adjacent to Unit 3 Cooling Tower Outside, Plastic AST, Adjacent Recreation Area Pool Inside, Plastic AST, GT Demineralizer Building	
Sulfur (molten)	30 tons	Outside, Steel AST, Traced & Insulated, Adjacent Unit 1	
Chlorine	6-150 lbs cylinders	Outside, Chained Cylinders, Adjacent Treated Water House, checked routinely	

Material	Maximum gallons	Location/Comments	
Vanadium Pentoxide	2000 lbs	Outside, Skid mounted Tank & Piping, Heat Traced & Insulated, 6th level, East of Unit 1 ESP Hoppers	
Ethylene Glycol	3000 220 17,500	Inside, Unit 3 Basement Bldg Heat System Outside, Drums, Belt De-Icing, Coal Yard & Tractor Garage Inside Reservoir, Outside Heat Exchanger, GT Lubrication Oil System Oil-to-Glycol Cooling Loop, Units 5-11 (2500 gal/ea)	
Molybdate (Corrshield)	6 x 55-gal drums	Inside, Plastic Drums, Unit 1, 2 & 3 Basement(s) Inside, Plastic Drums, Water Treatment Building 3 <sup>rd</sup> Floor	
Ammonium Hydroxide	55	Inside, Drum, Unit 3 Basement	
Anhydrous Ammonia	32,000 lbs	Outside Piping & Inside Compressors of Thermal Storage System (Ice Plant), East/adjacent Combustion Turbine Site	
Aluminum Sulfate (alum)	200, 50-lb bags	Inside, Bags on Palette, 3rd Floor, Water Treatment Building	
Fly Ash (Silica)	1000 tons	Outside Silo, Adjacent to Unit 3 ESP (typically empty)	

## 2.3 Utilities

All waters serving the plant are withdrawn from two intake structures located in Herrington Lake. Cooling water is recycled through the use of mechanical draft cooling towers. These were constructed to minimize the effects of cooling waters on Herrington Lake.

Sanitary wastes are treated in a septic tank and lateral fields, except combustion turbine area sanitary wastes are collected and privately contracted to a treatment facility for disposal.

Storm water runoff from the areas where raw materials, petroleum products and toxic or hazardous substances are stored or used on the site is routed to pollution control devices (oil/water separator and/or retention ponds) before being discharged to the receiving water. This applies wherever a possibility for contamination exists. The plants' KPDES permit requires identification and calculation of site drainage to nearby waterways.

The subject property obtains power from the generating station for site operations.

## 2.4 Current use of adjoining properties

The following table provides a description of the properties adjacent to the boundaries of the subject property, based on ENSR's review of aerial photographs.

## Table 2-1 Adjacent Land Use

Direction from site	Adjacent land use description
North	Vacant undeveloped land.
East	Vacant undeveloped land and Herrington Lake.
South	Herrington Lake and vacant undeveloped land.
West	Vacant undeveloped land and Highway 342.

Based on a review of aerial photographs the land surrounding the facility is characterized by vacant undeveloped land.

## 3.0 Records information

## 3.1 Standard environmental records

Standard environmental record sources are defined in Section 8.2.1 of the ASTM-05 standard "Phase I Environmental Site Assessment Process". These records consist of selected federal and state environmental databases. ASTM also specifies the appropriate search distances from the subject property for which these records should be reviewed. ENSR retained the services of Environmental Data Resources, Inc. (EDR) of Milford, Connecticut to provide specified state and federal regulatory list information for potential sites of environmental concern located at or in the vicinity of the subject property. EDR maintains a computerized Geographic Information System (GIS) listing of various state and federal databases in accordance with the ASTM standard. The database search was based upon ASTM-specified standard record sources. Additionally, databases searched by EDR satisfy records review requirements of the EPA's all appropriate inquiry rule. EDR includes these databases, when available, as a part of its report. Descriptions of each database are provided in Part GR-1 of the EDR database report (Appendix A). It should be noted that due to the size of the subject property, ENSR extended the search radius an additional mile in addition to the ASTM search distances. The subject property is located in a rural area, which is primarily undeveloped agricultural property and range land. Scattered residences are located in the area. The subject property was identified in the EDR report. None of the orphan (unmapped) sites listed on the EDR report were identified by ENSR within the vicinity of the subject property.

A variety of federal and state governmental databases were reviewed using EDR. The following federal and state contamination-related databases described in Table 3-1 were searched for the area surrounding the subject properties; the various search distances used are also noted.

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
	Federal Databases	
NPL <sup>2</sup>	Existing and proposed Superfund sites on the National Priorities List	2.0
CERCLIS <sup>2</sup>	Abandoned, uncontrolled or inactive hazardous waste sites reported to the U.S. EPA, which have been or are scheduled to be investigated by the U.S. EPA for potential nomination to the NPL.	2.0
RCRIS-TSD <sup>2</sup>	Reported sites that treat, store and/or dispose of hazardous waste and subject to the federal RCRA regulations.	2.0
RCRIS-LQG/SQG <sup>2</sup>	Reported large-quantity generators and small quantity generators of hazardous waste.	1.75
ERNS <sup>2</sup>	Sites reporting spills to the U.S. EPA and/or the U.S. Coast Guard under various federal regulations	target property
FINDS	Facility Index System indicates the presence of a site on another federal database.	target property
PADS	PCB Activity Database System identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required and have notified the EPA of such activities.	target property
RAATS	RCRA Administrative Tracking System contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.	target property

#### Table 3-1 Databases Searched and Radii

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
TRIS	Toxic Chemical Release Inventory System identified facilities who have reported releases of listed toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.	target property
TSCA	Toxic Substances Control Act identified manufacturers and importers of chemical substances by plant site in 1986. No updates of the list have been made by EPA.	target property
HMIRS	Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to the Federal DOT.	target property
NPL Liens	List of liens placed against real property in order for the EPA to recover remedial action expenditures or when the property owner receives notification of potential liability.	target property
CORRACTS	Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.	2.0
ROD	Records of Decision mandating a permanent remedy for a Superfund Site	2.0
MLTS	Material Licensing Tracking System, maintained by the Nuclear Regulatory Commission, contains a list of sites that possess or use radioactive materials and are subject to NRC licensing.	target property
Delisted NPL	Sites removed from the NPL	target property
Coal Gas	Former manufactured coal gas sites	2.0
	State Databases	
SWHS <sup>2</sup>	State hazardous waste sites	2.0
UST <sup>2</sup>	Sites which have reported underground storage tanks.	1.75
LUST <sup>2</sup>	Sites which have reported leaking underground storage tanks.	1.75
SWF/LF <sup>2</sup>	List of permitted solid waste disposal facilities	2.0
commercial real	ch distances used equal or exceed those recommended by ASTM for assessing the environestate. estate. h are required to be searched by ASTM.	onmental condition of

ENSR completed an EDR Site Report of the subject property to obtain the information below. According to the EDR database, the subject property appears on the following databases: AIRS, ERNS, TRIS, NPDES, SHWS, UST and FINDS. According to the database, Augusta Fiberglass Coatings is listed at the subject property address of 815 Dix Dam Road and appears on the AIRS and FINDS database. The AIRS database provides a listing of permitted air facilities. The FINDS database is a pointer database (linked to a related federal database). Additionally, the subject property (Brown Station) appears on the AIRS database as well. Information contained in the AIRS database was consistent with information provided to ENSR for review. No additional information regarding the air permit was provided in the AIRS database.

The subject property appears on the ERNS database twice. According to the database, the first listing is related to a continuous release of hydrochloric acid from the power stacks, which occurred on September 14, 2002. The media affected was the air. Based on the nature of the release, ENSR does not believe this represent an environmental concern to the subject property. The other ERNS listing was for an initial continuous release of hydrofluoric acid which occurred on November 12, 2003. The media affected was the air. Based on the nature of the release, ENSR does not believe this represents an environmental concern to the subject property.

The subject property appears on the TRIS database; however no additional information is provided regarding the listing. However, it is likely that the listing is related to the air born release identified above.



The subject property appears on the NPDES database, stating the subject property currently has an active NPDES permit.

The subject property appears on the SHWS database twice. The first listing is for active State Hazardous Waste Site; however no additional information regarding this listing is available. Based on the limited amount of information ENSR believes the active SHWS represents an environmental concern to the subject property. The second listing on the SHWS database is for an inactive listing regarding a petroleum cleanup, with closure received in January 2001. This historic cleanup represents a historical environmental concern to the subject property.

The subject property appears on the UST database. According to the database, two underground tanks were historically located on the subject property. The first tank is noted as being removed and was a 1,000 gallon single-walled steel tank that historically contained gasoline. According to a February 25, 1998 letter from the Commonwealth of Kentucky, Natural Resources and Environmental Protection Cabinet, a 1,000 gallon steel UST was removed on November 4, 1997 and has received closure. The second tank is noted as being removed prior to 1998. The tank was a 6,000 gallon single-walled steel tank that historically contained oil. According to information provided by Mr. Voyles, the 6,000 gallon UST was actually an 8,000 gallon UST used to store fuel oil for building heating purposes. Thus the tank was exempt from state registration. This tank was removed in June 1992, an 3-D Engineers completed the closure report.

Based on the current regulatory status and/or distance from the subject property, ENSR does not believe the sites identified in the EDR "Orphan Summary" represent a potential threat to impact the subject property. No surrounding properties were identified in the EDR report.

## 3.2 Additional environmental records

Per Section 8.2.2 of the ASTM standard, local, and/or additional state or tribal sources of environmental records shall be reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed in Section 3.1 of this report. These additional records/sources may include local records such as: lists of waste disposal sites; brownfields sites; lists of hazardous waste/contaminated sites; lists of registered storage tanks; local land records (for activity and use limitations); records of emergency release reports; and records of contaminated public wells. Local sources that may be contacted to obtain this information include: Department of Health/Environmental Division; Fire Department; Planning Department; Building Permit/Inspection Department; Local/Regional Pollution Control Agency, Local/Regional Water Quality Agency, and Local Electric Utility Companies (for records relating to PCBs).

The subject property was not located on or within 1 mile of tribal lands. As a result, tribal records were not researched as a part of this assessment.

Per the ASTM Standard, approximate minimum search distances for additional records sources should not be less than those specified for standard records sources, but can be adjusted at the discretion of the environmental professional. Based on ENSR's observations during the site visit and information provided in the EDR report, no significant environmental concerns were identified associated with the adjacent properties; thus, additional state and local records not included within the EDR report were reviewed for the subject property only.

A table documenting the departments contacted to request environmental information relative to the subject property is included in Section 9. These inquires may have been made in the form of telephone interviews, Freedom of Information Act (FOIA) requests, and/or in person discussions.

The results of these inquiries are summarized in the following table.



## **Table 3-2 Agency Inquiries**

Record source	Type of records	Comments
U.S. EPA ECHO database	Environmental compliance history of the subject	August 26, 2008 – online query
	property	According to the database the facility has two Clean Water Act permits. The first permit is KYR108555 which is registered for E.W. Brown Generating Station. The second permit is KYR108488 which is registered for E.W. Brown Auxiliary Ash Pond. Neither permit has any listed violations.
U.S. EPA Envirofacts	Lists and provides	August 26, 2008 – online query
Database	information concerning facility activities subject to federal permitting requirements	According to the database, the E.W. Brown Generating Station has a NPDES permit (KYR108555), which was issued May 2, 2007. No violations or enforcement actions were reported in the database. Another NPDES permit (KYR108488), issued for the E.W. Brown Auxiliary Ash Pond is reported in the database. This permit was issued on May 10, 2007 and no violations or enforcement actions were reported in the database.
Kentucky Department of	Freedom of Information Request regarding the subject property's current regulatory status.	September 8, 2008 – record request
Environmental Protection		ENSR reviewed the records provided by Mary Hawkins for the air program at the E.W. Brown facility. According to the state of Kentucky the facility has submitted the facility's annual compliance reports for their Title V permit for the years 2004, 2005 and 2006.
		Also according to the state's file, the subject property was issued a Notice of Violation on July 29, 2005 for visible emissions greater than 40% opacity for more than a 6 minute period in any 60 consecutive minutes. During the 1 <sup>st</sup> quarter of 2005, Unit #1 had a total of 89 opacity exceedences, with 38 of these due to startup/shut down and 51 due to process problems. The 51 opacity exceedences due to the process problems were examined and 26 were found to be exempt as the facility was granted relief in a letter dated May 23, 2005. Of the remaining 25 exceedences, 8 occurred during sootblowing and 3 were found to be exempt. A total of 22 opacity exceedences were found non-exempt under the regulation and are in violation of the standard. During the 1 <sup>st</sup> quarter of 2005, Units #2-3 has a total of 118 opacity exceedences, with 99 of these due to startup/shutdown and 19 due to process problems. The 19 opacity exceedences due to process problems are not exempt under the regulation and are found in violation of the



Record source	Type of records	Comments
		standard. During the 2 <sup>nd</sup> quarter of 2005, Unit #2- 3 had a total of 108 opacity exceedences, with 108 of these due to startup/shutdown which are exempt under the regulation. The three coal-fired boilers Unit #1, 2 and 3 have a combined total of 68 opacity violations for the time period of January 1, 2005 through June 30, 2005.
		According to the October 20, 2008 letter from the Commonwealth of Kentucky, the NOV issued on August 12, 2005 was formally rescinded.
		ENSR has requested records regarding the facility's waste and water programs. At the time of this report ENSR has not received the information from the Kentucky DEP.
Mercer County Health	Information regarding septic	September 11, 2008 – phone interview
Department – Environmental	tanks.	ENSR contacted Stacey regarding septic tank requirements and possible permits. According to Stacey the facility does have several septic tank permits.
Mercer County Planning &	Information regarding	September 11, 2008 – phone interview
Zoning	subject property zoning designation.	ENSR left a message regarding the zoning information for the subject property. At the time of this report ENSR has not received a call back from the Mercer County Planning & Zoning Department.
Fire Departments	Information that may be on	September 11, 2008 – phone interview
	file for the subject property, specifically regarding the installation or removal of underground storage tanks (USTs) from the subject property, or spills or releases of oil and/or hazardous/radioactive materials at the site.	ENSR left a message regarding the fire department information for the subject property. At the time of this report ENSR has not received a call back from the Fire Department.

## 3.3 Physical setting information

The subject property is located in Mercer County, Kentucky, and consists of 900 acres of land. The subject property is located in Burgin, Kentucky on State Highway 342.

According to the USGS Wilmore, Kentucky Quadrangle 7.5-Minute Series Topographic map, the elevation of the subject property area is between approximately 895 to 905 feet above mean sea level. The subject property has an elevation change of approximately 400 feet from the center of the property to the northeast portion of the subject property which abuts Dix River. Depth to groundwater is approximately 350 feet below ground surface at certain locations on the subject property. Based on topographical information, the regional ground water flow is anticipated to the southeast toward the Dix River.



Based on a review of the US Department of Agriculture - Soil Conservation Service Soil Survey of Mercer County, Kentucky, the central portion of the subject property is underlain by Fairmount silty clay loam. Fairmount has a very slow infiltration rate, high water table and are shallow to an impervious layer. The soil is well drained and has a moderate corrosion potential. Depth to bedrock is greater than 36 inches. According to the EDR, Fairmount soil is not classified as a hydric soil, a wetland indicator.

The eastern and western portions of the subject property are underlain by McAfee silt loam and Maury silt loam. McAfee soil has a slow infiltration rate, with layer impeding downward movement of water. The soil is classified as being well drained with a high corrosion potential. According to the EDR, McAfee soil is not classified as a hydric soil. Maury soil has moderate infiltration rates with moderately well drained soils. The soil is classified as being well drained with a moderate corrosion potential. According to the EDR, Maury soil is not classified as a hydric soil.

According to the Federal Emergency Management Agency (FEMA) floodplain information provided in the EDR the eastern and southeastern portions of the subject property are located on the 500 year flood zone (2103060100B).

According to the EDR report (Appendix B), federal area radon information for Mercer County indicates that Mercer County is designated as a "Zone 1" (i.e., counties in which the predicted average indoor radon screening level is greater than 4 picoCuries per liter [pCi/L]). EDR reported that 5 sites were tested for radon within Mercer County. The average test results indicate levels of radon were 2.350 pCi/L in first floor living areas and 1.440 pCi/L in basement living areas. The U.S. EPA Guideline for radon in residential dwellings is 4.0 pCi/L. The U.S. EPA does not have a guideline for radon in commercial or industrial buildings. It is ENSR's opinion that the area radon levels do not pose an environmental concern to the subject property.

## 3.4 Historical use information on the subject property and adjacent sites

Information pertaining to historical uses of the subject property and surrounding area was obtained from the following publicly available and readily reviewable sources:

- Topographic maps: Harrodsburg, Kentucky Quadrangle (1905) and Wilmore, Kentucky Quadrangle (1952 and 1979);
- Aerial Photographs: 1950, 1975, 1997 and 2006; and
- City Directories: 1997, 2002 and 2007.

Sanborn Fire Insurance maps were requested from EDR; however, Sanborn Fire Insurance maps were not available for the subject property or the immediately surrounding area.

A chronological history of the subject property and abutting property use is presented in Table 4-3.

#### Table 3-3 Chronological Historical Subject Property and Abutting Property Use

Date(s)	Type of Document	Description	Level of Concern
1905	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1950	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings.	None
1952	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None

Date(s)	Type of Document	Description	Level of Concern
1975	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings.	None
1979	Topographic Map	<b>Subject property and Abutting properties:</b> The subject property is depicted as being developed with 11 structures and a substation. Additionally, a dam is depicted along Dix River to the east of the subject property. The other adjoining property is depicted as undeveloped land.	None
1997 and 2006	Aerials Photograph	Subject property and Abutting properties: The subject property is observed developed with an electrical generating station and reservoir. The other adjoining property is depicted as undeveloped land.	None

## 3.5 Previous environmental reports

No previously prepared environmental reports for the subject site were identified by E.ON personnel, or provided for review by ENSR.

## 4.0 Regulatory Considerations

ENSR conducted a review of available facility permits to assess its compliance with key local, state and federal environmental regulations. A summary of significant regulatory compliance considerations at the E.ON facility is provided below.

## 4.1 Title V Permitting

The E. W. Brown facility was granted their initial Title V permit application on February 14, 1997. A final revised Title V permit for the E. W. Brown facility was authorized on March 1, 2005.

The granting of the final Title V permit for the E. W. Brown facility requires that semi-annual deviation reports and annual certification compliance reports be submitted. According to the information provided by the Commonwealth of Kentucky, the facility has submitted annual compliance reports as required beginning in January 2004 through December 2007.

The Title V permit application is authorized for a period of five years from the date of initial issue. The original Title V permit for the E. W. Brown facility expires on March 1, 2010.

## 4.2 Waste Management

According to a 2007 Hazardous Waste Annual Report FORM 1, the Commonwealth of Kentucky Department for Environmental Protection issued the facility EPA identification number KYD-000-622-951. The E. W. Brown facility is currently registered as a small quantity generator of hazardous waste. According to the form, the facility is registered to generate the following wastes: D001, D008, D009, D018, D035, F001 (spent halogenated solvents used in degreasing) and F003 (spent non-halogenated solvents).

## 4.3 Emergency Planning and Community Right-to-Know

Facilities that manufacture, use, or store chemicals any hazardous chemical/substance which requires an MSDS be kept on location is required to report these chemicals on an annual basis. The Superfund Amendments and Reauthorization Act (SARA) Section 312 outlines the requirements for companies that store chemicals at their location. This report is commonly known as the Tier Two Report. ENSR reviewed the 2005, 2006 and 2007 Tier Two Report for the E. W. Brown facility. The facility filed a Tier Two Report due to the storage of the following chemicals sodium hydroxide, sulfuric acid, turbine oil, diesel fuel oil #2, phosphoric acid, cyclohexylamine, hydrazine, sodium hypochlorite, sulfur, chlorine, vanadium pentoxide, ethylene glycol, anhydrous ammonia, and aluminum sulfate.

SARA Section 313 outlines the requirements for reporting releases at facilities that manufacture, store, and/or use chemicals regulated under these regulations. This form is commonly known as the Toxic Release Inventory (TRI) Form R. ENSR reviewed the 2005, 2006 and 2007 TRI reports, for the E.W. Brown facility which appeared complete.

## 4.4 Spill Prevention, Control & Countermeasure (SPCC) Plan

Facilities that engage in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to their location, could reasonably be expected to discharge oil in quantities that may be harmful, are regulated under 40 C.F.R. § 112. If the aggregate aboveground storage capacity of the facility is more than 1,320 gallons (only containers of oil with a capacity of 55 gallons or greater are counted), the facility is required to prepare and implement a Spill Prevention, Control and Countermeasure (SPCC) Plan. The current plan was last certified by an engineer in October 2004. Current regulations require SPCC engineer recertification every 5 years.



## 4.5 Wastewater and Storm Water

On-site wastewater generation consist of four permitted discharge outfalls to Herrington Lake. The facility is permitted (permit number KY0002020 by the Kentucky Department for Environmental Protection for these discharges. Outfall 001 is a combined discharge from the ash treatment basin metal cleaning wastes and precipitation. Outfall 002 is discharge from cooling tower blowdown and precipitation. Outfall 003 is discharge to the ash pond from the combustion turbine inlet turbine blades wash water. Outfall 005 is the water intake point from Herrington Lake.

ENSR reviewed the Discharge Monitoring Reports (DMR) for Outfalls 001, 002, 003 and 005 for March, August and November of 2006, January, May, August and December of 2007, and February and April of 2008. No exceedences of the permit levels were detected, except for an elevated pH reading in the August 2006 sampling event. According to the DMR the pH was 9.4 and the facility is permitted for a maximum of 9.0. The pH was back below 9.0 by August 15, 2006.



## 5.0 Findings and opinion

ENSR performed a Desktop Phase I ESA of the E. W. Brown facility located at 815 Dix Dam Road, Harrodsburg, Mercer County, Kentucky to identify environmental concerns associated with the property. This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. As required the report will include ENSR's opinion on the need for additional investigations, data gaps, and ENSR's opinion of the significance of the data gaps. Upon receipt of your comments, the draft report will be finalized. However, the scope of a Phase I ESA is limited in scope and is not an exhaustive research of the subject property and surrounding area. ENSR will provide recommendations, should conditions suggesting the need for additional study be observed.

## 5.1 Environmental Concerns

- <u>SHWS</u>: The subject property appears on the SHWS database twice. The first listing is for an active State Hazardous Waste Site; however, no additional information regarding this listing is available. Based on the limited amount of information ENSR believes the active SHWS represents an environmental concern to the subject property.
- The second listing on the SHWS database is for an active listing regarding a petroleum cleanup, with closure received in January 2001. This historic cleanup represents a historical environmental concern to the subject property.

## 6.0 References and contacts

## 6.1 Persons interviewed

Hawkins, Mary, Commonwealth of Kentucky, Department for Environmental Protection, Division for Air Quality, 502-564-3999.

Department Representative, Harrodsburg Fire Department, 125 West Broadway, Harrodsburg, KY 40330.

Stacy, Mercer County Health Department, 859-734-2229.

Department Representative, Mercer County Planning and Zoning, 859-734-6066.

Voyles, John, Vice President, Transmission & Generation Services, john.voyles@eon-us.com.

## 6.2 Reports and documents reviewed

ASTM 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Aerial Photographs dated 1950, 1975, 1997 and 2006 obtained from Environmental Data Resources, Inc., Southport, CT.

City Directory dated 1997, 2002 and 2007 obtained from Environmental Data Resources, Inc., Southport, CT.

EDR-Radius Map with Geocheck<sup>®</sup>, E. W. Brown, 815 Dix Dam Road, Harrodsburg, KY 40330.

Historic Topographic Maps dated 1905, 1952 and 1979 obtained from Environmental Data Resources, Inc., Southport, CT.

Title V Air Quality Permit, V-03-034, E. W. Brown Generating Station.

Discharge Monitoring Reports (DMR) for Outfalls 001, 002, 003 and 005 for March, August and November of 2006, January, May, August and December of 2007, and February and April of 2008.

Form R, E. W. Brown Generating Stations, 2005, 2006, 2007.

NPDES Permit, KY0002020, E.W. Brown Generating Station.

Spill Prevention, Control and Countermeasures Plan, E. W. Brown Generating Station, April 2008.

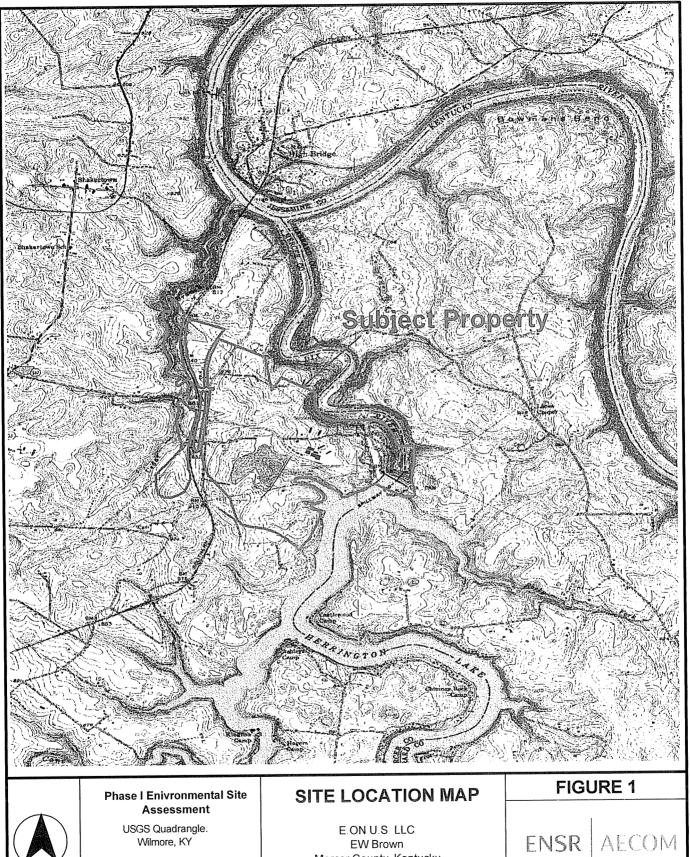
Tier II, E. W. Brown Generating Station, 2005, 2006 and 2007.

Annual Hazardous Waste Report, E. W. Brown Generating Station, 2007.

Kentucky DEP Correspondence dated February 25, 1998, "E. W. Brown Generating Facility, UST Systems Removal".

Kentucky DEP, NOV, July 29, 2005.

Figure



EW Brown Mercer County, Kentucky

September 2008 Project No. 12267-006-0008 1:40,000

Scale:



Appendix A

**EDR Report** 

## Kentucky Utilities Co. - EW Brown

815 Dix Dam Road Harrodsburg, KY 40330

Inquiry Number: 02299731.2r August 20, 2008

# The EDR Radius Map<sup>™</sup> Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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Orphan Summary	13
Zip Scan Report	ZIP-1
Government Records Searched/Data Currency Tracking	GR-1

## **GEOCHECK ADDENDUM**

Physical Setting Source Addendum	A-1
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Physical Setting SSURGO Soil Map	A-5
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Thank you for your business. Please contact EDR at 1-800-352-0050 with any guestions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

# TARGET PROPERTY INFORMATION

# ADDRESS

815 DIX DAM ROAD HARRODSBURG, KY 40330

# COORDINATES

Latitude (North):	37.791010 - 37° 47' 27.6"
Longitude (West):	84.721420 - 84° 43' 17.1"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	700637.9
UTM Y (Meters):	4184867.8
Elevation:	901 ft. above sea level

# USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Most Recent Revision:

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

1979

Site	Database(s)	EPA ID
AUGUSTA FIBERGLASS COATINGS INC 815 DIX DAM RD HARRODSBURG, KY 40330	AIRS	N/A
815 DIXDAM RD 815 DIXDAM RD HARRODSBURG, KY 0	ERNS	N/A
KENTUCKY UTILITIES CO E. W. BR 815 DIX DAM RD HARRODSBURG, KY 40330	TRIS	40310KNTCKCU
E. W. BROWN GENERATING STATION 815 DIX DAM RD HARRODSBURG, KY 40330	NPDES	N/A
KY UTIL E W BROWN GEN STA 815 DIX DAM RD HARRODSBURG, KY 40330	NPDES	N/A

37084-G6 WILMORE, KY

815 DIX DAM RD. 815 DIX DAM RD. HARRODSBURG, KY	ERNS	N/A
KY UTILITIES CO - BROWN STATION 815 DIX DAM RD HARRODSBURG, KY 40330	SHWS Facility Status: Active UST AIRS	N/A
AUGUSTA FIBERGLASS 815 DIX DAM RD HARRODSBURG, KY 40330	FINDS	110033138977
E. W. BROWN AUXILIARY ASH POND 815 DIX DAM RD HARRODSBURG, KY 40330	FINDS NPDES	110032820936
E. W. BROWN GENERATING STATION 815 DIX DAM RD HARRODSBURG, KY 40330	FINDS	110032821123

# DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

# FEDERAL RECORDS

National Priority List
Proposed National Priority List Sites
_ National Priority List Deletions
Federal Superfund Liens
Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS No Further Remedial Action Planned
CERCLA Lien Information
Corrective Action Report
_ RCRA - Transporters, Storage and Disposal
RCRA - Large Quantity Generators
_ RCRA - Small Quantity Generators
RCRA - Conditionally Exempt Small Quantity Generator
RCRA - Non Generators
Engineering Controls Sites List
. Sites with Institutional Controls
. Hazardous Materials Information Reporting System
_ Incident and Accident Data

US CDL	
	_ A Listing of Brownfields Sites
	_ Department of Defense Sites
	. Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	_ Superfund (CERCLA) Consent Decrees
ROD.	_ Records Of Decision
UMTRA.	2 Uranium Mill Tailings Sites
ODI.	_ Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
MINES	Mines Master Index File
TSCA	_ Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	. FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.	_ Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS.	_ Material Licensing Tracking System
RADINFO	_ Radiation Information Database
RAATS	RCRA Administrative Action Tracking System

# STATE AND LOCAL RECORDS

SWF/LF	
HIST LF	Historical Landfills
SB193	SB193 Branch Site Inventory List
ENG CONTROLS	Engineering Controls Site Listing
INST CONTROL	State Superfund Database
VCP	Voluntary Cleanup Program Sites
DRYCLEANERS	
BROWNFIELDS	Kentucky Brownfield Inventory
CDL	Clandestine Drub Lab Location Listing
LEAD	Environmental Lead Program Report Tracking Database
PSTEAF	. Facility Ranking List

# TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
INDIAN VCP	Voluntary Cleanup Priority Listing

# EDR PROPRIETARY RECORDS

Manufactured Gas Plants ..... EDR Proprietary Manufactured Gas Plants

# SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in *bold italics* are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# STATE AND LOCAL RECORDS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Uncontrolled Site Branch List.

A review of the SHWS list, as provided by EDR, and dated 04/16/2008 has revealed that there is 1 SHWS site within approximately 2 miles of the target property.

# Lower Elevation

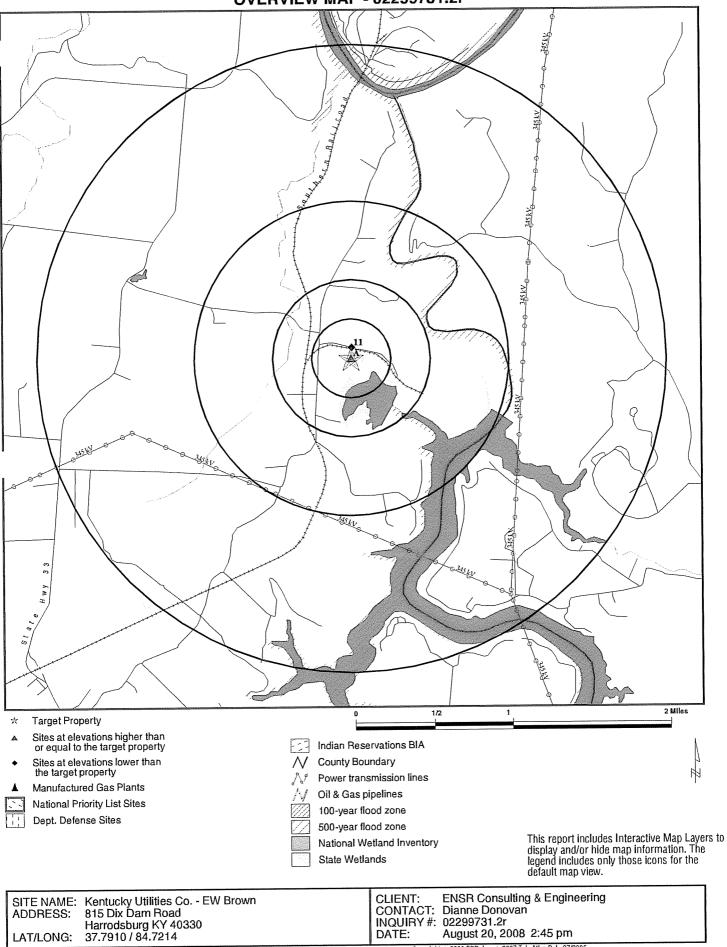
KENTUCKY UTILITIES Facility Status: Closed Address 510 DIX DAM RD 
 Dist / Dir
 Map ID
 Page

 0 - 1/8
 N
 11
 12

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
HENRY A SENN CITY OF WILMORE US 127 S - MULLINGS LANDING DRUM PITTMAN PROPERTY HUGHLEY LN - MERCER CO MERCER CO STATE MAINTENANCE GARAGE US 68 TANK HARRODSBURG NATIONAL GUARD ARMORY LANCASTER RESERVOIR JOE ADAMS ESTATE JAY BEE ENTERPRISES GARRARD CO STATE MAINTENANCE GARAGE SALVISA DRUMS ANR PIPELINE CO GAS PIPELINE BILLY GLOVER DUMP CAMP NELSON ROAD DRUMS KY LOCK NO 7 & DAM SITE WILMORE WWTP MAGO CONSTRUCTION CO LLC - HMA PORTABLE CORNING GLASS INC LANCASTER WWTP GARRARD COUNTY CONVENICE CENTER RICHIE'S TIRE DISPOSAL LLC WILMORE LANDFARM WILMORE LANDFARM 2 SUMMIT TRANSPORT TRANSFER STATION GILLILANDS GROCERY LISTER SERVICE STATION MP 445.10 GARRARD COUNTY MAGO CONSTRUCTION COMPANY, INC. CAMP NELSON PROPERTY E.W. BROWN GENERATING STATION. OFF OF HWY 33	SWF/LF, HIST LF HIST LF SHWS SHWS SHWS SHWS SHWS SHWS SHWS SHW

OVERVIEW MAP - 02299731.2r

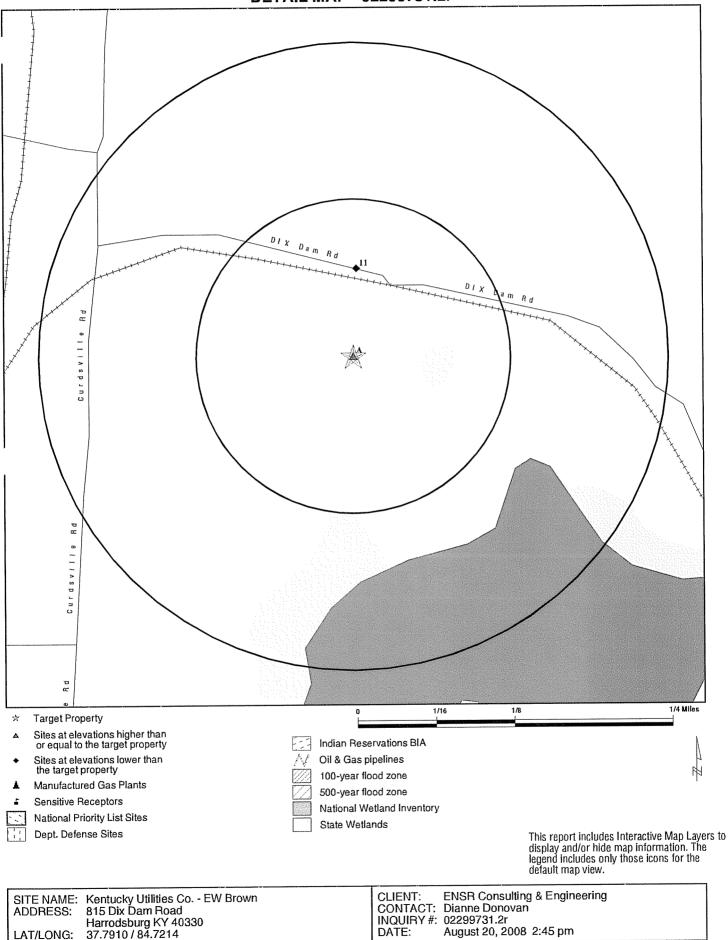


August 20, 2008 2:45 pm DATE: Copyright @ 2008 EDR, Inc. @ 2007 Tele Atlas Rol. 07/2006.

02299731.2r

INQUIRY #:

LAT/LONG:



# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	>1	Total Plotted
FEDERAL RECORDS								
NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-SQG RCRA-CESQG	x x	2.000 2.000 2.000 TP 2.000 2.000 1.750 1.750 1.750 1.750 2.0000 2.0000 2.0000 2.000000 2.00000000	0 0 0 R 0 0 R 0 0 0 0 0 0 0 R R R R R 0	0 0 0 R 0 0 R 0 0 0 0 0 0 0 R R R R R O 0 0 0 0	0 0 0 R 0 0 R 0 0 0 0 0 0 0 R R R R R O 0 0 0 0	0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 R R R R 0 0 0 0 0 0 0 0 0 0 0 R	0 0 0 R 0 0 R 0 0 0 0 0 0 0 R R R R 0 0 0 0 0 0 0 0 0 0 R	000000000000000000000000000000000000000
STATE AND LOCAL RECOR	DS							
SHWS SWF/LF HIST LF SB193	Х	2.000 2.000 2.000 2.000	1 0 0 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0	1 0 0 0
UST	х	1.750	0	0	0	0	0	0

# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
ENG CONTROLS INST CONTROL VCP DRYCLEANERS BROWNFIELDS CDL NPDES AIRS LEAD PSTEAF	X X	2.000 2.000 1.750 2.000 TP TP TP TP TP 2.000	0 0 0 NR NR NR NR 0	0 0 0 0 NR NR NR NR 0	0 0 0 0 NR NR NR NR 0	0 0 0 NR NR NR NR 0	0 0 0 NR NR NR NR 0	0 0 0 0 0 0 0 0 0 0
TRIBAL RECORDS								
INDIAN RESERV INDIAN LUST INDIAN UST INDIAN VCP		2.000 2.000 1.750 2.000	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
EDR PROPRIETARY RECOR	DS							
Manufactured Gas Plants		2.000	0	0	0	0	0	0

# NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction		MAP FINDINGS		
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
A1 Target Property	AUGUSTA FIBERGLASS ( 815 DIX DAM RD HARRODSBURG, KY 403		AIRS	S108514522 N/A
	Site 1 of 10 in cluster A			
Actual: 901 ft.	AIRS: Facility: Facility End Date: Contact Name: Contact Addr: City: State: Zip: Phone: Daq contact fax: Daq contact fax: Daq contact fax: Daq contact email: Emps: Plant Class Descr.: Principal Product: Acreage: Latitude/Longitude: SIC: SIC Desc: NAIC: NAIC Desc:	2116700027 Not reported John Boyd 86 Lake Cynthia Rd Blackville SC 29817 803-284-2246 Not reported Not reported 12 5; Individual HAP > 10 TPY ONLY Stack Liners 4 37.755000000000003 / -84.75833300000007 3089 Plastics Products, NEC 326199 All Other Plastics Product Manufacturing		
A2 Target Property	815 DIXDAM RD 815 DIXDAM RD HARRODSBURG, KY 0		ERNS	2002626028 N/A
A	Site 2 of 10 in cluster A			
Actual: 901 ft.		<u>this hyperlink</u> while viewing on your computer to access litional ERNS detail in the EDR Site Report.		
A3 Target Property	KENTUCKY UTILITIES CO 815 DIX DAM RD HARRODSBURG, KY 403 Site 3 of 10 in cluster A	9 E. W. BROWN STATION 30	TRIS	1005453550 40310KNTCKCU
Actual	one o of to ill cluster A			
Actual: 901 ft.				
A4 Target Property	E. W. BROWN GENERATI 815 DIX DAM RD HARRODSBURG, KY 403		NPDES	S108903071 N/A
	Site 4 of 10 in cluster A			
Actual: 901 ft.	KY NPDES: KY DES #: Facility Addr 2: Facility Status: Inactive Date: Design Capacity: Fee Category:	KYR108555 Not reported ACTIVE Not reported Not reported Not reported		

Map ID Direction		MAP FINDINGS		
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number
				176 august 1990

# E. W. BROWN GENERATING STATION (Continued)

SIC Code: 1611 Lat/Long: Not reported Lat/Long Method: Not reported USGS Hydrologic Basin Code: Not reported Facility Stream Segment: Not reported Facility Mileage Indicator: Not reported Basin Code: Not reported Basin Code Description: Not reported DMR Contact: **RICHARD NOYCE** RICHARD NOYCE Mailing Address: Mailing Address 2: Mailing City,St,Zip: 820 W BROADWAY LOUISVILLE, KY 40232 Permit Issued: 5/2/2007 Permit Expires: 9/30/2007 SIC Code Description: HWY & ST CONST., EXC. ELEV HWY Reveiving Waters: Not reported Major/Minor: MINOR

## A5 KY UTIL E W BROWN GEN STA Target 815 DIX DAM RD Property HARRODSBURG, KY 40330

### Site 5 of 10 in cluster A

KY NPDES: Actual: KY DES #: KY0002020 901 ft. Facility Addr 2: Not reported Facility Status: ACTIVE Inactive Date: Not reported Design Capacity: Not reported MAJIND Fee Category: SIC Code: 4911 +3747160 / -08442470 Lat/Long: Lat/Long Method: А USGS Hydrologic Basin Code: 05100205 Facility Stream Segment: 0016 Facility Mileage Indicator: 00000 Basin Code: 0515 Basin Code Description: OR/SALT R. JOHN W MOFFETT, MGR ENV COMPL DMR Contact: SHARON L DODSON Mailing Address: Mailing Address 2: PO BOX 32010 LOUISVILLE, KY 40232 Mailing City, St, Zip: Permit Issued: 9/17/2001 1/31/2007 Permit Expires: SIC Code Description: ELECTRICAL SERVICES HERRINGTON LAKE Reveiving Waters: Major/Minor: MAJOR

NPDES \$107865866 N/A

S108903071

Map ID		MAP FINDINGS		
Direction Distance	μ			EDR ID Number
Elevation	Site		Database(s)	EPA ID Number
A6 Target Property	815 DIX DAM RD. 815 DIX DAM RD. HARRODSBURG, KY		ERNS	2003705128 N/A
	Site 6 of 10 in cluster A			
Actual: 901 ft.		yperlink while viewing on your computer to access ERNS detail in the EDR Site Report.		
A7 Target Property	KY UTILITIES CO - BROWN STA <sup>.</sup> 815 DIX DAM RD HARRODSBURG, KY 40330	TION	SHWS UST AIRS	U003997788 N/A
	Site 7 of 10 in cluster A			
Actual: 901 ft.	SHWS: Status: Longitude: Latitude: Facility Address 2: Subject Item County: Sub Item Longitude: Subject Item Address: Subject Item Address2: Subject Item Address2: Subject Item City,St,Zip: Facility Group: Regulatory Desc: Closure Option: Side SG: Closure Date: Description: KENTUCK UST: Sequence Id: Facility ID: Subject Item Id: Tank Status: Inert Material Code: Tank Material: Tank External Protection: Tank Internal Protection: Tank Overfill Protection: Pipe Material:	Active -84.713056 37.787778 Not reported Not reported Not reported Not reported 1 State Superfund Not reported 17562 Not reported Y UTILITY CO E.W. BROWN POWER STATION 4188084 3148 1 Verified Removal Not reported Single Wall Steel Manual Tank Gauging Unknown None Single Wall Steel		
	Pipe External Protection: Pipe Type: Pipe Release Detection: Pipe Rel Detect Suc Code: Pipe Leak Detect Code:	Unknown Unknown Unknown UNK NON		
	Installation Date: Closed In Place Date: Relined Date: Last Contained Date: Closed in Place Date: Removed Date: Change in Service Date: Tank Pit Num:	1/1/1984 12:00:00 AM Not reported Not reported Not reported Not reported 11/4/1997 12:00:00 AM Not reported Not reported		
	Compartment Num: Tank Substance Code: Capacity in Gallons: Tank Manufctr Code:	1 GAS 1000 Not reported		

MAP FINDINGS

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

# U003997788

KY UTILITIES CO - BROWN STATION (Continued) Pipe Manufctr Code: Not reported Last Tank Test Date: Not reported Not reported Last Pipe Test Date: Lining Insp Date: Not reported Last Cp Test Date: Not reported Added To Flex Date: Not reported Added To Piping Date: Not reported Added To Tank Date: Not reported Not reported Piping Installation Date: Owner Name: Ky Utililites Co/Caryl Pfeiffer 1 Quality St Owner Address: Owener City, St, Zip: Lexington, KY 40507 606-255-2100 Owner Phone: Latitude: -84.713056 Longitude: 37.787778 Subject Item Category Code: STOR Internal Document ID: 0 Sequence Id: 4189084 Facility ID: 3148 Subject Item Id: 2 Tank Closed prior to 1998 Tank Status: Inert Material Code: Not reported Single Wall Steel Tank Material: Tank External Protection: None Tank Internal Protection: Unknown Tank Overfill Protection: Unknown Single Wall Steel Pipe Material: Unknown Pipe External Protection: Unknown Pipe Type: Pipe Release Detection: Unknown Pipe Rel Detect Suc Code: UNK Pipe Leak Detect Code: NON 1/1/1901 12:00:00 AM Installation Date: Closed In Place Date: Not reported Not reported Relined Date: Last Contained Date: Not reported Not reported Closed in Place Date: Removed Date: 1/1/1986 12:00:00 AM Change in Service Date: Not reported Tank Pit Num: Not reported Compartment Num: Tank Substance Code: OIL Capacity in Gallons: 6000 Tank Manufctr Code: Not reported Pipe Manufctr Code: Not reported Last Tank Test Date: Not reported Last Pipe Test Date: Not reported Not reported Lining Insp Date: Not reported Last Cp Test Date: Not reported Added To Flex Date: Not reported Added To Piping Date: Added To Tank Date: Not reported Piping Installation Date: Not reported Ky Utililites Co/Caryl Pfeiffer **Owner Name:** 1 Quality St Owner Address: Owener City, St, Zip: Lexington, KY 40507

Map ID MAP FINDINGS Direction Distance EDR ID Number Elevation Site Database(s) EPA ID Number **KY UTILITIES CO - BROWN STATION (Continued)** U003997788 606-255-2100 Owner Phone: Latitude: -84.713056 Longitude: 37.787778 Subject Item Category Code: STOR Internal Document ID: 0 AIRS: Facility: 2116700001 Facility End Date: Not reported Contact Name: Ms. Sharon Dodson 220 W Main St Contact Addr: City: Louisville State: KΥ Zip: 40232 Phone: 502-627-2940 Dag contact fax: 502-627-2550 Dag contact email: sharon.dodson@eon-us.com Emps: 142 P2; PSD>100TYCrt<10TYIndHAP<25TYCmbHAP Plant Class Descr.: Principal Product: ELECTRICITY 49.39999999999999999 Acreage: Latitude/Longitude: 37.787777999999996 / -84.713055999999995 SIC: 4911 SIC Desc: Electric Services NAIC: 221112 NAIC Desc: Fossil Fuel Electric Power Generation

# A8 AUGUSTA FIBERGLASS Target 815 DIX DAM RD Property HARRODSBURG, KY 40330

## Site 8 of 10 in cluster A

Actual: FINDS:

901 ft.

Other Pertinent Environmental Activity Identified at Site

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act. FINDS 1010689215 110033138977

MAP	FINDINGS	
101755	1 11 10 11 100	

Map ID		MAP FINDINGS		
Direction		-[		
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number
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### E. W. BROWN AUXILIARY ASH POND A9 Target 815 DIX DAM RD HARRODSBURG, KY 40330 Property

# Site 9 of 10 in cluster A

FINDS:

Actual: 901 ft.

In

Other Pertinent Environmental Activity Identified at Site

I

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

H	Y NPDES: KY DES #: Facility Addr 2: Facility Status: Inactive Date: Design Capacity: Fee Category: SIC Code: Lat/Long: Lat/Long Method: USGS Hydrologic Basin Code: Facility Stream Segment: Facility Mileage Indicator: Basin Code: Basin Code: Basin Code Description: DMR Contact: Mailing Address 2: Mailing Address 2: Mailing City,St,Zip: Permit Issued: Permit Expires: SIC Code Description:	KYR108488 Not reported ACTIVE Not reported Not reported Not reported 1611 Not reported Not reported Not reported Not reported Not reported Not reported RIC SIDEBOTTOM ERIC SIDEBOTTOM ERIC SIDEBOTTOM ERIC SIDEBOTTOM 2265 EXECUTIVE DR LEXINGTON, KY 40505 5/10/2007 9/30/2007 HWY & ST CONST., EXC. ELEV HWY
	Permit Expires:	9/30/2007

### E. W. BROWN GENERATING STATION A10 Target 815 DIX DAM RD HARRODSBURG, KY 40330 Property

Site 10 of 10 in cluster A

FINDS: Actual:

Other Pertinent Environmental Activity Identified at Site 901 ft.

> PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

FINDS 1010504486 110032821123

FINDS 1010504184 110032820936 NPDES

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Map ID Direction Distance Elevation	Site	MAP FINDINGS	Database(s)	EDR ID Number EPA ID Number
11 North < 1/8 0.070 mi. 368 ft.	KENTUCKY UTILITIES 510 DIX DAM RD BURGIN, KY 40310		SHWS	S106886310 N/A
Relative: Lower Actual: 894 ft.	SHWS: Status: Longitude: Latitude: Facility Address 2: Subject Item County: Sub Item Longitude: Subject Item Address: Subject Item Address2: Subject Item City,St,Zip: Facility Group: Regulatory Desc: Closure Option: Side SG: Closure Date: Description: KENTUCH	Closed -84.709170 37.790560 Not reported Mercer 37.79056 510 DIX DAM RD Not reported Burgin, KY 40310 1 Petroleum Cleanup Option A No Action Necessary 53996 01/30/2001 (Y UTILITIES (Closed: No Action Necessary)		

City	EDR ID	Site Name	Site Address	Zip	Database(s)
HARRODSRING	S109089842	MAGO CONSTRUCTION CO LLC - HMA PORTABLE	HWY 152 E	40330	AIRS
HARRODSBURG	1000324784	MAGO CONSTRUCTION COMPANY, INC.	HIGHWAY 152	40330	FINDS, RCRA-NonGen
HARRODSBURG	U003911985	GILLILANDS GROCERY	HWY 1941	40330	UST
HARRODSBURG	S107467137	US 127 S - MULLINGS LANDING DRUM	MM 9 US 127 S	40330	SHWS
HARRODSBURG	S106886322	PITTMAN PROPERTY	195 BRADFORD LN	40330	SHWS
HARRODSBURG	89116044	E.W. BROWN GENERATING STATION. OFF OF HWY	E.W. BROWN GENERATING STATION. OFF OF HWY 33		ERNS
		33			
HARRODSBURG	S106886323	HUGHLEY LN - MERCER CO	HUGHLEY LN	40330	SHWS
HARRODSBURG	U003990873	MERCER CO STATE MAINTENANCE GARAGE	356 MAGNOLIA ST	40330	SHWS, UST
HARRODSBURG	S106886319	US 68 TANK	NONE	40330	SHWS
HARRODSBURG	S107602250	CORNING GLASS INC	OLD CITY STONE QUARRY	40330	SWF/LF
HARRODSBURG	S107467229	HARRODSBURG NATIONAL GUARD ARMORY	TAPP RD	40330	SMHS
LANCASTER	S104905026	HENRY A SENN	US 27	40444	SWF/LF, HIST LF
LANCASTER	S106884903	LANCASTER RESERVOIR	US 27 / PUMP HOUSE RD	40444	SHWS
LANCASTER	S106884908	JOE ADAMS ESTATE	KY 52	40444	SHWS
LANCASTER	U001183624	LISTER SERVICE STATION	HWY 52	40444	UST
LANCASTER	S106884909	JAY BEE ENTERPRISES	BRYANTS CAMP RD	40444	SHWS
LANCASTER	S107602618	LANCASTER WWTP	W BUFORD ST	40444	SWF/LF
LANCASTER	S107602396	GARRARD COUNTY CONVENICE CENTER	HANGING FORK ROAD	40444	SWF/LF
LANCASTER	U003990182	GARRARD CO STATE MAINTENANCE GARAGE	782 INDUSTRIAL RD	40444	SHWS, UST
LANCASTER	1000518359	MP 445.10 GARRARD COUNTY	2 MI NORTH OFF HIGHWAY 39	40444	RCRA-SQG, FINDS
LANCASTER	1000908230	CAMP NELSON PROPERTY	OLD HIGHWAY 27	40444	FINDS, RCRA-NonGen
LANCASTER	S108540216	RICHIE'S TIRE DISPOSAL LLC	152 RAIL WAY	40444	SWF/LF
SALVISA	S106886311	SALVISA DRUMS	OREGON ROAD	40330	SHWS
STATEWIDE	S108234679	ANR PIPELINE CO GAS PIPELINE	GAS PIPELINE	40330	SHWS
WILMORE	S103593713	CITY OF WILMORE	ROUTE 1	40390	HIST LF
WILMORE	S107603220	WILMORE LANDFARM	CR 1	40390	SWF/LF
WILMORE	S106885711	BILLY GLOVER DUMP	KY 29	40390	SHWS
WILMORE	S106885715	CAMP NELSON ROAD DRUMS	CAMP NELSON	40390	SHWS
WILMORE	S107603221	WILMORE LANDFARM 2	GLASS MILL RD	40390	SWF/LF
WILMORE	S106885713	KY LOCK NO 7 & DAM SITE	LOCK NO 7 RD	40390	SHWS
WILMORE	S106885716	WILMORE WWTP	NONE	40390	SMMS
WILMORE	S107603085	SUMMIT TRANSPORT TRANSFER STATION	414 PERKIN LN	40390	SWF/LF

ORPHAN SUMMARY

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Databases		NPDES NPDES NPDES FINDS FINDS FINDS FINDS	FINDS FINDS FINDS FINDS	FINUS RCRA-NonGen, FINDS FINDS LIST	NPDES FINDS FINDS	UST UST UST RCRA-NonGen, FINDS	UST RCRA-NonGen, FINDS FINDS	NPDES AIRS SB193, PSTEAF, UST AIRS 11ST	UST RCRA-NonGen, FINDS UST	UST NPDES FINDS	SHWS FINDS ICIS	NPDES FINDS UST	LEAD LEAD UST	PSTEAF, UST SB193 UST	SHWS RCRA-CESQG, FINDS UST	FINDS FINDS NPDES	AIRS FINDS IIST	FINDS SB193, UST EDNS	UST FINDS NPDES	EKNS FINDS ICIS	RCRAInfo-SQG FINDS UST SSTS	UST UST
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Address	assigned a latitude/longitude coordinate. Further review recommended			127 NORTH & KIRKWOOD HIGHWAY 127 - 2565 LOUISVILLE ROAD	HWY 127 HWY 127 HWY 127 HWY 127	HWY 127 US 127 HENSLEY HEIGHTS US 127 & CHESTNUT ST US 177 & HENSEI Y HTS.	US 127 & TAPP RD HIGHWAY 152 HIGHWAY 152 EAST	HWY 152 E HWY 152 E KY 152 E	KY 152 E HWY 1941 KY 1988 BRIDGE OVER SALT RIVER KY 390		03 00 FEANS VILLE AU MM 9 US 127 S 614 ASHLEY CAMP RD	1060 BEAUMONT AVE 1060 BEAUMONT AVE 518 BELLOWS MILL RD	540 BELLOWS MILL ROAD 633 BELMONT STREET	2269 BOHON RD 2325 BOHON RD 2325 BOHON RD 4751 ROHON RD	195 BRADFORD LN 110 WEST BROADWAY	1050 BURGIN ROAD 1054 BURGIN RD 1054 BURGIN RD	910 BURGIN RD BURGIN ROAD	583 CANE RUN SI CANE RUN ROAD 6400 CARDWELL LANE	238 CEDAR LANE 130 N CHILES ST 62 220 CHIMNEY ROCK RD 220 CHIMNEY ROCK RD	250 CHIMNEY ROCK RD 250 CHIMNEY ROCK ROAD 250 CHIMNEY BOCK ROAD	100 SOUTH COLLEGE ST 100 SOUTH COLLEGE ST 100 SOUTH COLLEGE ST 102 N COLLEGE	1021 N. COLLEGE ST 1006 N. COLLEGE ST 130 N. COLLEGE ST
Name	** - Indicates location may or may not be in requested radius. Site has not been assign	CREATEC CORPORATION HITACHI AUTOMOTIVE PRODUCTS CREATEC CORP HARRODSBURG WTP	KENTUCKY NATIONAL GUARD ARMORY MCAFEE SCHOOL	NA 1 7220 SALVISA ASHLAND HARVEY MITCHELL BEEF FARM (AKA ANE	PIONEEK SHELL BRIGHTLEAF NORTH HOA BRIGHTLEAF NORTH HOA VIRGINIA HEIGHTS SUBD	VIRGINIA HEIGHTS SUBD PARCEL 7 (DEARING) GULF STATION VC DEDT DE JICHWAVS ED 7200(2)	KIDEL FENWAL INC KIDE FENWAL INC MAGO CONSTRUCTION COMPANY, INC.	MERCER STONE CO INC MAGO CONSTRUCTION CO LLC - HMA PO ATWELL GROCERY	MERCER STONE CO INC GILLILANDS GROCERY KYDOH CB06-84-1988-003-588 SEEVICE STATION 271 D RP 291		BLUEGRASS REGIONAL MENTAL TLI US 127 S - MULLINGS LANDING DRUM DAUGHTER S PARK SUBDIVISION WATER	DAUGHTER'S PAKN SUBUIVISION WATEN LASUNE OIL CO LASUNE OIL CO TERRYS CORNER				ORA				CRI CRI		
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Databases	SFIEAF, UST RCRA-NonGen, FINDS BSTEAF, UST PSTEAF, UST BSTEAF, UST BSTEAF, UST UST UST RCRA-NonGen, FINDS UST RCRA-NonGen, FINDS UST RCRA-NonGen, FINDS UST UST RCRA-NonGen, FINDS RCRA-NonGen, FINDS UST UST RCRA-NonGen, FINDS RCRA-NonGen, FINDS RCRA-RCRA-RCRA-RCRA-RCRA-RCRA-RCRA-RCRA
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Databases	LEAD SHWS LEAD SHMS CRA-NonGen, FINDS ARS ARS ARS, SHWS, UST CORRACTS, FINDS, RCRAInfo-LQG, TRIS, RCRAInfo-LQG, TRIS, RCRAInfo-LQG,	FTNS HIST FTTS FTTS, HIST FTTS ERNS SWF/LF UST RCRA-NonGen, FINDS SHF/LF HIST LF HIST LF HIST LF HIST LF UST SWF/LF HIST LF UST SWF/LF HIST LF UST SB193 SB10 SB10 SB10 SB10 SB10 SB10 SB10 SB10	RCRA-NonGen, FINDS LEAD AIRS FINDS RFINDS RERCLIS-NFRAP, FINDS, RERCLIS-NFRAP, FINDS, RERCLIS-NFRAP, FINDS, AIRS, SHWS RERCA-NonGen, FINDS, UST FINDS NPDES	SHWS UST ERNS ARS, NPDES ARS, NPDES TRIS, RCRAInfo-LQG UST NPDES NPDES SWFILF HIST LF NPDES SHWS SHWS SHWS SHWS CERCLIS-NFRAP CERCLIS-NFRAP	August 20, 2008 Page ZIP-4
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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

# FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

# CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 26 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 07/22/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

# CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008 Number of Days to Update: 76 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 06/17/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

## LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/13/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2008	Telephone: 202-564-6023
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/26/2008	
Date Data Arrived at EDR: 04/02/2008	
Date Made Active in Reports: 05/06/2008	
Number of Days to Update: 34	

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Quarterly

# RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

# RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

# RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

# RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

# RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

	List blace. Engineering controls include various forms of caps, building b create pathway elimination for regulated substances to enter environmental
Date of Government Version: 04/04/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies
such as groundwater use restrictions, constru	ols lace. Institutional controls include administrative measures, uction restrictions, property use restrictions, and post remediation ure to contaminants remaining on site. Deed restrictions are generally
Date of Government Version: 04/04/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies
ERNS: Emergency Response Notification System Emergency Response Notification System. E substances.	RNS records and stores information on reported releases of oil and hazardous
Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 01/23/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 54	Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 07/25/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Annually
HMIRS: Hazardous Materials Information Reportin Hazardous Materials Incident Report System	ng System . HMIRS contains hazardous material spill incidents reported to DOT.
Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 04/16/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 29	Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually
DOT OPS: Incident and Accident Data Department of Transporation, Office of Pipeli	ne Safety Incident and Accident data.
Date of Government Version: 05/14/2008 Date Data Arrived at EDR: 05/28/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 72	Source: Department of Transporation, Office of Pipeline Safety Telephone: 202-366-4595 Last EDR Contact: 05/28/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Varies
CDL: Clandestine Drug Labs	

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007 Number of Days to Update: 25 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 06/27/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

# US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 04/30/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 30 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 08/31/2007 Date Made Active in Reports: 10/11/2007 Number of Days to Update: 41 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 31 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Varies

# CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 02/08/2008	Source: Department of Justice, Concent Depres Library
Date Data Arrived at EDR: 04/25/2008	Source: Department of Justice, Consent Decree Library Telephone: Varies
Date Made Active in Reports: 05/30/2008	Last EDR Contact: 07/21/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Varies
ROD: Records Of Decision Record of Decision. ROD documents mandat and health information to aid in the cleanup.	te a permanent remedy at an NPL (Superfund) site containing technical
Date of Government Version: 01/14/2008	Source: EPA
Date Data Arrived at EDR: 01/22/2008	Telephone: 703-416-0223
Date Made Active in Reports: 01/30/2008	Last EDR Contact: 06/30/2008
Number of Days to Update: 8	Next Scheduled EDR Contact: 09/29/2008
	Data Release Frequency: Annually
UMTRA: Uranium Mill Tailings Sites	
shut down, large piles of the sand-like materia the ore. Levels of human exposure to radioa	s for federal government use in national defense programs. When the mills al (mill tailings) remain after uranium has been extracted from ctive materials from the piles are low; however, in some cases tailings ne potential health hazards of the tailings were recognized.
Date of Government Version: 07/13/2007	Source: Department of Energy
Date Data Arrived at EDR: 12/03/2007	Telephone: 505-845-0011
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 06/16/2008
Number of Days to Update: 52	Next Scheduled EDR Contact: 09/15/2008
	Data Release Frequency: Varies
ODI: Open Dump Inventory An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part Subtitle D Criteria.	
Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation	Illegal Dump Site Locations
A listing of illegal dump sites location on the T County and northern Imperial County, Califor	Forres Martinez Indian Reservation located in eastern Riverside
Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008	Source: EPA, Region 9 Telephone: 415-972-3336
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 06/23/2008
Number of Days to Update: 28	Next Scheduled EDR Contact: 09/22/2008
Number of Days to Optiale, 20	Data Release Frequency: Varies
MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 02/07/2008	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 03/26/2008	Telephone: 303-231-5959
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 06/25/2008
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/22/2008
	Data Release Frequency: Semi-Annually
TRIS: Toxic Chemical Release Inventory System	fies facilities which release toxic chemicals to the air, water and
Toxic Release Inventory System. TRIS Identi	

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, wate land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 08/11/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27 Source: EPA/Office of Prevention, Pesticides and Toxic Substances Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/11/2008	Source: EPA
Date Data Arrived at EDR: 04/24/2008	Telephone: 202-566-1667
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 06/16/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/15/2008
- •	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007 Date Data Arrived at EDR: 02/07/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 39 Source: EPA Telephone: 202-566-0500 Last EDR Contact: 08/07/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/22/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

### **RADINFO: Radiation Information Database**

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/29/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/01/2008	Telephone: 202-343-9775
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 07/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/08/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 28 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007 Number of Days to Update: 38 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/11/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Biennially

## STATE AND LOCAL RECORDS

### SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

### SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 06/18/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 33 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Semi-Annually

HIST LF: Historical Landfills This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.		
Date of Government Version: 05/01/2003 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006 Number of Days to Update: 32	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: No Update Planned	
	B193: SB193 Branch Site Inventory List The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.	
Date of Government Version: 09/05/2006 Date Data Arrived at EDR: 09/13/2006 Date Made Active in Reports: 10/18/2006 Number of Days to Update: 35	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/04/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: No Update Planned	
UST: Underground Storage Tank Database Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recove Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.		
Date of Government Version: 04/14/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly	
ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls.		
Date of Government Version: 04/18/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies	
INST CONTROL: State Superfund Database A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.		
Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies	
VCP: Voluntary Cleanup Program Sites Sites that have been accepted into the Volunt	ary Cleanup Program or have submitted an application.	
Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Bolcaso Ergunacy: Varies	

Data Release Frequency: Varies

# DRYCLEANERS: Drycleaner Listing

A listing of drycleaner facility locations.

Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 10 Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

Source: Division of Compliance Assistance

Next Scheduled EDR Contact: 11/10/2008

Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

Next Scheduled EDR Contact: 09/01/2008

Source: Department of Environmental Protection

# BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Telephone: 502-564-0323 Last EDR Contact: 08/12/2008

Telephone: 502-564-6716

Telephone: 502-564-3410

Last EDR Contact: 06/02/2008

Data Release Frequency: Varies

Last EDR Contact: 06/03/2008

Data Release Frequency: Varies

Date of Government Version: 05/13/2008 Date Data Arrived at EDR: 05/13/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 6

CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

> Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31

# NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities.

Date of Government Version: 06/20/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 24

AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities.

> Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 27

Source: Department of Environmental Protection Telephone: 502-573-3382

Source: Department of Environmental Protection

Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

# PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 05/07/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 12 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/05/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Quarterly

LEAD: Environmental Lead Program Report Tracking Database Lead Report Tracking Database		
Date of Government Version: 10/26/2007 Date Data Arrived at EDR: 01/07/2008 Date Made Active in Reports: 01/25/2008 Number of Days to Update: 18	Source: Department of Public Health Telephone: 502-564-4537 Last EDR Contact: 07/03/2008 Next Scheduled EDR Contact: 09/01/2008	
TRIBAL RECORDS	Data Release Frequency: Varies	
INDIAN RESERV: Indian Reservations This map layer portrays Indian administered lar than 640 acres.	nds of the United States that have any area equal to or greater	
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 34	Source: USGS Telephone: 202-208-3710 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually	
INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.		
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 05/30/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 70	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
INDIAN LUST R9: Leaking Underground Storage Ta LUSTs on Indian land in Arizona, California, Ne		
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
INDIAN LUST R8: Leaking Underground Storage Ta LUSTs on Indian land in Colorado, Montana, N	anks on Indian Land lorth Dakota, South Dakota, Utah and Wyoming.	
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
INDIAN LUST R7: Leaking Underground Storage Ta LUSTs on Indian land in Iowa, Kansas, and Ne		
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies	
INDIAN LUST R4: Leaking Underground Storage Ta LUSTs on Indian land in Florida, Mississippi an		
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually	

Date of Government Version: 03/12/2008	Source: EPA Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies
NDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 06/16/2008	Source: EPA Region 6
Date Data Arrived at EDR: 06/16/2008	Telephone: 214-665-6597
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
NDIAN UST R1: Underground Storage Tanks on A listing of underground storage tank location	
Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008
Number of Days to Update: 6	Data Release Frequency: Varies
NDIAN UST R4: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-9424
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
NDIAN UST R5: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 12/21/2007	Source: EPA Region 5
Date Data Arrived at EDR: 12/21/2007	Telephone: 312-886-6136
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
NDIAN UST R6: Underground Storage Tanks on No description is available for this data	
·	Courses EDA Bogia - C
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008	Source: EPA Region 6 Telephone: 214-665-7591
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Semi-Annually
NDIAN UST R7: Underground Storage Tanks on	Indian Land
No description is available for this data	
	Source: EPA Region 7
Date of Government Version: 06/01/2007	
Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007	Telephone: 913-551-7003
Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/18/2008
Date Data Arrived at EDR: 06/14/2007	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008
Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007	Last EDR Contact: 08/18/2008

INDIAN UST R8: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R9: Underground Storage Tanks on No description is available for this data	n Indian Land
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks on No description is available for this data	on Indian Land
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 42	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN VCP R1: Voluntary Cleanup Priority Listin A listing of voluntary cleanup priority sites lo	
Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
INDIAN VCP R7: Voluntary Cleanup Priority Lisite A listing of voluntary cleanup priority sites lo	
Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008

#### EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Data Release Frequency: Varies

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

	transporters to a tsd facility.	
	Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007 Number of Days to Update: 66	Source: Department of Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/13/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
NJ I	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually
NY	MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks ha facility.	zardous waste from the generator through transporters to a TSD
	Date of Government Version: 05/27/2008 Date Data Arrived at EDR: 05/29/2008 Date Made Active in Reports: 07/10/2008 Number of Days to Update: 42	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 05/29/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Annually
PA	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/10/2008 Number of Days to Update: 20	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
RIN	ANIFEST: Manifest information Hazardous waste manifest information	
	Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008 Number of Days to Update: 65	Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually
WI	MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 04/27/2007 Date Made Active in Reports: 06/08/2007 Number of Days to Update: 42	Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

- Source: PennWell Corporation
- Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided

on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its

fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity Sensitive Receptors: to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals: Source: American Hospital Association, Inc. Telephone: 312-280-5991 The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing Source: Centers for Medicare & Medicaid Services Telephone: 410-786-3000 A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services. Nursina Homes Source: National Institutes of Health Telephone: 301-594-6248 Information on Medicare and Medicaid certified nursing homes in the United States. Public Schools Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states. Private Schools Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on private school locations in the United States. Daycare Centers: Certified Child Care Homes Source: Cabinet for Families & Children Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### STREET AND ADDRESS INFORMATION

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# **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

#### TARGET PROPERTY ADDRESS

KENTUCKY UTILITIES CO. - EW BROWN 815 DIX DAM ROAD HARRODSBURG, KY 40330

#### TARGET PROPERTY COORDINATES

Latitude (North):	37.79101 - 37° 47' 27.6"
Longitude (West):	84.72142 - 84° 43' 17.1"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	700637.9
UTM Y (Meters):	4184867.8
Elevation:	901 ft. above sea level

#### USGS TOPOGRAPHIC MAP

Target Property Map:	37084-G6 WILMORE, KY
Most Recent Revision:	1979

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

#### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

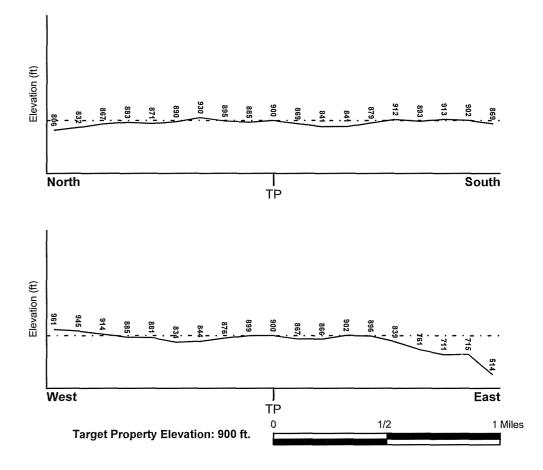
#### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### FEMA FLOOD ZONE

Target Property County MERCER, KY	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2103060100B
Additional Panels in search area:	Not Reported
NATIONAL WETLAND INVENTORY	NWI Electronic
NWI Quad at Target Property WILMORE	Data Coverage Not Available

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

#### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

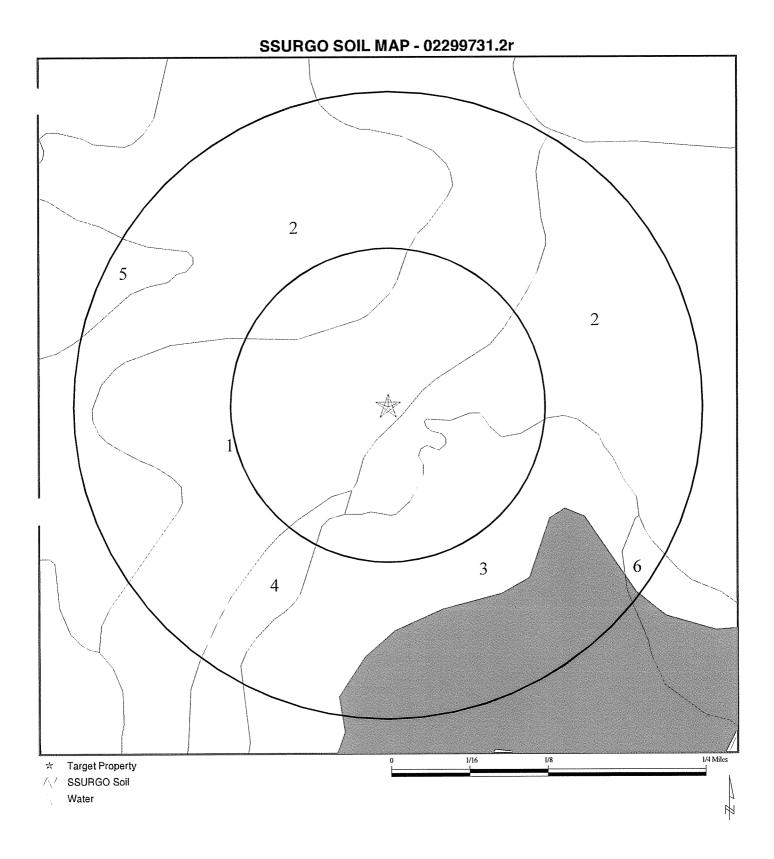
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

#### **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovician		-
Series:	Middle Ordovician (Mohawkian)		
Code:	O2 (decoded above as Era, System &	Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



SITE NAME: Kentucky Utilities Co EW Brown	CLIENT: ENSR Consulting & Engineering
ADDRESS: 815 Dix Dam Road	CONTACT: Dianne Donovan
Harrodsburg KY 40330	INQUIRY #: 02299731.2r
LAT/LONG: 37.7910 / 84.7214	DATE: August 20, 2008 2:45 pm

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name:	Fairmount
Soil Surface Texture:	flaggy silty clay loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 36 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	14 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	14 inches	18 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2	
Soil Component Name:	McAfee
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel	High
Depth to Bedrock Min:	> 76 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper Lower		Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	9 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3	
Soil Component Name:	Water
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained

Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches
No. Lover Information available	

No Layer Information available.

#### Soil Map ID: 4

Soil Component Name:	Fairmount
Soil Surface Texture:	flaggy silty clay loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	14 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	14 inches	18 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5	
Soil Component Name:	Maury
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
Boundary				Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
2	9 inches	26 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
3	26 inches	48 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5
4	48 inches	79 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 14.11 Min: 4.23	Max: 6 Min: 4.5

Soil Map ID: 6	
Soil Component Name:	Pits, quarries
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches
No Layer Information available.	

#### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

#### WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
2	KY0842839	1/2 - 1 Mile SE

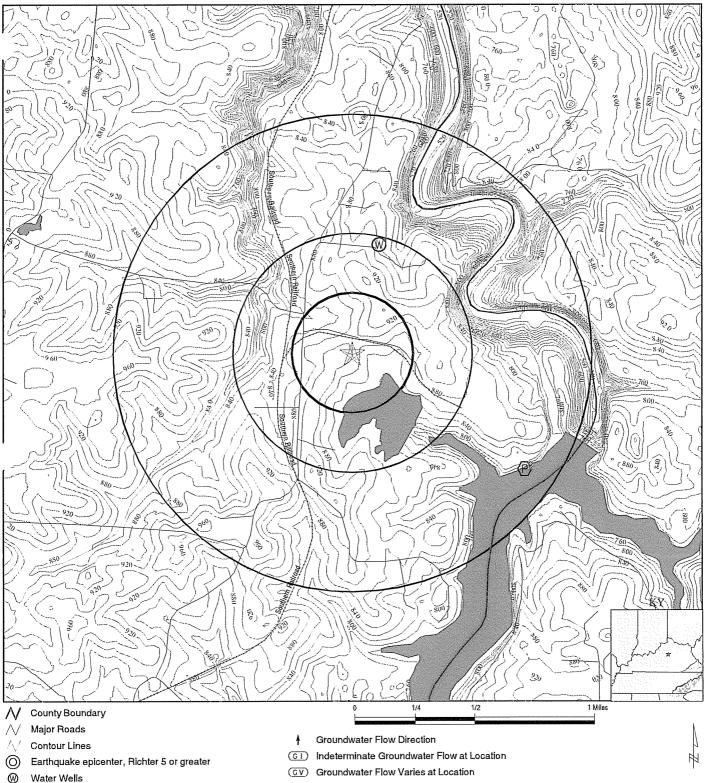
Note: PWS System location is not always the same as well location.

#### STATE DATABASE WELL INFORMATION

MAP	ID
1	

WELL ID KY3000000048019 LOCATION FROM TP 1/4 - 1/2 Mile NNE

## PHYSICAL SETTING SOURCE MAP - 02299731.2r



Oil, gas or related wells

SITE NAME:	Kentucky Utilities Co EW Brown 815 Dix Dam Road
ADDRESS:	815 Dix Ďam Road
	Harrodsburg KY 40330
LAT/LONG:	37.7910 / 84.7214

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Public Water Supply Wells Cluster of Multiple Icons

# **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Distance Elevation	ala a daga sa sang sang sang sang sang sang san		a Mala yanga Kasalan kasigi sudu tu suru yutu yutu yutu su suru s	Database	EDR ID Number
INE /4 - 1/2 Mile .ower				KY WELLS	KY3000000048019
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	33290 37.79758 -84.71939 00020031 Unknown KY3000000048019	Site typ Constru		Water Well 11/23/1987 00:00:00	)
E /2 - 1 Mile ower				FRDS PWS	KY0842839
PWS ID: Date Initiated: PWS Name:	KY0842839 7901 K U/E W BROWN ST TAMARA LAY CURDSVILLE ROAD BURGIN, KY 403100		Active Not Reported		
Addressee / Facility:	Not Reported				
Facility Latitude: City Served:	37 47 02 BURGIN		Facility Longitude:	084 42 30	
Treatment Class:	Treated		Population:	00000214	
PWS currently has or had	l major violation(s) or en	forcement:	YES		
IOLATIONS INFORMATIO	DN:				
Violation ID: Vio. beginning Date: Num required Samples: Analysis Result: Analysis Method: Violation Type: Contaminant: Vio. Awareness Date:	9464034 04/01/94 000 Not Reported Not Reported Monitoring, Regular NITRATE 072194	Source ID: Vio. end Date: Number of Sample Maximum Contarr			t Reported 3 Months
INFORCEMENT INFORMA	TION:				
System Name: Violation Type: Contaminant: Compliance Period:	K U/E W BROWN ST Monitoring, Regular NITRATE 1994-04-01 - 1994-06				

#### GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

#### AREA RADON INFORMATION

Federal EPA Radon Zone for MERCER County: 1

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 40330

#### Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.350 pCi/L	50%	50%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.440 pCi/L	80%	20%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems Source: EPA/Office of Drinking Water Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey Telephone: 859-257-5500 Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

#### OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

#### RADON

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### STREET AND ADDRESS INFORMATION

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# **Attachment to Question No. 30**

5 of 8

Voyles

Prepared for: E.ON U.S., LLC Louisville, KY



# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for Ghent Generating Station Ghent, Kentucky

ENSR Corporation September 12, 2008 Document No.: 12267-006-0007

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Celestine Wood

Prepared By Celestine D. Wood Staff Specialist

Reviewed By Russell G. Turner Compliance Group Section Manager

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# 1.0 Introduction

### 1.1 Purpose

E.ON U.S., LLC (E.ON) requested ENSR Corporation (ENSR) to perform a Desktop Phase I environmental site assessment (ESA) to identify recognized environmental conditions (RECs) at the Ghent Generating Station located in Ghent, Carroll County, Kentucky (hereinafter referred to as the "subject property"). ENSR received authorization to perform the Phase I ESA on August 15, 2008. ENSR representative Ms. Celestine Wood, Staff Specialist conducted the desktop ESA between August 18, 2008 and September 19, 2008.

#### 1.2 Scope-of-work

This assessment has been performed in accordance with ENSR's Proposal number 12267-A12, dated August 14, 2008. Tasks performed by ENSR as a part of the Desktop Phase I ESA are described in the proposal.

This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. Upon receipt of your comments, the draft report will be finalized. However, this Phase I ESA is limited by the practice and is not an exhaustive research of the subject property and surrounding area.

## 1.3 Study limitations

This report describes the results of ENSR's due diligence assessment to identify the presence of environmental liabilities materially affecting the subject property utilizing publicly available, practically reviewable and reasonably ascertainable information.

In the conduct of this due diligence investigation, ENSR has attempted to independently assess the presence of such liabilities within the limits of the established scope of work as described in our proposal. As with any due diligence evaluation, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable through visual observations or supported by any available written documentation. ENSR shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by ENSR in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of ENSR's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report, including all supporting field data and notes (collectively referred to hereinafter as "information"), was prepared or collected by ENSR for the benefit of its client, E.ON U.S. LLC (E.ON). The information may be released to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall create no rights, obligations, or liabilities on the part of ENSR with respect to any such party. The information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should ENSR be required to review the report after six (6) months from its date of submission, ENSR shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the client.

# 2.0 Site description

#### 2.1 Location

The subject property is located on the southern shore of the Ohio River northeast of the town of Ghent, Carroll County, Kentucky on Highway 42. The surrounding area consists of a mixed rural and residential area. Access to the subject property is provided from off of Highway 42 onto the subject property. The subject property consists of 1,685 acres.

Figure 1 provides a site location map for the subject property.

#### 2.2 Current use of the subject property

The plant consists of four coal-fired generating units with a net generating capacity of 2,000 megawatts. Each generating unit has a generating capacity of 520 MW. The plant began commercial operation in 1973.

The majority of waters serving the plant are withdrawn from two intake structures located in the Ohio River. Cooling water is recycled through the use of mechanical draft cooling towers. These were constructed to minimize the thermal effects of cooling waters on the Ohio River.

The Ohio River is used for navigation, commercial and recreational fishing and boating. No surface water intakes for public drinking water supply are present along the Ohio River within 15 miles of the plant.

The plant generates several wastes which are "exempt" under 40 CFR Part 261.4. These non-hazardous special wastes include fly ash, bottom ash, boiler slag, and flue gas desulfurization (FGD solid by-products (gypsum). The coal ash wastes are disposed of and treated in a series of large on-site surface impoundments (ash treatment basins-ATB) and are then discharged into the Ohio River according to a KPDES permit. Gypsum is slurried to a gypsum water recovery and treatment facility (GWRTF); nearly all of the gypsum produced is marketed to a nearby wallboard manufacturer. The waste waters then go to a smaller treatment pond and are discharged into the Ohio River according to a KPDES permit. A significant amount of water is recycled from both surface impoundments. The upper #2 ATB covers 150 acres while the lower #1 ATB covers 118 acres with a life expectancy of the ash treatment basin system of 25 years.

Sanitary wastes are treated in a septic tank and lateral fields.

Internal boiler tube surfaces are cleaned as needed to remove scale build-up from water deposition. Nonhazardous chelating solvents are used and are disposed of by evaporation in an operating boiler. TCLP tests are conducted to ensure that these wastes are non-hazardous; if test results show any particular batch of these wastes to be hazardous, then they are appropriately shipped off-site for disposal.

Turbine oil rooms are built to confine any oil spill. Transformers are surrounded with course gravel so as to allow for the accumulation of the oil immediately adjacent to the transformer should a leak occur. All bulk oil storage tanks are bermed to contain any leak or spill. To prevent spills and/or accidental releases, the facilities have been designed or modified to comply with existing state and federal regulations.

Transformer/Rectifier sets on the electrostatic precipitators as well as ground neutral and lighting transformers that contain regulated levels of PCBs have been removed from service, disposed of, and replaced with NON-PCB units.

Below is a table providing the material inventory and tank listing for the petroleum (fuel, non-fuel and electrical equipment storage) containing tanks.

Material	Maximum gallons	Location/Comments
#2 Fuel Oil	525,000	Main Fuel Oil Storage Tank Outside, steel Aboveground Storage Tank (AST), east of Unit 1, concrete bermed (& retaining wall), valved area drain to oil/water (O/W) separator
#2 Fuel Oil	100,000	<i>Units 1-2 Fuel Oil Tank</i> Outside, steel AST, east of Unit 1, earthen berm, valved area drain to O/W separator
#2 Fuel Oil	20,000	<i>Units 3-4 Fuel Oil Tank</i> Outside, steel AST, east Unit 3 ESP & west of Unit 1 FGD, concrete bermed, valved area drain to O/W separator
Diesel Fuel	10,000	<i>Coalyard Mobile Equipment Fuel Tank</i> Underground storage tank, single-wall fiberglass, coalyard-adjacent to 3G conveyor, leak detection by SIR + tank tightness testing
Diesel Fuel	500 500 500	<i>Units 1 &amp; 2 Emergency Generators &amp; Fire Pump Fuel Tanks</i> Outside, steel double-wall ASTs, areas drains to O/W separator, adjacent Unit 1 cooling tower, Unit 1 FD fans, Unit 2 ID fans
Diesel Fuel	150 150	Unit 3 & 4 Emergency Generators Fuel Tanks Inside, steel double-wall ASTs, areas drain to O/W separator NW corner Unit 3 basement & SW corner of Unit 4 basement
Diesel Fuel Diesel Fuel	500 500	Outside, steel skid-mounted ASTs (contractors'), within Unit 1 east chemical-clean spill pad, concrete bermed & valved area drain
Kerosene	500 500 250 150	Outside, Steel Skid-Mounted ASTs, (including contractors' 500 gal & 250 gal) within Unit 1 east chemical-clean spill pad, concrete bermed & valved area drain
Unleaded Gasoline Diesel Fuel	1,000 1,000	<i>Mobile Equipment Refueling Station</i> Outside, steel double-wall ASTs, east of warehouse #3, concrete retaining wall on three sides, vehicle area depressed & sloped to drain to O/W separator
Turbine Oil (Chevron GST-32)	15,000	Inside, Unit 1&2 main bldg., steel AST, bermed room, Clean Oil tank, ground floor Turbine Oil Storage Room
Turbine Oil	15,000	Inside, Unit 1&2 main bldg., steel AST, bermed room, Dirty Oil Tank, ground floor Turbine Oil Storage Room
Turbine Oil	330 (6 drums)	Inside, Unit 1&2 main bldg., steel drums, bermed room, Clean Oil make-up, ground floor Turbine Oil Storage Room

Material	Maximum gallons	Location/Comments
Turbine Oil (mixed grades)	165 (3 drums)	Inside, Unit 1&2 main bldg., steel drums, drains to oil/water separator, misc. maintenance, ground floor Oil Storage Room
Gear Compound (mixed grades)	330 (6 drums)	Same
EH Fluid	165 (3 drums)	Same
Machine Oil (mixed grades)	550 (10 drums)	Same
Motor Oil (Synthetic 30W)	55 (1 drum)	Same
Anti-Freeze (Ethylene Glycol)	110 (2 drums)	Same
Turbine Oil	11,500	Inside, Unit 1, 2 <sup>nd</sup> floor, main turbine oil reservoir
Turbine Oil	1,800	Inside, Unit 1, ground floor, boiler feed pump turbine oil reservoirs (2 @ 900)
Turbine Oil	350	Inside, Unit 1, ground floor, hydrogen seal oil reservoir
Turbine Oil	360	Outside, Unit 1, outside, ID Fan lube oil reservoirs (2 @ 180 gal)
Turbine Oil	11,500	Inside, Unit 2, 2 <sup>nd</sup> floor, main turbine oil reservoir
Turbine Oil	2,000	Inside, Unit 2, ground floor, boiler feed pump turbine oil reservoirs (2 @ 1000)
Turbine Oil	605	Inside, Unit 2, ground floor, hydrogen seal oil reservoir
EH Fluid	165	Inside, Unit 1, ground floor, Electro-Hydraulic control system reservoir
EH Fluid	375	Inside, Unit 2, ground floor, Electro-Hydraulic controls system reservoir
Gear Oil	2250	Inside, Unit 1, ground floor, coal mills gear boxes (6@375 gal)
Gear Oil	2250	Inside, Unit 2, ground floor, coal mills gear boxes (6@375 gal)
Turbine Oil	15,000	Inside, Unit 3 service Bldg., steel AST, bermed room, Dirty Oil Tank, Ground floor Turbine Oil Storage Room

.

Material	Maximum gallons	Location/Comments
Turbine Oil	330 (6 drums)	Inside, Unit 3 Service Bldg., steel drums, bermed room, Clean Oil Make- up, ground floor Turbine Oil Storage Room
Turbine Oil (mixed grades)	165 (3 drums)	Inside, Unit 3&4 Main Bldg., steel drums, drains to oil/water separator, misc. maintenance, ground floor Oil Storage Room
Turbine Oil (Chevron GST-32)	15,000	Inside, Unit 3 service Bldg., steel AST, bermed room, Clean Oil Tank, ground floor Turbine Oil Storage Room
Gear Compound (mixed grades)	330 (10 drums)	Same
EH Fluid	165 (3 drums)	Same
Machine Oil (mixed grades)	550 (10 drums)	Same
Motor Oil (Synthetic 30W)	55 (1 drum)	Same
Anti-Freeze (Ethylene Glycol)	110 (2 drums)	Same
Turbine Oil	11,500	Inside, Unit 3, 2 <sup>nd</sup> floor, main turbine oil reservoir
Turbine Oil	1,400	Inside, Unit 3, ground floor, boiler feed pump turbine oil reservoirs (2 @ 900)
Turbine Oil	605	Inside, Unit 3, ground floor, hydrogen seal oil reservoir
Turbine Oil	550	Outside, Unit 3, outside, ID Fan lube oil reservoirs (2 @ 275gal)
Turbine Oil	11,500	Inside, Unit 4, 2 <sup>nd</sup> floor, main turbine oil reservoir
Turbine Oil	1,400	Inside, Unit 4, ground floor, boiler feed pump turbine oil reservoirs (2 @ 1000)
Turbine Oil	605	Inside, Unit 4, ground floor, hydrogen seal oil reservoir
Turbine Oil	550	Outside, Unit 4, outside, ID Fan lube oil reservoirs (2 @ 275gal/ea)
EH Fluid	375	Inside, Unit 3, ground floor, Electro-Hydraulic control system reservoir

Material	Maximum gallons	Location/Comments
EH Fluid	375	Inside, Unit 4, ground floor, Electro-Hydraulic controls system reservoir
Gear Oil	2250	Inside, Unit 3, ground floor, coal mills gear boxes (6@375/ea)
Gear Oil	1650	Inside, Unit 4, ground floor, coal mills gear boxes (6@375/ea)
Gear Compound (mixed grades)	550 (10 drums)	Inside, steel drums, bermed room, drains to O/W separator, maintenance area Oil Storage Room
Machine Oil (mixed grades)	165 (3 drums)	Same
Motor Oil (Synthetic 30W)	110 (2 drums)	Same
Hydraulic Fluid	55 (1 drum)	Same
Lubricating Oil	250	Inside, steel ASTs, Ball Mill Lubricating System Reservoirs (2@125 gal/ea)
Grease/Gear lube	55	Inside, steel drum portable dispenser
Motor Oil 30W	600	Inside, steel AST, bermed oil storage room
Hydraulic Oil	550	Same
Gear Compound	630	Same
Degreaser Fluid	55	Same
Anti-Freeze (ethylene glycol)	165 (3 drums)	Same (2 drums for mobile equipment, 1 drum for coal belt de-icing)
Motor Oil 15W40	220 (4 drums)	Same
Johnson Wax Pressure Wash	140	Inside, steel drums, maintenance bay area
Anti-Freeze	500	Outside, poly-AST, transfer house #5 concrete pad (gravel surrounded).
Anti-Freeze	500	Inside, poly-AST, transfer house #2.

Material	Maximum gallons	Location/Comments
Anti-Freeze	500	Outside, poly-AST, adjacent to reclaim hopper #2.
Anti-Freeze	1,000 55	Inside, steel AST, within coal silo base enclosure.
Conveyor belt lubricant- dressing	55	Outside, steel drum, adjacent to transfer house #1.
Sodium Hydroxide (50%)	10,000 gal. 450 gal. (semi-bulk)	Inside, steel AST, main building ground floor, concrete berm, drains to a sump & pumped to ATB Temporary semi-bulk during maintenance, adjacent DM unit (inside)
Sulfuric Acid (66 °Be)	EMPTY (10,000 gal.) 450 gal. (semi-bulk)	EMPTY (not used) outside, steel AST, adjacent-east of Unit 1, concrete berm, valved drain Semi-bulk inside, adjacent DM Unit 2
Material	Maximum Amount	Location/Comments
Di-Sodium Phosphate (DSP) <i>Optisperse HP9420</i> ( <i>Powerline 1302</i> )	3,000 lbs.	Inside main building on ground floor, chemical storage room. Floor drains are routed to a sump which drains to ash retention basin and one barrel next to day tank.
Tri-Sodium Phosphate (TSP) <i>Optisperse HP9430</i> (Powerline 1303)	5,000 lbs.	Inside main building on ground floor, chemical storage room. Floor drains are routed to a sump which drains to ash retention basin.
Cyclohexylamine Steamate PWR2040 (Powerline 1400PD)	375 gal. (1,500 gal.)	Inside, not currently used (1/4 remaining), main building on ground floor, area is secured with a concrete retaining wall and drains to a sump which pumps to the ash retention basin.
Hydrazine Cortrol OS5035	250 gal. 250 gal.	Semi-bulks. Inside main building on ground floor near chemical day tanks. Floor drains are routed to a sump which discharges to the ash treatment basin.

Material	Maximum gallons	Location/Comments
Hydroquinone Powerline 1200	EMPTY (1500 gal.)	Inside, unused steel AST, main building on ground floor, area is secured with a concrete retaining wall and drains to a sump which pumps to the ash retention basin.
Molybdate Corrshield MD4100 (Powerline 3200)	500 gal.	Inside main building, ground floor, chemical storage room. Floor drains are routed to a sump which pumps to the ash retention basin.
Sodium Hypochlorite (10%)	300 gal.	Inside main building, ground floor chemical storage room. Floor drains are routed to a sump which pumps to the ash treatment basin.
Calcium Hypochlorite	500 lbs.	Sewage treatment building. Area is bermed and drains to a sump which is pumped to ash retention basin.
HEDP Depositrol BL5303 (Powerline KUG02)	3,000 gal.	Chemical treatment building south of the Unit 2 cooling tower.
Sodium Pyrophosphate FLOGARD MS6201 (Powerline KUG03)	4,000 gal.	Chemical treatment building south of the Unit 2 cooling tower.
Sodium Hydroxide (50%)	12,000	Inside services building on 2nd floor, area is bermed to contain entire tank volume or can be drained to demineralizer sump which pumps to ash retention basin.
Sulfuric Acid (66 °Be)	12,000 gal.	Inside services building on 2nd floor, area is bermed to contain entire tank volume or can be drained to demineralizer sump which pumps to ash retention basin.
Sulfuric Acid (66 °Be)	40,000 gal.	Outside at chemical treatment bldg. near U-3 cooling tower. Area is bermed to contain entire tank volume.
Di-Sodium Phosphate (DSP) <i>Optisperse HP9420</i> (Powerline 1302)	3,000 lbs.	Inside chemical storeroom on north side of Unit 2 ground floor and a drum by day tank.
Tri-Sodium Phosphate (TSP) <i>Optisperse HP9430</i> (Powerline 1303)	5,000 lbs.	Inside chemical storeroom on north side of Unit 2 ground floor.

Material	Maximum gallons	Location/Comments
Cyclohexylamine Steamate PWR2040 (Powerline 1400PD)	400 gal (1,500 gal.)	Inside, not currently used (1/4 remaining), Unit 4 main building, ground floor (NW corner), within bermed area, no drain.
Hydrazine Cortrol OS5035	500 gal.	Inside main building on ground floor near chemical day tanks. Floor drains are routed to a sump which discharges to the ash treatment basin.
Hydroquinone Powerline 1200	EMPTY (1500 gal.)	Inside Unit 4 main building, ground floor (NW corner), within bermed area, no drain.
Molybdate Corrshield MD4100 (Powerline 3200)	550 gal.	Inside main building, ground floor, chemical storage room. Floor drains are routed to a sump which pumps to ash retention basin.
Dibromonitrilo- propionamide	100 gal.	50 gallons located in U-3 chemical storeroom & 50 gallons located on 10th floor at U-3 well water tank.
HEDP Depositrol BL5303 (Powerline KUG02)	3,000 gal.	Located in the chemical treatment building south of the Unit 3 cooling tower.
Sodium Pyrophosphate FLOGARD MS6201 (Powerline KUG03)	4,000 gal.	Located in the chemical treatment building south of the Unit 3 cooling tower.
Dibasic Acid (DBA), 50%	13,500 gal.	Outside, aboveground at chemical treatment building (South of Unit 2 cooling tower), concrete berm.
Liquid Fertilizer (ammonium sulfates & nitrates)	40,000 gal.	Outside, steel AST, adjacent Unit 1-2 chemical treatment building & Unit 2 cooling tower, concrete berm, valved drain, AIRBORNE pilot plant production
Sodium Carbonate (solid)	125,000 lbs.	50 x 2500 lb. super sacks, warehoused by coal yard crusher house
Aluminum Sulfate (solid)	15,000 lbs.	50 lb. bags in ash filtration control building (east end of coal yard)
Polymer Klaraid PC2706	450 gal.	Outside, plastic semi-bulk (1 full + 1 empty), located within ash pond #1 berm

## 2.3 Utilities

All waters serving the plant are withdrawn from one intake structure located on the Ohio River. Cooling water is recycled through the use of mechanical draft cooling towers. These were constructed to minimize the effects of cooling waters on the Ohio River.



Sanitary wastes are treated in a septic tank and lateral fields.

Storm water runoff from the areas where raw materials, petroleum products and toxic or hazardous substances are stored or used on the site is routed to pollution control devices (oil/water separator and/or retention ponds) before being discharged to the receiving water. This applies wherever a possibility for contamination exists. The plants' KPDES permit requires identification and calculation of site drainage to nearby waterways.

The subject property obtains power from the generating station for site operations.

# 2.4 Current use of adjoining properties

The following table provides a description of the properties adjacent to the boundaries of the subject property, based on ENSR's review of aerial photographs.

Direction from site	Adjacent land use description	
North	Ohio River and rural residential	
East	Vacant undeveloped land and rural residential	
South	Highway 42 and vacant undeveloped land	
West	Vacant undeveloped land and rural residential	

### Table 2-1 Adjacent Land Use

Based on a review of aerial photographs the land surrounding the facility is characterized by rural residential and vacant undeveloped land.

# 3.0 Records information

# 3.1 Standard environmental records

Standard environmental record sources are defined in Section 8.2.1 of the ASTM standard. These records consist of selected federal and state environmental databases. ASTM also specifies the appropriate search distances from the subject property for which these records should be reviewed. ENSR retained the services of Environmental Data Resources, Inc. (EDR) of Milford, Connecticut to provide specified state and federal regulatory list information for potential sites of environmental concern located at or in the vicinity of the subject property. EDR maintains a computerized Geographic Information System (GIS) listing of various state and federal databases in accordance with the ASTM standard. The database search was based upon ASTM-specified standard record sources. Additionally, databases searched by EDR satisfy records review requirements of the *all appropriate inquiry* rule. EDR includes these databases, when available, as a part of its report. Descriptions of each database are provided in Part GR-1 of the EDR database report (Appendix A). It should be noted that due to the size of the subject property, ENSR extended the search radius an additional mile in addition to the ASTM search distances.

The subject property is located in a rural area, which is primarily undeveloped agricultural property and range land. The subject property was identified in the EDR report. None of the orphan (unmapped) sites listed on the EDR report were identified by ENSR within the vicinity of the subject property.

A variety of federal and state governmental databases were reviewed using EDR. The following federal and state contamination-related databases described in Table3-1 were searched for the area surrounding the subject properties; the various search distances used are also noted.

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
	Federal Databases	
NPL <sup>2</sup>	Existing and proposed Superfund sites on the National Priorities List	2.0
CERCLIS <sup>2</sup>	Abandoned, uncontrolled or inactive hazardous waste sites reported to the U.S. EPA, which have been or are scheduled to be investigated by the U.S. EPA for potential nomination to the NPL.	1.5
RCRIS-TSD <sup>2</sup>	Reported sites that treat, store and/or dispose of hazardous waste and subject to the federal RCRA regulations.	2.0
RCRIS-LQG/SQG <sup>2</sup>	Reported large-quantity generators and small quantity generators of hazardous waste.	1.25
ERNS <sup>2</sup>	Sites reporting spills to the U.S. EPA and/or the U.S. Coast Guard under various federal regulations	target property
FINDS	Facility Index System indicates the presence of a site on another federal database.	target property
PADS	PCB Activity Database System identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required and have notified the EPA of such activities.	target property
RAATS	RCRA Administrative Tracking System contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.	target property

# Table 3-1 Databases Searched and Radii

# ENSR AECOM

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
TRIS	Toxic Chemical Release Inventory System identified facilities who have reported releases of listed toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.	target property
TSCA	Toxic Substances Control Act identified manufacturers and importers of chemical substances by plant site in 1986. No updates of the list have been made by EPA.	target property
HMIRS	Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to the Federal DOT.	target property
NPL Liens	List of liens placed against real property in order for the EPA to recover remedial action expenditures or when the property owner receives notification of potential liability.	target property
CORRACTS	Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.	2.0
ROD	Records of Decision mandating a permanent remedy for a Superfund Site	2.0
MLTS	Material Licensing Tracking System, maintained by the Nuclear Regulatory Commission, contains a list of sites that possess or use radioactive materials and are subject to NRC licensing.	target property
Delisted NPL	Sites removed from the NPL	2.0
Coal Gas	Former manufactured coal gas sites	2.0
	State Databases	
SWHS <sup>2</sup>	State hazardous waste sites	2.0
UST <sup>2</sup>	Sites which have reported underground storage tanks.	1.25
SB193	Sites which have reported leaking underground storage tanks.	1.5
SWF/LF <sup>2</sup>	List of permitted solid waste disposal facilities	1.5
commercial rea	ch distances used equal or exceed those recommended by ASTM for assessing the enviro I estate. h are required to be searched by ASTM.	onmental condition of

ENSR completed an EDR Site Report of the subject property to obtain the information below. The subject property does not appear on the database.

A detailed review of information regarding identified/recognized environmental elements is beyond the scope of this study. However, state and federal environmental laws and regulations suggest that the owners of sites with identified (and unidentified) environmental elements would be responsible for investigative effort or site remediation determined necessary by state or federal regulatory agencies for these conditions.

# 3.2 Additional environmental records

Per Section 8.2.2 of the ASTM standard, local, and/or additional state or tribal sources of environmental records shall be reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed in Section 4.1 of this report. These additional records/sources may include local records such as: lists of waste disposal sites; brownfields sites; lists of hazardous waste/contaminated sites; lists of registered storage tanks; local land records (for activity and use limitations); records of emergency release reports; and records of contaminated public wells. Local sources that may be contacted to obtain this information include: Department of Health/Environmental Division; Fire Department; Planning Department; Building Permit/Inspection Department; Local/Regional Pollution Control Agency, Local/Regional Water Quality Agency, and Local Electric Utility Companies (for records relating to PCBs).

The subject property was not located on or within 1 mile of tribal lands. As a result, tribal records were not researched as a part of this assessment.

Per the ASTM Standard, approximate minimum search distances for additional records sources should not be less than those specified for standard records sources, but can be adjusted at the discretion of the environmental professional. Based on ENSR's observations during the site visit and information provided in the EDR report, no significant environmental concerns were identified associated with the adjacent properties; thus, additional state and local records not included within the EDR report were reviewed for the subject property only.

A table documenting the departments contacted to request environmental information relative to the subject property is included in Section 9. These inquires may have been made in the form of telephone interviews, Freedom of Information Act (FOIA) requests, and/or in person discussions.

The results of these inquiries are summarized in the following table.

Record source	Type of records	Comments
U.S. EPA ECHO database	Environmental compliance history of the subject property	September 30, 2008 – online query According to the database the facility has a Clean Air Act major permit (2104100010), an active minor Clean Water Act permit (KYR104962), a major active Clean Water Act permit (KY0002038), is registered as a RCRA small quantity generator of hazardous waste (KYD085052751). According to the compliance monitoring history for the past five years no compliance issues were listed in the findings section.

### **Table 3-2 Agency Inquiries**

# ENSR AECOM

Record source	Type of records	Comments
U.S. EPA Envirofacts Database	Lists and provides information concerning facility activities subject to federal permitting requirements	September 30, 2008 – online query According to the database, the facility submitted a TRI report for the year 2006. According to the database mercury compounds are transferred to other sites. The following chemicals are released to the air: ammonia, antimony compounds, arsenic compounds, barium compounds, beryllium compounds, chromium compounds, cobalt compounds, chromium compounds, dioxin and dioxin-like compounds, hydrochloric acid, hydrogen fluoride, lead compounds, manganese compounds, polycyclic aromatic compounds, sulfuric acid, thallium compounds, vanadium compounds, vanadium compounds and zinc compounds, vanadium compounds, dioxin compounds, vanadium compounds, arsenic compounds, vanadium compounds, dist compounds, vanadium compounds, arsenic compounds, copper compounds, lead compounds, nickel compounds, thallium compounds, vanadium compounds, cobalt compounds, vanadium compounds, dist compounds, vanadium compounds, dist compounds, vanadium compounds, dist compounds, server compounds, thallium compounds, vanadium compounds, thallium compounds, haricals are released to the surface water: ammonia, antimony compounds, arsenic compounds, chromium compounds, beryllium compounds, chromium compounds, copper compounds, nickel compounds, thallium compounds, vanadium compounds, thallium compounds, vanadium compounds, thallium compounds, vanadium compounds, thallium compounds, vanadium compounds and zinc compounds, vanadium compounds and zinc compounds, vanadium compounds and zinc compounds, vanadium compounds and zinc compounds, vanadium compounds and zinc compounds.
Kentucky Department of Environmental Protection	Freedom of Information Request regarding the subject property's current regulatory status.	September 8, 2008 record request ENSR reviewed the records provided by Mary Hawkins for the air program at the Ghent facility. According to the state of Kentucky the facility has submitted the facility's annual compliance reports for their Title V permit for the years 2005 and 2006. Also according to the state's file, the subject property was issued a Letter of Warning for violations dated on August 6, 2008. Violation number 1, Ghent failed to take reasonable precautions to control airborne particulates as they worked on and around the coal pile. Violation number 2 airborne particulates were observed crossing the property line. KDEP

Record source	Type of records	Comments
		requested that Ghent develop and submit a Corrective Action Plan within 15 days of receipt of this report.
		Kentucky Utilities provided a copy of a letter dated August 15, 2008 addressed to the Kentucky Division for Air Quality with a Corrective Action Plan attached.
		ENSR has requested records regarding the facility's waste and water programs. At the time of this report ENSR has not received the information from the Kentucky DEP.
Ghent Fire Department	Information that may be on file for the subject property, specifically regarding the installation or removal of underground storage tanks (USTs) from the subject property, or spills or releases of oil and/or hazardous/radioactive materials at the site.	September 30, 2008 – phone interview ENSR left a message regarding the fire department information for the subject property. At the time of this report ENSR has not received a call back from the Fire Department.

# 3.3 Physical setting information

The subject property is located in Carroll County, Kentucky, and consists of 1,685 acres of land. The subject property is located northeast of Ghent, Kentucky off of Highway 42, on the south bank of the Ohio River.

According to the USGS Vevay, Kentucky Quadrangle 7.5-Minute Series Topographic map, the elevation of the subject property area is between approximately 450 to 500 feet above mean sea level. The subject property has an elevation change of approximately 50 feet from the Ohio River on the north side of the property to the southern portion of the subject property. Based on topographical information the regional ground would flow to the northwest toward the Ohio River.

Based on a review of the US Department of Agriculture - Soil Conservation Service Soil Survey of Carroll County, Kentucky, the central portion of the subject property is underlain by Lowell silt loam. Lowell has a very slow infiltration rate, high water table and is shallow to an impervious layer. The soil is well drained and has a high corrosion potential. Depth to bedrock is greater than 119 inches. According to the EDR Fairmount soil is not classified as a hydric soil. The eastern and western portions of the subject property are underlain by Lowell silty clay loam.

According to the Federal Emergency Management Agency (FEMA) floodplain information provided in the EDR the northern portions of the subject property are located on the 500 year flood zone (2100450004A).

According to the EDR report (Appendix B), federal area radon information for Carroll County indicates that Mercer County is designated as a "Zone 2" (i.e., counties in which the predicted average indoor radon screening level is greater than or equal to 2 picoCuries per liter [pCi/L], but less than or equal to 4 picoCuries per liter [pCi/L]). EDR reported that 1 site was tested for radon within Carroll County. The average test results indicate levels of radon were 1.500 pCi/L in first floor living areas. The U.S. EPA Guideline for radon in residential dwellings is 4.0 pCi/L. The U.S. EPA does not have a guideline for radon in commercial or industrial buildings.

# ENSR AECOM

# 3.4 Historical use information on the subject property and adjacent sites

Information pertaining to historical uses of the subject property and surrounding area was obtained from the following publicly available and readily reviewable sources:

- Topographic maps: Vevay South, Kentucky Quadrangle (1967, 1980, and 1994);
- Aerial Photographs: 1949, 1978, 1992 and 2005; and

Sanborn Fire Insurance maps were requested from EDR; however, Sanborn Fire Insurance maps were not available for the subject property or the immediately surrounding area.

A chronological history of the subject property and abutting property use is presented in Table 4-3.

Date(s)	Type of Document	Description	Level of Concern
1967	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1980	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings.	None
1994	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings.	None
1949	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1978	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings. The other adjoining property to the south is depicted as undeveloped land.	None
1992 and 2005	Aerial Photographs	Subject property and Abutting properties: The subject property and surrounding properties are developed with rural residential dwellings and buildings. The other adjoining property to the south is depicted as undeveloped land.	None

# Table 3-3 Chronological Historical Subject Property and Abutting Property Use

# 3.5 Previous environmental reports

No previously prepared environmental reports for the subject site were identified by E.ON personnel, or provided for ENSR's review.

ENSR AECOM

# 4.0 Regulatory Considerations

ENSR conducted a review of facility operations to assess its compliance with key local, state and federal environmental regulations. A summary of significant regulatory compliance considerations at the E.ON facility is provided below.

# 4.1 Title V Permitting

The Ghent facility was granted their initial Title V permit application on January 07, 2005. A final revised Title V permit for the Ghent facility was authorized on November 1, 2007. There have been minor revisions to the Title V permit submitted as indicated in the table above. ENSR obtained this data from a search of records through the KDEP Website.

The Title V permit application is authorized for a period of five years from the date of initial issue. The original Title V permit for the Ghent facility expires on October 31, 2012.

# 4.2 Waste Management

According to a 2007 Hazardous Waste Annual Report FORM 1, the Commonwealth of Kentucky Department for Environmental Protection issued the facility EPA identification number KYD-085-052-751. The Ghent facility is currently registered as a small quantity generator of hazardous waste. According to the form the facility is registered to generate the following wastes: D001 (ignitable hazardous waste), D008 (lead), D009 (mercury), D018 (benzene), D035 (methyl ethyl ketone), F001 (spent halogenated solvents and F003 spent non-halogenated solvents).

# 4.3 Emergency Planning and Community Right-to-Know

Facilities that manufacture, use, or store chemicals any hazardous chemical/substance which requires an MSDS be kept on location is required to report these chemicals on an annual basis. The Superfund Amendments and Reauthorization Act (SARA) Section 312 outlines the requirements for companies that store chemicals at their location. This report is commonly known as the Tier Two Report. ENSR reviewed the 2005, 2006 and 2007 Tier Two Report for the Ghent facility. The facility filed a Tier Two Report due to the storage of the following chemicals: sodium hydroxide, sulfuric acid, turbine oil, diesel fuel oil #2, phosphonic acid, cyclohexylamine, hydrazine, ethylene glycol, DBA DiBasic Acid, sodium carbonate (soda ash), anhydrous ammonia, BetzDearborn FLOGARD, styrene vinyl ester resin solution, propane, and acetone.

SARA Section 313 outlines the requirements for reporting releases at facilities that manufacture, store, and/or use chemicals regulated under these regulations. This form is commonly known as the Toxic Release Inventory (TRI) Form R. ENSR reviewed the 2005, 2006 and 2007 TRI reports, for the Ghent facility which appeared complete.

# 4.4 Spill Prevention, Control & Countermeasure (SPCC) Plan

Facilities that engage in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to their location, could reasonably be expected to discharge oil in quantities that may be harmful, are regulated under 40 C.F.R. § 112. If the aggregate aboveground storage capacity of the facility is more than 1,320 gallons (only containers of oil with a capacity of 55 gallons or greater are counted), the facility is required to prepare and implement a Spill Prevention, Control and Countermeasure (SPCC) Plan. The current plan was dated July 2003, and it was certified on May 14, 2007. SPCC regulations require engineer certification every 5 years.



# 4.5 Wastewater and Storm Water

On-site wastewater generation consists of six permitted discharge outfalls to the Ohio River and the ash pond. The facility is permitted (permit number KY0002038 by the Kentucky Department for Environmental Protection for these discharges. Outfall 001 is a combined discharge from the ash treatment basin metal cleaning wastes and precipitation. Outfalls 002 and 003 are discharge from cooling tower blowdown, backwash waters, and precipitation. Outfalls 004, 005, and 006 are internal outfalls to the ash pond for sanitary wastewater, metal cleaning waste, and cooling tower blowdown discharges respectively. Outfall 007 is the water intake point from the Ohio River.

ENSR reviewed the Discharge Monitoring Reports (DMR) for Outfalls 001 through 007 for February of 2007. No exceedences of the permit levels were detected.

# 5.0 Findings and opinion

ENSR performed a Desktop Phase I ESA of the Ghent facility located on the southern shore of the Ohio River northeast of the town of Ghent, Carroll County, Kentucky on Highway 42 to identify environmental concerns associated with the property. This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. As required the report will include ENSR's opinion on the need for additional investigations, data gaps, and ENSR's opinion of the significance of the data gaps. Upon receipt of your comments, the draft report will be finalized. However, the scope of a Phase I ESA is limited by the practice and is not an exhaustive research of the subject property and surrounding area. ENSR will provide recommendations, should conditions suggesting the need for additional study be observed.

# 5.1 Environmental Concerns

<u>NOV</u>: According to the Commonwealth of Kentucky the subject property experienced two violations on July 25, 2008. Violation number 1, Ghent failed to take reasonable precautions to control airborne particulates as they worked on and around the coal pile. Violation number 2 airborne particulates were observed crossing the property line. KDEP requested that Ghent develop and submit a Corrective Action Plan within 15 days of receipt of this report. Kentucky Utilities provided a copy of a letter dated August 15, 2008 addressed to the Kentucky Division for Air Quality with a Corrective Action Plan attached.

ENSR AECOM

# 6.0 References and contacts

# 6.1 Persons interviewed

Hawkins, Mary, Commonwealth of Kentucky, Department for Environmental Protection, Division for Air Quality, 502-564-3999.

Department Representative, Ghent Ridge Fire Department, PO Box 306, Ghent, KY.

Voyles, John, E.ON, Vice President, Transmission & Generation Services, john.voyles@eon-us.com.

# 6.2 Reports and documents reviewed

ASTM 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

Aerial Photographs dated 1949, 1978, 1992, and 2005; US obtained from Environmental Data Resources, Inc., Southport, CT.

EDR-Radius Map with Geocheck®, Kentucky Utilities Co. - Ghent, PO Box 338, Ghent, KY 41045.

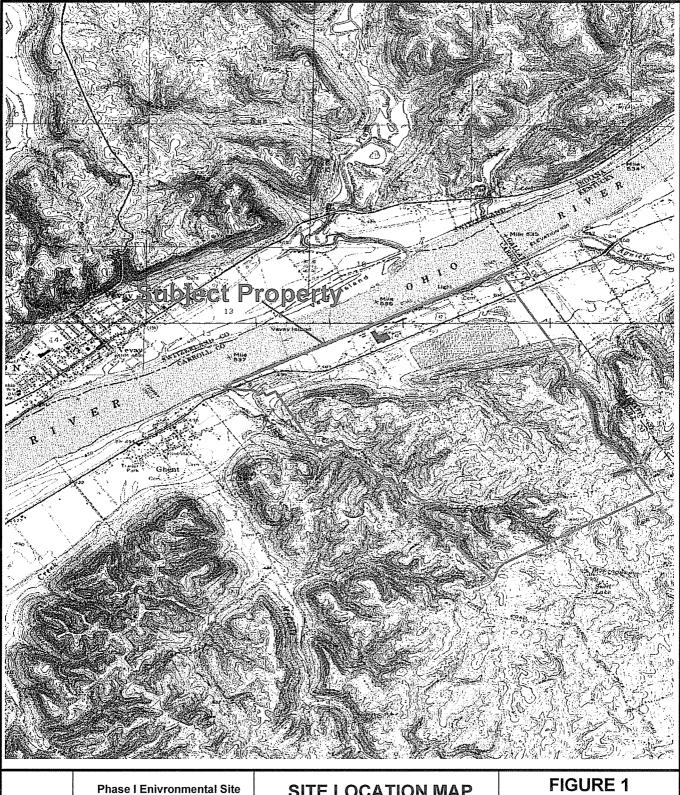
Facility files, Kentucky Utilities Co. - Ghent, PO Box 338, Ghent, KY 41045

Risk Management Plan, Ghent Station, November 2003.

Best Management Practices and Spill Prevention, Control, and Countermeasure Plan, Ghent Generating Station, July 2003.



Figures



Assessment USGS Quadrangle: Vevay North, IN

Vevay South, IN Scale: 1:40,000 SITE LOCATION MAP

FIGURE 1

ENSR AECOM

ECON U.S. LLC Ghent Carroll County, Kentucky

September 2008 Project No. 12267-006-0007

ENSR AECOM

Appendix A

**EDR Report** 

Kentucky Utilities Co. - Ghent PO Box 338 Ghent, KY 41045

Inquiry Number: 02300855.2r August 21, 2008

# The EDR Radius Map<sup>™</sup> Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

### ADDRESS

PO BOX 338 GHENT, KY 41045

### COORDINATES

Latitude (North):	38.738100 - 38° 44' 17.2"
Longitude (West):	85.025390 - 85° 1' 31.4"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	671625.3
UTM Y (Meters):	4289357.5
Elevation:	754 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	38085-F1 VEVAY SOUTH, KY
Most Recent Revision:	1994
North Map:	38085-G1 VEVAY NORTH, IN
Most Recent Revision:	1994

### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

# DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	_ National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	CERCLIS No Further Remedial Action Planned
LIENS 2	CERCLA Lien Information

CORRACTS.	
	RCRA - Transporters, Storage and Disposal
	RCRA - Large Quantity Generators
	RCRA - Small Quantity Generators
	RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen	
US ENG CONTROLS	_ Engineering Controls Sites List
US INST CONTROL	. Sites with Institutional Controls
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
DOT OPS	Incident and Accident Data
US CDL	_, Clandestine Drug Labs
US BROWNFIELDS	A Listing of Brownfields Sites
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
	. FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	_, PCB Activity Database System
	, Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

### TRIBAL RECORDS

INDIAN RESERV...... Indian Reservations

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land INDIAN UST..... Underground Storage Tanks on Indian Land INDIAN VCP...... Voluntary Cleanup Priority Listing

### EDR PROPRIETARY RECORDS

Manufactured Gas Plants\_.... EDR Proprietary Manufactured Gas Plants

# SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

Due to poor or inadequate address information, the following sites were not mapped:

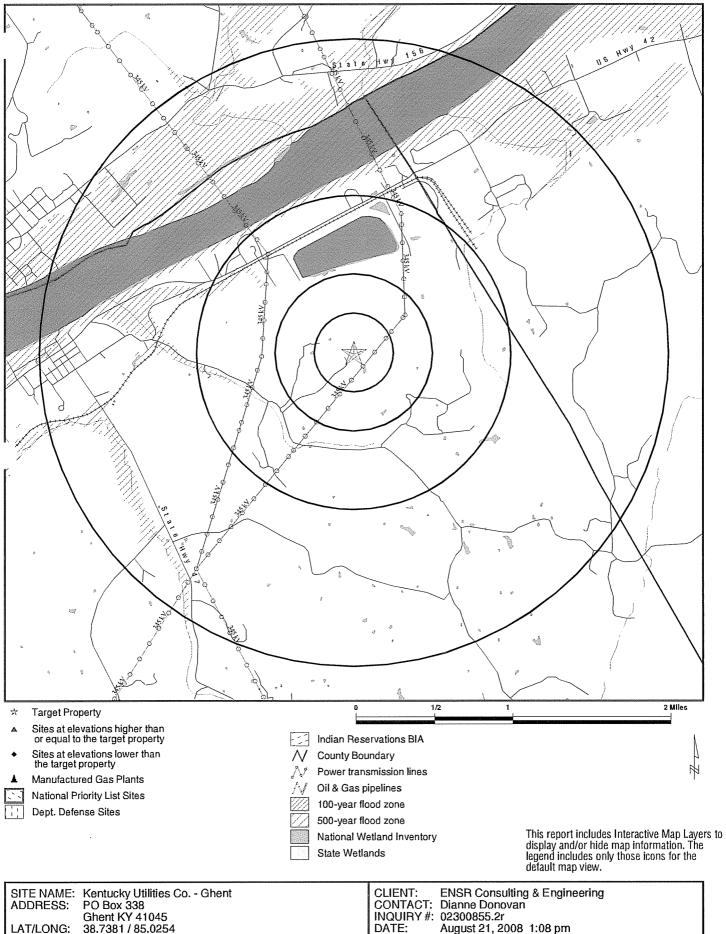
### Site Name

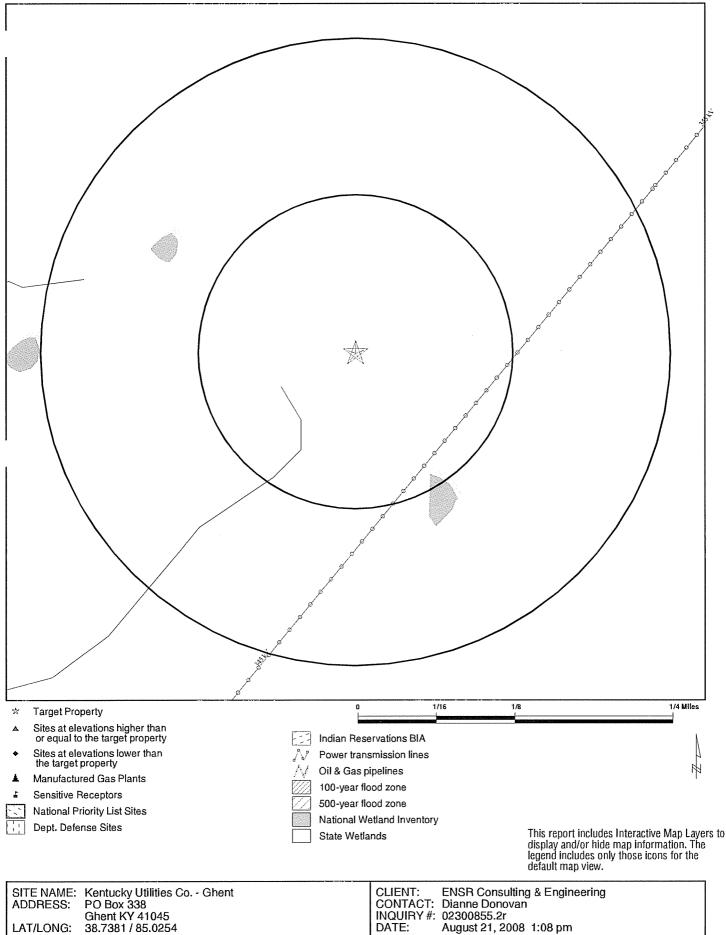
KY UTILITIES CO - GHENT GENERATION STATION CLEANCOAL TERMINAL CO ARISTECH CHEMICAL CORP WARSAW DRUMS DAVE OMARA CONTRACTOR - PORTABLE PLANT DAVE OMARA CONTRACTOR - PORTABLE PLANT EDGEWATER HOPPERTON NURSERY FARM MARKLAND LOCK & DAM RECMIX OF KENTUCKY COUNTRY SERVICE CENTER KENTUCKY DEPARTMENT OF HIGHWAYS WOODS ASHLAND SERVICE STATION RECMIX OF KENTUCKY GHENT STP KENTUCKY UTILITIES CO GHENT STATION STTX GHENT GHENT GENERATING STATION GHENT STP KY UTIL GHENT GENERATING

Database(s)

SHWS, UST, AIRS SHWS, FINDS, UST, AIRS SHWS SHWS AIRS AIRS SWF/LF UST FINDS, RCRA-NonGen RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS FINDS TRIS NPDES NPDES NPDES NPDES

# **OVERVIEW MAP - 02300855.2r**





# **MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	<u>&lt; 1/8</u>	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-CESQG RCRA-NonGen US ENG CONTROLS US INST CONTROL ERNS HMIRS DOT OPS US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA ODI DEBRIS REGION 9 MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS RADINFO FINDS RAATS		2.000 2.000 2.000 TP 1.500 1.500 TP 2.000 1.500 1.250 1.250 1.250 1.250 1.500 1.500 1.500 2.000 2.000 2.000 1.5000 1.500 1.500 1.500 1.500 1.500	0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 0 R R R R	000R00R0000000RRRR0000000000RRRRRRRRRR	0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 R R R R 0 0 0 0 0 0 0 0 0 R	0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 R R R R 0 0 0 0 0 0 0 0 0 0 R	0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 0 R R R R	
STATE AND LOCAL RECOR	DS							
SHWS SWF/LF HIST LF SB193 UST		2.000 1.500 1.500 1.500 1.250	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0

# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENG CONTROLS INST CONTROL VCP DRYCLEANERS BROWNFIELDS CDL NPDES AIRS LEAD PSTEAF		1.500 1.500 1.250 1.250 1.500 TP TP TP TP TP 1.500	0 0 0 NR NR NR 0	0 0 0 0 NR NR NR NR 0	0 0 0 0 NR NR NR 0	0 0 0 NR NR NR NR 0	0 0 0 NR NR NR NR 0	0 0 0 0 0 0 0 0 0 0
TRIBAL RECORDS								
INDIAN RESERV INDIAN LUST INDIAN UST INDIAN VCP		2.000 1.500 1.250 1.500	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
EDR PROPRIETARY RECOR	DS	2.000	0	0	0	0	0	0

# NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

NO SITES FOUND

City	EDR ID	Site Name	Site Address	Zip Database(s)	
ETHRIDGE	1001077428	MARKLAND LOCK & DAM	HIGHWAY 42	41095 FINDS, RCRA-NonGen	
GHENT	U003990665	KY UTILITIES CO - GHENT GENERATION STATION	9485 US 42 E	41045 SHWS, UST, AIRS	
GHENT	S108491050	STTX GHENT	3985 US 42 W	41045 NPDES	
GHENT	S108081294	GHENT GENERATING STATION	9485 HWY 42 E	41045 NPDES	
GHENT	1010564220	RECMIX OF KENTUCKY	6870 HIGHWAY 42 EAST	41045 RCRA-NonGen	
GHENT	1010499649	RECMIX OF KENTUCKY	6870 HIGHWAY 42 EAST	41045 FINDS	
GHENT	S108312204	DAVE OMARA CONTRACTOR - PORTABLE PLANT	20 ELLIS LN	41045 AIRS	
GHENT	S108312203	DAVE OMARA CONTRACTOR - PORTABLE PLANT	50 ELLIS LN	41045 AIRS	
GHENT	S108909980	GHENT STP	102 FISHING ST	41045 NPDES	
GHENT	1004504493	GHENT STP	102 FISHING ST	41045 FINDS	
GHENT	S107865867	KY UTIL GHENT GENERATING	9485 US HWY 42	41045 NPDES	
GHENT	1005453562	KENTUCKY UTILITIES CO GHENT STATION	9485 US HWY 42E	41045 TRIS	
GHENT	1006827797	CLEANCOAL TERMINAL CO	US RT 42	41045 SHWS, FINDS, UST, AIRS	
WARSAW	1001219635	COUNTRY SERVICE CENTER	301 HWY 42	41095 FINDS, RCRA-NonGen	
WARSAW	U003990407	HOPPERTON NURSERY FARM	US 42 RTE 2	41095 UST	
WARSAW	S107602334	EDGEWATER	E LOCUST ST	41095 SWF/LF	
WARSAW	1000450925	KENTUCKY DEPARTMENT OF HIGHWAYS	MAINTENANCE BARN, SPARTA ROAD	41095 FINDS, RCRA-NonGen	
WARSAW	S106884894	ARISTECH CHEMICAL CORP	NONE	41095 SHWS	
WARSAW	S106884900	WARSAW DRUMS	NONE	41095 SHWS	
WARSAW	1001228354	WOODS ASHLAND SERVICE STATION	PEARL & HWY 35	41095 FINDS, RCRA-NonGen	
				•	

ORPHAN SUMMARY

TC02300855.2r Page 7

ш	EDR-ID	Facility ID		Address	Map/Dir/Dist	City	State	Databases
es loc 53081 530816 53090 530916 53081 50081 500800 50080000000000	ation I 330 5096 691 331 3450	- Indicates location may or may not be 1045 953081330 1045 1008165096 110020609723 1045 953090891 1045 2005803450 1045 2005803450	in requested radius. Site has not been assi GHENT WTP	gned a latitude/longitude coordinate. Further review recommended.	review recommended		\$\$\$\$	ERNS FINDS ERNS ERNS ERNS
5309( 0005/ 0054/ 0054/ 3642	0690 12429 53649 13561 103	110010392869	ROUTE 1 BOX 20 US HWY 42 ROUTE 1 BOX 320 US HWY 42 MULTISERV RT 1 AD 1 IOUIDE AMEDICA CODD	ROUTE 1 BOX 20 US HWY 42 ROUTE 1 BOX 320 US HWY 42 RR 1 US 42 RT 1 BT 1		WARSAW GHENT GHENT GHENT GHENT GHENT	⋩⋩⋩⋩⋩⋩	ERNS ERNS RCRA-CESQG, FINDS RCNA-CESQG, FINDS NDDFS
1080 1080 1074 1078 1083 1083 1083	67278 67278 67278 67278 67278 10194 10194 112193 91050	899 110006810111 2107700023	RT 1 BOX 320 STEEL TECHNOLOGY INC GALLATIN TERMINAL CO GALLATIN TERMINAL CO AIR LIQUIDE AMERICA CORP STTX GHENT	RT 1 BOX 320 RT 1 BOX 324 U S RT 42 RT 1 BOX 334 U S RT 42 10487 HWY 42 E 10487 HWY 42 E 3985 U S 42 W 3985 U S 42 W		CHENT CHENT CHENT CHENT CHENT CHENT CHENT CHENT	22222222	ERNS RPDES LEAD FINDS NPDES NPDES NPDES
10805400054	384691 48602 564117 564220 699649 827881 309893	41045HCKTTBC 2107700018 KYR000046748 110032667709 110013874851	MULTISERV HARSOO COHECKETT MULTISERV PLAN GALLATIN STEEL CO RECMIX OF KENTUCKY RECMIX OF KENTUCKY IRVING MATERIALS, INC NORTH AMERICAN STAINLESS	4411 US 42 W 4411 US 42 W 8870 HIGHWAY 42 EAST 8870 HIGHWAY 42 EAST 8870 HWY 42 EAST 6870 HWY 42 E			\$\$\$\$\$\$	TRIS TRIS AIRS FINDS FINDS FINDS NUDDES NUDDES
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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### FEDERAL RECORDS

### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

NPL Site Boundaries

### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 26 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 07/22/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008 Number of Days to Update: 76 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 06/17/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/13/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2008	Telephone: 202-564-6023
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/26/2008
Date Data Arrived at EDR: 04/02/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Quarterly

### RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

### RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Source: Environmental Protection Agency Date of Government Version: 04/04/2008 Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies US INST CONTROL: Sites with Institutional Controls A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. Date of Government Version: 04/04/2008 Source: Environmental Protection Agency Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies ERNS: Emergency Response Notification System Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. Date of Government Version: 12/31/2007 Source: National Response Center, United States Coast Guard Date Data Arrived at EDR: 01/23/2008 Telephone: 202-267-2180 Last EDR Contact: 07/25/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 54 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Annually HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 04/16/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 29

Source: U.S. Department of Transportation Telephone: 202-366-4555 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008 Source: Department of Transporation, Office of Pipeline Safety Date Data Arrived at EDR: 05/28/2008 Telephone: 202-366-4595 Date Made Active in Reports: 08/08/2008 Last EDR Contact: 05/28/2008 Next Scheduled EDR Contact: 08/25/2008 Number of Days to Update: 72 Data Release Frequency: Varies

### CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007 Number of Days to Update: 25 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 06/27/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 04/30/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 30 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 08/31/2007 Date Made Active in Reports: 10/11/2007 Number of Days to Update: 41 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 31 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 02/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/30/2008	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 07/21/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
ROD: Records Of Decision Record of Decision. ROD documents mandat and health information to aid in the cleanup.	e a permanent remedy at an NPL (Superfund) site containing technical
Date of Government Version: 01/14/2008 Date Data Arrived at EDR: 01/22/2008 Date Made Active in Reports: 01/30/2008 Number of Days to Update: 8	Source: EPA Telephone: 703-416-0223 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Annually
shut down, large piles of the sand-like materia the ore. Levels of human exposure to radioad	s for federal government use in national defense programs. When the mills al (mill tailings) remain after uranium has been extracted from ctive materials from the piles are low; however, in some cases tailings ne potential health hazards of the tailings were recognized.
Date of Government Version: 07/13/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Varies
ODI: Open Dump Inventory An open dump is defined as a disposal facility Subtitle D Criteria.	/ that does not comply with one or more of the Part 257 or Part 258
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation A listing of illegal dump sites location on the T County and northern Imperial County, Califord	orres Martinez Indian Reservation located in eastern Riverside
Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 02/07/2008 Date Data Arrived at EDR: 03/26/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 23	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 06/25/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Semi-Annually

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49	Source: EPA Telephone: 202-566-0250 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually	
	s manufacturers and importers of chemical substances included on the cludes data on the production volume of these substances by plant	
Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46	Source: EPA Telephone: 202-260-5521 Last EDR Contact: 08/11/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years	
FTTS tracks administrative cases and pesticion	deral Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) de enforcement actions and compliance activities related to FIFRA, Community Right-to-Know Act). To maintain currency, EDR contacts the	
Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA/Office of Prevention, Pesticides and Toxic Substances Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly	
FTTS INSP: FIFRA/ TSCA Tracking System - FIFF A listing of FIFRA/TSCA Tracking System (FT	RA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TS) inspections and enforcements.	
Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly	
HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.		
Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40	Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned	
	nspection & Enforcement Case Listing listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA re National Compliance Database (NCDB). NCDB supports the implementation	

regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementa of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

#### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007 Date Data Arrived at EDR: 02/07/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 39 Source: EPA Telephone: 202-566-0500 Last EDR Contact: 08/07/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

#### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/22/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/29/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/01/2008	Telephone: 202-343-9775
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 07/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

#### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/08/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 28 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

#### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007 Number of Days to Update: 38 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/11/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Biennially

## STATE AND LOCAL RECORDS

#### SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 06/18/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 33 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Semi-Annually

HIST LF: Historical Landfills

Date Made Active in Reports: 05/19/2008

Number of Days to Update: 31

#### This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection. Date of Government Version: 05/01/2003 Source: Department of Environmental Protection Telephone: 502-564-6716 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006 Last EDR Contact: 05/27/2008 Number of Days to Update: 32 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: No Update Planned SB193: SB193 Branch Site Inventory List The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination. Date of Government Version: 09/05/2006 Source: Department of Environmental Protection Telephone: 502-564-5981 Date Data Arrived at EDR: 09/13/2006 Last EDR Contact: 08/04/2008 Date Made Active in Reports: 10/18/2006 Next Scheduled EDR Contact: 11/03/2008 Number of Days to Update: 35 Data Release Frequency: No Update Planned UST: Underground Storage Tank Database Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. Date of Government Version: 04/14/2008 Source: Department of Environmental Protection Date Data Arrived at EDR: 04/18/2008 Telephone: 502-564-5981 Last EDR Contact: 06/23/2008 Date Made Active in Reports: 05/19/2008 Next Scheduled EDR Contact: 09/22/2008 Number of Days to Update: 31 Data Release Frequency: Quarterly ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls. Source: Department of Environmental Protection Date of Government Version: 04/18/2008 Date Data Arrived at EDR: 04/18/2008 Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Date Made Active in Reports: 05/19/2008 Next Scheduled EDR Contact: 09/22/2008 Number of Days to Update: 31 Data Release Frequency: Varies INST CONTROL: State Superfund Database A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option. Source: Department of Environmental Protection Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Telephone: 502-564-6716 Date Made Active in Reports: 05/19/2008 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Number of Days to Update: 31 Data Release Frequency: Varies VCP: Voluntary Cleanup Program Sites Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application. Source: Department of Environmental Protection Date of Government Version: 04/16/2008 Telephone: 502-564-6716 Date Data Arrived at EDR: 04/18/2008

Last EDR Contact: 06/23/2008

Data Release Frequency: Varies

Next Scheduled EDR Contact: 09/22/2008

#### DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 10

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Telephone: 502-564-6716 Last EDR Contact: 06/03/2008

Data Release Frequency: Varies

Date of Government Version: 05/13/2008 Date Data Arrived at EDR: 05/13/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 6 Source: Division of Compliance Assistance Telephone: 502-564-0323 Last EDR Contact: 08/12/2008 Next Scheduled EDR Contact: 11/10/2008 Data Release Frequency: Varies

CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

> Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31

#### NPDES: Permitted Facility Listing A listing of permitted wastewater facilities

Date of Government Version: 06/20/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 24

AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities

> Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 27

Source: Department of Environmental Protection Telephone: 502-564-3410 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies

Source: Department of Environmental Protection

Next Scheduled EDR Contact: 09/22/2008

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 05/07/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 12 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/05/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Quarterly

LEAD: Environmental Lead Program Report Tracking Database	
Lead Report Tracking Database	

Date of Government Version: 10/26/2007
Date Data Arrived at EDR: 01/07/2008
Date Made Active in Reports: 01/25/2008
Number of Days to Update: 18

Source: Department of Public Health Telephone: 502-564-4537 Last EDR Contact: 07/03/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies

## TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 08/08/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/03/2008
- •	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/30/2008	Source: EPA Region 10
Date Data Arrived at EDR: 05/30/2008	Telephone: 206-553-2857
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 70	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/28/20	008	Source: EPA Region 8
Date Data Arrived at EDR: 06/10/2008	1	Telephone: 303-312-6271
Date Made Active in Reports: 08/08/20	800	Last EDR Contact: 08/18/2008
Number of Days to Update: 59		Next Scheduled EDR Contact: 11/17/2008
		Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date Made Active in Reports: 05/06/2008 Last EDR Contact: 08/18/2008	•	Next Scheduled EDR Contact: 11/17/2008
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INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-8677
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Semi-Annually

A listing of leaking underground storage tank	
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN LUST R6: Leaking Underground Storage - LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R1: Underground Storage Tanks on A listing of underground storage tank location	
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R4: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
INDIAN UST R5: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 12/21/2007 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 34	Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R6: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
INDIAN UST R7: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007 Number of Days to Update: 21	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on In No description is available for this data	ndian Land
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R9: Underground Storage Tanks on In No description is available for this data	ndian Land
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 42	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN VCP R1: Voluntary Cleanup Priority Listing A listing of voluntary cleanup priority sites loca	
Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
INDIAN VCP R7: Voluntary Cleanup Priority Lisitng A listing of voluntary cleanup priority sites loca	
Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008	Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008

#### EDR PROPRIETARY RECORDS

Number of Days to Update: 27

#### Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

transporters to a tsd facility.	
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007 Number of Days to Update: 66	Source: Department of Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/13/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually
NY MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks h facility.	nazardous waste from the generator through transporters to a TSD
Date of Government Version: 05/27/2008 Date Data Arrived at EDR: 05/29/2008 Date Made Active in Reports: 07/10/2008 Number of Days to Update: 42	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 05/29/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Annually
PA MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/10/2008 Number of Days to Update: 20	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
RI MANIFEST: Manifest information Hazardous waste manifest information	
Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008 Number of Days to Update: 65	Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually
WI MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 04/27/2007 Date Made Active in Reports: 06/08/2007 Number of Days to Update: 42	Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

- Source: PennWell Corporation
- Telephone: (800) 823-6277
- This map includes information copyrighted by PennWell Corporation. This information is provided
- on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its

fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals: Source: American Hospital Association, Inc. Telephone: 312-280-5991 The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing Source: Centers for Medicare & Medicaid Services Telephone: 410-786-3000 A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services. **Nursing Homes** Source: National Institutes of Health Telephone: 301-594-6248 Information on Medicare and Medicaid certified nursing homes in the United States **Public Schools** Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states. **Private Schools** Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on private school locations in the United States. Davcare Centers: Certified Child Care Homes Source: Cabinet for Families & Children Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images

are made by scanning published paper maps on high-resolution scanners. The raster image

is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## STREET AND ADDRESS INFORMATION

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## **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

## TARGET PROPERTY ADDRESS

KENTUCKY UTILITIES CO. - GHENT PO BOX 338 GHENT, KY 41045

#### TARGET PROPERTY COORDINATES

Latitude (North):	38.73810 - 38° 44' 17.2"
Longitude (West):	85.02539 - 85° 1' 31.4"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	671625.3
UTM Y (Meters):	4289357.5
Elevation:	754 ft. above sea level

## USGS TOPOGRAPHIC MAP

Target Property Map:	38085-F1 VEVAY SOUTH, KY
Most Recent Revision:	1994
North Map:	38085-G1 VEVAY NORTH, IN
Most Recent Revision:	1994

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EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

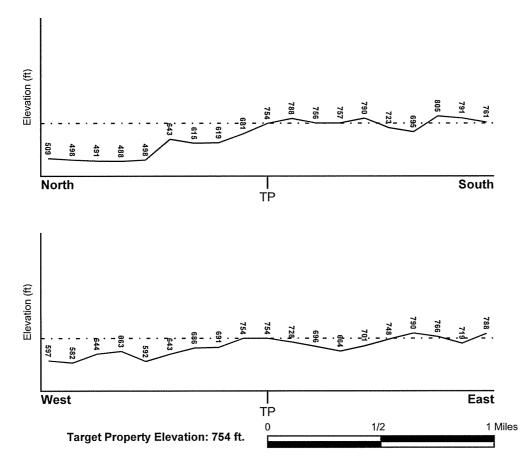
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## FEMA FLOOD ZONE

Target Property County CARROLL, KY	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2100450004A
Additional Panels in search area:	2102810100A
NATIONAL WETLAND INVENTORY	NWI Electronic
NWI Quad at Target Property VEVAY SOUTH	<u>Data Coverage</u> YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

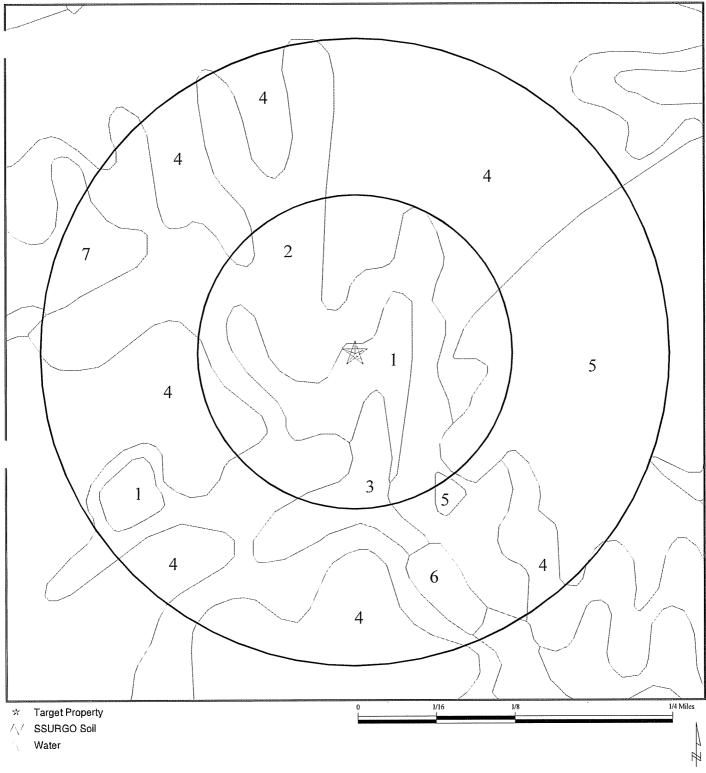
#### ROCK STRATIGRAPHIC UNIT

## GEOLOGIC AGE IDENTIFICATION

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovician		
Series:	Upper Ordovician (Cincinnatian)		
Code:	O3 (decoded above as Era, System &	Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 02300855.2r



SITE NAME:	Kentucky Utilities Co Ghent
ADDRESS:	PO Box 338
	Ghent KY 41045
LAT/LONG:	38.7381 / 85.0254

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1	
Soil Component Name:	Lowell
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 119 inches
Depth to Watertable Min:	> 0 inches

Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	37 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	37 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	46 inches	51 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2	
Soil Component Name:	Lowell
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 119 inches
Depth to Watertable Min:	> 0 inches

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Soil Layer Information							
Boundary		Boundary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	37 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	37 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
4	46 inches	51 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

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Soil Map ID: 3	
Soil Component Name:	Lowell
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 119 inches
Depth to Watertable Min:	> 0 inches

Boundary			Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	37 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	37 inches	46 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	46 inches	51 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

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Soil Map ID: 4	
Soil Component Name:	Fairmount
Soil Surface Texture:	flaggy silty clay
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information								
	Bou	Indary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec		
1	0 inches	5 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	
2	5 inches	16 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	
3	16 inches	20 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:	

## Soil Map ID: 5

Soil Component Name:	Water
Soil Surface Texture:	flaggy silty clay
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	

Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches
No Layer Information available.	

Soil Map ID: 6	
Soil Component Name:	Nicholson
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 61 inches

Soil Layer Information								
	Bou	ndary		Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 7.8 Min: 5.1	
2	7 inches	24 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 7.8 Min: 5.1	
3	24 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 7.8 Min: 5.1	

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## $\textbf{GEOCHECK}^{\texttt{B}} \textbf{ - PHYSICAL SETTING SOURCE SUMMARY}$

Soil Layer Information									
Layer	Boundary			Classification		Saturated hydraulic			
	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
4	35 inches	59 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 0.42	Max: 7.8 Min: 5.1		

Soil Map ID: 7	
Soil Component Name:	Otwell
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 46 inches

Soil Layer Information									
	Bou	indary	Soil Texture Class	Classi	fication	Saturated hydraulic			
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec			
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1		
2	7 inches	20 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1		

Soil Layer Information									
	Bou	Indary	Soil Texture Class	Classi	fication	Saturated hydraulic			
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	oon nouvelon		
3	20 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1		
4	46 inches	62 inches	stratified loam to silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 6.5 Min: 5.1		

Soil Map ID: 8	
Soil Component Name:	Wheeling
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information									
	Boundary			Classification		Saturated hydraulic				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec				
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 5.1			

Soil Layer Information									
	Bou	Indary		Classi	fication	Saturated hydraulic			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec			
2	9 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 5.1		
3	59 inches	63 inches	stratified very gravelly sand to very fine sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 5.1		

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	0.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

MAP ID No Wells Found WELL ID

LOCATION FROM TP

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID WELL ID LOCATION FROM TP

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID

WELL ID

LOCATION FROM TP

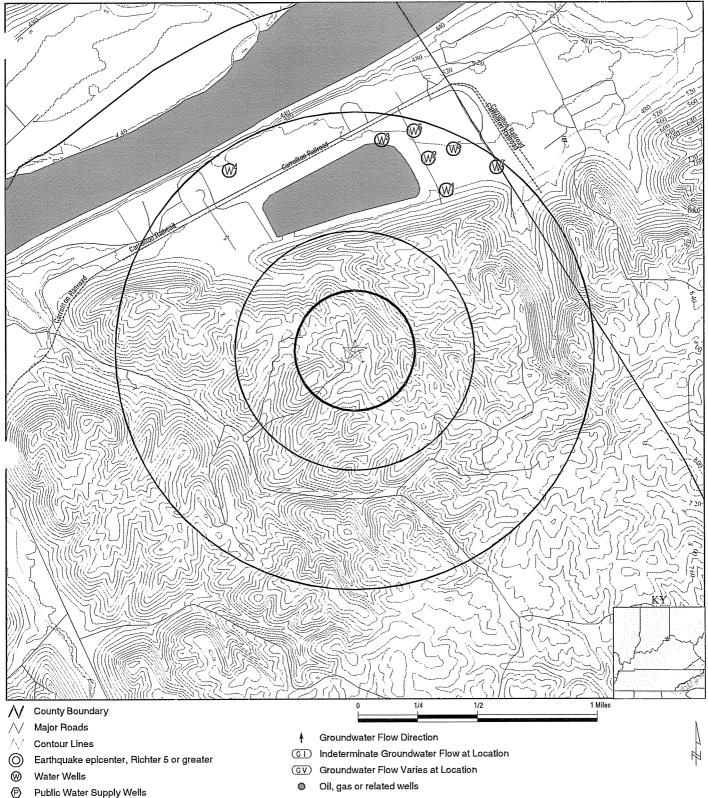
No PWS System Found

Note: PWS System location is not always the same as well location.

## STATE DATABASE WELL INFORMATION

WELL ID	LOCATION FROM TP
KY300000068308	1/2 - 1 Mile NNE
KY300000068311	1/2 - 1 Mile NNE
KY300000068315	1/2 - 1 Mile North
KY300000068309	1/2 - 1 Mile NW
KY300000068312	1/2 - 1 Mile NNE
KY300000068317	1/2 - 1 Mile NNE
KY300000068310	1/2 - 1 Mile NE
	KY3000000068308 KY300000068311 KY300000068315 KY300000068309 KY300000068312 KY300000068317

## PHYSICAL SETTING SOURCE MAP - 02300855.2r



ADDRESS: PO Box 338 Ghent KY 41045	CLIENT: ENSR Consulting & Engineering CONTACT: Dianne Donovan NQUIRY #: 02300855.2r DATE: August 21, 2008 1:08 pm
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Cluster of Multiple Icons

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## **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Distance Elevation			Database	EDR ID Number
 NNE  /2 - 1 Mile _ower			KY WELLS	KY300000068308
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	43169 38.74784 -85.01828 80001088 Monitoring - Ambient KY3000000068308	Site type: Constructi:	Mine 04/02/1992 00:00:00	
2 NNE I/2 - 1 Mile _ower			KY WELLS	KY300000068311
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	42952 38.74978 -85.01967 80001085 Monitoring - Ambient KY3000000068311	Site type: Constructi:	Mine 04/03/1992 00:00:00	
3 North I/2 - 1 Mile Lower			KY WELLS	KY300000068315
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	46326 38.75089 -85.02328 80007757 Monitoring - Ambient KY3000000068315	Site type: Constructi:	Mine 12/19/1992 00:00:00	
4 NW 1/2 - 1 Mile Lower			KY WELLS	KY300000068309
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	246607 38.74906 -85.03506 00029604 Industrial KY3000000068309	Site type: Constructi:	Water Well 01/01/1900 00:00:00	

5 NNE 1/2 - 1 Mile Lower

KY WELLS KY300000068312

## **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Location i: North lati: West longi: Akgwa numb: Primary us: Site id:

43040 38.75034 -85.01772 80001086 Monitoring - Ambient KY300000068312

Site type: Constructi:

Mine 04/03/1992 00:00:00

# 6 NNE 1/2 - 1 Mile Lower

Location i: North lati: West longi: Akgwa numb: Primary us: Site id:

54586 38.75145 -85.02078 80015439 Monitoring - Ambient KY3000000068317

Site type: Constructi:

Mine 01/11/1995 00:00:00

**KY WELLS** 

KY WELLS KY300000068310

KY300000068317

7 NE 1/2 - 1 Mile Lower Location i: North lati: West longi: Akgwa numb: Primary us:

Site id:

43266 38.74923 -85.01439 80001089 Monitoring - Ambient KY3000000068310

Site type: Constructi: Mine 04/02/1992 00:00:00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

Federal EPA Radon Zone for CARROLL County: 2

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for CARROLL COUNTY, KY

Number of sites tested: 1	Number	of	sites	tested:	1	
---------------------------	--------	----	-------	---------	---	--

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

## **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5<sup>°</sup> Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

#### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water Telephone: 202-564-3750 Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
 Source: EPA/Office of Drinking Water
 Telephone: 202-564-3750
 Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
 August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey Telephone: 859-257-5500 Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

## OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

#### RADON

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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# Attachment to Question No. 30 6 of 8 Voyles

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY



# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for Green River Generating Station Central City, Kentucky

ENSR Corporation September 12, 2008 Document No.: 12267-006-0011

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY

## FINAL DRAFT

# Desktop Phase 1 Environmental Site Assessment for Green River Generating Station Central City, Kentucky

Celestine Wood

Prepared By Celestine D. Wood Staff Specialist

ES.

Reviewed By Russell G. Turner Compliance Group Section Manager

ENSR Corporation September 12, 2008 Document No.: 12267-006-0011

# ENSR AECOM

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# 1.0 Introduction

# 1.1 Purpose

E.ON U.S., LLC (E.ON) requested ENSR Corporation (ENSR) to perform a Desktop Phase I environmental site assessment (ESA) to identify recognized environmental conditions (RECs) at the Green River Generating Station located in Central City, Muhlenberg County, Kentucky (hereinafter referred to as the "subject property"). ENSR received authorization to perform the Phase I ESA on August 15, 2008. ENSR representative Ms. Celestine Wood, Staff Specialist conducted the desktop ESA between August 18, 2008 and September 19, 2008.

# 1.2 Scope-of-work

This assessment has been performed in accordance with ENSR's Proposal number 12267-A12, dated August 14, 2008. Tasks performed by ENSR as a part of the Desktop Phase I ESA are described in the proposal.

This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. Upon receipt of your comments, the draft report will be finalized. However, this Phase I ESA is limited by the practice and is not an exhaustive research of the subject property and surrounding area.

### 1.3 Study limitations

This report describes the results of ENSR's due diligence assessment to identify the presence of environmental liabilities materially affecting the subject property utilizing publicly available, practically reviewable and reasonably ascertainable information.

In the conduct of this due diligence investigation, ENSR has attempted to independently assess the presence of such liabilities within the limits of the established scope of work as described in our proposal. As with any due diligence evaluation, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable through visual observations or supported by any available written documentation. ENSR shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by ENSR in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of ENSR's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report, including all supporting field data and notes (collectively referred to hereinafter as "information"), was prepared or collected by ENSR for the benefit of its client, E.ON U.S. LLC (E.ON). The information may be released to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall create no rights, obligations, or liabilities on the part of ENSR with respect to any such party. The information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should ENSR be required to review the report after six (6) months from its date of submission, ENSR shall be



entitled to additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the client.

# 2.0 Site description

### 2.1 Location

The subject property is located on the northern shore of the Green River north of the town of Central City, Muhlenberg County, Kentucky west of US Highway 431. The surrounding area consists of a mixed rural and residential area. Access to the subject property is provided from Power Plant Rd off of US Highway 431 to the subject property. The subject property consists of consists of 407 acres.

Figure 1 provides a site location map for the subject property.

### 2.2 Current use of the subject property

Green River Generating Station is located 3 miles north of Central City in Muhlenberg County at 37° 21' 49" latitude and 87° 7' 12" longitude. The plant, which began operation in 1949, consists of two active and two retired coal-fired generating units. The active units have a capacity of 173 megawatts.

The property is bounded on the north by coal strip mines, on the southeast by the Green River, and on the south and west by rolling hills with a few residences. The elevation at the plant averages 400 feet above mean sea level. No karst terrain is present within the four mile radius, and shale confining layers severely limit percolation to deep aquifers and sandstone lenses. The water table in the alluvial aquifer underlying the plant is estimated to occur at approximately 25 feet below land surface, based on interpretation of topographic contours.

Drinking water for most residences within three miles of the Green River Plant is supplied by the Central City Municipal Water System, which obtains water from a surface intake on the Green River approximately three miles upstream from Green River Generating Station. The town of Livermore obtains drinking water from a surface intake located on the Green River approximately nine miles downstream from the plant. Additionally, some residences in the area obtain water from private wells. Within one mile of the plant, less than 200 persons reside. At least 1,500 persons live within four miles of the plant.

All water serving the plant is withdrawn by one intake structure located in the Green River. Most of this water is used for once-through cooling water and is returned through a discharge canal downstream of the intake point.

The plant generates several wastes which are "exempt" under 40 CFR Part 261.4. These non-hazardous special wastes include fly ash, bottom ash, boiler slag and FGD scrubber sludge. Coal ash is discharged into a large on-site surface impoundment (ash treatment basin) followed by a series of smaller treatment ponds. The ponds are sequential for greater removal and retention. Clean decanted waters are then discharged into the Green River according to KPDES permit KY0002011. Scrubber sludge is slurried to a scrubber sludge retention basin, but the scrubber was retired with the 2 generating units. Overflow (i.e., stormwater flows) can be discharged into the secondary ash treatment basin and then discharged into the Green River according to the KPDES permit.

Boiler tube internal surfaces are cleaned every three to five years to remove scale. Non-hazardous chelating solvents are used and disposed of by evaporation in an operating boiler. TCLP tests are conducted to ensure that these wastes are non-hazardous; if test results show any particular batch of these wastes to be hazardous, then they are neutralized on-site and shipped off-site for disposal.

To prevent spills or accidental discharges, procedures and equipment at the Green River Generating Station have been modified in accordance with good engineering practices. The plant drainage system is equipped with oil/water separators. Fuel storage tanks and substations have containment berms. A containment pond handles sludge from the scrubber system. An ash storage basin was added for storage and retention of ash.

Sewage treatment facility drains (with the exception of ash sluice water) go to drain basins for retention before being discharged to number two ash treatment basin.

Precautions were taken in the design of the facilities to minimize the possibility of oil spillage from equipment utilizing large quantities of oil. Turbine oil rooms are built to confine any oil spill. Transformers in substations are surrounded with course gravel so as to allow for the accumulation of the oil immediately adjacent to the transformer should a leak occur. Bulk storage of oil is bermed.

The removal and disposal of asbestos-containing materials is to be in accordance with the Company's Asbestos Work Practices and Procedures Manual.

Transformer/Rectifier sets on the electrostatic precipitators as well as ground neutral and lighting transformers that contain regulated levels of PCBs have been removed from service, disposed of, and replaced with NON-PCB units.

Below is a table from the SPCC plan providing the material inventory of petroleum and chemical storage.

Material	Maximum Amount (gallons)	Location/Comments
Diesel/Fuel Oil #2	25,000	Outside, aboveground storage tank, steel, adjacent to warehouse and parking lot, concrete bermed, valved storm water drainage to oil-water separator
Diesel/Fuel Oil #2	25,000	Outside, aboveground storage tank, steel, adjacent to warehouse and parking lot, concrete bermed, valved storm water drainage to oil-water separator
Diesel/Fuel Oil #2	2,000	Outside, aboveground portable storage tank, steel, between entrance road and coal pile, concrete bermed, valved storm water drainage
Unleaded Gasoline	300	Outside, aboveground portable storage tank, steel, between entrance road and coal pile, concrete bermed, valved storm water drainage

#### Fuel Storage (total 52,300 gallons)

# Non-fuel Materials Storage

Material	Maximum Amount (gallons)	Location/Comments
Lubricating Oil	1,100	Steel drums, outside within outdoor oil storage facility (adjacent to coal pile), concrete curbed, drains to oil/water separator
Lubricating Oil	550	Steel drums, inside mobile coal handling equipment maintenance shed, drains to coal pile retention pond
Lubricating Oil	385	Seven-55 gallon dispensers, steel, inside Unit 2 basement (next to door to Unit 3), drains to oil/water separator
Used Lubricating Oil	275	Steel drums inside Unit 2 basement (next to door to Unit 3), drains to plant sumps
Turbine Lubricating Oil	1,250	Unit 1 reservoir, drains to plant sumps
Turbine Lubricating Oil	1,250	Unit 2 reservoir, drains to plant sumps
Turbine Lubricating Oil	2,500	Unit 3 reservoir, drains to plant sumps
Turbine Lubricating Oil	3,000	Unit 4 reservoir, drains to plant sumps which drain to oil/water separator
Turbine Clean/Dirty Oil	7,000	Reservoir tank, drains to plant sumps which drain to oil/water separator

Material	Maximum Amount (gallons)	Location/Comments
Mineral Spirits	110	Steel drums, outside within outdoor oil storage facility, concrete curbed, drains to oil/water separator
Mineral Spirits	55	Steel drum inside mobile coal handling equipment maintenance shed, drains to coal pile retention pond
Mineral Spirits	55	Steel drum inside Unit 2 basement (by door to Unit 3), drains to plant sumps
Kerosene	265	Steel drums inside Unit 2 basement (by door to Unit 3), drains to plant sumps
Kerosene	265	Steel drums, outside within outdoor oil storage facility (adjacent to coal pile), concrete curbed, drains to oil/water separator

### Toxic and Hazardous Chemicals

Material	Maximum Amount (gallons)	Location/Comments
Sodium Hydroxide (caustic soda)	5,000	Two 2,500 gallon steel tanks, inside demineralizer annex building, concrete curbed
Sulfuric Acid	6,000	Steel tank outside near building, concrete bermed,
Calcium Oxide (pebble lime)	150 tons	Silo adjacent to scrubber
Ammonium Hydroxide	160	Steel drums inside Unit 4 Basement above Clarifier #2
Hydrazine	180	Steel tank, inside on main floor, near Unit 4 breakers
Powerline 1320D	550	Portable fiberglass tank inside Unit 4 Basement above clarifier #2
Corrshield	400	Portable fiberglass tank inside Unit 4 Basement above clarifier #2
Klaraid-CDP#1	2000	Fiberglass tank inside Unit 1-2 Basement near clarifier #1
Klaraid-CDP#2	2000	Fiberglass tank, main floor, Unit 4
Spectrus	110	Steel drums inside Unit 1-2 Basement near clarifier #1

### 2.3 Utilities

Drinking water for most residences within three miles of the Green River Plant is supplied by the Central City Municipal Water System, which obtains water from a surface intake on the Green River approximately three miles upstream from Green River Generating Station. The town of Livermore obtains drinking water from a surface intake located on the Green River approximately nine miles downstream from the plant. Additionally, some residences in the area obtain water from private wells. Within one mile of the plant, less than 200 persons reside. At least 1,500 persons live within four miles of the plant. All water serving the plant is withdrawn by one intake structure located in the Green River. Most of this water is used for once-through cooling water and is returned through a discharge canal downstream of the intake point.

Storm water runoff from the areas where raw materials, petroleum products and toxic or hazardous substances are stored or used on the site is routed to pollution control devices (oil/water separator and/or retention ponds) before being discharged to the receiving water. This applies wherever a possibility for contamination exists. The plants' KPDES permit requires identification and calculation of site drainage to nearby waterways.

The subject property obtains power from the generating station for site operations.

### 2.4 Current use of adjoining properties

The following table provides a description of the properties adjacent to the boundaries of the subject property, based on ENSR's review of aerial photographs.

### Table 2-1 Adjacent Land Use

Direction from site	Adjacent land use description
North	Coal strip mines
East	Green River
South	Residences
West	Residences

Based on a review of aerial photographs the land surrounding the facility is characterized by rural residential and vacant undeveloped land.

# 3.0 Records information

# 3.1 Standard environmental records

Standard environmental record sources are defined in Section 8.2.1 of the ASTM 1527-05 standard, "Standard Practice for Environmental Site Assessments: Phase 1 Environmental Site Assessment Process." These records consist of selected federal and state environmental databases. ASTM also specifies the appropriate search distances from the subject property for which these records should be reviewed. ENSR retained the services of Environmental Data Resources, Inc. (EDR) of Milford, Connecticut to provide specified state and federal regulatory list information for potential sites of environmental concern located at or in the vicinity of the subject property. EDR maintains a computerized Geographic Information System (GIS) listing of various state and federal databases in accordance with the ASTM standard. The database search was based upon ASTM-specified standard record sources. Additionally, databases searched by EDR satisfy records review requirements of the EPA's *all appropriate inquiry* rule. EDR includes these databases, when available, as a part of its report. Descriptions of each database are provided in Part GR-1 of the EDR database report (Appendix A). It should be noted that due to the size of the subject property, ENSR extended the search radius an additional ¼ mile in addition to the ASTM search distances.

The subject property is located in a rural area, which is primarily undeveloped agricultural property and range land. Scattered residences are located in the area. The subject property was identified in the EDR report. None of the orphan (unmapped) sites listed on the EDR report were identified by ENSR within the vicinity of the subject property.

A variety of federal and state governmental databases were reviewed using EDR. The following federal and state contamination-related databases described in Table 3-1 were searched for the area surrounding the subject properties; the various search distances used are also noted.

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
An an Anna Anna An	Federal Databases	an an an taon an taon an Arasa. Taon an taon an taon an Arasa
NPL <sup>2</sup>	Existing and proposed Superfund sites on the National Priorities List	1.5
CERCLIS <sup>2</sup>	Abandoned, uncontrolled or inactive hazardous waste sites reported to the U.S. EPA, which have been or are scheduled to be investigated by the U.S. EPA for potential nomination to the NPL.	1.0
RCRIS-TSD <sup>2</sup>	Reported sites that treat, store and/or dispose of hazardous waste and subject to the federal RCRA regulations.	1.0
RCRIS-LQG/SQG <sup>2</sup>	Reported large-quantity generators and small quantity generators of hazardous waste.	0.75
ERNS <sup>2</sup>	Sites reporting spills to the U.S. EPA and/or the U.S. Coast Guard under various federal regulations	0.5
FINDS	Facility Index System indicates the presence of a site on another federal database.	0.5
PADS	PCB Activity Database System identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required and have notified the EPA of such activities.	0.5

### Table 3-1 Databases Searched and Radii

# ENSR AECOM

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
RAATS	RCRA Administrative Tracking System contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.	0.5
TRIS	Toxic Chemical Release Inventory System identified facilities who have reported releases of listed toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.	0.5
TSCA	Toxic Substances Control Act identified manufacturers and importers of chemical substances by plant site in 1986. No updates of the list have been made by EPA.	0.5
HMIRS	Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to the Federal DOT.	0.5
NPL Liens	List of liens placed against real property in order for the EPA to recover remedial action expenditures or when the property owner receives notification of potential liability.	0.5
CORRACTS	Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.	1.5
ROD	Records of Decision mandating a permanent remedy for a Superfund Site	1.5
MLTS	Material Licensing Tracking System, maintained by the Nuclear Regulatory Commission, contains a list of sites that possess or use radioactive materials and are subject to NRC licensing.	0.5
Delisted NPL	Sites removed from the NPL	1.5
Coal Gas	Former manufactured coal gas sites	1.5
	State Databases	
SWHS <sup>2</sup>	State hazardous waste sites	1.5
UST <sup>2</sup>	Sites which have reported underground storage tanks.	0.75
SB193 <sup>2</sup>	Sites which have reported leaking underground storage tanks.	1.0
SWF/LF <sup>2</sup>	List of permitted solid waste disposal facilities	1.0
commercial rea	ch distances used equal or exceed those recommended by ASTM for assessing the enviro I estate. ch are required to be searched by ASTM.	onmental condition of

ENSR completed an EDR Site Report of the subject property to obtain the information below. According to the orphan site listing, the subject property appears on the following databases: TRIS, FINDS, CERCLA-NRFEAP, RCRA-Non Gen.

According to the database the facility appears on the TRIS database. The subject property is listed as releasing barium compounds, dioxin and dioxin-like compounds, hydrocholoric acid, hydrogen fluoride, lead compounds, mercury compounds, sulfuric acid, vanadium compounds, and zinc compounds.

According to the database the facility is a conditionally exempt small quantity generator of hazardous waste. The facility's waste streams consists of D001 (ignitable hazardous wastes), D008 (lead), D009 (mercury), D018 (benzene), D035 (methyl ethyl ketone), F001 (spent halogenated solvents) and F003 (spent nonhalogenated solvents). According to the database the facility does not have any violation related to hazardous waste.

The subject property appears on the CERCLIS-NFRAP database due to a discovery on August 1, 1980. The preliminary assessment was completed on October 1, 1984. The site inspection was archived on November

6, 1990. Given the lack of information regarding the listing ENSR believes this represents an environmental concern to the subject property.

The subject property also appears on the FINDS database, which is a pointer database. The FINDS database pointed to an air database and TRIS database.

No surrounding properties were identified on the database.

A detailed review of information regarding identified/recognized environmental elements is beyond the scope of this study. However, state and federal environmental laws and regulations suggest that the owners of sites with identified (and unidentified) environmental elements would be responsible for investigative effort or site remediation determined necessary by state or federal regulatory agencies for these conditions.

# 3.2 Additional environmental records

Per Section 8.2.2 of the ASTM standard, local, and/or additional state or tribal sources of environmental records shall be reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed in Section 3.1 of this report. These additional records/sources may include local records such as: lists of waste disposal sites; brownfield sites; lists of hazardous waste/contaminated sites; lists of registered storage tanks; local land records (for activity and use limitations); records of emergency release reports; and records of contaminated public wells. Local sources that may be contacted to obtain this information include: Department of Health/Environmental Division; Fire Department; Planning Department; Building Permit/Inspection Department; Local/Regional Pollution Control Agency, Local/Regional Water Quality Agency, and Local Electric Utility Companies (for records relating to PCBs).

The subject property was not located on or within 1 mile of tribal lands. As a result, tribal records were not researched as a part of this assessment.

Per the ASTM Standard, approximate minimum search distances for additional records sources should not be less than those specified for standard records sources, but can be adjusted at the discretion of the environmental professional. Based on ENSR's observations during the site visit and information provided in the EDR report, no significant environmental concerns were identified associated with the adjacent properties; thus, additional state and local records not included within the EDR report were reviewed for the subject property only.

A table documenting the departments reviewed for environmental information relative to the subject property is included. These inquires may have been made in the form of telephone interviews, online, Freedom of Information Act (FOIA) requests, and/or in person discussions.

The results of these inquiries are summarized in the following table.

<b>Record source</b>	Type of records	Comments
U.S. EPA ECHO database	Environmental compliance history of the subject property	September 2, 2008 – online query According to the database the facility has an active, but expired, Clean Water Act permit. The permit is KY0002011 which is registered for the Green River Generating Station. The permit does not have any listed violations. However, an informal notice of violation was listed from September 2007.

### Table 3-2 Agency Inquiries

Record source	Type of records	Comments
U.S. EPA Envirofacts	Lists and provides information concerning facility activities subject to federal permitting requirements	September 2, 2008 – online query
Database		According to the database, the Green River Generating Station has a NPDES permit (KY0002011), which was issued September 17, 2001. No violations or enforcement actions were reported in the database. This permit expired October 31, 2004.
		According to an August 16, 2004 letter of completeness from the Division of Water the Green River facility submitted the new KPDES permit on May 5, 2004 and was determined to be complete.
Kentucky Department of	Information online for the	September 2, 2008 – online query
Environmental Protection	subject property's environmental permits	ENSR has reviewed online records regarding the facility's air, waste and water programs.
Central City Fire Department	Information that may be on file for the subject property, specifically regarding the installation or removal of underground storage tanks (USTs) from the subject property, or spills or releases of oil and/or hazardous/radioactive materials at the site.	September 30, 2008 – phone interview ENSR left a message regarding the fire department information for the subject property. At the time of this report ENSR has not received a call back from the Fire Department.

# 3.3 Physical setting information

The subject property is located in Muhlenberg County, Kentucky, and consists of 407 acres of land. The subject property is located north of Central City, Kentucky east of US Highway 431.

According to the USGS Central City East and Central City West, Kentucky Quadrangle 7.5-Minute Series Topographic maps, the elevation of the subject property area is between approximately 390 to 450 feet above mean sea level. The subject property has an elevation change of approximately 60 feet from the northern portion of the property to the southern portion of the subject property which abuts the Green River. Based on topographical information the regional ground water flow is anticipated to the southeast toward the Green River.

Based on a review of the US Department of Agriculture - Soil Conservation Service Soil Survey of Muhlenberg County, Kentucky, the central portion of the subject property is underlain by Zanesville silt loam. Zanesville has a slow infiltration rate. The soil is well drained and has a moderate corrosion potential. Depth to bedrock is greater than 40 inches. According to the EDR Zanesville soil is not classified as a hydric soil.

According to the Federal Emergency Management Agency (FEMA) floodplain information provided in the EDR, the subject property is located in the 500 year flood zone (2102930050B).

According to the EDR report (Appendix A), federal area radon information for Muhlenberg County indicates that Muhlenberg County is designated as a "Zone 2" (i.e., counties in which the predicted average indoor

radon screening level is greater than or equal to 2 picoCuries per liter [pCi/L], but less than or equal to 4 picoCuries per liter [pCi/L]). EDR reported that 1 site was tested for radon within Muhlenberg County. The average test results indicate levels of radon were 2.900 pCi/L in Basement living areas. The U.S. EPA Guideline for radon in residential dwellings is 4.0 pCi/L. The U.S. EPA does not have a guideline for radon in commercial or industrial buildings. It is ENSR's opinion that the area radon levels do not pose an environmental concern to the subject property.

#### 3.4 Historical use information on the subject property and adjacent sites

Information pertaining to historical uses of the subject property and surrounding area was obtained from the following publicly available and readily reviewable sources:

- Topographic maps: Central City East, Kentucky Quadrangle (1909, 1953, 1963, 1983, and 1997);
- Aerial Photographs: 1981, 1988, 1998 and 2006; and

Sanborn Fire Insurance maps were requested from EDR; however, Sanborn Fire Insurance maps were not available for the subject property or the immediately surrounding area.

A chronological history of the subject property and abutting property use is presented in Table 3-3.

#### Type of Level of Description Date(s) Document Concern 1909 Subject property and Abutting properties: The None **Topographic Map** subject property and surrounding properties are depicted as undeveloped land. 1953 **Topographic Map** Subject property and Abutting properties: The None subject property is depicted as developed and surrounding properties are depicted as undeveloped land. 1963 **Topographic Map** Subject property and Abutting properties: The None subject property is depicted as developed and surrounding properties are depicted as undeveloped land. Subject property and Abutting properties: The 1981 None Aerial Photograph subject property is depicted as developed and surrounding properties are depicted as undeveloped land. 1983 **Topographic Map** Subject property and Abutting properties: The None subject property is depicted as developed and surrounding properties are depicted as undeveloped land. Subject property and Abutting properties: The 1988 None Aerial Photograph subject property and properties to the west are developed with rural residential dwellings and buildings. 1997 Topographic Map Subject property and Abutting properties: The None subject property is depicted as developed and surrounding properties are depicted as undeveloped land. 1998 and Subject property and Abutting properties: The Aerial Photographs None subject property is depicted as developed and 2006 surrounding properties are depicted as undeveloped land.

### Table 3-3 Chronological Historical Subject Property and Abutting Property Use

#### 3.5 Previous environmental reports

No previously prepared environmental reports for the subject site were identified by E.ON personnel, or provided for review by ENSR.

# 4.0 Regulatory Considerations

ENSR conducted a review of available facility permits to assess its compliance with key local, state and federal environmental regulations. A summary of significant regulatory compliance considerations at the E.ON facility is provided below.

# 4.1 Title V Permitting

The Green River facility was granted their initial Title V permit application on September 17, 2004. A final revised Title V permit for the Green River facility was authorized on August 06, 2007. ENSR verified this data from a search of records through the KDEP Website. The Title V permit application is authorized for a period of five years from the date of initial issue. The original Title V permit for the Green River facility expires on August 06, 2012.

The granting of the final Title V permit for the Green River facility requires that semi-annual deviation reports and annual certification compliance reports be submitted during the life of the permit. According to the information provided by the Commonwealth of Kentucky, the facility has submitted annual compliance reports as required beginning in January 2005 through December 2007.

### 4.2 Waste Management

According to a 2007 Hazardous Waste Annual Report FORM 1, the Commonwealth of Kentucky Department for Environmental Protection issued the facility EPA identification number KYD-980-559-884.

# 4.3 Emergency Planning and Community Right-to-Know

Facilities that manufacture, use, or store chemicals any hazardous chemical/substance which requires an MSDS be kept on location is required to report these chemicals on an annual basis. The Superfund Amendments and Reauthorization Act (SARA) Section 312 outlines the requirements for companies that store chemicals at their location. This report is commonly known as the Tier Two Report. ENSR reviewed the 2007 Tier Two Report for the Green River facility. The facility filed a Tier Two Report due to the storage of the following chemicals: sodium hydroxide, sulfuric acid, turbine oil, diesel fuel oil #2, aluminum sulfate + polymer Klaraid solution, calcium oxide, and hydrazine.

SARA Section 313 outlines the requirements for reporting releases at facilities that manufacture, store, and/or use chemicals regulated under these regulations. This form is commonly known as the Toxic Release Inventory (TRI) Form R. ENSR has reviewed the 2005, 2006, and 2007 reports and these reports appeared completed.

# 4.4 Spill Prevention, Control & Countermeasure (SPCC) Plan

Facilities that engage in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to their location, could reasonably be expected to discharge oil in quantities that may be harmful, are regulated under 40 C.F.R. § 112. If the aggregate aboveground storage capacity of the facility is more than 1,320 gallons (only containers of oil with a capacity of 55 gallons or greater are counted), the facility is required to prepare and implement a Spill Prevention, Control and Countermeasure (SPCC) Plan. The plan was dated October 2006, and was certified on July 8, 2008. Current regulations require SPCC engineer recertification every 5 years.



### 4.5 Wastewater and Storm Water

On-site wastewater generation consist of five permitted discharge outfalls to the Green River and ash treatment basin. The facility is permitted (permit number KY0002011) by the Kentucky Department for Environmental Protection for these discharges. Outfall 001 is a combined discharge from the ash treatment basin metal cleaning wastes, coal pile runoff, and precipitation. Outfall 002 is discharge from cooling tower blowdown, backwash waters, and precipitation. Outfall 003 is internal outfall discharge of sanitary wastewaters. Outfall 004 is also an internal outfall discharge of metal cleaning wastes. Outfall 006 is the water intake point from the Green River.

ENSR reviewed the Discharge Monitoring Report (DMR) for Outfalls 001, 002, 003, 004, and 006 for March of 2008. No exceedences of the permit levels were detected.

# 5.0 Findings and opinion

ENSR performed a Desktop Phase I ESA of the Green River facility located at US Highway 431, Central City, Muhlenberg County, Kentucky to identify environmental concerns associated with the property. This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. As required the report will include ENSR's opinion on the need for additional investigations, data gaps, and ENSR's opinion of the significance of the data gaps. Upon receipt of your comments, the draft report will be finalized. However, the scope of a Phase I ESA is limited in scope and is not an exhaustive research of the subject property and surrounding area. ENSR will provide recommendations, should conditions suggesting the need for additional study be observed.

# 5.1 Environmental Concerns

No environmental concerns were identified at the Green River facility during the desktop Phase I ESA.

# 6.0 References and contacts

Hawkins, Mary, Commonwealth of Kentucky, Department for Environmental Protection, Division for Air Quality, 502-564-3999.

Department Representative, Central City Fire Department, 203 N Second Street, Central City, KY.

Voyles, John, Vice President, Transmission & Generation Services, john.voyles@eon-us.com.

### 6.1 Reports and documents reviewed

- ASTM 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- Aerial Photographs dated 1981, 1988, 1998, and 2006; US obtained from Environmental Data Resources, Inc., Southport, CT.
- EDR-Radius Map with Geocheck<sup>®</sup>, Kentucky Utilities Co. Green River, US 431 PO Box 191, Central City, KY 42330.

Facility files, Kentucky Utilities Co. - Green River, US 431 PO Box 191, Central City, KY 42330.

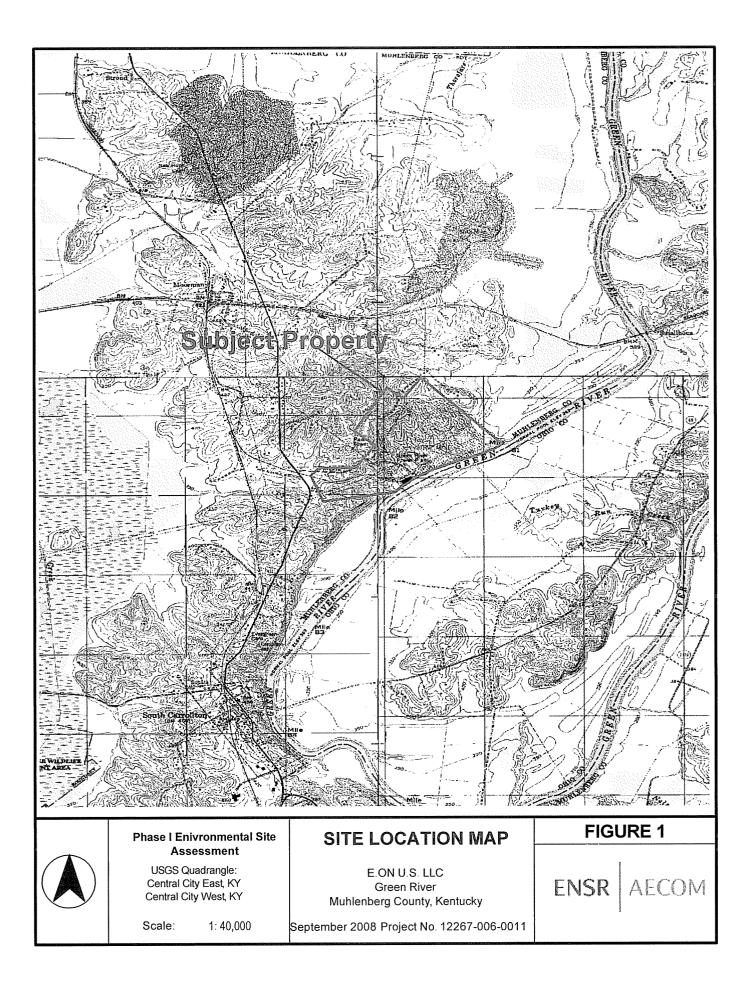
- Historic Topographic Maps dated 1909, 1953, 1963, 1983, and 1997 obtained from Environmental Data Resources, Inc., Southport, CT.
- Best Management Practices and Spill Prevention, Control, and Countermeasure Plan, Green River Generating Station, October 2006.
- Title V Air Quality Permit, V-06-014, Green River Generating Station.

NPDES Permit, KY0002011, Green River Generating Station.

TRI Form R, Green River Generating Station, 2005, 2006, and 2007.

ENSR AECOM

# Figures





Appendix A

**EDR Report** 

# Kentucky Utilities Co. - Green River

US 431 PO Box 191 Central City, KY 42330

Inquiry Number: 02299758.2r August 21, 2008

# The EDR Radius Map<sup>™</sup> Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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### **GEOCHECK ADDENDUM**

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

US 431 PO BOX 191 CENTRAL CITY, KY 42330

#### COORDINATES

Latitude (North):	37.366570 - 37° 21' 59.7"
Longitude (West):	87.124940 - 87° 7' 29.8"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	488936.7
UTM Y (Meters):	4135341.8
Elevation:	479 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	37087-C2 CENTRAL CITY WEST, KY
Most Recent Revision:	2001
North Map:	37087-D2 LIVERMORE, KY
Most Recent Revision:	1983
Northeast Map:	37087-D1 EQUALITY, KY
Most Recent Revision:	1983
East Map:	37087-C1 CENTRAL CITY EAST, KY
Most Recent Revision:	1997

#### TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

#### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### FEDERAL RECORDS

NPL..... National Priority List

Proposed NPI	Proposed National Priority List Sites
	National Priority List Deletions
NPL LIENS	
	Comprehensive Environmental Response, Compensation, and Liability Information System
	CERCLIS No Further Remedial Action Planned
	CERCLA Lien Information
CORRACTS	RCRA - Transporters, Storage and Disposal
	RCRA - Large Quantity Generators
	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen	RCRA - Non Generators
US ENG CONTROLS	Engineering Controls Sites List
	Sites with Institutional Controls
	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
DOT OPS	Incident and Accident Data
US CDL	Clandestine Drug Labs
	A Listing of Brownfields Sites
DOD	Department of Defense Sites
	Formerly Used Defense Sites
	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	
	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
	Torres Martinez Reservation Illegal Dump Site Locations
MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS.	Integrated Compliance Information System
PADS	PCB Activity Database System
	Material Licensing Tracking System
	Radiation Information Database
	Facility Index System/Facility Registry System
	RCRA Administrative Action Tracking System

### STATE AND LOCAL RECORDS

UST	Solid Waste Facilities List Historical Landfills SB193 Branch Site Inventory List Underground Storage Tank Database Engineering Controls Site Listing State Superfund Database Voluntary Cleanup Program Sites Drycleaner Listing Kentucky Brownfield Inventory
BROWNFIELDSK	Kentucky Brownfield Inventory Clandestine Drub Lab Location Listing
NPDES P	Permitted Facility Listing

AIRS	Permitted Airs Facility Listing
LEAD.	Environmental Lead Program Report Tracking Database
PSTEAF	

### TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
INDIAN VCP	Voluntary Cleanup Priority Listing

### EDR PROPRIETARY RECORDS

Manufactured Gas Plants\_\_\_\_\_ EDR Proprietary Manufactured Gas Plants

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

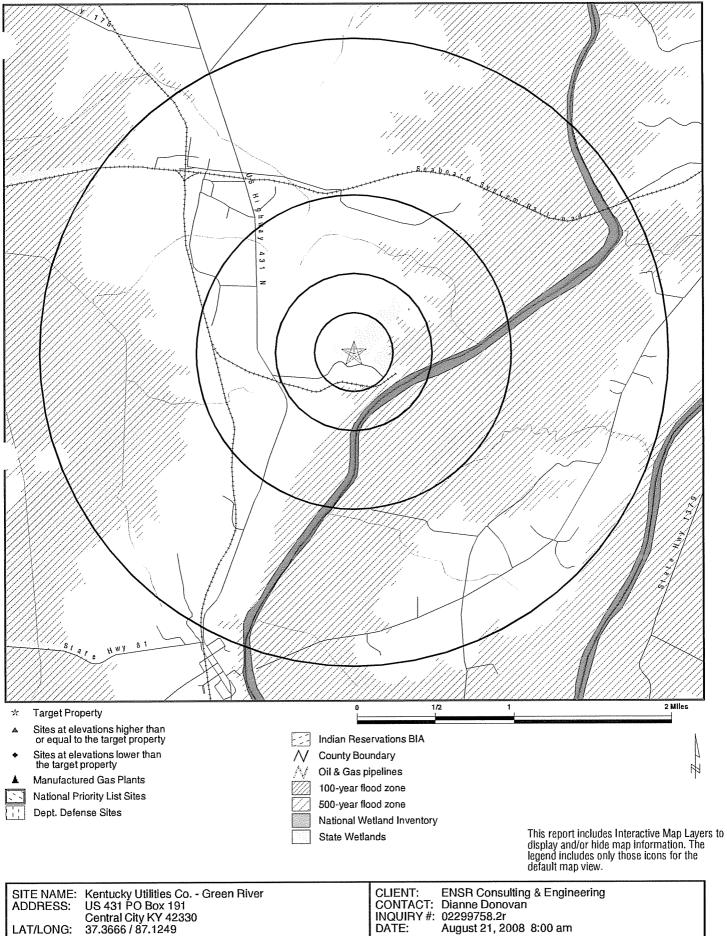
Due to poor or inadequate address information, the following sites were not mapped:

#### Site Name

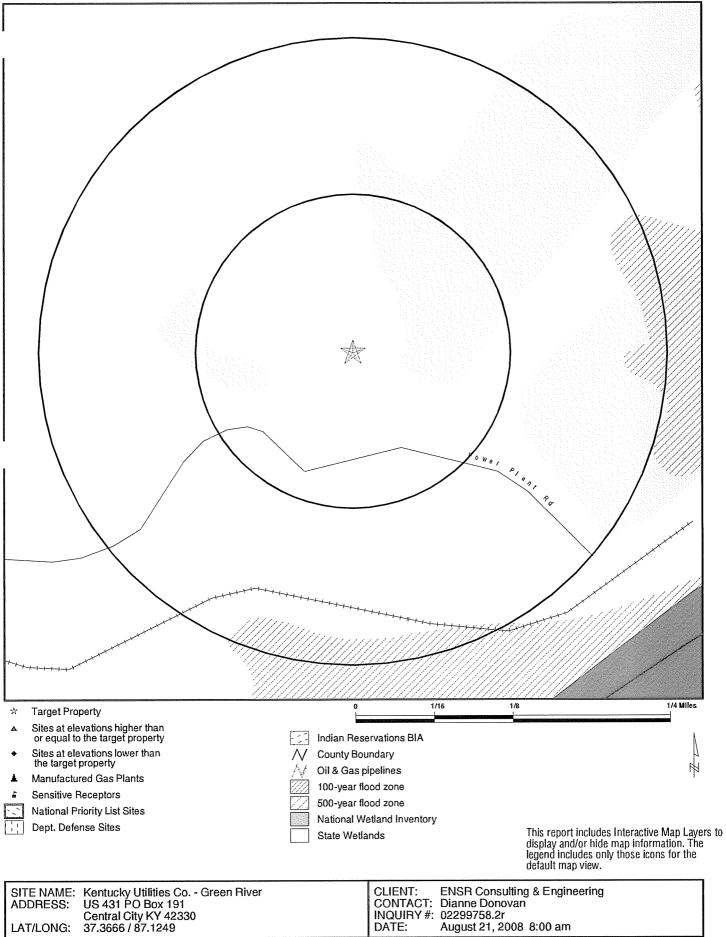
WILLIAM B GREENWOOD LANDFILL **D B WILSON STATION LANDFILL** JACK LITTLEFIELD/BRICO INDUSTRIES JACK LITTLEFIELD SCRAPYARD WILLAMETTE INDUSTRY-BLEACHED PULP JACK LITTLEFIELD/BRICO INDUSTRIES AMAX INC AYRGEM MINE KENTUCKY UTIL CO GREEN RIVER POWER BOBBY WHITAKER PROPERTY **GENES GROCERY** MCDOWELLS TEXACO STEVES MOBILE HOME SERVICE GENE'S GROCERY STEVE'S MOBILE HOME SERVICE SMITH'S GROCERY DAUGHTERY'S GROCERY HEDDEN'S GROCERY ROY ELLIOTT'S SERVICE SHAVER S BODY SHOP **MINSERCO INC** PEABODY COAL COMPANY/GIBRALTER MIN SHAVER S BODY SHOP LLC PEABODY COAL CO./MARTWICK MINE PC KENTUCKY SYNTHETIC FUEL#3 LLC WEST KENTUCKY COAL COMPANY KENTUCKY UTILITIES CO GREEN RIVER **BICKETT AGRI. CENTER #1 BICKETT AGRI CENTER #1 BICKETT AGRI CTR #1** 907 HWY 602 565 N HWY 181 CENTERTOWN STP PEABODY COAL CO LLC PEABODY COAL CO CENTER PREP PC KY SYNTHETIC FUEL #3 LLC MEUTH CONCRETE SERVICES VAUGHT BROTHERS LUMBER CO SCHOATE MINING CO LLC PEABODY COAL CO GILBRALTAR

Database(s) HIST LF HIST LF FINDS, FTTS, HIST FTTS FINDS, FTTS, HIST FTTS FTTS, HIST FTTS **CERC-NFRAP** FINDS, CERC-NFRAP, RCRA-NonGen FINDS, CERC-NFRAP, RCRA-CESQG UST, PSTEAF UST, PSTEAF UST, PSTEAF UST, PSTEAF SB193 SB193 SB193 SB193 SB193 SB193 FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-CESQG FINDS, RCRA-CESQG FINDS, RCRA-CESQG FINDS FINDS TRIS ICIS ICIS ICIS US CDL US CDL NPDES NPDES NPDES NPDES NPDES NPDES NPDES NPDES

### **OVERVIEW MAP - 02299758.2r**



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Copyright @ 2008 EDR, Inc. @ 2007 Tale Atlas Rel. 07/2006.

# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	>1	Total Plotted
FEDERAL RECORDS								
NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-NonGen US ENG CONTROLS US INST CONTROL ERNS HMIRS DOT OPS US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA ODI DEBRIS REGION 9 MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS		1.500 1.500 1.500 1.000 1.000 1.000 1.000 0.500 1.500 0.750 0.750 0.750 0.750 0.750 1.000 1.000 1.000 1.500 1.000 1.500 0.50				0 0 0 R 0 0 R 0 0 0 0 0 0 0 0 R R R R 0	0 0 0 RRRR 0 R RRR R R R R R R R R 0 0 R 0 0 R	000000000000000000000000000000000000000
RADINFO FINDS RAATS		0.500 0.500 0.500	0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
STATE AND LOCAL RECOR	DS	0.000	0	0	0		T VE X	v
SHWS SWF/LF HIST LF SB193 UST		1.500 1.000 1.000 1.000 0.750	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 NR NR NR NR	0 0 0 0

# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
ENG CONTROLS		0.500	0	0	0	NR	NR	0
INST CONTROL		1.000	0	0	0	0	NR	0
VCP		1.000	0	0	0	0	NR	0
DRYCLEANERS		0.750	0	0	0	0	NR	0
BROWNFIELDS		1.000	0	0	0	0	NR	0
CDL		0.500	0	0	0	NR	NR	0
NPDES		0.500	0	0	0	NR	NR	0
AIRS		0.500	0	0	0	NR	NR	0
LEAD		0.500	0	0	0	NR	NR	0
PSTEAF		1.000	0	0	0	0	NR	0
TRIBAL RECORDS								
INDIAN RESERV		1.500	0	0	0	0	0	0
INDIAN ODI		1.000	0	0	0	0	NR	0
INDIAN LUST		1.000	0	0	0	0	NR	0
INDIAN UST		0.750	0	0	0	0	NR	0
INDIAN VCP		1.000	0	0	0	0	NR	0
EDR PROPRIETARY RECOR	RDS							
Manufactured Gas Plants		1.500	0	0	0	0	0	0

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction		MAP FINDINGS		
Distance				EDR ID Number
Elevation	Site		Database(s)	EPA ID Number

NO SITES FOUND

E

Zip Database(s)		42328 HIST LF
Site Address	<ul> <li>HWY 68</li> <li>HWY 85 W</li> <li>HWY 85 W</li> <li>HWY 85 W</li> <li>KY HWY 85</li> <li>OFF KY HWY 81</li> <li>SOUTE 3 BOX 357A</li> <li>ROUTE 47</li> <li>HWY 431</li> <li>HWY 431</li> <li>ROUTE 47</li> <li>HICHWAY 62</li> <li>WEST-ROUTE 1</li> <li>HUWY 62</li> <li>HWY 62</li> <li>HWY 62</li> <li>MWY 61</li> <li>GIBRALTAR HICHWAY MINE</li> <li>US HWY 431</li> <li>GIO GIBRALTAR HICHWAY MINE</li> <li>UN 431</li> <li>GIO GIBRALTAR HICHWAY MINE</li> <li>UN 431</li> <li>GIO GIBRALTAR HICHWAY MINE</li> <li>HWY 181</li> <li>GIO GIBRALTAR HICHWAY MINE</li> <li>UN 431</li> <li>GIO GIBRALTAR HICHWAY MINE</li> <li>HWY 431</li> <li>HWY</li></ul>	HWY 85
Site Name		
EDR ID	<ul> <li>U004010374</li> <li>S106987402</li> <li>S108905555</li> <li>S10890520313</li> <li>U005416203</li> <li>1005416203</li> <li>1005416203</li> <li>1005416203</li> <li>1005416203</li> <li>S108903862313</li> <li>1005416203</li> <li>1005416203</li> <li>S108983862</li> <li>1005416203</li> <li>S108983863</li> <li>S108983863</li> <li>S108983863</li> <li>S108983863</li> <li>S108983863</li> <li>S108983863</li> <li>S108983863</li> <li>S108987405</li> <li>S106987405</li> <li>S108687405</li> <li>S1087405</li> </ul>	S103849744
Citv	CENTERTOWN CENTERTOWN CENTERTOWN CENTERTOWN CENTERTOWN CENTRAL CITY CENTRAL CITY	MATANZA

ORPHAN SUMMARY

TC02299758.2r Page 7

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To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

#### FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

#### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425 (e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 26

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 07/22/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

#### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008 Number of Days to Update: 76 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 06/17/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/13/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2008	Telephone: 202-564-6023
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/26/2008
Date Data Arrived at EDR: 04/02/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Quarterly

#### RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

#### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 04/04/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 04/04/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

#### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 01/23/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 54 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 07/25/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Annually

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/16/2008	Telephone: 202-366-4555
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 07/15/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/13/2008
	Data Release Frequency: Annually

#### DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 05/28/2008
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/25/2008
	Data Release Frequency: Varies

#### CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007 Number of Days to Update: 25 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 06/27/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 04/30/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 30 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 08/31/2007 Date Made Active in Reports: 10/11/2007 Number of Days to Update: 41 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 31 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 02/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 35	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Varies
ROD: Records Of Decision Record of Decision. ROD documents mandal and health information to aid in the cleanup.	te a permanent remedy at an NPL (Superfund) site containing technical
Date of Government Version: 01/14/2008 Date Data Arrived at EDR: 01/22/2008 Date Made Active in Reports: 01/30/2008 Number of Days to Update: 8	Source: EPA Telephone: 703-416-0223 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Annually
shut down, large piles of the sand-like materi the ore. Levels of human exposure to radioa	s for federal government use in national defense programs. When the mills al (mill tailings) remain after uranium has been extracted from ctive materials from the piles are low; however, in some cases tailings he potential health hazards of the tailings were recognized.
Date of Government Version: 07/13/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Varies
DDI: Open Dump Inventory An open dump is defined as a disposal facilit Subtitle D Criteria.	y that does not comply with one or more of the Part 257 or Part 258
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation A listing of illegal dump sites location on the County and northern Imperial County, Califor	Torres Martinez Indian Reservation located in eastern Riverside
Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
MINES: Mines Master Index File Contains all mine identification numbers issu violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 02/07/2008 Date Data Arrived at EDR: 03/26/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 23	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 06/25/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Semi-Annually

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water a land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 08/11/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27 Source: EPA/Office of Prevention, Pesticides and Toxic Substances Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/11/2008	Source: EPA
Date Data Arrived at EDR: 04/24/2008	Telephone: 202-566-1667
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 06/16/2008
Number of Days to Update: 27	Next Scheduled EDR Contact: 09/15/2008
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

#### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007 Date Data Arrived at EDR: 02/07/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 39 Source: EPA Telephone: 202-566-0500 Last EDR Contact: 08/07/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

#### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/22/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/29/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/01/2008	Telephone: 202-343-9775
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 07/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

#### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/08/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 28 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

#### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007 Number of Days to Update: 38 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/11/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Biennially

#### STATE AND LOCAL RECORDS

#### SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 06/18/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 33 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Semi-Annually

, .	formation that is not included in the landfill listing. A able by the Department of Environmental Protection.
Date of Government Version: 05/01/2003 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006 Number of Days to Update: 32	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: No Update Planned
SB193: SB193 Branch Site Inventory List The inventory indicates facilities that have perf storage tank facility and have known soil and/o	ormed permanent closure activities at a regulated underground or groundwater contamination.
Date of Government Version: 09/05/2006 Date Data Arrived at EDR: 09/13/2006 Date Made Active in Reports: 10/18/2006 Number of Days to Update: 35	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/04/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: No Update Planned
	s are regulated under Subtitle I of the Resource Conservation and Recovery ate department responsible for administering the UST program. Available
Date of Government Version: 04/14/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly
ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls.	3
Date of Government Version: 04/18/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
INST CONTROL: State Superfund Database A list of closed sites in the State Superfund Da uses Contained or Managed as a Closure Opti	tabase. Institutional controls would be in place at any site that ion.
Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
VCP: Voluntary Cleanup Program Sites Sites that have been accepted into the Volunta	ary Cleanup Program or have submitted an application.
Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.

Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 10 Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

Source: Division of Compliance Assistance

Next Scheduled EDR Contact: 11/10/2008

Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

Next Scheduled EDR Contact: 09/01/2008

Source: Department of Environmental Protection

#### BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Telephone: 502-564-0323

Telephone: 502-564-6716

Telephone: 502-564-3410 Last EDR Contact: 06/02/2008

Last EDR Contact: 06/03/2008

Last EDR Contact: 08/12/2008

Data Release Frequency: Varies

Date of Government Version: 05/13/2008 Date Data Arrived at EDR: 05/13/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 6

CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

> Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31

#### NPDES: Permitted Facility Listing A listing of permitted wastewater facilities.

Date of Government Version: 06/20/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 24

AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities.

> Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 27

Data Release Frequency: Varies Source: Department of Environmental Protection

Source: Department of Environmental Protection

Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 05/07/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 12 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/05/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Quarterly

Lead Report Tracking Database	
Date of Government Version: 10/26/2007 Date Data Arrived at EDR: 01/07/2008 Date Made Active in Reports: 01/25/2008 Number of Days to Update: 18	Source: Department of Public Health Telephone: 502-564-4537 Last EDR Contact: 07/03/2008 Next Scheduled EDR Contact: 09/01/2008 Data Belages Ergeuency: Varies
TRIBAL RECORDS	Data Release Frequency: Varies
INDIAN RESERV: Indian Reservations This map layer portrays Indian administered than 640 acres.	lands of the United States that have any area equal to or greate
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 34	Source: USGS Telephone: 202-208-3710 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually
INDIAN ODI: Report on the Status of Open Dump: Location of open dumps on Indian land.	s on Indian Lands
Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Environmental Protection Agency Telephone: 703-308-8245 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Varies
INDIAN LUST R10: Leaking Underground Storage LUSTs on Indian land in Alaska, Idaho, Oreg	
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 05/30/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 70	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN LUST R9: Leaking Underground Storage LUSTs on Indian land in Arizona, California, I	
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN LUST R8: Leaking Underground Storage LUSTs on Indian land in Colorado, Montana,	Tanks on Indian Land North Dakota, South Dakota, Utah and Wyoming.
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN LUST R7: Leaking Underground Storage LUSTs on Indian land in Iowa, Kansas, and N	
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008

INDIAN LUST R4: Leaking Underground Storage LUSTs on Indian land in Florida, Mississippi a	
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
INDIAN LUST R1: Leaking Underground Storage A listing of leaking underground storage tank	
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R1: Underground Storage Tanks on A listing of underground storage tank locatior	
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R4: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
INDIAN UST R5: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 12/21/2007 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 34	Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R6: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007 Number of Days to Update: 21	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R8: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R9: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks or No description is available for this data	Indian Land
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 42	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN VCP R1: Voluntary Cleanup Priority Listin A listing of voluntary cleanup priority sites loc	
Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
INDIAN VCP R7: Voluntary Cleanup Priority Lisitn A listing of voluntary cleanup priority sites loc	
Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
EDR PROPRIETARY RECORDS	

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data Facility and manifest data. Manifest is a docu transporters to a tsd facility.	ument that lists and tracks hazardous waste from the generator through
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007 Number of Days to Update: 66	Source: Department of Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/13/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually
NY MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks h facility.	nazardous waste from the generator through transporters to a TSD
Date of Government Version: 05/27/2008 Date Data Arrived at EDR: 05/29/2008 Date Made Active in Reports: 07/10/2008 Number of Days to Update: 42	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 05/29/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Annually
PA MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/10/2008 Number of Days to Update: 20	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
RI MANIFEST: Manifest information Hazardous waste manifest information	
Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008 Number of Days to Update: 65	Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 04/27/2007 Date Made Active in Reports: 06/08/2007 Number of Days to Update: 42

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

#### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are

comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States. Daycare Centers: Certified Child Care Homes

Source: Cabinet for Families & Children

Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### STREET AND ADDRESS INFORMATION

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# **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

#### TARGET PROPERTY ADDRESS

KENTUCKY UTILITIES CO. - GREEN RIVER US 431 PO BOX 191 CENTRAL CITY, KY 42330

#### TARGET PROPERTY COORDINATES

Latitude (North):	37.36657 - 37° 21' 59.7"
Longitude (West):	87.12494 - 87° 7' 29.8"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	488936.7
UTM Y (Meters):	4135341.8
Elevation:	479 ft. above sea level

#### USGS TOPOGRAPHIC MAP

Target Property Map:	37087-C2 CENTRAL CITY WEST, KY
Most Recent Revision:	2001
North Map:	37087-D2 LIVERMORE, KY
Most Recent Revision:	1983
Northeast Map:	37087-D1 EQUALITY, KY
Most Recent Revision:	1983
East Map:	37087-C1 CENTRAL CITY EAST, KY
Most Recent Revision:	1997

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

#### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

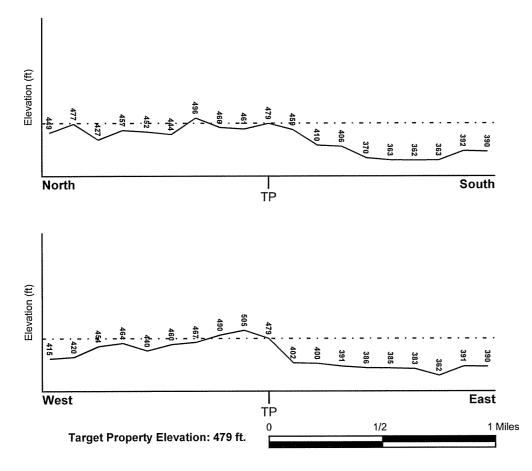
#### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### FEMA FLOOD ZONE

Target Property County MUHLENBERG, KY	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2102930050B
Additional Panels in search area:	21183C0150C
NATIONAL WETLAND INVENTORY	NWI Electronic
NWI Quad at Target Property CENTRAL CITY EAST	Data Coverage Not Available

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

#### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### ROCK STRATIGRAPHIC UNIT

#### **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic Category	: Stratifed Sequence
System:	Pennsylvanian	
Series:	Missourian Series	
Code:	PP3 (decoded above as Era, System & Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	ZANESVILLE	
Soil Surface Texture:	silt loam	
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.	
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.	
Hydric Status: Soil does not meet the requirements for a hydric soil.		
Corrosion Potential - Uncoated Steel: MODERATE		

Depth to Bedrock Min: >
-------------------------

Depth to Bedrock Max:	> 40 inches
-----------------------	-------------

	Soil Layer Information						
	Bou	Indary		Classi	fication		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
2	7 inches	28 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
3	28 inches	39 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.60 Min: 0.06	Max: 6.00 Min: 4.50
4	39 inches	60 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 2.00 Min: 0.20	Max: 6.00 Min: 4.50
5	60 inches	64 inches	unweathered bedrock	Not reported	Not reported	Max: 0.20 Min: 0.00	Max: 0.00 Min: 0.00

#### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:	channery - silt loam
Surficial Soil Types:	channery - silt loam
Shallow Soil Types:	silty clay loam silty clay
Deeper Soil Types:	weathered bedrock silt loam

#### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

#### WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

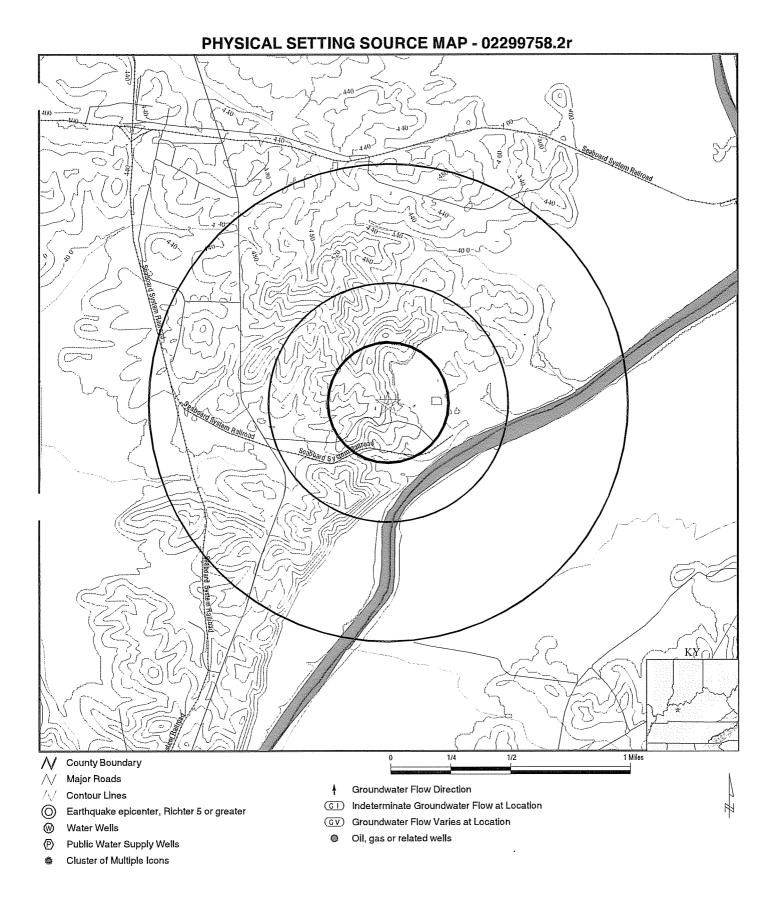
#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

#### STATE DATABASE WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		



SITE NAME: Kentucky Utilities Co Green River	CLIENT: ENSR Consulting & Engineering
ADDRESS: US 431 PO Box 191	CONTACT: Dianne Donovan
Central City KY 42330	INQUIRY #: 02299758.2r
LAT/LONG: 37.3666 / 87.1249	DATE: August 21, 2008 8:00 am

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

#### AREA RADON INFORMATION

Federal EPA Radon Zone for MUHLENBERG County: 2

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 42330

#### Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.900 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5<sup>1</sup> Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water Telephone: 202-564-3750 Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey Telephone: 859-257-5500 Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

#### **OTHER STATE DATABASE INFORMATION**

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

#### RADON

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

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# Attachment to Question No. 30 7 of 8

Voyles

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY



# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for Louisville Gas & Electric Company – Trimble County Power Generation Station, Trimble County, Kentucky

ENSR Corporation August 21, 2008 Document No.: 12267-006-001

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY

# FINAL DRAFT

Desktop Phase 1 Environmental Site Assessment for Louisville Gas & Electric Company – Trimble County Power Generation Station, Trimble County, Kentucky

Buandi Kapper

Prepared By Brandi Kasper Senior Staff Scientist

Reviewed By Russell G. Turner Compliance Group Section Manager

ENSR Corporation August 21, 2008 Document No.: 12267-006 -001



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Appendix A EDR Report

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Figure 1 Site Location Map

# 1.0 Introduction

### 1.1 Purpose

E.ON U.S., LLC (E.ON) requested ENSR Corporation (ENSR) to perform a Desktop Phase I environmental site assessment (ESA) to identify recognized environmental conditions (RECs) at the Louisville Gas & Electric Company Trimble County Power Generation Station located in Bedford, Trimble County, Kentucky (hereinafter referred to as the "subject property"). ENSR received authorization to perform the Phase I ESA on August 15, 2008. ENSR representatives Ms. Brandi Kasper, Senior Staff Scientist conducted the desktop ESA between August 18, 2008 and September 15, 2008.

#### 1.2 Scope-of-work

This assessment has been performed in accordance with ENSR's Proposal number 12267-A12, dated August 14, 2008. Tasks performed by ENSR as a part of the Desktop Phase I ESA are described in the proposal.

This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. Upon receipt of your comments, the draft report will be finalized. However, the scope of this desktop ESA is limited in scope and is not an exhaustive research of the subject property and surrounding area.

#### 1.3 Study limitations

This report describes the results of ENSR's limited due diligence assessment to identify the presence of environmental liabilities materially affecting the subject property utilizing publicly available, practically reviewable and reasonably ascertainable information. Under the authorized scope of work, no site visit was completed and the information presented herein is based solely on data obtained from public sources or data provided by the client.

In the conduct of this due diligence investigation, ENSR has attempted to independently assess the presence of such liabilities within the limits of the established scope of work as described in our proposal. As with any due diligence evaluation, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable or supported by any available written documentation. ENSR shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by ENSR in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of ENSR's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report, including all supporting field data and notes (collectively referred to hereinafter as "information"), was prepared or collected by ENSR for the benefit of its client, E.ON U.S. LLC (E.ON). The information may be released to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall create no rights, obligations, or liabilities on the part of ENSR with respect to any such party. The information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should ENSR be required to review the report after six (6) months from its date of submission, ENSR shall be entitled to



additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the client.

•

# 2.0 Site description

## 2.1 Location

The subject property is located 5.3 miles west of Bedford Kentucky, on the left descending back of the Ohio River at River Mile 572. The entire site covers 2,127 acres. The active plant site, which consists of 1,004 acres, is bordered by State Highway 1838 (Corn Creek Road) on the east, Corn Creek on the north, the Ohio River on the west and State Highway 754 on the south. The remaining 1,123 acres are located east of State Highway 1838. The surrounding area consists of undeveloped land and agriculture land.

Figure 1 provides a site location map for the subject property.

## 2.2 Current use of the subject property

Louisville Gas & Electric, a subsidiary of E.ON U.S. of Louisville, Kentucky, owns and operates the Trimble County Generating Station (subject property). The subject property currently has one coal-fired steam-electric unit with a gross generating capacity of 566 megawatts (MW) and six, natural gas-fired simple-cycle combustion turbines rated at 153 MW each. Condenser cooling for the coal-fired unit is achieved using closed-cycle cooling with a hyperbolic, natural draft, cooling tower.

The coal-fired unit began operations in 1990 and all of the combustion turbines were placed in service between 2002 and 2004. The coal-fired unit is served by a 748-ft. high concrete stack and pollution control devices including: low-NOx burners; a selective catalytic reduction (SCR) module; a coal fly-ash electrostatic precipitator (ESP); a flue gas desulfurization (FGD) module; and a large hyperbolic natural-draft cooling tower. The plant is staffed 24 hours/day, 365 days per year. Trimble County burns millions of tons of coal per year, transported by barge. This facility maintains an on-site lab that performs regulatory analysis. Approximately 94 personnel maintain full-time employment.

A second coal-fired unit is under construction, and is scheduled to begin operation in 2010. The design of the new unit includes a 750-MW supercritical boiler, a selective catalytic reduction (SCR) module; a coal fly-ash electrostatic precipitator (ESP); a flue gas desulfurization system, and a wet electrostatic precipitator (WESP). The existing hyperbolic, natural draft cooling tower will be utilized on the new unit and a new mechanical draft cooling tower has been constructed and is in operation on the original coal-fired unit.

According to the SPCC plan the following aboveground storage tanks are located on the subject property:

Material	Maximum Gallons	Location/Comments
Gear Oil	60	Outside, steel, "B" coal conveyor speed reducer reservoir, coal pile area
Gear Oil	65	Outside, steel, "C" coal conveyor speed reducer reservoir, coal pile area
Gear Oil	150	Outside, steel, "C" coal conveyor speed reducer reservoir, coal pile area
Gear Oil	60	Outside, steel, "F-1" coal conveyor speed reducer reservoir, coal pile area
Gear Oil	60	Outside, steel, "F-2" coal conveyor speed reducer reservoir, coal pile area
Gear Oil	600	Outside, steel, "E" coal conveyor speed reducer reservoir, coal pile area

Material	Maximum Gallons	Location/Comments
Limestone Reactar	nt Preparatio	on
Gear Oil	65	Outside, steel, "A" limestone conveyor speed reducer reservoir, limestone pile area
Grease/Gear lube	55	Inside, steel drum portable dispenser, concrete floor
Lube Oil	500	Inside, steel, limestone grinding mills lube oil reservoirs, (2 @ 250 gal)
SDRS Building		
Motor Oil (Mixed Grades)	330 (6 drums)	Inside, steel drum, drum containment pallets, concrete floor
Hydraulic Fluid	55 (1 drum)	Same
Synthetic Oil	110 (2 drums)	Same
Material Handling	Maintenance	e Garage
Motor Oil 30W	275	Inside maintenance bldg, plastic tote, containment pallet, concrete floor
Transmission Fluid	330	Same
Hydraulic Oil	330	Same
Gear Compound	330 (6 drums)	Same
Degreaser Fluid	55	Same
Used Oil	110 (2 drums)	Same
New Antifreeze	220	Same
Water Intake Scree	n House	· ·
Turbine Oil	165	Inside, steel drums, secondary containment pallet,
Grease/Gear lube	165	Same
Ammonium Hydroxide (21%) <i>(Aqua Ammonia)</i>	110 gal. 2 drums	Inside Unit 1 building adjacent the water purity analysis room, area drains to sumps & pumped to the ATB
Hydrazine (35%) Cortrol OS5035	180 gal.	Inside main building, Unit 1, semi-bulk/portable, adjacent water purity analysis room, drains to sumps & pumped to the ATB
Tri-Sodium Phosphate (TSP)	175	Inside main building, Unit 1, stainless steel day tank (batch w/ mixer); (same drainage)

Material	Maximum Gallons	Location/Comments
Molybdate Corroshield MD4105	300 gal.	Inside main building, Unit 1, semi-bulk/portable, NE corner ground floor (same drains)
Sodium Hydroxide (50%)	13,900 gal. 880 gal.	Inside water treatment building, steel ASTs, water treatment building, concrete curbed, drains to the demineralizer waste sump & pumped to ATB. Day tank adjacent DM unit (inside, same)
Sulfuric Acid (93%)	27,000 gal. 800 gal. 800 gal.	Outside water treatment building, steel AST, adjacent-east of water treatment building, concrete berm, no drain, Day tank, adjacent DM unit, inside, curbed, drain to demineralizer waste sump & pumped to ATB – water treatment building
HEDP <i>Depositrol BL5400</i> (Anti-scalant/ Dispersant)	3,000 gal.	Inside water treatment building, plastic AST, water treatment building curbed, area drains to the demineralizer waste sump & pumped to the ATB.
Polymer/Coagulant (Klaraid CDP1302)	850 gal.	Inside water treatment building, plastic AST, water treatment building curbed, area drains to the demineralizer waste sump & pumped to the ATB.
Sodium Bromide	1,600 gal.	Outside water treatment building, plastic AST, water treatment building curbed, area drains to the Sediment Retention Basin.
Sodium Hypochlorite (12.5%)	3,000 gal.	Outside water treatment building, plastic AST, water treatment building curbed, area drains to the Sediment Retention Basin.
Sodium Bicarbonate (Soda Ash)	2400 lbs	Inside water treatment building, palletized 50 # bags,
Calcium Hypochlorite (bleach)	200 lbs	Inside water treatment building, plastic 100# pails,
Sodium Sulfite	1,200 lbs	Inside water treatment building, palletized 50 # bags,
Trisodium Phosphate	350 lbs	Inside water treatment building, palletized 50 # bags,
Soda ash	50# bags	Inside warehouse building, palletized, concrete floor
Sodium sulfite	50# bags	Inside warehouse building, palletized, concrete floor
Sodium bicarbonate	50# bags	Inside warehouse building, palletized, concrete floor
Anhydrous Ammonia	32,000 gal 32,000 gal	Outside Shelter Bldg, concrete berm with water deluge system, area drain to sediment retention basin (#001) – Ammonia storage facility

Material	Maximum Gallons	Location/Comments
FlowPro 1512	Empty (4,000 gal)	<i>Water Intake Chemical Treatment Tank</i> Outside River Intake Screenhouse Bay, plastic AST, plastic secondary containment tank
Drummed Oily Rags, Absorbent, etc,	Typical 50 drums	Oily Solid Wastes – Drum Storage Area – Warehouse Building Inside, steel drums, concrete floor
Lubrication Oil (Mixed Grades)	550 gal (10 drums)	Inside main unit building warehouse, steel drums, palletized, concrete floor
Electro-Hydraulic Fluid	110 gal	Inside main unit building warehouse, steel drums, palletized, concrete floor
Ethylene/Propylene Glycol	110 gal	Inside main unit building warehouse, steel drums, palletized, concrete floor

## 2.3 Utilities

The primary source of groundwater in the area is the alluvial aquifer within the Ohio River Valley, which is about 130 feet thick, and flows westward toward the Ohio River. The water table is approximately 50 feet deep. The Silurian limestone aquifer underlies the alluvium. The two aquifers are hydrologically connected. The plant has 3 large diameter production wells installed, but not used; there are about 20 small-diameter groundwater monitoring wells also installed on-site. There are several domestic water wells located within a mile of the plant site.

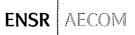
Essentially all water serving the plant is withdrawn from an intake structure located in the Ohio River. Cooling water is recycled through the use of the new mechanical draft cooling tower. The existing hyperbolic, natural draft cooling tower will be used on the new unit in 2010. These towers are constructed to minimize the thermal effects of cooling waters on the Ohio River. The Ohio River is used for navigation, commercial and recreational fishing and recreational boating.

The plant generates several wastes which are "exempt" under 40 CFR Part 261.4. These non-hazardous special wastes include fly ash, bottom ash, boiler slag, and flue gas desulfurization (FGD) solid by-products (gypsum). If not marketed or beneficially used, the coal ash wastes are disposed of and treated in a large onsite surface impoundment (ash treatment basin-ATB) designed for re-use of ash sluice waters with no discharge into the Ohio River, consistent with the facility's KPDES permit. FGD by-product gypsum is slurried to a dewatering facility to market nearly all of the gypsum produced to a nearby wallboard manufacturer. Unmarketed gypsum and waste waters are routed into the zero-discharge ATB. The ATB covers 95 acres and has a remaining storage life approximately 4 years.

All waters serving the plant are withdrawn from two intake structures located in the Ohio River. Cooling water is recycled through the use of cooling towers.

Sanitary wastes are treated in a septic tank and lateral fields, except combustion turbine area sanitary wastes are collected and privately contracted to a treatment facility for disposal.

Storm water runoff from the areas where raw materials, petroleum products and toxic or hazardous substances are stored or used on the site is routed to pollution control devices (oil/water separator and/or retention ponds) before being discharged to the receiving water. This applies wherever a possibility for contamination exists. The plants' KPDES permit requires identification and calculation of site drainage to nearby waterways.



The subject property obtains power from the generating station for site operations.

## 2.4 Current use of adjoining properties

The following table provides a description of the properties adjacent to the boundaries of the subject property, based on ENSR's review of aerial photographs.

## Table 2-1 Adjacent Land Use

Direction from site	Adjacent land use description
North	Vacant undeveloped land.
East	Vacant undeveloped land.
South	Vacant undeveloped land.
West	The Ohio River

Based on a review of aerial photographs the land surrounding the facility is characterized by agriculture land and vacant undeveloped land.

# 3.0 Records information

## 3.1 Standard environmental records

Standard environmental record sources are defined in Section 8.2.1 of the ASTM-05 standard "Phase I Environmental Site Assessment Process". These records consist of selected federal and state environmental databases. ASTM also specifies the appropriate search distances from the subject property for which these records should be reviewed. ENSR retained the services of Environmental Data Resources, Inc. (EDR) of Milford. Connecticut to provide specified state and federal regulatory list information for potential sites of environmental concern located at or in the vicinity of the subject property. EDR maintains a computerized Geographic Information System (GIS) listing of various state and federal databases in accordance with the ASTM standard. The database search was based upon ASTM-specified standard record sources. Additionally, databases searched by EDR satisfy records review requirements of the EPA's all appropriate inquiry rule. EDR includes these databases, when available, as a part of its report. Descriptions of each database are provided in Part GR-1 of the EDR database report (Appendix A). It should be noted that due to the size of the subject property. ENSR extended the search radius an additional mile in addition to the standard ASTM search distances. The subject property is located in a rural area, which is primarily undeveloped agricultural property and range land. The subject property was identified in the EDR report. None of the orphan (unmapped) sites listed on the EDR report were identified by ENSR within the vicinity of the subject property.

A variety of federal and state governmental databases were reviewed using EDR. The following federal and state contamination-related databases described in Table 3-1 were searched for the area surrounding the subject properties; the various search distances used are also noted.

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
	Federal Databases	·
NPL <sup>2</sup>	Existing and proposed Superfund sites on the National Priorities List	2.0
CERCLIS <sup>2</sup>	Abandoned, uncontrolled or inactive hazardous waste sites reported to the U.S. EPA, which have been or are scheduled to be investigated by the U.S. EPA for potential nomination to the NPL.	2.0
RCRIS-TSD <sup>2</sup>	Reported sites that treat, store and/or dispose of hazardous waste and subject to the federal RCRA regulations.	2.0
RCRIS-LQG/SQG <sup>2</sup>	Reported large-quantity generators and small quantity generators of hazardous waste.	1.75
ERNS <sup>2</sup>	Sites reporting spills to the U.S. EPA and/or the U.S. Coast Guard under various federal regulations	target property
FINDS	Facility Index System indicates the presence of a site on another federal database.	target property
PADS	PCB Activity Database System identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required and have notified the EPA of such activities.	target property
RAATS	RCRA Administrative Tracking System contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.	target property

## Table 3-1 Databases Searched and Radii

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
TRIS	Toxic Chemical Release Inventory System identified facilities who have reported releases of listed toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.	target property
TSCA	Toxic Substances Control Act identified manufacturers and importers of chemical substances by plant site in 1986. No updates of the list have been made by EPA.	target property
HMIRS	Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to the Federal DOT.	target property
NPL Liens	List of liens placed against real property in order for the EPA to recover remedial action expenditures or when the property owner receives notification of potential liability.	target property
CORRACTS	Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.	2.0
ROD	Records of Decision mandating a permanent remedy for a Superfund Site	2.0
MLTS	Material Licensing Tracking System, maintained by the Nuclear Regulatory Commission, contains a list of sites that possess or use radioactive materials and are subject to NRC licensing.	target property
Delisted NPL	Sites removed from the NPL	target property
Coal Gas	Former manufactured coal gas sites	2.0
	State Databases	
SWHS <sup>2</sup>	State hazardous waste sites	2.0
UST <sup>2</sup>	Sites which have reported underground storage tanks.	1.75
LUST <sup>2</sup>	Sites which have reported leaking underground storage tanks.	1.75
SWF/LF <sup>2</sup>	List of permitted solid waste disposal facilities	2.0
commercial rea	ch distances used equal or exceed those recommended by ASTM for assessing the environ I estate. In are required to be searched by ASTM.	onmental condition of

ENSR completed an EDR Site Report of the subject property to obtain the information below. According to the EDR database, the subject property appears on the following databases: TRIS, ICIS, NPDES, SHWS, AIRS, ERNS, and SWF/ LF. According to the database, the AIRS database provides a listing of permitted air facilities. Information contained in the AIRS database was consistent with information provided to ENSR for review. No additional information regarding the air permit was provided in the AIRS database.

The subject property appears on the ERNS database once. On August 19, 2003 approximately 1 gallon of hydraulic oil was spilled into the Ohio River. The cause of the release was due to a broken hydraulic line on a piece of equipment used to unload coal from a barge. A sheen was observed approximately 2 feet long by 8 inches wide. Cleanup was completed at the time of the release.

The subject property appears on the TRIS database; however no additional information is provided regarding the listing. However, it is likely that the listing is related to the air born release identified above.

The subject property appears on the NPDES database, stating the subject property currently has an active NPDES permit.

The subject property appears on the SHWS database once. The first listing is for active State Hazardous Waste Site described as a State Superfund site; however no additional information regarding this listing is

available. Based on the limited amount of information ENSR believes the active SHWS represents an environmental concern to the subject property.

The subject property appears on the SWF/LF database once. According to the EDR, the status of the facility is proposed and the facility type is for special waste landfill – coal.

Based on the current regulatory status and/or distance from the subject property, ENSR does not believe the sites identified in the EDR "Orphan Summary" represent a potential threat to impact the subject property. No surrounding properties were identified in the EDR report.

## 3.2 Additional environmental records

Per Section 8.2.2 of the ASTM standard, local, and/or additional state or tribal sources of environmental records shall be reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed in Section 3.1 of this report. These additional records/sources may include local records such as: lists of waste disposal sites; brownfields sites; lists of hazardous waste/contaminated sites; lists of registered storage tanks; local land records (for activity and use limitations); records of emergency release reports; and records of contaminated public wells. Local sources that may be contacted to obtain this information include: Department of Health/Environmental Division; Fire Department; Planning Department; Building Permit/Inspection Department; Local/Regional Pollution Control Agency, Local/Regional Water Quality Agency, and Local Electric Utility Companies (for records relating to PCBs).

The subject property was not located on or within 1 mile of tribal lands. As a result, tribal records were not researched as a part of this assessment.

Per the ASTM Standard, approximate minimum search distances for additional records sources should not be less than those specified for standard records sources, but can be adjusted at the discretion of the environmental professional. Based on ENSR's observations during the site visit and information provided in the EDR report, no significant environmental concerns were identified associated with the adjacent properties; thus, additional state and local records not included within the EDR report were reviewed for the subject property only.

A table documenting the departments contacted to request environmental information relative to the subject property is included in Section 9. These inquires may have been made in the form of telephone interviews, Freedom of Information Act (FOIA) requests, and/or in person discussions.

The results of these inquiries are summarized in the following table.

## Table 3-2 Agency Inquiries

Record source	Type of records	Comments
U.S. EPA ECHO database	Environmental compliance history of the subject property	September 25, 2008 – online query
		According to the database the facility has one Clean Water Act permit, two Clean Water Act permits, and one RCRA permit. No permit violations were listed for any of the permits.
U.S. EPA Envirofacts Database	Lists and provides information concerning facility activities subject to	September 25, 2008 online query According to the database, the Trimble County facility had an enforcement action reported on the
	federal permitting requirements	TRI report, which was issued 6/20/2007.

Record source	Type of records	Comments
Kentucky Department of	Freedom of Information	September 8, 2008 – record request
Environmental Protection	Request regarding the subject property's current regulatory status.	ENSR has requested records regarding the facility's air, waste and water programs. At the time of this report ENSR has not received the information from the Kentucky DEP.
Trimble County Health	Information regarding septic	September 11, 2008 – phone interview
Department – Environmental	tanks.	ENSR contacted Stacey regarding septic tank requirements and possible permits. According to Stacey the facility does have several septic tank permits.
Trimble County Planning &	Information regarding	September 11, 2008 – phone interview
Zoning	subject property zoning designation.	ENSR left a message regarding the zoning information for the subject property. At the time of this report ENSR has not received a call back from the Trimble County Planning & Zoning Department.
Fire Departments	Information that may be on	September 11, 2008 – phone interview
	file for the subject property, specifically regarding the installation or removal of underground storage tanks (USTs) from the subject property, or spills or releases of oil and/or hazardous/radioactive materials at the site.	ENSR left a message regarding the fire department information for the subject property. At the time of this report ENSR has not received a call back from the Fire Department.

## 3.3 Physical setting information

The subject property is located in Trimble County, Kentucky, and consists of 2,127 acres of land. The subject property is located near the city of Bedford, Kentucky.

According to the USGS Bethlehem, Kentucky Quadrangle 7.5-Minute Series Topographic map, the elevation of the subject property area is between approximately 800 feet above mean sea level. Based on topographical information, the regional ground water flow is anticipated to the southwest toward the Ohio River.

Based on a review of the US Department of Agriculture - Soil Conservation Service Soil Survey of Trimble County, Kentucky, the subject property consists of Cincinnati silty clay loam. Cincinnati soils have a very slow infiltration rate. The soil is well drained and has a moderate corrosion potential. Depth to bedrock is greater than 36 inches. According to the EDR, Cincinnati soil is not classified as a hydric soil. A hydric soil is a soil that is saturated or flooded for long parts of the growing season.

According to the Federal Emergency Management Agency (FEMA) floodplain information provided in the EDR the eastern and southeastern portions of the subject property are located on the 500 year flood zone (2103000008A).

According to the EDR report (Appendix B), federal area radon information for Trimble County indicates that Trimble County is designated as a "Zone 2" (i.e., counties in which the predicted average indoor radon



screening level is between 2 and 4 picoCuries per liter [pCi/L]). EDR reported that 1 site was tested for radon within Trimble County. The average test results indicate levels of radon were 0.200 pCi/L in first floor living areas. The U.S. EPA Guideline for radon in residential dwellings is 4.0 pCi/L. The U.S. EPA does not have a guideline for radon in commercial or industrial buildings. It is ENSR's opinion that the area radon levels do not pose an environmental concern to the subject property.

## 3.4 Historical use information on the subject property and adjacent sites

Information pertaining to historical uses of the subject property and surrounding area was obtained from the following publicly available and readily reviewable sources:

- Topographic maps: Bethlehem, Kentucky Quadrangle (1953, 1980, 1987, and 1993);
- Aerial Photographs: 1950, 1986, 1991 and 2005; and
- City Directories: No coverage according to EDR.

Sanborn Fire Insurance maps were requested from EDR; however, Sanborn Fire Insurance maps were not available for the subject property or the immediately surrounding area.

A chronological history of the subject property and abutting property use is presented in Table 3-3.

Date(s)	Type of Document	Description	Level of Concern
1950	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are depicted as agriculture land with two house structures depicted.	None
1953	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1980	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1986	Aerial Photograph	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1987	Topographic Map	Subject property and Abutting properties: The southern portion of the subject property is depicted as being developed with several structures and a substation. The northern portion of the subject site is under construction. The other adjoining property is depicted as undeveloped land.	None
1991	Aerials Photograph	Subject property and Abutting properties: The subject property is observed developed. The other adjoining property is depicted as undeveloped land.	None
1993	Topographic Map	Subject property and Abutting properties: The southern portion of the subject property is depicted as being developed with several structures and a substation. The northern portion of the subject site is under construction. The other adjoining property is depicted as undeveloped land.	None

## Table 3-3 Chronological Historical Subject Property and Abutting Property Use

Date(s)	Type of Document	Description	Level of Concern
2005	Aerial Photograph	Subject property and Abutting properties: The subject property is not depicted in this aerial photograph. The subject property lies to the southwest.	None

## 3.5 Previous environmental reports

Two external compliance audits were provided for ENSR's review.

## <u>Trimble County Environmental Compliance Audit Report. Louisville Gas & Electric Company</u> <u>Power Generation. Prepared for LG&E Energy Corp., Report Number USAS OP-03-G-053A</u> <u>August 2003,</u>

Audit Services completed a review of Louisville Gas and Electric Company (LG&E) Trimble County Power Generation Station's compliance with appropriate Environmental Protection Agency's (EPA) laws and regulations and Company policies and procedures. The results of this audit indicate that Trimble County maintains general compliance with required environmental federal, state, and local regulations through documentation of records, continuous review and oversight by the Corporate EAD and System Lab and Environmental Compliance Department, and by maintaining permit reporting requirements. The management and support staff from this facility, along with EAD staff's assistance, have produced a specific facility Environmental Compliance Operating Manual. There were no findings resulting from the completed protocol

## Multi-Media Environmental Compliance Audit of Louisville Gas & Electric, Trimble County Generating Station, Bedford, Kentucky. Prepared by Goldenberg Schneider & Groh, LPA. February 2007.

Murdock Goldenberg Schneider & Groh, LPA (MGSG) performed a multi-media environmental compliance audit of E.ON's Louisville Gas & Electric (LG&E) Trimble County Generating Station, which is located in Bedford, Kentucky (Facility). The audit was designed to assess the compliance status of the Facility with respect to the following federal and state environmental laws and regulations: air pollution control; chlorofluorocarbon compound ("CFC") management; wastewater pretreatment and direct discharge; storm water discharge; spill prevention control and countermeasure planning; facility response planning; hazardous, special, universal, asbestos, solid, and infectious waste management; emergency planning and community right-to-know reporting; and underground storage tank management.

In summary, MGSG identified a number of compliance issues at the Facility. Most of the issues appeared to be relatively insignificant when viewed individually. However, a few were observed repeatedly throughout the various facility operations rather than as isolated events. Many noncompliance conditions were associated with the waste management program from initial waste determination to final treatment and disposal. Collectively, the compliance issues represent an opportunity to improve already effective LG&E environmental compliance programs. According to Mr. John Voyles all identified issues have been corrected.

ENSR AECOM

# 4.0 Regulatory Considerations

ENSR conducted a review of available facility permits to assess its compliance with key local, state and federal environmental regulations. A summary of significant regulatory compliance considerations at the E.ON facility is provided below.

## 4.1 Title V Permitting

The Louisville Gas and Electric Company was granted their initial Title V permit application on June 20, 2003. A final revised Title V permit for the Louisville Gas and Electric Company facility was authorized in March 2008.

The granting of the final Title V permit for the Louisville Gas and Electric Company requires that semi-annual deviation reports and annual certification compliance reports be submitted. According to the information provided by the Commonwealth of Kentucky, the facility has submitted annual compliance reports as required beginning in January 2005 through January 2007.

## 4.2 Waste Management

According to a 2007 Hazardous Waste Annual Report FORM 1, the Commonwealth of Kentucky Department for Environmental Protection issued the facility EPA identification number KYD-991-277-096. The Louisville Gas and Electric Company is currently registered as a small quantity generator of hazardous waste. According to the form, the facility is registered to generate the following wastes: D001 (ignitable), D002 (Corrosive), D006 (Cadmium), D008 (Lead), D009 (Mercury), D018 (Benzene), D035 (Methyl Ethyl Ketone), F001 (spent halogenated solvents used in degreasing) and F003 (spent non-halogenated solvents).

The subject property is a solid waste disposal landfill for construction waste. The permit was effective on June 30, 1992.

## 4.3 Emergency Planning and Community Right-to-Know

Facilities that manufacture, use, or store chemicals any hazardous chemical/substance which requires an MSDS be kept on location is required to report these chemicals on an annual basis. The Superfund Amendments and Reauthorization Act (SARA) Section 312 outlines the requirements for companies that store chemicals at their location. This report is commonly known as the Tier Two Report. ENSR reviewed the 2005, 2005 and 2006 Tier Two Report for the Trimble County facility. The facility filed a Tier Two Report due to the storage of the following chemicals sodium bromide, sodium hydroxide, sulfuric acid, turbine oil, diesel fuel oil #2, phosphoric acid, sodium hypochlorite, ethylene glycol, anhydrous ammonia, flyash, and aluminum sulfate.

SARA Section 313 outlines the requirements for reporting releases at facilities that manufacture, store, and/or use chemicals regulated under these regulations. This form is commonly known as the Toxic Release Inventory (TRI) Form R. ENSR reviewed the 2005 and 2006 TRI reports, for the Louisville Gas and Electric Company. The forms appeared complete. The documents appeared to be complete and submitted in a timely manner.

## 4.4 Spill Prevention, Control & Countermeasure (SPCC) Plan

Facilities that engage in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to their location, could reasonably be expected to discharge oil in quantities that may be harmful, are regulated under 40 C.F.R. § 112. If the aggregate aboveground storage capacity of the facility is more than 1,320 gallons (only containers of oil with a capacity of 55 gallons or greater are counted), the facility is required to prepare and implement a Spill Prevention, Control

and Countermeasure (SPCC) Plan. The current plan was last certified by an engineer in September 2007. Current regulations require SPCC engineer recertification every 5 years.

## 4.5 Wastewater and Storm Water

On-site wastewater generation consist of nine permitted discharge outfalls. The facility is permitted (permit number KY0041971 by the Kentucky Department for Environmental Protection for these discharges.

Outfall 001 is a combined discharge from the plant stormwater runoff to the sedimentation pond. Outfall 002 is a combined discharge of cooling water blowdown. Outfall 003 is discharge from the package sewage treatment plant which is internal to the ash pond. Outfall 004 is a combined discharge from the ash treatment basin metal cleaning wastes and precipitation discharge from the chemical metal cleaning water and discharges to the ash basin. Outfall 005 is discharge from plant intake water and discharges to the Ohio River. Outfall 006 is non-contaminated stormwater and discharges to surface water which ultimately discharges to Corn Creek. Outfall 007 is non-contaminated stormwater and discharges to surface water which ultimately di

ENSR reviewed the Discharge Monitoring Reports (DMR) for Outfalls 001, 002, 003, 004, 005, 006, 007, 008 and 009 for January, May, July, August, and November of 2006; February, April, May, and July of 2007; and January of 2008. No exceedences of the permit levels were detected

# 5.0 Findings and opinion

ENSR performed a Desktop Phase I ESA of the Trimble County facility located at 487 Corn Creek Road, Bedford, Trimble County, Kentucky to identify environmental concerns associated with the property. This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. As required the report will include ENSR's opinion on the need for additional investigations, data gaps, and ENSR's opinion of the significance of the data gaps. Upon receipt of your comments, the draft report will be finalized. However, the scope of a Phase I ESA is limited in scope and is not an exhaustive research of the subject property and surrounding area. ENSR will provide recommendations, should conditions suggesting the need for additional study be observed.

## 5.1 Environmental Concerns

• <u>SHWS</u>: The subject property appears on the SHWS database once. The first listing is for active State Hazardous Waste Site described as a State Superfund site; however no additional information regarding this listing is available. Based on the limited amount of information ENSR believes the active SHWS represents an environmental concern to the subject property.

ENSR AECOM

# 6.0 References and contacts

## 6.1 Persons interviewed

Commonwealth of Kentucky, Department for Environmental Protection, Division for Air Quality, 502-564-3999.

Department Representative, Bedford Fire Department, 58 Morton Ridge Road, Bedford, KY 40006.

Trimble County Health Department, 502-255-4851.

Department Representative, Trimble County Planning and Zoning, 502-255-3684.

Voyles, John, Vice President, Transmission & Generation Services, john voyles@eon-us.com.

## 6.2 Reports and documents reviewed

- ASTM 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- Aerial Photographs dated 1953, 1986, 1991, and 2005 obtained from Environmental Data Resources, Inc., Southport, CT.

City Directory obtained from Environmental Data Resources, Inc., Southport, CT.

- EDR-Radius Map with Geocheck<sup>®</sup>, Louisville Gas & Electric Trimble Co. Generating, 487 Corn Creek Road, Bedford, KY 40006.
- Historic Topographic Maps dated 1953, 1980, 1987, and 1993, obtained from Environmental Data Resources, Inc., Southport, CT.
- Title V Air Quality Permit, V-02-043, Louisville Gas & Electric.
- Discharge Monitoring Reports (DMR) for Outfalls for Outfalls 001, 002, 003, 004, 005, 006, 007, 008 and 009 for January, May, July, August, and November of 2006; February, April, May, and July of 2007; and January of 2008.

Form R, Louisville Gas & Electric, 2005 and 2006.

NPDES Permit, KY0041971, Trimble County Generating Station.

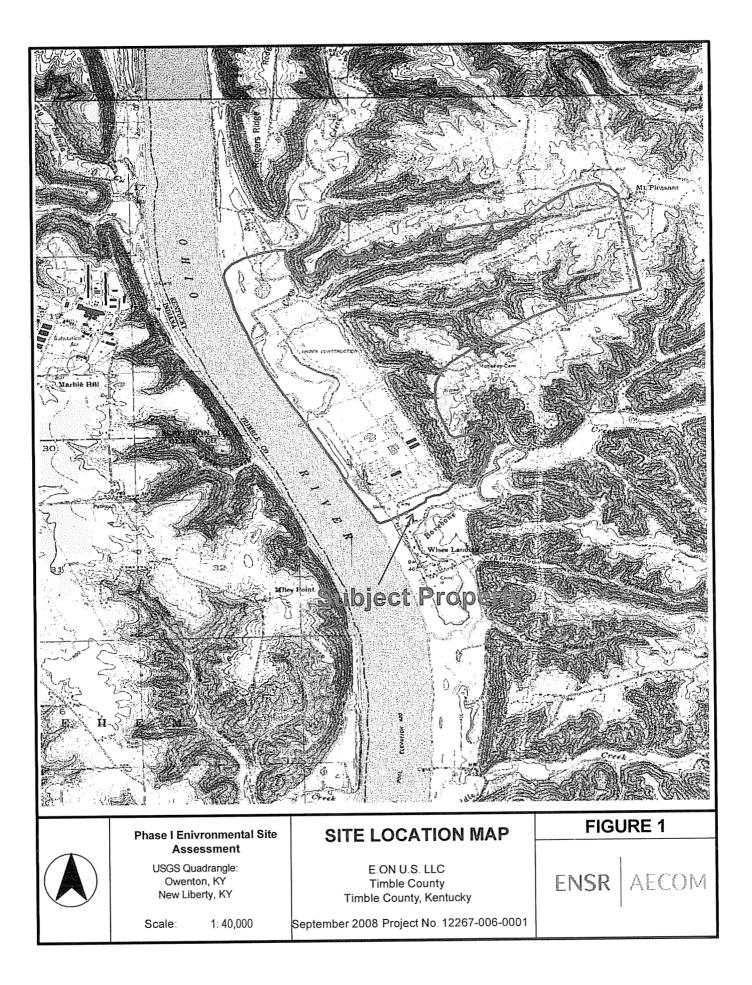
Spill Prevention, Control and Countermeasures Pan, Trimble County Generating Station, September 2007

Tier II, Louisville Gas & Electric Company,2005 and 2006.

Annual Hazardous Waste Report, Trimble County Generating Station, 2005, 2006, and 2007.



Figure





Appendix A

**EDR Report** 

# Louisville Gas & Electric - Timble Co. Generating 487 Corn Creek Road Bedford, KY 40006

Inquiry Number: 02301084.2r August 22, 2008

# The EDR Radius Map<sup>™</sup> Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

487 CORN CREEK ROAD BEDFORD, KY 40006

#### COORDINATES

Latitude (North):	38.597570 - 38° 35' 51.3"
Longitude (West):	85.406460 - 85° 24' 23.3"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	638773.2
UTM Y (Meters):	4273117.0
Elevation:	799 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Most Recent Revision: 38085-E4 BETHLEHEM, IN 1993

#### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LOUISVILLE GAS & ELECTRIC CO T 487 CORN CREEK RD BEDFORD, KY 40006	TRIS	40006LSVLL48
LOUISVILLE G & E TRIMBLE STA 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
LOUISVILLE G & E TRIMBLE STA 487 CORN CREEK RD BEDFORD, KY 40006	NPDES	N/A
LOUISVILLE GAS & ELECTRIC - TR 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
LOUISVILLE GAS & ELECTRIC CO T 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A

LOUISVILLE GAS & ELECTRIC 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
TRIMBLE COUNTY 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
LOUISVILLE G & E CO/TRIMBLE COUNT 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
487 CORN CREEK ROAD 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
LOUISVILLE GAS & ELECTRIC - TRIMB 487 CORN CREEK RD BEDFORD, KY 40006	SHWS Facility Status: Active AIRS	N/A
487 CORN CREEK ROAD 487 CORN CREEK ROAD BEDFORD, KY 40006	ERNS	N/A
LOUISVILLE GAS & ELECTRIC/TRIMBLE 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS	N/A
LOUISVILLE GAS & ELECTRIC - TRIMB 487 CORN CREEK RD BEDFORD, KY 40006	SWF/LF	N/A
LOUISVILLE GAS & ELECTRIC - TR 487 CORN CREEK RD BEDFORD, KY 40006	NPDES	N/A
TRIMBLE CO GENERATING STATION 487 CORN CREEK RD BEDFORD, KY 40006	NPDES	N/A

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### FEDERAL RECORDS

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
Delisted NPL	_ National Priority List Deletions
NPL LIENS	Federal Superfund Liens
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP	_ CERCLIS No Further Remedial Action Planned
LIENS 2	CERCLA Lien Information
CORRACTS	Corrective Action Report
RCRA-TSDF	RCRA - Transporters, Storage and Disposal
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generator
RCRA-NonGen	RCRA - Non Generators
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	. Sites with Institutional Controls
HMIRS	. Hazardous Materials Information Reporting System
DOT OPS	_ Incident and Accident Data
US CDL	. Clandestine Drug Labs
US BROWNFIELDS	_ A Listing of Brownfields Sites
DOD	_ Department of Defense Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	_ Superfund (CERCLA) Consent Decrees
ROD	_ Records Of Decision
UMTRA	_ Uranium Mill Tailings Sites
ODI	_ Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
TSCA	_ Toxic Substances Control Act
FTTS	_ FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide
	Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	Act)/TSCA (Toxic Substances Control Act) FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	_ Section 7 Tracking Systems
PADS	PCB Activity Database System
MLTS	_ Material Licensing Tracking System
	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

#### STATE AND LOCAL RECORDS

HIST LF.	Historical Landfills
SB193	SB193 Branch Site Inventory List
UST	Underground Storage Tank Database

#### TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
	Voluntary Cleanup Priority Listing

#### EDR PROPRIETARY RECORDS

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

#### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### FEDERAL RECORDS

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

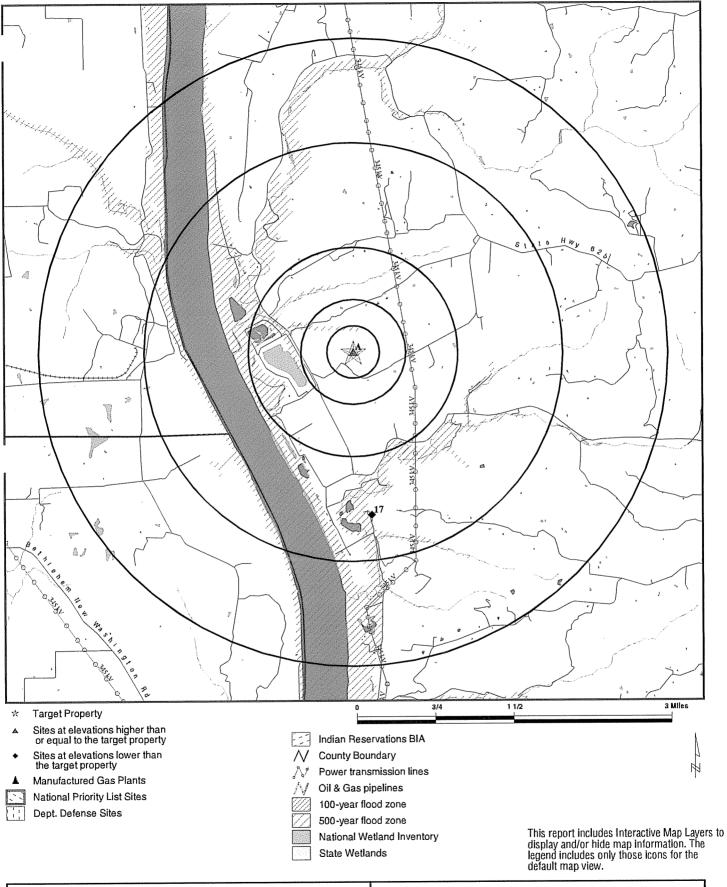
A review of the MINES list, as provided by EDR, and dated 02/07/2008 has revealed that there is 1 MINES site within approximately 2.25 miles of the target property.

Lower Elevation	Address	Dist / Dir		Map ID	Page
LITER'S QUARRY, INC.	SAND & GRAVEL OPERATION	1 - 2	S	17	40

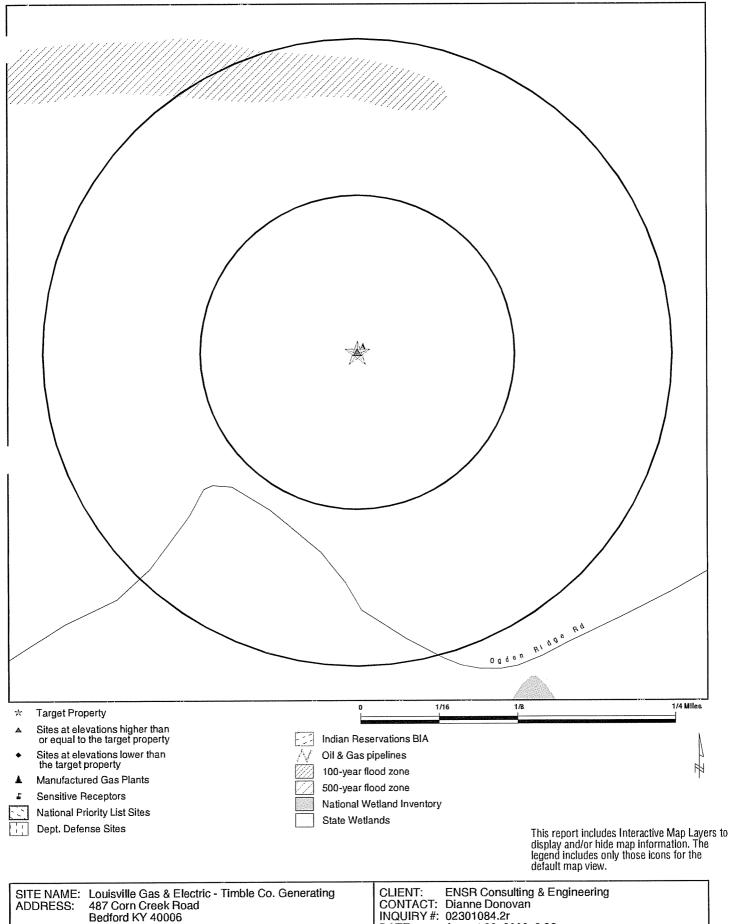
Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
NUGENT ORGANICS LLC	HIST LF
TEXAS GAS - TRIMBLE CO	SHWS
BETHLEHEM REACH - COAST GUARD AID	SHWS
MINTON PROPERTY	SHWS
LOUISVILLE G&E CO TRIMBLE CY GEN STA	RCRA-SQG, FINDS, CERC-NFRAP
LITERS QUARRY INC - TRIMBLE CO SAND & GR	AIRS
WHEELER OIL SERVICE	FINDS, SB193, NPDES,
	RCRA-NonGen
NUGENT ORGANICS LLC	SWF/LF
DJS AUTO SERVICE	UST
FORMER CRESTWOOD AUTO SALES	UST
JAMES W MALONEY II	UST
FAST LANE FOOD MART	UST
DENNIS E CLAPP	UST
KENNETH GRAVES	UST
PSI - MARBLE HILL SERVICE BUILD	UST
RICHMOND TRADING POST	FINDS, RCRA-NonGen
TRIMBLE COUNTY FARM SUPPLY INC	FINDS, RCRA-NonGen
MARTIN MARIETTA AGGREGATES	FINDS, RCRA-NonGen
JAMES OVERTON (MILTON PLAZA)	FINDS, RCRA-NonGen
PSI MARBLE HILL NUCLEAR GENERATING STA	FINDS, MANIFEST,
	RCRA-NonGen
PSI MARBLE HILL NUCLEAR GENERATING STATION	FINDS, MANIFEST, RCRA-NonGen
	FINDS, RCRA-CESQG
LOUISVILLE GAS & ELECTRIC CO-BEDFORD	FINDS, MANIFEST,
BULK TRUCK AND TRANSPORT	RCRA-CESQG
MILTON ASPHALT PLT	ICIS
918 421 HWY	US CDL
TRIMBLE CO GENERATING STATION	NPDES
TRIMBLE CO FISCAL COURT ATHLET	NPDES
LG&E TRIMBLE CO TRANS PIPELINE	NPDES
NUGENT SAND CO	NPDES
NUGENT SAND CO MILTON PLANT	NPDES
MILTON ASPHALT PLANT	NPDES
NUGENT ORGANICS LLC	NPDES

## OVERVIEW MAP - 02301084.2r



SITE NAME: Louisville Gas & Electric - Timble Co. Generating	CLIENT: ENSR Consulting & Engineering
ADDRESS: 487 Corn Creek Road	CONTACT: Dianne Donovan
Bedford KY 40006	INQUIRY #: 02301084.2r
LAT/LONG: 38.5976 / 85.4065	DATE: August 22, 2008 3:23 pm



DATE:

38.5976 / 85.4065

LAT/LONG:

August 22, 2008 3:23 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	<u>&lt; 1/8</u>	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL RECORDS								
NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-CESQG RCRA-ONORGEN US ENG CONTROLS US INST CONTROLS US INST CONTROL ERNS HMIRS DOT OPS US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA ODI DEBRIS REGION 9 MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS RADINFO FINDS RAATS	x x x	3.000 3.000 2.500 2.500 2.500 2.500 2.500 2.250 2.250 2.250 2.250 2.500 2.000 2.000 2.000 2.000 2.000 2.500 3.000 3.000 3.000 2.500 3.000 2.500 2.000 2.500 2.000				000000000000000000000000000000000000000	000000000000000000000000000000000000000	
STATE AND LOCAL RECOR SHWS SWF/LF HIST LF SB193 UST	<u>DS</u> X X	3.000 2.500 2.500 2.500 2.250	0 0 0 0	0 0 0 0	0 0 0 0 0	0 -0 0 0	0 0 0 0 0	0 0 0 0 0

# MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
ENG CONTROLS		2.500	0	0	0	0	0	0
INST CONTROL	4	2.500	0	0	0	0	0	0
VCP		2.500	0	0	0	0	0	0
DRYCLEANERS		2.250	0	0	0	0	0	0
BROWNFIELDS		2.500	0	0	0	0	0	0
CDL		2.000	0	0	0	0	0	0
NPDES	Х	2.000	0	0	0	0	0	0
AIRS	х	2.000	0	0	0	0	0	0
LEAD		2.000	0	0	0	0	0	0
PSTEAF		2.500	0	0	0 ·	0	0	0
TRIBAL RECORDS								
INDIAN RESERV		3.000	0	0	0	0	0	0
INDIAN ODI		2.500	0	0	0	0	0	0
INDIAN LUST		2.500	0	0	0	0	0	0
INDIAN UST		2.250	0	0	0	0	0	0
INDIAN VCP		2.500	0	0	0	0	0	0
EDR PROPRIETARY RECORDS								
Manufactured Gas Plants		3.000	0	0	0	0	0	0

#### NOTES:

.

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction		MAP FINDINGS		
Distance	0.44		Database(a)	EDR ID Number
Elevation	Site		Database(s)	EPA ID Number
A1 Target Property	LOUISVILLE GAS & ELECTRIC CO. 487 CORN CREEK RD BEDFORD, KY 40006	- TRIMBLE COUNTY STATION	TRIS	1005453534 40006LSVLL48
	Site 1 of 16 in cluster A			
Actual: 799 ft.				
A2	LOUISVILLE G & E TRIMBLE STA		ICIS	1010808147
Target Property	487 CORN CREEK ROAD BEDFORD, KY 40006			N/A
	Site 2 of 16 in cluster A			
Actual:	ICIS:			
799 ft.	Enforcement Action ID:	04-2005-9935		
	FRS ID: Program ID:	110000377814 PCS KY0041971		
	Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY)	AND KENTUCK	Y UTILITIES
		COMPANIES		
	Facility Name:	LOUISVILLE G & E TRIMBLE STA 487 CORN CREEK ROAD		
	Facility Address:	BEDFORD, Kentucky 40006		
	Enforcement Action Type:	EPCRA 325 Action For Penalty		
	Facility County: EPA Region #:	Not reported 4		
	-			
	Program ID:	AIRS/AFS 2122300002		
	Facility Name: Address:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COU 487 CORN CREEK ROAD BEDFORD KY 40006	JNTY STATION	
	Tribal Indicator:	Not reported		
	Fed Facility:	Not reported		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		
	Program ID:	CAMDBS 6071		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COU	JNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006		
	Tribal Indicator: Fed Facility:	Not reported Not reported		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		
	Program ID:	EGRID 6071		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COU	JNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006		
	Tribal Indicator: Fed Facility:	Not reported Not reported		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		
	Program ID:	FRS 110000377814		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COU	JNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006		
	Tribal Indicator: Fed Facility:	No No		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		

Map ID Direction Distance Elevation Site

Database(s) E

EDR ID Number EPA ID Number

#### LOUISVILLE G & E TRIMBLE STA (Continued)

#### 1010808147

**NEI NEI 12576** Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Program ID: **NEI NTI12576** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported NET 212230002 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: Not reported NAIC Code: SIC Code: Not reported Program ID: NET 212236071 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Fed Facility: Not reported NAIC Code: Not reported Not reported SIC Code: NTI NTI 12576 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported PCS KY0041971 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: PCS KYR108067 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported RCRAINFO KYD991277096 Program ID:

Map ID Direction Distance Elevation Site

Database(s) EP

EDR ID Number EPA ID Number

## LOUISVILLE G & E TRIMBLE STA (Continued)

1010808147

Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
Program ID:	RMP 100000178434
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	TRIS 40006LSVLL487CO
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

A3	LOUISVILLE G & E TRIMBLE STA
Target	487 CORN CREEK RD
Property	BEDFORD, KY 40006

NPDES \$107866049 N/A

Site 3 of 16 in cluster A

Actual 799 ft.

tual:	KY NPDES:	
9 ft.	KY DES #:	KY0041971
	Facility Addr 2:	Not reported
	Facility Status:	ACTIVE
	Inactive Date:	Not reported
	Design Capacity:	00000.0265
	Fee Category:	MAJIND
	SIC Code:	4911
	Lat/Long:	+3835050 / -08524430
	Lat/Long Method:	A
	USGS Hydrologic Basin Coc	le: 05140101
	Facility Stream Segment:	0007
	Facility Mileage Indicator:	18250
	Basin Code:	0521
	Basin Code Description:	OR/OHIO R-MAIN STEM
	DMR Contact:	JOHN W MOFFETT, MGR ENV COMPL
	Mailing Address:	SHARON DODSON
	Mailing Address 2:	PO BOX 32010
	Mailing City,St,Zip:	LOUISVILLE, KY 40232
	Permit Issued:	4/23/2002
	Permit Expires:	9/30/2007
	SIC Code Description:	ELECTRICAL SERVICES
	Reveiving Waters:	OHIO RIVER / CORN CRK / BAREBONE CK
	Major/Minor:	MAJOR

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

A4 Target Property	LOUISVILLE GAS & ELECTRIC - TR 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS 1010852439 N/A
	Site 4 of 16 in cluster A	
Actual: 799 ft.	ICIS: Enforcement Action ID: FRS ID: Program ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: EPA Region #:	04-2005-9935 110000377814 PCS KYR108067 LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES COMPANIES LOUISVILLE GAS & ELECTRIC - TR 487 CORN CREEK ROAD BEDFORD, Kentucky 40006 EPCRA 325 Action For Penalty Not reported 4
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	AIRS/AFS 2122300002 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	CAMDBS 6071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	EGRID 6071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	FRS 110000377814 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 No No No Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NEI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported

Map ID Direction Distance Elevation Site

Database(s)

FDR ID Number EPA ID Number

#### LOUISVILLE GAS & ELECTRIC - TR (Continued)

#### 1010852439

**NEI NTI12576** Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NET 212230002 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NET 212236071 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NTI NTI12576 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KY0041971 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KYR108067 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: Not reported NAIC Code: SIC Code: Not reported RCRAINFO KYD991277096 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported RMP 100000178434 Program ID:

Map ID Direction Distance Elevation Site

Database(s) EP

EDR ID Number EPA ID Number

1010852439

#### LOUISVILLE GAS & ELECTRIC - TR (Continued)

Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported TRIS 40006LSVLL487CO Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported

Not reported

Not reported

Not reported

#### A5 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Target 487 CORN CREEK ROAD Property BEDFORD, KY 40006

#### Site 5 of 16 in cluster A

Fed Facility:

NAIC Code:

SIC Code:

ICIS: Actual: 04-2005-9935 Enforcement Action ID: 799 ft. 110000377814 FRS ID: FRS 110000377814 Program ID: Action Name: LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES COMPANIES LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Facility Address: 487 CORN CREEK ROAD BEDFORD, Kentucky 40006 EPCRA 325 Action For Penalty Enforcement Action Type: Facility County: TRIMBLE EPA Region #: 4 AIRS/AFS 2122300002 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: CAMDBS 6071 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **EGRID 6071** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported

ICIS 1010811515 N/A

Map ID Direction Distance Elevation Site

EDR ID Number Database(s) EPA ID Number

# LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION (Continued)

U	ISVILLE GAS & ELECTRIC CO.	- TRIMBLE COUNTY STATION (Continued)	1(
	Program ID: Facility Name: Address:	FRS 110000377814 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Νο	
	Fed Facility:	No	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NEI NEI12576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NEI NT112576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NET 212230002	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NET 212236071	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NTI NTI12576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	PCS KY0041971	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	PCS KYR108067	
	J		

Map ID Direction Distance Elevation Site

EDR ID Number EPA ID Number

Database(s)

## LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION (Continued)

DU	ISVILLE GAS & ELECTRIC CO.	TRIMBLE COUNTY STATION (Continued)	1010811515
	Facility Name: Address:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code: SIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	RCRAINFO KYD991277096	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator: Fed Facility:	Not reported Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
		DMD 400000470424	
	Program ID:		
	Facility Name: Address:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	TRIS 40006LSVLL487CO	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator: Fed Facility:	Not reported Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Enforcement Action ID:	04-2005-9935	
	FRS ID:	110000377814	
	Program ID:	TRIS 40006LSVLL487CO	
	Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCK	Y UTILITIES
	Facility Name:	COMPANIES LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Facility Address:	487 CORN CREEK ROAD	
	r dointy / Marcos.	BEDFORD, Kentucky 40006	
	Enforcement Action Type:	EPCRA 325 Action For Penalty	
	Facility County:	Not reported	
	EPA Region #:	4	
	Program ID:	AIRS/AFS 2122300002	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	CAMDBS 6071	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	

Map ID Direction Distance Elevation Site

Database(s) EPA

EDR ID Number EPA ID Number

#### LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION (Continued) 1010811515 SIC Code: Not reported Program ID: **EGRID 6071** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported FRS 110000377814 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: No Fed Facility: No NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NEI12576** Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NTI12576** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NET 212230002 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NET 212236071 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NTI NTI 12576 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported

Map ID Direction Distance Elevation

EDR ID Number EPA ID Number

#### Site Database(s) LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION (Continued) 1010811515 PCS KY0041971 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported Not reported SIC Code: Program ID: PCS KYR108067 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported RCRAINFO KYD991277096 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported RMP 100000178434 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported TRIS 40006LSVLL487CO Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported

#### LOUISVILLE GAS & ELECTRIC A6 Target 487 CORN CREEK ROAD BEDFORD, KY 40006 Property

ICIS 1010851194 N/A

### Site 6 of 16 in cluster A

Actual:	ICIS:	
799 ft.	Enforcement Action ID:	04-2005-9935
	FRS ID:	110000377814
	Program ID:	NET 212230002
	Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES
		COMPANIES
	Facility Name:	LOUISVILLE GAS & ELECTRIC
	Facility Address:	487 CORN CREEK ROAD
		BEDFORD, Kentucky 40006
	Enforcement Action Type:	EPCRA 325 Action For Penalty
	Facility County:	Not reported

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## LOUISVILLE GAS & ELECTRIC (Continued)

1010851194

EPA Region #: 4 Program ID: AIRS/AFS 2122300002 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported CAMDBS 6071 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **EGRID 6071** Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: FRS 110000377814 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: No Fed Facility: No NAIC Code: Not reported SIC Code: Not reported **NEI NEI 12576** Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NTI12576** Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NET 212230002 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported

Map ID Direction Distance Elevation Site

Database(s) EF

EDR ID Number EPA ID Number

### LOUISVILLE GAS & ELECTRIC (Continued)

### 1010851194

NET 212236071 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported NTI NTI12576 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: PCS KY0041971 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Fed Facility: Not reported Not reported NAIC Code: Not reported SIC Code: PCS KYR108067 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: Not reported NAIC Code: SIC Code: Not reported RCRAINFO KYD991277096 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Fed Facility: Not reported Not reported NAIC Code: Not reported SIC Code: RMP 100000178434 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: SIC Code: Not reported TRIS 40006LSVLL487CO Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code:

Map ID Direction Distance Elevation Site

Database(s) EP

EDR ID Number EPA ID Number

A7 Target Property	TRIMBLE COUNTY 487 CORN CREEK ROAD BEDFORD, KY 40006	ICIS 1010815290 N/A
	Site 7 of 16 in cluster A	
Actual: 799 ft.	ICIS: Enforcement Action ID: FRS ID: Program ID: Action Name: Facility Name: Facility Address: Enforcement Action Type: Facility County: EPA Region #:	04-2005-9935 110000377814 CAMDBS 6071 LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES COMPANIES TRIMBLE COUNTY 487 CORN CREEK ROAD BEDFORD, Kentucky 40006 EPCRA 325 Action For Penalty Not reported 4
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	AIRS/AFS 2122300002 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	CAMDBS 6071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	EGRID 6071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	FRS 110000377814 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 No No Not Not reported Not reported
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NEI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported

Map ID Direction Distance Elevation Site

Database(s) EF

EDR ID Number EPA ID Number

## TRIMBLE COUNTY (Continued)

### 1010815290

**NEI NTI12576** Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported Not reported SIC Code: NET 212230002 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NET 212236071 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NTI NTI12576 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported PCS KY0041971 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KYR108067 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported Program ID: RCRAINFO KYD991277096 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported RMP 100000178434 Program ID:

Map ID Direction Distance Elevation Site

Database(s) El

EDR ID Number EPA ID Number

# TRIMBLE COUNTY (Continued)

MBLE COUNTY (Continued)	1010815290
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
	Not reported
SIC Code:	Not reported
Program ID:	TRIS 40006LSVLL487CO
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Enforcement Action ID:	04-2005-9935
FRS ID:	110000377814
Program ID:	NTI NTI 12576
Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES
	COMPANIES
Facility Name:	TRIMBLE COUNTY
Facility Address:	487 CORN CREEK ROAD
	BEDFORD, Kentucky 40006
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	Not reported
EPA Region #:	4
Program ID:	AIRS/AFS 2122300002
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	•
SIC Code.	Not reported
Program ID:	CAMDBS 6071
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
	EGRID 6071
Program ID:	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	FRS 110000377814
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	No
Fed Facility:	No
NAIC Code:	Not reported
	The opened

Map ID Direction Distance Elevation Site

Database(s) EPA I

EDR ID Number EPA ID Number

## TRIMBLE COUNTY (Continued)

SIC Code:	Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NEI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NTI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NET 212230002 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NET 212236071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NTI NTI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KY0041971 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KYR108067 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

### **TRIMBLE COUNTY (Continued)**

### 1010815290

RCRAINFO KYD991277096 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported RMP 100000178434 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Fed Facility: Not reported Not reported NAIC Code: Not reported SIC Code: TRIS 40006LSVLL487CO Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported 04-2005-9935 Enforcement Action ID: 110000377814 FRS ID: NET 212236071 Program ID: LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES Action Name: COMPANIES TRIMBLE COUNTY Facility Name: Facility Address: 487 CORN CREEK ROAD BEDFORD, Kentucky 40006 EPCRA 325 Action For Penalty Enforcement Action Type: Facility County: Not reported EPA Region #: 4 AIRS/AFS 2122300002 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported Program ID: CAMDBS 6071 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: EGRID 6071 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## TRIMBLE COUNTY (Continued)

11	WBLE COUNTY (Continued)		101
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	FRS 110000377814	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	No	
	Fed Facility:	No	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NEI NTI12576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NET 212230002	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
		Not reported	
	Fed Facility:	•	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NET 212236071	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NTI NTI12576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	PCS KY0041971	
	0	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
	Facility Name:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Address:		
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	

Map ID Direction Distance Elevation Site

Database(s) EPA I

EDR ID Number EPA ID Number

## TRIMBLE COUNTY (Continued)

SIC Code:	Not reported
Program ID:	PCS KYR108067
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RCRAINFO KYD991277096
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RMP 100000178434
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	TRIS 40006LSVLL487CO
	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Facility Name:	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Enforcement Action ID:	04-2005-9935
FRS ID:	110000377814
Program ID:	NEI NTI12576
Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES
	COMPANIES
Facility Name:	TRIMBLE COUNTY
Facility Address:	487 CORN CREEK ROAD
	BEDFORD, Kentucky 40006
Enforcement Action Type:	EPCRA 325 Action For Penalty
Facility County:	Not reported
EPA Region #:	4
Program ID:	AIRS/AFS 2122300002
Program ID:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Facility Name:	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	CAMDBS 6071
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
/ Gol 600.	

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## TRIMBLE COUNTY (Continued)

IDEE CODITIT (Continued)	•
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
	•
SIC Code:	Not reported
Program ID:	EGRID 6071
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
	•
SIC Code:	Not reported
Program ID:	FRS 110000377814
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	No
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NEI NEI12576
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
	•
SIC Code:	Not reported
Program ID:	NEI NTI12576
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
•	
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	NET 212230002
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Sic Code.	Norreponed
Program ID:	NET 212236071
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
	•
SIC Code:	Not reported
Program ID:	NTI NTI12576
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
	•

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

# TRIMBLE COUNTY (Continued)

## 1010815290

l	MBLE COUNTY (Continued)		101
	Fed Facility: NAIC Code: SIC Code:	Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KY0041971 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KYR108067 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	RCRAINFO KYD991277096 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	RMP 100000178434 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	TRIS 40006LSVLL487CO LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	

## A8 TRIMBLE COUNTY STATION Target 487 CORN CREEK ROAD Property BEDFORD, KY 40006

## ICIS 1010812818 N/A

## Site 8 of 16 in cluster A

Actual:	ICIS:	
799 ft.	Enforcement Action ID:	04-2005-9935
	FRS ID:	110000377814
	Program ID:	RMP 100000178434
	Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES
		COMPANIES
	Facility Name:	TRIMBLE COUNTY STATION

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## TRIMBLE COUNTY STATION (Continued)

BLE COUNTY STATION (Cont		
Facility Address:	487 CORN CREEK ROAD BEDFORD, Kentucky 40006	
Enforcement Action Type:	EPCRA 325 Action For Penalty	
Facility County:	Not reported	
EPA Region #:	4	
0		
Program ID:	AIRS/AFS 2122300002	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	Not reported	
Fed Facility:	Not reported	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	CAMDBS 6071	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	Not reported	
Fed Facility:	Not reported	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	EGRID 6071	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	Not reported	
Fed Facility:	Not reported	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	FRS 110000377814	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	No	
Fed Facility:	No	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	NEI NEI12576	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	Not reported	
Fed Facility:	Not reported	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	NEI NTI12576	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
Tribal Indicator:	Not reported	
Fed Facility:	Not reported	
NAIC Code:	Not reported	
SIC Code:	Not reported	
Program ID:	NET 212230002	
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	
Address:	487 CORN CREEK ROAD BEDFORD KY 40006	

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

#### **TRIMBLE COUNTY STATION (Continued)** 1010812818 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NET 212236071 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NTI NTI12576 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KY0041971 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KYR108067 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported RCRAINFO KYD991277096 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: RMP 100000178434 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: TRIS 40006LSVLL487CO LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported

Map ID Direction		MAP FINDINGS	
Distance Elevation	Site	Databas	EDR ID Number se(s) EPA ID Number
	TRIMBLE COUNTY STATION (Co	antinued)	1010812818
	•		10.0012010
	Fed Facility: NAIC Code:	Not reported Not reported	
	SIC Code:	Not reported	
A9 Target	LOUISVILLE G & E CO/TRIMBLE 487 CORN CREEK ROAD	COUNTY	ICIS 1010838262 N/A
Property	BEDFORD, KY 40006		
	Site 9 of 16 in cluster A		
Actual:	ICIS:		
799 ft.	Enforcement Action ID:	04-2005-9935	
	FRS ID:	110000377814	
	Program ID:		
	Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KEN COMPANIES	HUCKY UTILITIES
	Facility Name:	LOUISVILLE G & E CO/TRIMBLE COUNTY	
	Facility Address:	487 CORN CREEK ROAD	
	Enforcement Action Type	BEDFORD, Kentucky 40006	
	Enforcement Action Type: Facility County:	EPCRA 325 Action For Penalty Not reported	
	EPA Region #:	4	
	Program ID: Facility Name:	AIRS/AFS 2122300002 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STA	
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	TION
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	CAMDBS 6071	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STA	TION
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility: NAIC Code:	Not reported Not reported	
	SIC Code:	Not reported	
	Program ID:	EGRID 6071	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STA	TION
	Address:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator:	Not reported	
	Fed Facility:	Not reported	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	FRS 110000377814	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STA	TION
	Address: Tribal Indicator:	487 CORN CREEK ROAD BEDFORD KY 40006	
	Tribal Indicator: Fed Facility:	No No	
	NAIC Code:	Not reported	
	SIC Code:	Not reported	
	Program ID:	NEI NEI12576	
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STA	TION
		т	C02301084.2r Page 2

Map ID Direction Distance Elevation Site MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1010838262

#### LOUISVILLE G & E CO/TRIMBLE COUNTY (Continued) 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NTI12576** Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NET 212230002 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NET 212236071 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: NTI NTI12576 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: PCS KY0041971 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported PCS KYR108067 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported Not reported SIC Code: RCRAINFO KYD991277096 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006

Map ID MAP FINDINGS
Direction
Distance
Elevation Site Database(s)
EPA ID Number

## LOUISVILLE G & E CO/TRIMBLE COUNTY (Continued)

### 1010838262

Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	RMP 100000178434
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported
Program ID:	TRIS 40006LSVLL487CO
Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION
Address:	487 CORN CREEK ROAD BEDFORD KY 40006
Tribal Indicator:	Not reported
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

A10 ICIS 1010909590 **487 CORN CREEK ROAD** Target N/A BEDFORD, KY 40006 Property Site 10 of 16 in cluster A ICIS: Actual: 04-2005-9935 Enforcement Action ID: 799 ft. FRS ID: 110000377814 Program ID: **NEI NEI 12576** Action Name: LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES COMPANIES Facility Name: Not reported 487 CORN CREEK ROAD Facility Address: BEDFORD, Kentucky 40006 Enforcement Action Type: EPCRA 325 Action For Penalty Facility County: Not reported EPA Region #: 4 Program ID: AIRS/AFS 2122300002 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Fed Facility: Not reported Not reported NAIC Code: Not reported SIC Code: Program ID: CAMDBS 6071 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported SIC Code: Not reported Program ID: EGRID 6071

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## (Continued)

Continued)		101
Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	FRS 110000377814 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 No No No Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NEI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NEI NTI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NET 212230002 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NET 212236071 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	NTI NTI12576 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported Not reported	
Program ID: Facility Name:	PCS KY0041971 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION	

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

# (Continued)

## 1010909590

487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported PCS KYR108067 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: RCRAINFO KYD991277096 Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: RMP 100000178434 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: TRIS 40006LSVLL487CO Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Enforcement Action ID: 04-2005-9935 110000377814 FRS ID: Program ID: **EGRID 6071** LOUISVILLE GAS AND ELECTRIC (LG&E ENERGY) AND KENTUCKY UTILITIES Action Name: COMPANIES Facility Name: Not reported Facility Address: 487 CORN CREEK ROAD BEDFORD, Kentucky 40006 EPCRA 325 Action For Penalty Enforcement Action Type: Facility County: Not reported EPA Region #: 4 AIRS/AFS 2122300002 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

## (Continued)

## 1010909590

CAMDBS 6071 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **EGRID 6071** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: FRS 110000377814 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: No Fed Facility: No NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NEI12576** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported Program ID: **NEI NTI12576** LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported NET 212230002 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: NET 212236071 Program ID: Facility Name: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: Not reported SIC Code: Not reported NTI NTI 12576 Program ID:

Map ID Direction Distance Elevation Site

Database(s) EF

EDR ID Number EPA ID Number

# (Continued)

¢	ontinued)		10
	Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KY0041971 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	PCS KYR108067 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	RCRAINFO KYD991277096 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	RMP 100000178434 LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	TRIS 40006LSVLL487CO LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY STATION 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	

Map ID Direction Distance Elevation Site

Database(s)

EDR ID Number EPA ID Number

#### LOUISVILLE GAS & ELECTRIC - TRIMBLE CO G SHWS S106886749 AIRS N/A

### Site 11 of 16 in cluster A

487 CORN CREEK RD

BEDFORD, KY 40006

A11

Target

Property

Actual: SHWS: 799 ft. Status: Longitude: Latitude: Facility Address 2: Subject Item County Sub Item Longitude: Subject Item Address Subject Item Address Subject Item Address Subject Item City,St Facility Group: Regulatory Desc: Closure Option: Side SG: Closure Date: Description: Lo	Not reported s: NONE s2: Not reported
AIRS: Facility: Facility End Date: Contact Name: Contact Addr: City: State: Zip: Phone: Daq contact fax: Daq contact fax: Daq contact email: Emps: Plant Class Descr.: Principal Product: Acreage: Latitude/Longitude: SIC: SIC Desc: NAIC: NAIC Desc:	2122300002 Not reported Ms. Sharon Dodson 220 W Main St Louisville KY 40232 502-627-2940 502-627-2550 sharon.dodson@eon-us.com 135 P1; PSD>100TYCrt, 10TYIndHAP, 25TYCmbHAP ELECTRIC 2126.800000000002 38.5847219999999999 / -85.41194400000005 4911 Electric Services 221112 Fossil Fuel Electric Power Generation

#### A12 487 CORN CREEK ROAD 487 CORN CREEK ROAD Target BEDFORD, KY 40006 Property

Site 12 of 16 in cluster A

Actual: 799 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

2003654445

N/A

ERNS

Map ID		MAP FINDINGS		
Direction Distance	Ч			EDR ID Numbe
Elevation	Site		Database(s)	EPA ID Numbe
A13 Target Property	LOUISVILLE GAS & ELECTRIC/TI 487 CORN CREEK ROAD BEDFORD, KY 40006	RIMBLE STATIO	ICIS	1010909591 N/A
	Site 13 of 16 in cluster A			
Actual:	ICIS:	04 0005 0005		
799 ft.	Enforcement Action ID:	04-2005-9935 110000377814		
	FRS ID: Brogram ID:	AIRS/AFS 2122300002		
	Program ID: Action Name:	LOUISVILLE GAS AND ELECTRIC (LG&E ENER COMPANIES	RGY) AND KENTUCH	(Y UTILITIES
	Facility Name:	LOUISVILLE GAS & ELECTRIC/TRIMBLE STAT	10	
	Facility Address:	487 CORN CREEK ROAD BEDFORD, Kentucky 40006		
	Enforcement Action Type:	EPCRA 325 Action For Penalty		
	Facility County:	Not reported		
	EPA Region #:	4		
	Program ID:	AIRS/AFS 2122300002		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE		
	Address:	487 CORN CREEK ROAD BEDFORD KY 4000	06	
	Tribal Indicator:	Not reported		
	Fed Facility: NAIC Code:	Not reported Not reported		
	SIC Code:	Not reported		
	Program ID:	CAMDBS 6071		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE	COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 400	06	
	Tribal Indicator:	Not reported		
	Fed Facility:	Not reported		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		
	Program ID:	EGRID 6071		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE		
	Address:	487 CORN CREEK ROAD BEDFORD KY 400	06	
	Tribal Indicator:	Not reported		
	Fed Facility:	Not reported		
	NAIC Code:	Not reported Not reported		
	SIC Code:	Not reported		
	Program ID:	FRS 110000377814		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE		
	Address:	487 CORN CREEK ROAD BEDFORD KY 400	06	
	Tribal Indicator:	No		
	Fed Facility:	No Not reported		
	NAIC Code: SIC Code:	Not reported		
	Program ID:	NEI NEI12576		
	Facility Name:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE	COUNTY STATION	
	Address:	487 CORN CREEK ROAD BEDFORD KY 400		
	Tribal Indicator:	Not reported		
	Fed Facility:	Not reported		
	NAIC Code:	Not reported		
	SIC Code:	Not reported		

Map ID Direction Distance Elevation Site

Database(s) EPA ID

EDR ID Number EPA ID Number

## LOUISVILLE GAS & ELECTRIC/TRIMBLE STATIO (Continued)

#### 1010909591

NEI NTI12576 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: Not reported SIC Code: NET 212230002 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: NET 212236071 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Not reported Fed Facility: Not reported NAIC Code: SIC Code: Not reported NTI NTI 12576 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported PCS KY0041971 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: Address: 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Tribal Indicator: Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: PCS KYR108067 Program ID: LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Tribal Indicator: Not reported Fed Facility: Not reported Not reported NAIC Code: SIC Code: Not reported Program ID: RCRAINFO KYD991277096 LOUISVILLE GAS & ELECTRIC CO. - TRIMBLE COUNTY STATION Facility Name: 487 CORN CREEK ROAD BEDFORD KY 40006 Address: Not reported Tribal Indicator: Not reported Fed Facility: NAIC Code: Not reported Not reported SIC Code: RMP 100000178434 Program ID:

Map ID		MAP FINDINGS		
Direction Distance	ų			EDR ID Number
Elevation	Site	Da	tabase(s)	EPA ID Number
	LOUISVILLE GAS & ELECTRIC/TI	RIMBLE STATIO (Continued)		1010909591
	Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	STATION	
	Program ID: Facility Name: Address: Tribal Indicator: Fed Facility: NAIC Code: SIC Code:	TRIS 40006LSVLL487CO LOUISVILLE GAS & ELECTRIC CO TRIMBLE COUNTY 487 CORN CREEK ROAD BEDFORD KY 40006 Not reported Not reported Not reported Not reported	STATION	
A14 Target Property	LOUISVILLE GAS & ELECTRIC - 487 CORN CREEK RD BEDFORD, KY 40006	TRIMBLE CO G	SWF/LF	S107602670 N/A
	Site 14 of 16 in cluster A			
Actual: 799 ft.	LF: Facility ID: 4054 Status: Proposed Facility Type: Special Wa	ste Landfill-Coal		
A15 Target Property	LOUISVILLE GAS & ELECTRIC - 1 487 CORN CREEK RD BEDFORD, KY 40006	ſR	NPDES	S108902866 N/A
	Site 15 of 16 in cluster A			
Actual: 799 ft.	KY NPDES: KY DES #: Facility Addr 2: Facility Status: Inactive Date: Design Capacity: Fee Category: SIC Code: Lat/Long Kethod: USGS Hydrologic Basin Code Facility Stream Segment: Facility Stream Segment: Facility Mileage Indicator: Basin Code: Basin Code Description: DMR Contact: Mailing Address: Mailing Address 2: Mailing Address 2: Mailing City,St,Zip: Permit Issued: Permit Expires: SIC Code Description: Reveiving Waters:	KYR108067 Not reported ACTIVE Not reported Not reported Not reported 1611 Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported WILLIAM LEELAND WILLIAM LEELAND 221 CORN CRK RD BEDFORD, KY 40006 9/15/2006 9/30/2007 HWY & ST CONST., EXC. ELEV HWY Not reported		

Map ID Direction				
Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	LOUISVILLE GAS & ELECTRIC - 1 Major/Minor:	r <b>R (Continued)</b> MINOR		S108902866
A16 Target Property	TRIMBLE CO GENERATING STAT 487 CORN CREEK RD BEDFORD, KY 40006	TION	NPDES	S108901542 N/A
	Site 16 of 16 in cluster A			
Actual: 799 ft.	KY NPDES: KY DES #: Facility Addr 2: Facility Status: Inactive Date: Design Capacity: Fee Category: SIC Code: Lat/Long: Lat/Long Method: USGS Hydrologic Basin Code Facility Stream Segment: Facility Mileage Indicator: Basin Code: Basin Code Description: DMR Contact: Mailing Address: Mailing Address 2: Mailing City,St,Zip: Permit Issued: Permit Issued: Permit Expires: SIC Code Description: Reveiving Waters: Major/Minor:	KYR104642 Not reported INACTIVE 9/22/2004 Not reported Not reported 8741 +3836060 / -08520380 A :05140101 Not reported Not reported Not reported Not reported Not reported CARYL M PFEIFFER LG&E ENERGY PO BOX 32010 220 W MAIN ST LOUISVILLE, KY 40232 9/13/2002 9/30/2007 MANAGEMENT SERVICES OHIO RIVER MINOR		
17 South > 1 1.563 mi. 8255 ft.	LITER'S QUARRY, INC. SAND & GRAVEL OPERATION TRIMBLE (County), KY		MINES	M300004367 N/A
Relative: Lower	Ferrous and Nonferrous Metal M Mine ID: 46	ines Database: 676		
Actual: 496 ft.	Latitude: 38 Longitude: -8	and and Gravel 3.57497 5.40333 ne facility is both a mine and a plant		

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City	EDR ID	Site Name	Site Address	Zip Database(s)
REDEORD	S108900317	TRIMBLE CO GENERATING STATION	RR 1 BOX 177	40006 NPDES
BEDFORD	1004706430	DFORD	HWY 3175, 1.5 MI S OF US 42	
BEDFORD	1001219668	WHEELER OIL SERVICE	HWY 42	
BEDFORD	U003071001	DJS AUTO SERVICE	HWY 42	
BEDFORD	U003978958	FORMER CRESTWOOD AUTO SALES	21 HWY 42	
BEDFORD	1001232302	RICHMOND TRADING POST	6883 HWY 420 N	
BEDFORD	S108902330	TRIMBLE CO FISCAL COURT ATHLET	HWY 421	
BEDFORD	S108901547		BRAYS RIDGE RD / INTER HWY 42	40006 NPDES
BEDFORD	1009623187	918 421 HWY	918 421 HWY	
BEDFORD	S106886752	TEXAS GAS - TRIMBLE CO	NONE	
BEDFORD	S108910454	BETHLEHEM REACH - COAST GUARD AID	WISES LANDING RD	
BEDFORD	S108312991	LITERS QUARRY INC - TRIMBLE CO SAND & GR	920 WISES LANDING	
HANOVER	1000267339	BULK TRUCK AND TRANSPORT	HWY 56 AND 62 W	
HANOVER	U000190396	JAMES W MALONEY II	SR 62	47243 UST
MILTON	1001228369	TRIMBLE COUNTY FARM SUPPLY INC	ROUTE 2 HWY 421	40045 FINDS, RCRA-NonGen
MILTON	S107866507	NUGENT SAND CO	RT 3	
MILTON	S107866508	NUGENT SAND CO MILTON PLANT	RT 3 HWY 36	
MILTON	1000412008	MARTIN MARIETTA AGGREGATES	HIGHWAY 36	_
MILTON	1010854467	MILTON ASPHALT PLT	HIGHWAY 36 EAST	
MILTON	S108899431	MILTON ASPHALT PLANT	HWY 36 W	
MILTON	S108910411	NUGENT ORGANICS LLC	HWY 36	
MILTON	S107602817	NUGENT ORGANICS LLC	KY 36, NEAR NUGENT SAND CO	
MILTON	S105811745	NUGENT ORGANICS LLC	5503 HWY 36W	
MILTON	1001077409	JAMES OVERTON (MILTON PLAZA)	HWY 421 BOX 57	
MILTON	S106886751	MINTON PROPERTY	11184 US 421	40045 SHWS
MILTON	U003800226	FAST LANE FOOD MART	HWY 421	40045 UST
NAAB	U001321730	DENNIS E CLAPP	SR 362	47147 UST
NEW WASHINGTON	U003094054		203 SR 203	47162 UST
NEW WASHINGTON	U001079124	PSI - MARBLE HILL SERVICE BUILD	MARBLE HILL RD	47162 UST
NEW WASHINGTON	1004698904	PSI MARBLE HILL NUCLEAR GENERATING STA	MARBLE HILL RD	47162 FINDS, MANIFEST, RCRA-NonGen
PAYNESVILLE	1000123581	PSI MARBLE HILL NUCLEAR GENERATING STATION	MARBLE HILL RD	
WISES LANDING	1000263555	LOUISVILLE G&E CO TRIMBLE CY GEN STA	OFF KY HWY 625	40006 RCRA-SQG, FINDS, CERC-NFRAP

**ORPHAN SUMMARY** 

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Databases		ERNS FINDS ERNS ERNS FOR	NETAS FINDS NPDES RCRA-CESQG, FINDS UST	UST UST SUST SEMPS, RO	PSTEAF, UST UST RCRA-NonGen, FII LFAD	SB193, PSTEAF, U UST SB193, PSTEAF, U FINDS		LINUS SWF/LF NPDES NPDES	NPDES AIRS, SHWS TRIS ICIS ICIS ICIS	COCIONS COCIENCIANO COCIENCIAN CO	ERNS NPDES FINDS FINDS SB193, PSTEAF, FINDS	NPDES UST EINDS NPDES NPDES	UST NPDES UST SHWS CERCLIS-NFRAP, CENCS	LENCO NPDES FINDS NPDES RCRA-NonGen, FINDS	ust 22, 2008 Page .
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City	.bd	BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD		BEDFORD BEDFORD BEDFORD BEDFORD	BEDFORD BEDFORD BEDFORD BEDFORD	BEDFORD BEDFORD BEDFORD BEDFORD FORD FORD FORD	BEEDFORD BED	BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD	BEDFORD BEDFOR		BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD	BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD	BEDFORD BEDFORD BEDFORD BEDFORD WISES LANDING	BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD BEDFORD	Report# 02301084.2r
Map/Dir/Dist	Further review recommended			::		* * *				A, West, U - 1/8 A, West, 0 - 1/8		::	:: ::	: :	
Address	a latitude/longitude coordinate.		RR 1 RR 1 HWY 3175, 1.5 MI S OF US 42 21 HWY 42	4900 HWY 42 5515 HWY 42 W HWY 42 HWY 42	US 42 US 42 & 421 US 42 & 421 N 1065 UINCAVAX 731 SOLITH	3355 US 421 S 8494 HWY 421 N 6883 HWY 421 N HWY 421 N	HWY 421 KY 421 KY 421 US 421 1029 HWY 421N	1089 HWY 421N BRAYS RIDGE RD / INTER HWY 42 487 CORN CREEK RD 487 CORN CREEK RD	487 CORN CREEK RD 487 CORN CREEK RD 487 CORN CREEK RD 487 CORN CREEK ROAD 487 CORN CREEK ROAD 487 CORN CREEK ROAD	487 CORN CREEK ROAD 487 CORN CREEK ROAD 2020 CORN CREEK ROAD 2020 CORN CREEK ROAD	401 CONNECTED NORU CONNECTEREN NORUE MARKER 2053 JOYCE MILLS RD 2053 JOYCE MILLS RD 2053 JOYCE MILLS RD KENTUCK 754 CORN CREEK ROAD 202 MAIN ST	202 MAIN ST 202 MAIN ST MAIN & LAWSON LN 3278 MORTON RIDGE RD 3278 MORTON RIDGE RD	MORTON RDG RD MORTON RIDGE RD 29 NEW HOPE RD NONE OFF KY HWY 625	64 PENDLETON AVENUE 50 SHEPHERD LN 118 STARK LN 118 STARK LN 3365 HIGHWAY US 421 SOUTH	
Name	** - Indicates location may or may not be in requested radius. Site has not been assigned	TRIMBLE # 1 WTP A	TRIMBLE CO SAND & GRAVEL CO TRIMBLE CO SAND & GRAVEL CO TRIMBLE CO GENERTING STATION LOUISYILLE GAS & ELECTRIC CO-BEDFOI FORMER CRESTWOOD AUTO SALES	ROWLETT PROPERTY BALSTON GARAGE DJS AUTO SERVICE WHEELER OIL SERVICE	WHEELER OIL SERVICE INC FAST BREAK 101 RICHMOND TRADING POST	HOLLIS PROPERTY MIDWAY STOP N GO INC TRIMMOND TRADING POST TRIMBLE GO FISCAL COURT ATHLET	TRIMBLE CO FISCAL COURT A THLET KTC TRIMBLE CO MAINT GARAGE KTC TRIMBLE CO MAINT GARAGE TRIMBLE CO MAINTENANCE GARAGE TRIMBLE COUNTY HIGH SCHOOL	BEDFORD ELEMENTARY SCHOOL LG&E TRIMBLE CO TRANS PIPELINE LOUISVILLE GAS & ELECTRIC - TRIMBLE ( TRIMBLE CO GENERATING STATION LOUISVILLE G & E TRIMBLE STA	LOUISVILLE GAS & ELECTRIC - TRIMBLE ( LOUISVILLE GAS & ELECTRIC - TRIMBLE ( LOUISVILLE GAS & ELECTRIC - TRIMBLE ( TRIMBLE COUNTY STATION LOUISVILLE G & E CONTRIMBLE COUNTY LOUISVILLE G & E TRIMBLE STA	LOUISVILLE GAS & ELECTRIC - TR TRIMBLE COUNTY LAT CORN CREEK RAD LOUISVILLE GAS & ELECTRIC CO TRIME LOUISVILLE GAS & ELECTRIC CO TRIME	COUNCITE CAS & ELEUTION CORN CREEK RD, NO MILE MARKER SYCAMORE ESTATES MHP SYCAMORE ESTATES MHP LITER SINC CHEVRON 48768	CHEVRON RETAIL FACILITY CHEVRON #48768 HACKS WHEEL ALIGNMENT HENRY CO WATER DIST #2 WTP	HENRY CO WATER DISTRICT 2 WATER PL HENRY CO WATER DISTRICT 2 WATER PL HENRY CO WATER DIST #2 WHEELER PROPERTY WHEELER PROPERTY LEXAS GAS - TRIMBLE CO LOUISVILLE G&E CO TRIMBLE CY GEN ST	BEDFORD HEALTH CARE CENTER BEDFORD STP BEDFORD STP HOLLIS PROPERTY	
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Name	TRIMBLE CO MIDDLE SCHOOL TRIMBLE COUNTY MIDDLE SCHOOL TRIMBLE COUNTY MIDDLE SCHOOL TRIMBLE COUNTY BOARD OF EDUCATION IMI SOUTH LLC IMI SOUTH LLC IMI SOUTH LLC LITERS QUARRY INC - TRIMBLE CO SAND BETHLEHEM REACH - COAST GUARD AID MLTON WTP NUGENT SAND CO WINGHAM ASPHALT SUPPLY INC	KENTUCKY DEPARTMENT OF HIGHWAYS TRIMBLE COUNTY FARM SUPPLY INC UUGENT SAND CO NUGENT SAND CO NUGENT SAND CO NUGENT SAND CO NUGENT SAND CO NUGENT SAND CO MARTIN MARIETTA AGGREGATES MILTON ASPHALT PLT MILTON ASPHALT PLT MILTON ASPHALT PLT NUGENT ORGANICS LLC	NUGENT ORGANICS LLC NUGENT ORGANICS LLC NUGENT ORGANICS LLC NUGENT ORGANICS LLC MINTON PROPERTY TRIMBLE CTY FARM SUPPLY TRIMBLE CTY FARM SUPPLY TRIMBLE CTY FARM SUPPLY TRIMBLE CTY FARM SUPPLY TAMBLE CTY FARM SUPPLY ANITTON PLAZA	MILTON SAVE BROADWAY HOLLOW - COAST GUARD AII AMERIMAX BUILDING PRODS INC DUKE ENERGY TRIMBLE CO LLC MILTON-MADISON OHIO RIVER BRIDGE MILTON STP MILTON STP CLAPP DENNIS E DENNIS E CLAPP CLAPP DENNIS E DENNIS E CLAPP VERSATILE PROCESSING/TRANSFORMEF	3478 MARBORO HILL RD. JACKSON JENNINGS FARM BUREAU CO C TREATMENT PLANT KENNETH GRAVES & G SERVICE G & G SERVICE G & G SERVICE C ARK COUNTY HWY DEPT NEW WASHINGTON STORAGE FACILITY NEW WASHINGTON MIDDLE/HIGH SCHOC NEW WASHINGTON MIDDLE/HICH SCHOC NEW WASHINGTON MIDDLE/HICH SCHOC NEW WASHINGTON MIDDLE/HICH SCHOC NEW WASHINGTON COMPARIP NEW WASHINGTON TOWNER SCHOOL CLARK COUNTY HIGHWAY DEPARTMENT CLARK COUN
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# **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## FEDERAL RECORDS

## NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

NPL Site Boundaries

#### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

## DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008	Source
Date Data Arrived at EDR: 05/06/2008	Teleph
Date Made Active in Reports: 06/09/2008	Last El
Number of Days to Update: 34	Next S

Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

# **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	
Date Data Arrived at EDR: 02/02/1994	
Date Made Active in Reports: 03/30/1994	
Number of Days to Update: 56	

Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 26 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 07/22/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

## CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008 Number of Days to Update: 76 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 06/17/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

## LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/13/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2008	Telephone: 202-564-6023
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

## CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/26/2008
Date Data Arrived at EDR: 04/02/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Quarterly

## RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

# **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

### RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

## RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

## RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 08/21/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Date of Government Version: 04/04/2008 Source: Environmental Protection Agency Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Date Made Active in Reports: 05/15/2008 Last EDR Contact: 06/30/2008 Number of Days to Update: 28 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies US INST CONTROL: Sites with Institutional Controls A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. Date of Government Version: 04/04/2008 Source: Environmental Protection Agency Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies ERNS: Emergency Response Notification System Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances. Date of Government Version: 12/31/2007 Source: National Response Center, United States Coast Guard Date Data Arrived at EDR: 01/23/2008 Telephone: 202-267-2180 Date Made Active in Reports: 03/17/2008 Last EDR Contact: 07/25/2008 Next Scheduled EDR Contact: 10/20/2008 Number of Days to Update: 54 Data Release Frequency: Annually

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2007	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 04/16/2008	Telephone: 202-366-4555
Date Made Active in Reports: 05/15/2008	Last EDR Contact: 07/15/2008
Number of Days to Update: 29	Next Scheduled EDR Contact: 10/13/2008
	Data Release Frequency: Annually

#### DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 05/14/2008	Source: Department of Transporation, Office of Pipeline Safety
Date Data Arrived at EDR: 05/28/2008	Telephone: 202-366-4595
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 05/28/2008
Number of Days to Update: 72	Next Scheduled EDR Contact: 08/25/2008
	Data Release Frequency: Varies

#### CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007 Number of Days to Update: 25 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 06/27/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 04/30/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 30 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 08/31/2007 Date Made Active in Reports: 10/11/2007 Number of Days to Update: 41 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 31 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 02/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 35	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008
	Data Release Frequency: Varies
ROD: Records Of Decision Record of Decision. ROD documents mandat and health information to aid in the cleanup.	te a permanent remedy at an NPL (Superfund) site containing technical
Date of Government Version: 01/14/2008 Date Data Arrived at EDR: 01/22/2008 Date Made Active in Reports: 01/30/2008 Number of Days to Update: 8	Source: EPA Telephone: 703-416-0223 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Annually
shut down, large piles of the sand-like materi the ore. Levels of human exposure to radioa	s for federal government use in national defense programs. When the mills al (mill tailings) remain after uranium has been extracted from ctive materials from the piles are low; however, in some cases tailings ne potential health hazards of the tailings were recognized.
Date of Government Version: 07/13/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Varies
ODI: Open Dump Inventory An open dump is defined as a disposal facilit Subtitle D Criteria.	y that does not comply with one or more of the Part 257 or Part 258
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation A listing of illegal dump sites location on the County and northern Imperial County, Califor	Torres Martinez Indian Reservation located in eastern Riverside
Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
MINES: Mines Master Index File Contains all mine identification numbers issu- violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 02/07/2008 Date Data Arrived at EDR: 03/26/2008	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 06/25/2008

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

	Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49	Source: EPA Telephone: 202-566-0250 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually
тэс		manufacturers and importers of chemical substances included on the cludes data on the production volume of these substances by plant
	Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46	Source: EPA Telephone: 202-260-5521 Last EDR Contact: 08/11/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years
FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.		e enforcement actions and compliance activities related to FIFRA,
	Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA/Office of Prevention, Pesticides and Toxic Substances Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly
FTT	S INSP: FIFRA/ TSCA Tracking System - FIFR A listing of FIFRA/TSCA Tracking System (FT	A (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TS) inspections and enforcements.
	Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly
HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.		
	Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40	Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned
HIS	T FTTS INSP: FIFRA/TSCA Tracking System Ir A complete inspection and enforcement case I	nspection & Enforcement Case Listing isting from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

#### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007		
Date Data Arrived at EDR: 02/07/2008		
Date Made Active in Reports: 03/17/2008		
Number of Days to Update: 39		

Source: EPA Telephone: 202-566-0500 Last EDR Contact: 08/07/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

#### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/22/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/29/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/01/2008	Telephone: 202-343-9775
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 07/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2008
	Data Release Frequency: Quarterly

#### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/08/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 28 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

#### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007 Number of Days to Update: 38 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/11/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Biennially

### STATE AND LOCAL RECORDS

#### SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 06/18/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 33 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Semi-Annually

#### HIST LF: Historical Landfills This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection. Date of Government Version: 05/01/2003 Source: Department of Environmental Protection Date Data Arrived at EDR: 03/30/2006 Telephone: 502-564-6716 Date Made Active in Reports: 05/01/2006 Last EDR Contact: 05/27/2008 Number of Days to Update: 32 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: No Update Planned SB193: SB193 Branch Site Inventory List The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination. Date of Government Version: 09/05/2006 Source: Department of Environmental Protection Date Data Arrived at EDR: 09/13/2006 Telephone: 502-564-5981 Date Made Active in Reports: 10/18/2006 Last EDR Contact: 08/04/2008 Number of Days to Update: 35 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: No Update Planned UST: Underground Storage Tank Database Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program. Date of Government Version: 04/14/2008 Source: Department of Environmental Protection Date Data Arrived at EDR: 04/18/2008 Telephone: 502-564-5981 Last EDR Contact: 06/23/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls. Date of Government Version: 04/18/2008 Source: Department of Environmental Protection Telephone: 502-564-6716 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Number of Days to Update: 31 Data Release Frequency: Varies INST CONTROL: State Superfund Database A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option. Date of Government Version: 04/16/2008 Source: Department of Environmental Protection Date Data Arrived at EDR: 04/18/2008 Telephone: 502-564-6716 Date Made Active in Reports: 05/19/2008 Last EDR Contact: 06/23/2008 Number of Days to Update: 31 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies VCP: Voluntary Cleanup Program Sites Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application. Date of Government Version: 04/16/2008 Source: Department of Environmental Protection

Date of Government Version: 04/16/2008SourDate Data Arrived at EDR: 04/18/2008TelepDate Made Active in Reports: 05/19/2008LastNumber of Days to Update: 31Next

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

	DRYCLEANERS: Drycleaner Listing A listing of drycleaner facility locations.	
	Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 10	Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
BROWNFIELDS: Kentucky Brownfield Inventory The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redeve of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.		nt. The Kentucky Brownfield Program is working to promote the redevelopment at prevent reuse, providing useful information to communities,
	Date of Government Version: 05/13/2008 Date Data Arrived at EDR: 05/13/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 6	Source: Division of Compliance Assistance Telephone: 502-564-0323 Last EDR Contact: 08/12/2008 Next Scheduled EDR Contact: 11/10/2008 Data Release Frequency: Varies
	CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.	
	Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/03/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
	NPDES: Permitted Facility Listing A listing of permitted wastewater facilities.	
	Date of Government Version: 06/20/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 24	Source: Department of Environmental Protection Telephone: 502-564-3410 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies
	AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities.	
	Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
PSTEAF: Facility Ranking List The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.		
	Date of Government Version: 03/25/2008	Source: Department of Environmental Protection

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 05/07/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 12 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/05/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Quarterly

LEAD:	Environmental Lead Program Report Tracking Database	
Lead Report Tracking Database		

Date of Government Version: 10/26/2007		
Date Data Arrived at EDR: 01/07/2008		
Date Made Active in Reports: 01/25/2008		
Number of Days to Update: 18		

Source: Department of Public Health Telephone: 502-564-4537 Last EDR Contact: 07/03/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies

#### TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 08/08/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/03/2008
	Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands Location of open dumps on Indian land.

Date of Government Version: 12/31/1998		
Date Data Arrived at EDR: 12/03/2007		
Date Made Active in Reports: 01/24/2008		
Number of Days to Update: 52		

Source: Environmental Protection Agency Telephone: 703-308-8245 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/30/2008	Source: EPA Region 10
Date Data Arrived at EDR: 05/30/2008	Telephone: 206-553-2857
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 70	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada Date of Government Version: 07/11/2008 Source: Environment

Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28 Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Loo to on malan ana in oolorado, monana,	, moral parlota, obar parlota, otari ana mjorning
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN LUST R7: Leaking Underground Storage LUSTs on Indian land in Iowa, Kansas, and I	
Date of Government Version: 03/17/2008	Source: EPA Region 7

Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40 Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies

Data of Opviormant Version, 00/47/0000	Courses EBA Decien 4	
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 08/18/2008	
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually	
INDIAN LUST R1: Leaking Underground Storage A listing of leaking underground storage tank		
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008	
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies	
NDIAN LUST R6: Leaking Underground Storage LUSTs on Indian land in New Mexico and Ok		
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008	Source: EPA Region 6 Telephone: 214-665-6597	
Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008	
INDIAN UST R1: Underground Storage Tanks on	Data Release Frequency: Varies	
A listing of underground storage tank location		
Date of Government Version: 03/12/2008 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies	
INDIAN UST R4: Underground Storage Tanks on No description is available for this data		
Date of Government Version: 03/17/2008	Source: EPA Region 4	
Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008	Telephone: 404-562-9424 Last EDR Contact: 08/18/2008	
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually	
INDIAN UST R5: Underground Storage Tanks on No description is available for this data	Indian Land	
Date of Government Version: 12/21/2007 Date Data Arrived at EDR: 12/21/2007	Source: EPA Region 5 Telephone: 312-886-6136	
Date Made Active in Reports: 01/24/2008 Number of Days to Update: 34	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies	
INDIAN UST R6: Underground Storage Tanks on No description is available for this data	Indian Land	
Date of Government Version: 06/16/2008 Date Data Arrived at EDR: 06/16/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008	

INDIAN UST R7: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007 Number of Days to Update: 21	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R8: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R9: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks or No description is available for this data	n Indian Land
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 42	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN VCP R1: Voluntary Cleanup Priority Listin A listing of voluntary cleanup priority sites loc	
Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
INDIAN VCP R7: Voluntary Cleanup Priority Lisitn A listing of voluntary cleanup priority sites loc	
Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
EDR PROPRIETARY RECORDS	
Manufactured Gas Plants: EDR Proprietary Manuf The EDR Proprietary Manufactured Gas Plar	factured Gas Plants It Database includes records of coal gas plants (manufactured and gas sites were used in the United States from the 1800's to

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data Facility and manifest data. Manifest is a docun transporters to a tsd facility.	nent that lists and tracks hazardous waste from the generator through
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007 Number of Days to Update: 66	Source: Department of Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/13/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually
NY MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks ha facility.	azardous waste from the generator through transporters to a TSD
Date of Government Version: 05/27/2008 Date Data Arrived at EDR: 05/29/2008 Date Made Active in Reports: 07/10/2008 Number of Days to Update: 42	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 05/29/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Annually
PA MANIFEST: Manifest Information Hazardous waste manifest information.	
Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/10/2008 Number of Days to Update: 20	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
RI MANIFEST: Manifest information Hazardous waste manifest information	
Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008 Number of Days to Update: 65	Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually

WI MANIFEST: Manifest Information Hazardous waste manifest information

> Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 04/27/2007 Date Made Active in Reports: 06/08/2007 Number of Days to Update: 42

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 08/22/2008 Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its

fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals: Source: American Hospital Association, Inc. Telephone: 312-280-5991 The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing Source: Centers for Medicare & Medicaid Services Telephone: 410-786-3000 A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services. Nursing Homes Source: National Institutes of Health Telephone: 301-594-6248 Information on Medicare and Medicaid certified nursing homes in the United States. Public Schools Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states Private Schools Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on private school locations in the United States. Daycare Centers: Certified Child Care Homes Source: Cabinet for Families & Children Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image

is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

### STREET AND ADDRESS INFORMATION

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# **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

### TARGET PROPERTY ADDRESS

LOUISVILLE GAS & ELECTRIC - TIMBLE CO. GENERATING 487 CORN CREEK ROAD BEDFORD, KY 40006

### TARGET PROPERTY COORDINATES

Latitude (North):	38.59757 - 38° 35' 51.2"
Longitude (West):	85.40646 - 85° 24' 23.3''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	638773.2
UTM Y (Meters):	4273117.0
Elevation:	799 ft. above sea level

#### USGS TOPOGRAPHIC MAP

Target Property Map:	38085-E4 BETHLEHEM, IN
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

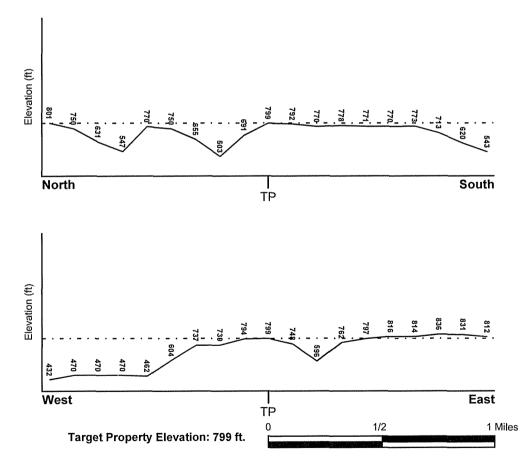
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNE

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### FEMA FLOOD ZONE

Target Property County TRIMBLE, KY	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	210300008A
Additional Panels in search area:	2103000007A 2103000011A 2103000010A
NATIONAL WETLAND INVENTORY	
NWI Quad at Target Property BETHLEHEM	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

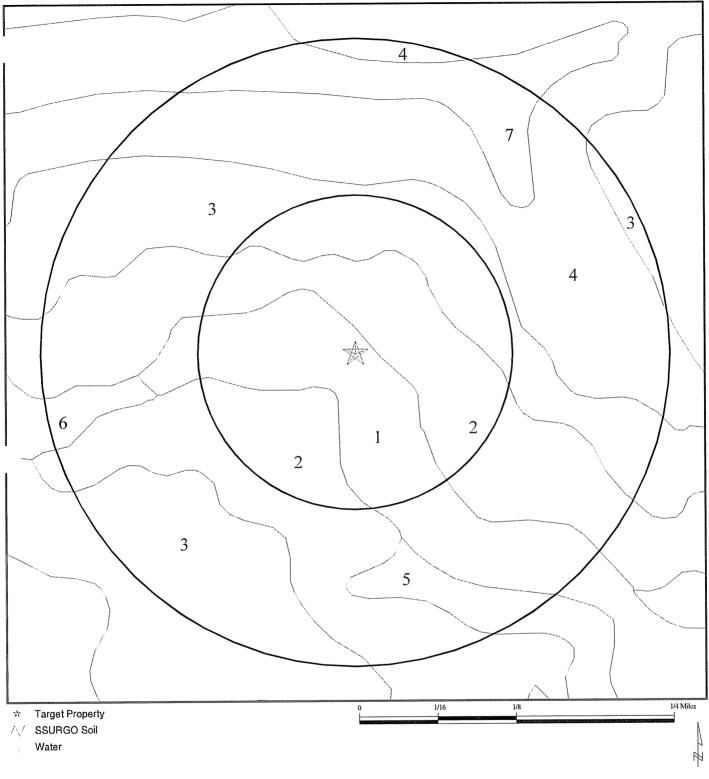
Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

### **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovician		
Series:	Upper Ordovician (Cincinnatian)		
Code:	O3 (decoded above as Era, System & S	Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).



ADDRESS: 487 Corn Creek Road Bedford KY 40006	CLIENT:ENSR Consulting & EngineeringCONTACT:Dianne DonovanINQUIRY #:02301084.2rDATE:August 22, 2008 3:23 pm
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### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1	
Soil Component Name:	Cincinnati
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 66 inches

	Βοι	Indary	Soil Texture Class	Classification		Saturated hydraulic	
Layer	Upper	Lower		AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
2	9 inches	27 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
3	27 inches	55 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
4	55 inches	81 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1

Soil Layer Information							
	Bou	indary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
5	81 inches	92 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1

Soil Map ID: 2	
Soil Component Name:	Grayford
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 124 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information							
	Boundary		Classification		Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	3 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	3 inches	16 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

	Soil Layer Information						
	Βοι	Boundary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
3	16 inches	35 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	35 inches	48 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
5	48 inches	53 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 3	
Soil Component Name:	Brassfield
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

# $\textbf{GEOCHECK}^{\texttt{B}} \textbf{ - PHYSICAL SETTING SOURCE SUMMARY}$

	Soil Layer Information						
	Bou	indary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	25 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	25 inches	29 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Mín:	Max: Min:

Soil Map ID: 4	
Soil Component Name:	Fairmount
Soil Surface Texture:	flaggy silty clay loam
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 43 inches
Depth to Watertable Min:	> 0 inches

# $\textbf{GEOCHECK}^{\texttt{B}} \textbf{ - PHYSICAL SETTING SOURCE SUMMARY}$

	Soil Layer Information						
	Bou	Boundary		Classi	fication	Saturated hydraulic	<u></u>
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	3 inches	flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	3 inches	16 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	16 inches	20 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 5	
Soil Component Name:	Cincinnati
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 66 inches

			Soil Layer	r Information			
	Bou	indary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
2	9 inches	27 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
3	27 inches	55 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
4	55 inches	81 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1
5	81 inches	92 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.3 Min: 6.1

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Soil Map ID: 6	
Soil Component Name:	Beasley
Soil Surface Texture:	silty clay loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Bou	indary		Classi	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	20 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	20 inches	40 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
4	40 inches	55 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 7	
Soil Component Name:	Boonesboro
Soil Surface Texture:	silt loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Low
Depth to Bedrock Min:	> 84 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		Soil Reaction (pH)
1	0 inches	20 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	20 inches	33 inches	very gravelly silty clay loam, very flaggy silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Mín:
3	33 inches	37 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS2326036	1/4 - 1/2 Mile SE
2	USGS2326035	1/4 - 1/2 Mile SE

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
Ann		

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID

WELL ID

LOCATION FROM TP

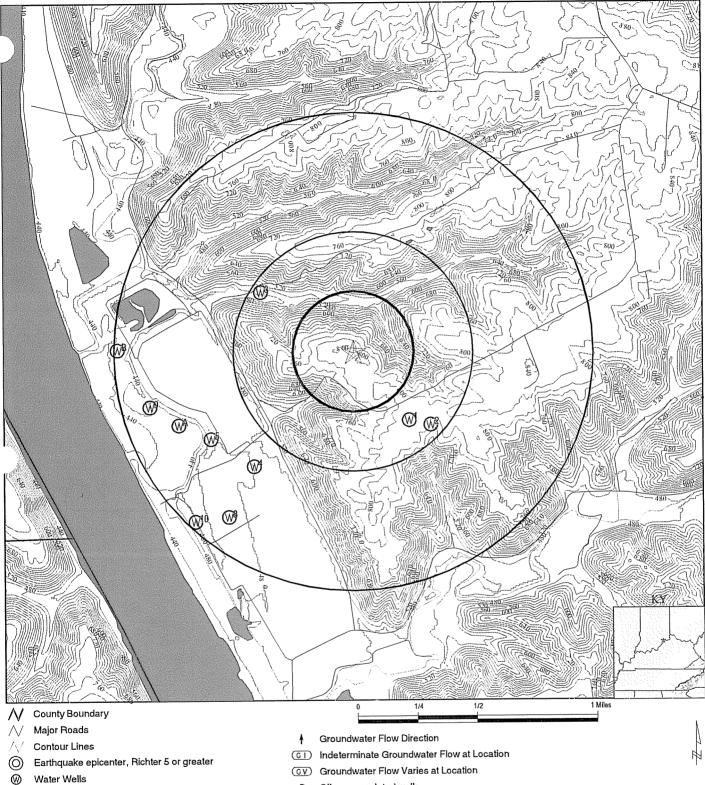
No PWS System Found

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	KY300000067400	1/4 - 1/2 Mile WNW
4	KY300000067353	1/2 - 1 Mile SW
5	KY300000067356	1/2 - 1 Mile WSW
A6	KY300000067362	1/2 - 1 Mile WSW
A7	KY300000067361	1/2 - 1 Mile WSW
8	KY300000067339	1/2 - 1 Mile SW
9	KY300000067374	1/2 - 1 Mile WSW
10	KY300000067336	1/2 - 1 Mile SW
B11	KY300000067381	1/2 - 1 Mile West
B12	KY300000067384	1/2 - 1 Mile West

# PHYSICAL SETTING SOURCE MAP - 02301084.2r



Oil, gas or related wells

Public Water Supply Wells

Cluster of Multiple Icons

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SITE NAME: Louisville Gas & Electric - Timble Co. Generating	CLIENT: ENSR Consulting & Engineering
ADDRESS: 487 Corn Creek Road	CONTACT: Dianne Donovan
Bedford KY 40006	INQUIRY #: 02301084.2r
LAT/LONG: 38.5976 / 85.4065	DATE: August 22, 2008 3:23 pm

# **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

istance levation				Database	EDR ID Number
E 4 - 1/2 Mile igher				FED USGS	USGS2326036
Agency cd:		USGS	Site no:	383536085240801	
Site name:		C18C0026			
Latitude:		383536			
Longitude:		0852408	Dec lat:	38.59339569	
Dec lon:		-85.40218034	Coor meth:	M	
Coor accr:		S	Latlong datum:	NAD27	
Dec lationg da	atum:	NAD83	District:	21	
State:		21	County:	223	
Country:		US	Land net:	Not Reported	
Location map:		C18CNE	Map scale:	24000	
Altitude:		815			
Altitude metho	od:	Interpolated from topographic ma	зр		
Altitude accura	acy:	5			
Altitude datum	1:	National Geodetic Vertical Datum	n of 1929		
Hydrologic:		SilverLittle Kentucky. Indiana, Ke	ntucky. Area = 1240 sq.mi.		
Topographic:		Hilltop			
Site type:		Ground-water other than Spring		19710000	
Date inventori		Not Reported	Mean greenwich time offset:	EST	
Local standard	-	Y			
Type of groun	d water site:	Single well, other than collector of	or Ranney type		
Aquifer Type:		Not Reported			
Aquifer:		Not Reported			
Well depth:		87	Hole depth:	87	
Source of dep		reporting agency (generally USG	iS)		
Project number		Not Reported			
Real time data	U U	0	Daily flow data begin date:	0000-00-00	
Daily flow data		0000-00-00	Daily flow data count:	0	
Peak flow data	0		Peak flow data end date:	0000-00-00	
Peak flow data		0	Water quality data begin date:		
Water quality			Water quality data count:	0	
	0	ate: 1972-04-25	Ground water data end date:	1972-04-25	
Ground water	data count:	1			
Ground-water	levels, Numt	per of Measurements: 1			
	Feet below	Feet to			
Date	Surface	Sealevel			
	~	******			

2 SE 1/4 - 1/2 Mile Higher

FED USGS USGS2326035

### **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Agency cd:		USGS	Site no:	383535085240201	
Site name:		C18C0027			
Latitude:		383535			
Longitude:		0852402	Dec lat:	38.59311793	
Dec lon:		-85.40051364	Coor meth:	M	
Coor accr:		S	Lationg datum:	NAD27	
Dec latlong da	atum:	NAD83	District:	21	
State:		21	County:	223	
Country:		US	Land net:	Not Reported	
Location map	E.	C18CNE	Map scale:	24000	
Altitude:		795			
Altitude meth	od:	Interpolated from topographic ma	p		
Altitude accur	racy:	5			
Altitude datur	n:	National Geodetic Vertical Datum	of 1929		
Hydrologic:		SilverLittle Kentucky. Indiana, Ke	ntucky. Area = 1240 sq.mi.		
Topographic:		Hilltop			
Site type:		Ground-water other than Spring	Date construction:	19710000	
Date inventor	ied:	Not Reported	Mean greenwich time offset:	EST	
Local standar	d time flag:	Y	Ū.		
Type of grour		Single well, other than collector o	r Ranney type		
Aquifer Type:		Not Reported	5 51		
Aquifer:		Not Reported			
Well depth:		74.7	Hole depth:	74.7	
Source of dep	oth data:	reporting agency (generally USG			
Project numb		Not Reported	- ,		
Real time dat		0	Daily flow data begin date:	0000-00-00	
Daily flow dat		0000-00-00	Daily flow data count:	0	
	ta begin date:		Peak flow data end date:	0000-00-00	
Peak flow dat		0	Water quality data begin date:		
	data end date	-	Water quality data count:	0	
		ate: 1972-04-25		1972-04-25	
Ground water	•	1	Cround water data and date.	1012 01 20	
Ground-water	r levels. Numh	er of Measurements: 1			
	Feet below	Feet to			
Date	Surface	Sealevel			
1972-04-25	21				
3					
WNW 1/4 - 1/2 Mile Lower				KY WELLS	KY300000067400
Location i:		312131			
North lati:		38.60117			
West longi:		-85.41357			
Akgwa numb		00049271	Site type:	Water Well	
Primary us:	•	Domestic	Constructi:	01/15/1999 00:00:00	
Site id:		KY300000067400	Construction.	01,10/1000 00.00.00	
one iu.		11100000001400			

4 SW 1/2 - 1 Mile Lower

KY WELLS KY300000067353

### **GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238301 38.59062 -85.41413 80016328 Monitoring - Ambient KY3000000067353	Site type: Constructi:	Míne 01/01/1900 00:00:00	
5 WSW 1/2 - 1 Mile Lower			KY WELLS KY30000006	7356
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238302 38.59228 -85.41747 80016329 Monitoring - Ambient KY3000000067356	Site type: Constructi:	Mine 01/01/1900 00:00:00	
A6 WSW 1/2 - 1 Mile Lower			KY WELLS KY30000006	7362
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238304 38.59312 -85.41996 80016330 Monitoring - Ambient KY3000000067362	Site type: Constructi:	Mine 01/01/1900 00:00:00	
A7 WSW 1/2 - 1 Mile Lower			KY WELLS KY30000006	7361
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	239896 38.59312 -85.41996 80016331 Monitoring - Ambient KY3000000067361	Site type: Constructi:	Mine 01/01/1900 00:00:00	
8 SW 1/2 - 1 Mile Lower			KY WELLS KY30000006	7339
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238300 38.58756 -85.41608 80016337 Monitoring - Ambient KY3000000067339	Site type: Constructi:	Mine 01/01/1900 00:00:00	

### **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance Elevation			Database	EDR ID Number
9 WSW 1/2 - 1 Mile Lower			KY WELLS	KY300000067374
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238306 38.59423 -85.42218 80016332 Monitoring - Ambient KY3000000067374	Site type: Constructi:	Mine 01/01/1900 00:00:00	
10 SW 1/2 - 1 Mile Lower			KY WELLS	KY300000067336
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238298 38.58728 -85.41869 80036995 Monitoring - Ambient KY3000000067336	Site type: Constructi:	Mine 01/28/1999 00:00:00	
B11 West 1/2 - 1 Mile Lower			KY WELLS	KY300000067381
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238307 38.59728 -85.42468 80016333 Monitoring - Ambient KY3000000067381	Site type: Constructi:	Mine 01/01/1900 00:00:00	
B12 West 1/2 - 1 Mile Lower			KY WELLS	KY300000067384
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	238309 38.59812 -85.42468 80016335 Monitoring - Ambient KY3000000067384	Site type: Constructi:	Mine 01/01/1900 00:00:00	

### **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS** RADON

### AREA RADON INFORMATION

Federal EPA Radon Zone for TRIMBLE County: 2

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 40006

### Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5<sup>T</sup> Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features

Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

soil survey maps.

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO)

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

### PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems
 Source: EPA/Office of Drinking Water
 Telephone: 202-564-3750
 Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey Telephone: 859-257-5500 Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

#### OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

### RADON

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones Source: EPA Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### STREET AND ADDRESS INFORMATION

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# Attachment to Question No. 30 8 of 8 Voyles

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY



# FINAL DRAFT

# Desktop Phase 1 Environmental Site Assessment for Tyrone Generating Station Tyrone, Kentucky

ENSR Corporation September 12, 2008 Document No.: 12267-006-0012

ENSR AECOM

Prepared for: E.ON U.S., LLC Louisville, KY

## FINAL DRAFT

# Desktop Phase 1 Environmental Site Assessment for Tyrone Generating Station Tyrone, Kentucky

Celestine Wood

Prepared By Celestine D. Wood Staff Specialist

Reviewed By Russell G. Turner Compliance Group Section Manager

ENSR Corporation September 29, 2008 Document No.: 12267-006-0012



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## 1.0 Introduction

## 1.1 Purpose

E.ON U.S., LLC (E.ON) requested ENSR Corporation (ENSR) to perform a Desktop Phase I environmental site assessment (ESA) to identify recognized environmental conditions (RECs) at the Tyrone Generating Station located in Tyrone, Woodford County, Kentucky (hereinafter referred to as the "subject property"). ENSR received authorization to perform the Phase I ESA on August 15, 2008. ENSR representative Ms. Celestine Wood, Staff Specialist conducted the desktop ESA between August 18, 2008 and September 19, 2008.

## 1.2 Scope-of-work

This assessment has been performed in accordance with ENSR's Proposal number 12267-A12, dated August 14, 2008. Tasks performed by ENSR as a part of the Desktop Phase I ESA are described in the proposal.

This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. Upon receipt of your comments, the draft report will be finalized. However, this Phase I ESA is limited by the practice and is not an exhaustive research of the subject property and surrounding area.

## **1.3 Study limitations**

This report describes the results of ENSR's due diligence assessment to identify the presence of environmental liabilities materially affecting the subject property utilizing publicly available, practically reviewable and reasonably ascertainable information.

In the conduct of this due diligence investigation, ENSR has attempted to independently assess the presence of such liabilities within the limits of the established scope of work as described in our proposal. As with any due diligence evaluation, there is a certain degree of dependence upon oral information provided by facility or site representatives which is not readily verifiable through visual observations or supported by any available written documentation. ENSR shall not be held responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed by facility or site representatives at the time this assessment was performed.

This report and all field data and notes were gathered and/or prepared by ENSR in accordance with the agreed upon scope of work and generally accepted engineering and scientific practice in effect at the time of ENSR's assessment of the subject property. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the subject property.

This report, including all supporting field data and notes (collectively referred to hereinafter as "information"), was prepared or collected by ENSR for the benefit of its client, E.ON U.S. LLC (E.ON). The information may be released to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall create no rights, obligations, or liabilities on the part of ENSR with respect to any such party. The information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

The passage of time may result in changes in technology, economic conditions, site variations, or regulatory provisions which would render the report inaccurate. Reliance on the report after the date of issuance as an accurate representation of current site conditions shall be at the user's sole risk. Should ENSR be required to review the report after six (6) months from its date of submission, ENSR shall be entitled to additional compensation at then existing rates or such other terms as may be agreed upon between ENSR and the client.

## 2.0 Site description

## 2.1 Location

The subject property is located on the eastern shore of the Kentucky River across from the town of Tyrone, Woodford County, Kentucky north of Highway 62. The surrounding area consists of a mixed rural and residential area. Access to the subject property is provided from Tyrone Pike off of Highway 62 onto the subject property. The subject property consists of consists of 298 acres.

Figure 1 provides a site location map for the subject property.

## 2.2 Current use of the subject property

These facilities consist of three steam electric generating units for a total of 135 MW capacity. Unit 3 is the largest unit and is coal-fired (boiler number 5). Units 1 and 2 were originally fueled by coal-fired boilers 1-4; in the early 1970's, these boilers were converted to an oil-fired operation. Units 1 and 2 have since been retired from service.

Almost all of the water serving the plant (up to 180 million gallons/day) is withdrawn by two intake structures located in the Kentucky River. Most of this water is used for once-through cooling and is returned through a discharge canal down stream of the intake point. Drinking water is supplied from a public water source. Two wells supply groundwater (250,000 gal/day) for: demineralized boiler water; miscellaneous process equipment cooling or flows to the ash treatment basin.

The plant generates several "exempt" wastes as defined by 40 CFR Part 261.4. These non-hazardous special wastes include fly ash, bottom ash and boiler slag. These wastes are disposed of and treated in a large onsite surface impoundment (ash treatment basin) and then discharged into the Kentucky River according to a KPDES permit.

Internal boiler tube surfaces are cleaned as needed to remove scale. Non-hazardous chelating solvents are typically used and may be disposed of by evaporation in an operating boiler. TCLP tests are conducted to ensure that these wastes are non-hazardous; if test results show any particular batch of these wastes to be hazardous, then they are neutralized on-site and shipped off-site for disposal.

All waters that have the potential to contain oily wastes are routed to an oil/water separator. The oil/water separator and the sewage treatment plant (which is used for treatment of sanitary wastes) are directed to the ash treatment basin prior to discharge. This provides additional treatment of these wastes prior to being returned to the Kentucky River.

To ensure that no oil or accidental releases will reach the Kentucky River, the entire plant property has been modified. The 69 kV and 138 kV substations are bermed and all drains are routed to the oil/water separator. The coal storage pile is diked and bermed and all run-off is collected in a settling basin which is pumped to the ash treatment basin. The ash treatment basin is dredged as needed for improved retention time and settling efficiency. All drains, inside and outside the plant that could receive oil from an accidental release or spill, are routed into the oil/water separator. The oil/water separator discharges into the ash treatment basin that is continuously monitored and discharges through a skimmer into a secondary settling basin before it enters the Kentucky River.

Precautions were taken in the design of the facilities to minimize the possibility of oil spillage from equipment utilizing large quantities of oil. Turbine oil rooms are built to confine any oil spill. Transformers are surrounded with course gravel so as to allow for the accumulation of the oil immediately adjacent to the transformer should a leak occur. Bulk storage of oil is bermed.

Transformer-rectifier sets on the electrostatic precipitators and ground neutral and lighting transformers at the plant known to contain regulated levels of PCBs have been removed from service, appropriately disposed of off-site, and replaced with NON-PCB units.

Below is a table providing the material inventory and tank listing for the petroleum (fuel, non-fuel and electrical equipment storage) containing tanks.

## Fuel Storage (total 515,000 gallons)

Material	Maximum Amount (gallons)	Location/Comments
Diesel/Fuel Oil #2	500,000	Outside, aboveground storage tank, steel, uphill of warehouse and parking lot, earthen bermed, storm water valved & drains to oil-water separator
Diesel/Fuel Oil #2	14,000	Outside, underground storage tank, steel (single wall, cathodic protection) adjacent to main building, monitored daily
Diesel/Fuel Oil #2	500	Outside, aboveground portable storage tank, steel, near coal pile, metal pan berm, valved storm water drainage
Diesel/Fuel Oil #2	500	Outside, aboveground portable storage tank, steel, outside operations area, metal pan berm, valved storm water drainage

## Non-Fuel Materials Storage

Material	Maximum Amount (gallons)	Location/Comments
Lubricating Oil	1,100	Steel drums, outside within outdoor oil storage facility (adjacent to coal pile), concrete curbed, drains to oil/water separator
Lubricating Oil	110	Steel drums, inside mobile coal handling equipment maintenance shed, drains to coal pile retention pond

Material	Maximum Amount (gallons)	Location/Comments
Lubricating Oil	500	Ten-55 gallon dispensers and drums, steel, inside basement (and maintenance shop area), drains to oil/water separator
Used Lubricating Oil	275	Steel drums inside plant, drains to plant sumps
Turbine Lubricating Oil	1,250	Unit 1 reservoir, drains to plant sumps

Turbine Lubricating Oil	1,250	Unit 2 reservoir, drains to plant sumps
Turbine Lubricating Oil	2,500	Unit 3 reservoir, drains to plant sumps
Turbine Clean/Dirty Oil	7,000	Reservoir tank, drains to plant sumps which drain to oil/water separator

## **Toxic and Hazardous Chemicals**

Material	Maximum Amount (gallons)	Location/Comments
Sodium Hydroxide 10,000 (caustic soda)		Outside, aboveground storage tank, steel, adjacent main building, concrete bermed, stormwater valved & drains to oil-water separator

Material	Maximum Amount (gallons)	Location/Comments
Sulfuric Acid	10,000	Outside, aboveground storage tank, steel, adjacent main building, concrete bermed, stormwater valved & drains to oil-water separator
Hydrazine	75	Steel drums, inside basement, near Unit 3 chemical feed pumps
Klaraid-CDP#1	500	Steel tank inside basement near precipitator

## 2.3 Utilities

Almost all of the water serving the plant (up to 180 million gallons/day) is withdrawn by two intake structures located in the Kentucky River. Most of this water is used for once-through cooling and is returned through a discharge canal down stream of the intake point. Drinking water is supplied from a public water source. Two wells supply groundwater (250,000 gal/day) for: demineralized boiler water; miscellaneous process equipment cooling or flows to the ash treatment basin.

The subject property obtains power from the generating station for site operations.

## 2.4 Current use of adjoining properties

The following table provides a description of the properties adjacent to the boundaries of the subject property, based on ENSR's review of aerial photographs.

## Table 2-1 Adjacent Land Use

Direction from site	Adjacent land use description
North	Kentucky River and rural residential.
East	Vacant undeveloped land.
South	Kentucky River and Highway 62.
West	Kentucky River and rural residential

Based on a review of aerial photographs the land surrounding the facility is characterized by rural residential and vacant undeveloped land.

## 3.0 Records information

## 3.1 Standard environmental records

Standard environmental record sources are defined in Section 8.2.1 of the ASTM standard. These records consist of selected federal and state environmental databases. ASTM also specifies the appropriate search distances from the subject property for which these records should be reviewed. ENSR retained the services of Environmental Data Resources, Inc. (EDR) of Milford, Connecticut to provide specified state and federal regulatory list information for potential sites of environmental concern located at or in the vicinity of the subject property. EDR maintains a computerized Geographic Information System (GIS) listing of various state and federal databases in accordance with the ASTM standard. The database search was based upon ASTM-specified standard record sources. Additionally, databases searched by EDR satisfy records review requirements of the *all appropriate inquiry* rule. EDR includes these databases, when available, as a part of its report. Descriptions of each database are provided in Part GR-1 of the EDR database report (Appendix A). It should be noted that due to the size of the subject property, ENSR extended the search radius an additional ½ mile in addition to the ASTM search distances.

The subject property is located in a rural area, which is primarily undeveloped agricultural property and range land. The subject property was identified in the EDR report. None of the orphan (unmapped) sites listed on the EDR report were identified by ENSR within the vicinity of the subject property.

A variety of federal and state governmental databases were reviewed using EDR. The following federal and state contamination-related databases described in Table 3-1 were searched for the area surrounding the subject properties; the various search distances used are also noted.

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
	Federal Databases	
NPL <sup>2</sup>	Existing and proposed Superfund sites on the National Priorities List	1.5
CERCLIS <sup>2</sup>	Abandoned, uncontrolled or inactive hazardous waste sites reported to the U.S. EPA, which have been or are scheduled to be investigated by the U.S. EPA for potential nomination to the NPL.	1.0
RCRIS-TSD <sup>2</sup>	Reported sites that treat, store and/or dispose of hazardous waste and subject to the federal RCRA regulations.	1.0
RCRIS-LQG/SQG <sup>2</sup>	Reported large-quantity generators and small quantity generators of hazardous waste.	0.75
ERNS <sup>2</sup>	Sites reporting spills to the U.S. EPA and/or the U.S. Coast Guard under various federal regulations	0.5
FINDS	Facility Index System indicates the presence of a site on another federal database.	0.5
PADS	PCB Activity Database System identifies generators, transporters, commercial storers and/or brokers and disposers of PCBs who are required and have notified the EPA of such activities.	0.5
RAATS	RCRA Administrative Tracking System contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA.	0.5

## Table 3-1 Databases Searched and Radii

Database Acronym	Description	Search Distance <sup>1</sup> (miles)
TRIS	Toxic Chemical Release Inventory System identified facilities who have reported releases of listed toxic chemicals to the air, water, and land in reportable quantities under SARA Title III Section 313.	0.5
TSCA	Toxic Substances Control Act identified manufacturers and importers of chemical substances by plant site in 1986. No updates of the list have been made by EPA.	0.5
HMIRS	Hazardous Materials Information Reporting System contains hazardous material spill incidents reported to the Federal DOT.	0.5
NPL Liens	List of liens placed against real property in order for the EPA to recover remedial action expenditures or when the property owner receives notification of potential liability.	0.5
CORRACTS	Corrective Action Report identifies hazardous waste handlers with RCRA corrective action activity.	1.5
ROD	Records of Decision mandating a permanent remedy for a Superfund Site	1.5
MLTS	Material Licensing Tracking System, maintained by the Nuclear Regulatory Commission, contains a list of sites that possess or use radioactive materials and are subject to NRC licensing.	0.5
Delisted NPL	Sites removed from the NPL	1.5
Coal Gas	Former manufactured coal gas sites	2.0
	State Databases	
SWHS <sup>2</sup>	State hazardous waste sites	1.5
UST <sup>2</sup>	Sites which have reported underground storage tanks.	0.75
SB193 <sup>2</sup>	Sites which have reported leaking underground storage tanks.	1.0
SWF/LF <sup>2</sup>	List of permitted solid waste disposal facilities	1.0
commercial rea	ch distances used equal or exceed those recommended by ASTM for assessing the environ I estate. In are required to be searched by ASTM.	onmental condition of

ENSR completed an EDR Site Report of the subject property to obtain the information below. According to the EDR database and orphan site listing, the subject property appears on the following databases: RCRA-CESQG, CERCLIS-NFRAP, FINDS, NPDES, SHWS, UST, AIRS, FTTS and HIST FTTS.

According to the database the facility is a conditionally exempt small quantity generator of hazardous waste. The facility's waste streams consists of D001 (ignitable hazardous wastes), D008 (lead), D009 (mercury), D018 (benzene), D035 (methyl ethyl ketone), F001 (spent halogenated solvents) and F003 (spent non-halogenated solvents). According to the database the facility does not have any violation related to hazardous waste.

The subject property appears on the CERCLIS-NFRAP database due to a discovery on August 1, 1980. The preliminary assessment was completed on August 1, 1984. The site inspection was archived on June 6, 1989. Given the lack of information regarding the listing ENSR believes this represents an environmental concern to the subject property.

The subject property also appears on the FINDS database, which is a pointer database. The FINDS database pointed to an air database and TRIS database.

According to the database the facility operates an active NPDES permit (KY0001899). The Kentucky River is the listed receiving water.

The subject property appears on the SHWS for an active SHWS, which no additional information provided. Given the lack of information regarding the SHWS ENSR believes this represents an environmental concern to the subject property.

The subject property appears on the UST database. According to the database the subject property has removed three USTs and currently has one UST. Tank 1 was a 2,000-gallon single wall steel tank that historically contained an unknown substance. Tank 2 was a 2,000-gallon single wall steel tank that historically contained an unknown substance. Tank 2 was a 2,000-gallon single wall steel tank that historically contained an unknown substance. Tank 2 was a 2,000-gallon single wall steel tank that historically contained an unknown substance. All three of these tanks were reported as being installed in 1947 and removed in 1989. No state documentation was provided to verify closure status, given this lack of information ENSR believes this represents an environmental concern to the subject property. Tank 4 was a 14,000-gallon tank that contained an unknown substance. Tank 4 was reportedly installed in 1942. According to an April 20, 1990 letter from the Commonwealth of Kentucky – Natural Resources and Environmental Protection Cabinet, the soil samples collected during the removal of the tanks in 1989 did not indicate a concentration of hydrocarbons and determined that additional investigation was not required.

The subject property appears on the AIRS database, indicating the facility operates under an air permit. No additional information was provided in the database.

The subject property appears on the TRIS database. According to the database, the subject property submitted a TRIS for the following compounds: hydrochloric acid, lead compounds, mercury compounds and sulfuric acid.

The subject property appears on the FTTS and HIST FTTS database for a Section 6 PCB investigation. No additional information was provided in the database. Given the lack of information, ENSR believes this represents an environmental concern to the subject property.

Wild Turkey Bourbon Release, located at 1525 Tyrone Road approximately 4,200 feet southwest of the subject property appears on the CERCLIS database. According to the database, the site was discovered on May 17, 2000. The cleanup of the property began on May 10, 2000 and was complete on May 27, 2000. The preliminary assessment with no further remedial action planned was completed on April 12, 2005. Based on the facility's distance and current regulatory status, ENSR does not believe this represents an environmental concern to the subject property.

An un-named facility, located at 6800 Tyrone Pike approximately 2,100 feet south southwest of the subject property appears on the ERNS database. According to the database 1,000-gallons of sulfuric acid was discharged from an aboveground storage tank on November 17, 2005. The database states the spill was contained within a secondary containment area and cleaned up by Pecco Environmental. Based on the facility's distance and current regulatory status, ENSR does not believe this represents an environmental concern to the subject property.

Austin Nichols & Company, Inc., located at 1525 Tyrone Road approximately 4,200 feet southwest of the subject property appears on the SHWS and SWF/LF databases. According to the database the SHWS is closed. The landfill is currently operational as a lanfarm type B landfill. Based on the facility's distance from the subject property, ENSR does not believe this facility represents an environmental concern to the subject property.

H & A Woodford County Land Application, located at 6135 Tyrone Pike approximately 4,500 feet southeast of the subject property appears on the SWF/LF and HIST LF databases. According to the SWF/LF database the facility is operating a landfarm type B. According to the HIST LF database the facility is operating a landfarm for type B sludge. Based on the facility's distance from the subject property, ENSR does not believe this facility represents an environmental concern to the subject property.

Boulevard Distillers and Importers, located at 1525 Tyrone Road approximately 4,200 feet southwest of the subject property appears on the HIST LF database. According to the database the facility operates a landfarm for type B sludge. Based on the facility's distance from the subject property, ENSR does not believe this facility represents an environmental concern to the subject property.

Based on the current regulatory status and/or distance from the subject property, ENSR does not believe the sites identified in the EDR "Orphan Summary" represent a potential threat to impact the subject property. No additional surrounding properties were identified in the EDR report.

A detailed review of information regarding identified/recognized environmental elements is beyond the scope of this study. However, state and federal environmental laws and regulations suggest that the owners of sites with identified (and unidentified) environmental elements would be responsible for investigative effort or site remediation determined necessary by state or federal regulatory agencies for these conditions.

## 3.2 Additional environmental records

Per Section 8.2.2 of the ASTM standard, local, and/or additional state or tribal sources of environmental records shall be reviewed to enhance and supplement the ASTM-required federal and state records reviewed and discussed in Section 4.1 of this report. These additional records/sources may include local records such as: lists of waste disposal sites; brownfields sites; lists of hazardous waste/contaminated sites; lists of registered storage tanks; local land records (for activity and use limitations); records of emergency release reports; and records of contaminated public wells. Local sources that may be contacted to obtain this information include: Department of Health/Environmental Division; Fire Department; Planning Department; Building Permit/Inspection Department; Local/Regional Pollution Control Agency, Local/Regional Water Quality Agency, and Local Electric Utility Companies (for records relating to PCBs).

The subject property was not located on or within 1 mile of tribal lands. As a result, tribal records were not researched as a part of this assessment.

Per the ASTM Standard, approximate minimum search distances for additional records sources should not be less than those specified for standard records sources, but can be adjusted at the discretion of the environmental professional. Based on ENSR's observations during the site visit and information provided in the EDR report, no significant environmental concerns were identified associated with the adjacent properties; thus, additional state and local records not included within the EDR report were reviewed for the subject property only.

A table documenting the departments contacted to request environmental information relative to the subject property is included in Section 9. These inquires may have been made in the form of telephone interviews, Freedom of Information Act (FOIA) requests, and/or in person discussions.

The results of these inquiries are summarized in the following table.

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## **Table 3-2 Agency Inquiries**

Record source	Type of records	Comments
Record source U.S. EPA ECHO database	Type of records Environmental compliance history of the subject property	CommentsSeptember 30, 2008 – online queryAccording to the database the facility operates under five permits and/or identifiers; FRS 110000872841, CAA 2123900001, CWA KY0001899, RCRA KYD00622944 and TRI 40383KNTCKYU62P. According to the database the facility has had four CAA inspections and 3 CWA inspections in the past five years with no enforcement action. According to the database the facility has received two letters of violation/warning letters regarding CWA issues dated June 29, 2007 and February 11, 2008.ENSR reviewed documentation provided by Kentucky Utilities regarding the 2007 NOV, due to an exceedance of the 30 mg/l average for the 
		corrected the problem. According to the Commonwealth of Kentucky, Division of Enforcement, Notice of Violation dated June 29, 2007, the KDEP acknowledged the explanation attached to the March 2007 Discharge Monitoring Reports and no additional submittals are required at this time.
U.S. EPA Envirofacts Database	Lists and provides information concerning facility activities subject to federal permitting requirements	September 30, 2008 – online query According to the database, the facility submitted a TRI report for the year 2006. According to the database mercury compounds are transferred to other sites. The following chemicals are released to the air: hydrochloric acid, lead compounds, mercury compounds and sulfuric acid.
		The following chemicals are release to the ground: lead compounds and mercury compounds.
Kentucky Department of	Freedom of Information	September 8, 2008 – record request
Environmental Protection	Request regarding the subject property's current regulatory status.	ENSR reviewed the records provided by Mary Hawkins for the air program at the E.W. Brown facility. According to the state of Kentucky the facility has submitted the facility's annual compliance reports for their Title V permit for the years 2005, 2006 and 2007.
		Also according to the state's file, an air inspection

Record source	Type of records	Comments
		was conducted on March 22, 2005 and March 19, 2007. Both inspections resulted in no violations observed.
		ENSR has requested records regarding the facility's waste and water programs. At the time of this report ENSR has not received the information from the Kentucky DEP.
Versailles Fire Department	Information that may be on file for the subject property, specifically regarding the installation or removal of underground storage tanks (USTs) from the subject property, or spills or releases of oil and/or hazardous/radioactive materials at the site.	September 30, 2008 – phone interview ENSR left a message regarding the fire department information for the subject property. At the time of this report ENSR has not received a call back from the Fire Department.

## 3.3 Physical setting information

The subject property is located in Woodford County, Kentucky, and consists of 298 acres of land. The subject property is located in Tyrone, Kentucky north of Highway 62.

According to the USGS Tyrone, Kentucky Quadrangle 7.5-Minute Series Topographic map, the elevation of the subject property area is between approximately 500 to 550 feet above mean sea level. The subject property has a elevation change of approximately 50 feet from the center of the property to the western portion of the subject property which abuts Kentucky River. Based on topographical information the regional ground would flow to the north, northwest toward the Kentucky River.

Based on a review of the US Department of Agriculture - Soil Conservation Service Soil Survey of Woodford County, Kentucky, the central portion of the subject property is underlain by McAfee silt loam. McAfee has a very slow infiltration rate. The soil is well drained and has a high corrosion potential. Depth to bedrock is greater than 76 inches. According to the EDR McAfee soil is not classified as a hydric soil.

According to the Federal Emergency Management Agency (FEMA) floodplain information provided in the EDR the north, northeast and northwest portions of the subject property are located on the 500 year flood zone (2102300050A).

According to the EDR report (Appendix A), federal area radon information for Woodford County indicates that Woodford County is designated as a "Zone 1" (i.e., counties in which the predicted average indoor radon screening level is greater than 4 picoCuries per liter [pCi/L]). EDR reported that 6 sites were tested for radon within Woodford County. The average test results indicate levels of radon were 3.067 pCi/L in first floor living areas. The U.S. EPA Guideline for radon in residential dwellings is 4.0 pCi/L. The U.S. EPA does not have a guideline for radon in commercial or industrial buildings.

## 3.4 Historical use information on the subject property and adjacent sites

Information pertaining to historical uses of the subject property and surrounding area was obtained from the following publicly available and readily reviewable sources:

 Topographic maps: Frankfort, Kentucky Quadrangle (1924) and Tyrone, Kentucky Quadrangle (1967 and 1984); and • Aerial Photographs: 1959, 1985, 1997 and 2006.

Sanborn Fire Insurance maps were requested from EDR; however, Sanborn Fire Insurance maps were not available for the subject property or the immediately surrounding area.

A chronological history of the subject property and abutting property use is presented in Table 3-3.

## Table 3-3 Chronological Historical Subject Property and Abutting Property Use

Date(s)	Type of Document	Description	Level of Concern
1924	Topographic Map	Subject property and Abutting properties: The subject property and surrounding properties are depicted as undeveloped land.	None
1959	Aerial Photograph	Subject property and Abutting properties: The subject property appears developed with the power plant. The surrounding properties appear vacant.	None
1967	Topographic Map	Subject property and Abutting properties: The subject property is labeled with a Powerplant. The surrounding properties are not labeled and appear undeveloped.	None
1984	Topographic Map	Subject property and Abutting properties: The subject property is labeled with a Powerplant. The surrounding properties are not labeled and appear undeveloped.	None
1985	Aerial Photograph	Subject property and Abutting properties: Given the poor quality of the aerial comments regarding the subject property and abutting properties can not be made.	None
1997 and 2006	Aerials Photograph	Subject property and Abutting properties: The subject property appears developed with the power plant. The surrounding properties appear vacant.	None

## 3.5 **Previous environmental reports**

No previously prepared environmental reports for the subject site were identified by E.ON personnel, or provided for ENSR's review.

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## 4.0 Regulatory Considerations

ENSR conducted a review of facility operations to assess its compliance with key local, state and federal environmental regulations. A summary of significant regulatory compliance considerations at the E.ON facility is provided below.

## 4.1 Title V Permitting

The Tyrone facility was completed their initial Title V permit application on August 20, 2005. The final Title V permit for the Tyrone facility was authorized on July 2, 2007.

ENSR's review of E.ON records indicated that E.ON has submitted annual compliance reports as required beginning for 2005, 2006 and 2007.

The Title V permit application is authorized for a period of five years from the date of initial issue. The original Title V permit for the Tyrone facility expires on July 12, 2012.

## 4.2 Waste Management

According to the EDR, the subject property is a conditionally exempt small quantity generator of hazardous waste and thus an Hazardous Waste Annual Report is not required.

## 4.3 Emergency Planning and Community Right-to-Know

Facilities that manufacture, use, or store chemicals any hazardous chemical/substance which requires an MSDS be kept on location is required to report these chemicals on an annual basis. The Superfund Amendments and Reauthorization Act (SARA) Section 312 outlines the requirements for companies that store chemicals at their location. This report is commonly known as the Tier Two Report. ENSR reviewed the 2005, 2006 and 2007 Tier Two Reports for the Tyrone facility. The facility filed a Tier Two Report due to the storage of the following chemicals: sodium hydroxide, sulfuric acid, turbine oil, diesel fuel oil #2 and hydrazine.

SARA Section 313 outlines the requirements for reporting releases at facilities that manufacture, store, and/or use chemicals regulated under these regulations. This form is commonly known as the Toxic Release Inventory (TRI) Form R. ENSR reviewed the 2005 and 2006 TRI reports, for the Tyrone facility which appeared complete.

## 4.4 Spill Prevention, Control & Countermeasure (SPCC) Plan

Facilities that engage in drilling, producing, gathering, storing, processing, refining, transferring, distributing, using, or consuming oil and oil products, which due to their location, could reasonably be expected to discharge oil in quantities that may be harmful, are regulated under 40 C.F.R. § 112. If the aggregate aboveground storage capacity of the facility is more than 1,320 gallons (only containers of oil with a capacity of 55 gallons or greater are counted), the facility is required to prepare and implement a Spill Prevention, Control and Countermeasure (SPCC) Plan. The current plan was dated May 2006, and was certified on May 26, 2006.

## 4.5 Wastewater and Storm Water

On-site wastewater generation consist of five permitted discharge outfalls. The facility is permitted (permit number KY0001899 by the Kentucky Department for Environmental Protection for these discharges. Outfall 001 and 002 are to the Kentucky River at mile points 82.9 and 83.1. Outfall 003 and 004 are to the ash pond. Outfall 005 is the plant intake.



ENSR reviewed random Discharge Monitoring Reports (DMR) for January, February, April, May, June, July and October 2006; March, July, October and November 2007; and January, May and June 2008. No exceedences of the permit levels were identified in the review of the reports.

## 5.0 Findings and opinion

ENSR performed a Desktop Phase I ESA of the Tyrone facility located at 6800 Tyrone Pike, Tyrone, Woodford County, Kentucky to identify environmental concerns associated with the property. This report contains observations and conclusions concerning the apparent environmental condition of the subject property based upon the agreed scope-of-work. As required the report will include ENSR's opinion on the need for additional investigations, data gaps, and ENSR's opinion of the significance of the data gaps. Upon receipt of your comments, the draft report will be finalized. However, the scope of a Phase I ESA is limited by the practice and is not an exhaustive research of the subject property and surrounding area. ENSR will provide recommendations, should conditions suggesting the need for additional study be observed.

## 5.1 Environmental Concerns

- <u>CERCLIS-NFRAP</u>: The subject property appears on the CERCLIS-NFRAP database due to a discovered on August 1, 1980. The preliminary assessment was completed on August 1, 1984. The site inspection and archived on June 6, 1989. Given the lack of information regarding the listing ENSR believes this represents an environmental concern to the subject property.
- <u>SHWS</u>: The subject property appears on the SHWS for an active SHWS, which no additional information provided. Given the lack of information regarding the SHWS ENSR believes this represents an environmental concern to the subject property.
- <u>FTTS and HIST FTTS</u>: The subject property appears on the FTTS and HIST FTTS database for a Section 6 PCB investigation. No additional information was provided in the database. Given the lack of information, ENSR believes this represents an environmental concern to the subject property.
- <u>NOV</u>: According to the EPA database, the subject property received two letters of violation/warning letters regarding CWA issues dated June 29, 2007 and February 11, 2008. The June 29, 2007 NOV has been resolved.



## 6.0 References and contacts

## 6.1 Persons interviewed

Hawkins, Mary, Commonwealth of Kentucky, Department for Environmental Protection, Division for Air Quality, 502-564-3999.

Department Representative, Versailles Fire Department, 8504 Terry Road, Louisville, KY.

Voyles, John, E.ON, Vice President, Transmission & Generation Services, john voyles@eon-us.com.

#### 6.2 Reports and documents reviewed

- ASTM 1527-05, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.
- Aerial Photographs dated 1959, 1985, 1997, and 2006; US obtained from Environmental Data Resources, Inc., Southport, CT.

EDR-Radius Map with Geocheck<sup>®</sup>, Kentucky Utilities Co. – Tyrone, US 62 PO Box 48, Tyrone, KY 40383.

Facility files, Kentucky Utilities Co. - Tyrone, US 62 PO Box 48, Tyrone, KY 40383.

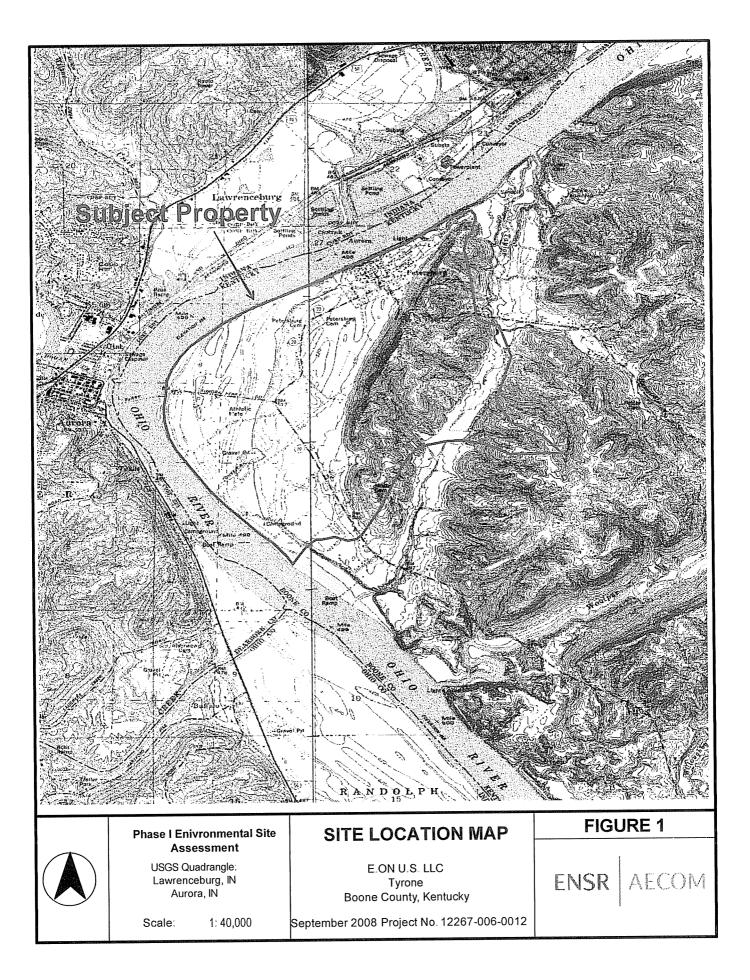
Historic Topographic Maps dated 1924, 1967, and 1984 obtained from Environmental Data Resources, Inc., Southport, CT.

Best Management Practices and Spill Prevention, Control, and Countermeasure Plan, Tyrone Generating Station, May 2006.

Tyrone Environmental Compliance Report, August 2007.



## Figures



ENSR AECOM

Appendix A

**EDR Report** 

Kentucky Utilities Co. - Tyrone US 62 PO Box 48 Tyrone, KY 40383

Inquiry Number: 02299739.2r August 20, 2008

# The EDR Radius Map<sup>™</sup> Report with GeoCheck®



440 Wheelers Farms Road Milford, CT 06461 Toll Free: 800.352.0050 www.edrnet.com

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## **GEOCHECK ADDENDUM**

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*Thank you for your business.* Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

US 62 PO BOX 48 TYRONE, KY 40383

#### COORDINATES

Latitude (North):	38.047010 - 38° 2' 49.2"
Longitude (West):	84.841280 - 84° 50' 28.6"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	689424.4
UTM Y (Meters):	4213025.0
Elevation:	663 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: Most Recent Revision:

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 6 of the attached EDR Radius Map report:

1984

Site	Database(s)	EPA ID
KY UTIL TYRONE GEN STA US HWY 62 @ KY RIVER TYRONE, KY 40383	NPDES	N/A
KY UTILITIES CO - TYRONE STATION US 62 AT KY RIV	SHWS Facility Status: Active	N/A
VERSAILLES, KY 40383	UST AIRS	
KENTUCKY UTILITIES CO TYRONE STAT U.S. HWY 62 PO BOX 48 6800 TYRONE PIKE VERSAILLES, KY 40383	TRIS	40383KNTCKUS
KENTUCKY UTILITIES/TYRONE GENERAT P O BOX 48 VERSAILLES, KY 40383	FTTS HIST FTTS	N/A

38084-A7 TYRONE, KY

#### DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### FEDERAL RECORDS

Proposed NPL Delisted NPL NPL LIENS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-CESQG RCRA-NonGen US ENG CONTROLS US ENG CONTROLS US INST CONTROL HMIRS DOT OPS US CDL US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA DEBRIS REGION 9 TSCA SSTS	CERCLIS No Further Remedial Action Planned CERCLA Lien Information Corrective Action Report RCRA - Transporters, Storage and Disposal RCRA - Large Quantity Generators RCRA - Small Quantity Generators RCRA - Conditionally Exempt Small Quantity Generator RCRA - Non Generators Engineering Controls Sites List Sites with Institutional Controls Hazardous Materials Information Reporting System Incident and Accident Data Clandestine Drug Labs A Listing of Brownfields Sites Department of Defense Sites Formerly Used Defense Sites Land Use Control Information System Superfund (CERCLA) Consent Decrees Records Of Decision Uranium Mill Tailings Sites Open Dump Inventory Torres Martinez Reservation Illegal Dump Site Locations Toxic Substances Control Act Section 7 Tracking Systems
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
	Integrated Compliance Information System
PADS	PCB Activity Database System
	Material Licensing Tracking System
RADINFO	Radiation Information Database
	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

#### STATE AND LOCAL RECORDS

SB193	SB193 Branch Site Inventory List
ENG CONTROLS	Engineering Controls Site Listing
INST CONTROL	State Superfund Database
VCP	Voluntary Cleanup Program Sites
DRYCLEANERS	Drycleaner Listing
BROWNFIELDS	Kentucky Brownfield Inventory

CDL	Clandestine Drub Lab Location Listing
LEAD.	Environmental Lead Program Report Tracking Database
PSTEAF	0 1 0

#### TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land
INDIAN VCP	Voluntary Cleanup Priority Listing

#### EDR PROPRIETARY RECORDS

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

#### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### FEDERAL RECORDS

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 04/08/2008 has revealed that there is 1 CERCLIS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
WILD TURKEY BOURBON RELEASE	1525 TYRONE ROAD	1/2 - 1 SW	B9	13

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 ERNS site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
6800 TYRONE PIKE	6800 TYRONE PIKE	1/4 - 1/2SSW	5	11

MINES: Mines Master Index File. The source of this database is the Dept. of Labor, Mine Safety and Health Administration.

A review of the MINES list, as provided by EDR, and dated 02/07/2008 has revealed that there is 1 MINES site within approximately 0.75 miles of the target property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
HANSON AGGREGATES MIDWEST, INC	TYRONE QUARRY	1/2 - 1 SSW	7	11

#### STATE AND LOCAL RECORDS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Protection's Uncontrolled Site Branch List.

A review of the SHWS list, as provided by EDR, and dated 04/16/2008 has revealed that there is 1 SHWS site within approximately 1.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page	
AUSTIN NICHOLS & CO INC Facility Status: Closed	1525 TYRONE RD	1/2 - 1 SW	<b>B</b> 8	11	

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Protection's List of All Active Contained & Residential Landfills/List of All Transfer Stations.

A review of the SWF/LF list, as provided by EDR, and dated 06/18/2008 has revealed that there are 2 SWF/LF sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
H & A WOODFORD CO LAND APPLICA	6135 TYRONE PIKE	1/2 - 1 SSE	6	11
AUSTIN NICHOLS & CO INC	<b>1525 TYRONE RD</b>	<b>1/2 - 1 SW</b>	<b>B8</b>	<b>11</b>

HIST LF: This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

A review of the HIST LF list, as provided by EDR, and dated 05/01/2003 has revealed that there are 2 HIST LF sites within approximately 1 mile of the target property.

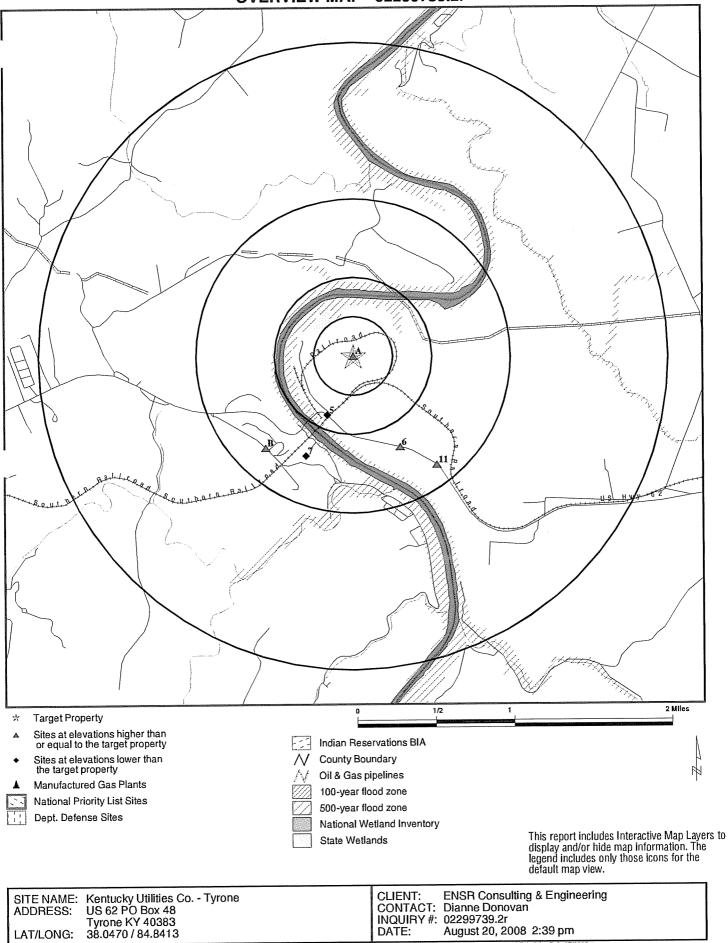
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page	
BOULEVARD DISTILLERS AND IMPOR	1525 TYRONE ROAD	1/2 - 1 SW		14	
H&A WOODFORD COUNTY LAND APPLI	6135 TYRONE PIKE	1/2 - 1 SE		15	

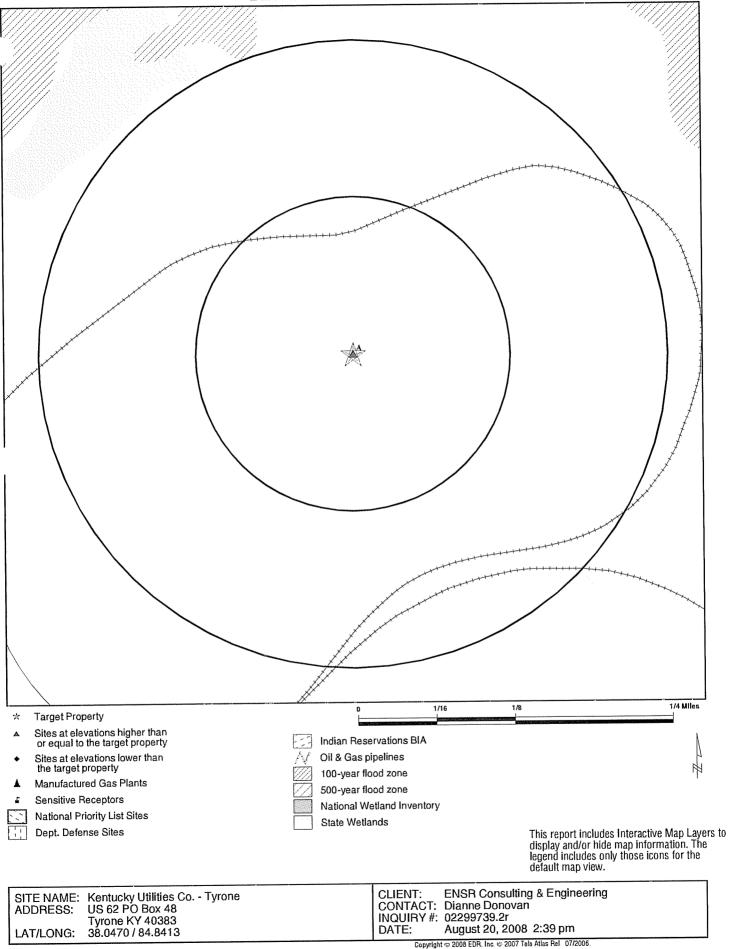
Due to poor or inadequate address information, the following sites were not mapped:

.

Site Name	Database(s)
SOUTHERN STATES COOPERATIVE LANDFI TINDALL PROPERTY WILDCAT ROAD ABANDONED DRUMS TINDALL PROPERTY TRANSFORMER DISPO GLENNS CREEK MERCURY SPILL TYRONE GENERATING STATION FOX CREEK GROCERY ANDERSON CO RECYCLING CENTER VERSAILLES LANDFILL MURPHY USA #7341 DRURY GROCERY FOX CREEK GENERAL STORE MICHAEL & ANNA WELDI BUCKLER'S GENERAL STORE MAGO CONSTRUCTION COMPANY, INC. FOX CREEK GROCERY AEROQUIP AUTOMOTIVE INC. MONTGOMERY BROTHERS TRUCKING CO ASHLAND SS #017 BOULEVARD DISTILLERS ANDERSON CO PARK THE WITHERSPOON INC LAWRENCEBURG STP LAWRENCEBURG STP BRIAR CREEK WAL-MART SUPERCENTER #507-02 GLENVIEW SUBD KTC ANDERSON CO MAINT GARAGE VERSAILLES TOWN CENTRE NUGENTS CROSSROADS PIPELINE	HIST LF SHWS SHWS CERCLIS, FINDS CERCLIS, FINDS FINDS, CERC-NFRAP, RCRA-CESQG SB193 SB193 SWF/LF UST UST UST UST UST FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen FINDS, RCRA-NonGen ICIS NPDES

## **OVERVIEW MAP - 02299739.2r**





## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	<u>1/2 - 1</u>	> 1	Total Plotted
FEDERAL RECORDS								
NPL Proposed NPL Delisted NPL NPL LIENS CERCLIS CERC-NFRAP LIENS 2 CORRACTS RCRA-TSDF RCRA-LQG RCRA-SQG RCRA-CESQG RCRA-CESQG RCRA-NonGen US ENG CONTROLS US INST CONTROL ERNS HMIRS DOT OPS US CDL US BROWNFIELDS DOD FUDS LUCIS CONSENT ROD UMTRA ODI DEBRIS REGION 9 MINES TRIS TSCA FTTS HIST FTTS SSTS ICIS PADS MLTS RADINFO FINDS RAATS	X X X	1.500 1.500 1.500 0.500 1.000 1.000 0.500 1.500 1.500 0.750 0.750 0.250 1.000 0.500 0.500 0.500 1.000 1.500 0.500	000000000000000000000000000000000000000		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 R 1 0 R 0 0 0 0 R 0 0 R R R R R 0 0 0 0	0 0 0 R R R R O R R R R R R R R R R R R	000010000000100000000000000000000000000
STATE AND LOCAL RECOR	DS							
SHWS SWF/LF HIST LF SB193 UST	x x	1.500 1.000 1.000 1.000 0.750	0 0 0 0	0 0 0 0	0 0 0 0	1 2 0 0	0 NR NR NR NR	1 2 2 0 0

## MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENG CONTROLS INST CONTROL VCP DRYCLEANERS BROWNFIELDS CDL NPDES AIRS LEAD PSTEAF	X X	0.500 1.000 0.750 1.000 TP 0.500 0.500 0.500 1.000	0 0 0 0 NR 0 0 0 0	0 0 0 0 NR 0 0 0 0	0 0 0 0 NR 0 0 0 0	NR 0 0 0 NR NR NR 0	NR NR NR NR NR NR NR NR NR	0 0 0 0 0 0 0 0 0 0
TRIBAL RECORDS		1.000	0	0	Ū	Ū		Ū
INDIAN RESERV INDIAN ODI INDIAN LUST INDIAN UST INDIAN VCP		1.500 0.500 1.000 0.750 0.500	0 0 0 0	0 0 0 0	0 0 0 0	0 NR 0 0 NR	0 NR NR NR NR	0 0 0 0 0
EDR PROPRIETARY RECOR	DS							
Manufactured Gas Plants		1.500	0	0	0	0	0	0

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

N/A	P	FIN	INI	VGS.

Database(s)

EDR ID Number EPA ID Number

A1 Target Property	KY UTIL TYRONE GEN STA US HWY 62 @ KY RIVER TYRONE, KY 40383		NPDES	S108082161 N/A
	Site 1 of 4 in cluster A			
Actual: 663 ft.	KY NPDES: KY DES #: Facility Addr 2: Facility Status: Inactive Date: Design Capacity: Fee Category: SIC Code: Lat/Long: Lat/Long Method: USGS Hydrologic Basin Coor Facility Stream Segment: Facility Stream Segment: Facility Mileage Indicator: Basin Code: Basin Code: Basin Code Description: DMR Contact: Mailing Address: Mailing Address 2: Mailing Address 2: Mailing City,St,Zip: Permit Issued: Permit Expires: SIC Code Description: Reveiving Waters: Major/Minor:	KY0001899 Not reported ACTIVE Not reported 00000.0100 MAJIND 4911 +3802510 / -08450540 A le: 05100205 0013 00000 0514 OR/KENTUCKY R. JOHN W MOFFETT, MGR ENV COMPL SHARON L DODSON PO BOX 32010 LOUISVILLE, KY 40232 9/11/2001 1/31/2007 ELECTRICAL SERVICES KENTUCKY RIVER MAJOR		
A2 Target Property	KY UTILITIES CO - TYRONE STA US 62 AT KY RIV VERSAILLES, KY 40383	ATION	SHWS UST AIRS	U003990667 N/A

# Site 2 of 4 in cluster A

Actual: 663 ft.

Status:	Active
Longitude:	-84.848333
Latitude:	38.047500
Facility Address 2:	Not reported
Subject Item County:	Not reported
Sub Item Longitude:	Not reported
Subject Item Address:	NONE
Subject Item Address2:	Not reported
Subject Item City,St,Zip:	Not reported
Facility Group:	1
Regulatory Desc:	State Superfund
Closure Option:	Not reported
Side SG:	18113
Closure Date:	Not reported
Description: KENTUCI	KY UTILITY CO TYRONE POWER STATIO

UST:

Sequence Id:	4193120
Facility ID:	4244
Subject Item Id:	1
Tank Status:	Verified Removal

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

U003990667

#### **KY UTILITIES CO - TYRONE STATION (Continued)**

Inert Material Code: Not reported Tank Material: Tank External Protection: None Tank Internal Protection: Unknown Tank Overfill Protection: Unknown Pipe Material: Pipe External Protection: Unknown Pipe Type: Unknown Pipe Release Detection: Unknown Pipe Rel Detect Suc Code: UNK Pipe Leak Detect Code: NON Installation Date: Closed In Place Date: Relined Date: Last Contained Date: Closed in Place Date: Removed Date: Change in Service Date: Tank Pit Num: Compartment Num: 1 Tank Substance Code: DSL 2000 Capacity in Gallons: Tank Manufctr Code: Pipe Manufctr Code: Last Tank Test Date: Last Pipe Test Date: Lining Insp Date: Last Cp Test Date: Added To Flex Date: Added To Piping Date: Added To Tank Date: Piping Installation Date: Owner Name: Owner Address: Owener City,St,Zip: Owner Phone: Latitude: 38.0475 Longitude: Subject Item Category Code: STOR Internal Document ID: Ω 4193120 Sequence Id: Facility ID: 4244 Subject Item Id: 2 Tank Status: Inert Material Code: Tank Material Tank External Protection: None Tank Internal Protection: Tank Overfill Protection: Pipe Material: Pipe External Protection: Pipe Type: Pipe Release Detection: Pipe Rel Detect Suc Code: UNK Pipe Leak Detect Code: NON Installation Date:

Single Wall Steel Single Wall Steel 1/1/1947 12:00:00 AM Not reported Not reported Not reported Not reported 10/30/1989 12:00:00 AM Not reported Ky Utililites Co/Caryl Pfeiffer 1 Quality St Lexington, KY 40507 606-255-2100 -84.848333 Verified Removal Not reported Single Wall Steel Unknown Unknown Single Wall Steel Unknown Unknown Unknown 1/1/1947 12:00:00 AM

TC02299739.2r Page 7

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

U003990667

#### **KY UTILITIES CO - TYRONE STATION (Continued)**

Not reported Closed In Place Date: Relined Date: Not reported Last Contained Date: Not reported Closed in Place Date: Not reported 10/30/1989 12:00:00 AM Removed Date: Not reported Change in Service Date: Tank Pit Num: Not reported Compartment Num: 1 GAS Tank Substance Code: Capacity in Gallons: 2000 Not reported Tank Manufctr Code: Pipe Manufctr Code: Not reported Not reported Last Tank Test Date: Last Pipe Test Date: Not reported Lining Insp Date: Not reported Last Cp Test Date: Not reported Not reported Added To Flex Date: Added To Piping Date: Not reported Not reported Added To Tank Date: Piping Installation Date: Not reported Ky Utililites Co/Caryl Pfeiffer Owner Name: 1 Quality St Owner Address: Lexington, KY 40507 Owener City.St.Zip: 606-255-2100 **Owner Phone:** Latitude: -84.848333 38.0475 Longitude: STOR Subject Item Category Code: Internal Document ID: n Sequence Id: 4193120 4244 Facility ID: Subject Item Id: 4 Tank Status: **Exempt Tank** Inert Material Code: Not reported Tank Material: Unknown Tank External Protection: None Tank Internal Protection: Unknown Tank Overfill Protection: Unknown Pipe Material: Unknown Pipe External Protection: Unknown Pipe Type: Unknown Pipe Release Detection: Unknown Pipe Rel Detect Suc Code: UNK NON Pipe Leak Detect Code: Installation Date: 1/1/1942 12:00:00 AM Closed In Place Date: Not reported Not reported **Relined Date:** Last Contained Date: Not reported Closed in Place Date: Not reported Not reported Removed Date: Change in Service Date: Not reported Tank Pit Num: Not reported Compartment Num: 1 FOL Tank Substance Code: Capacity in Gallons: 14000 Not reported Tank Manufctr Code: Not reported Pipe Manufctr Code:

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### U003990667

#### Last Tank Test Date: Not reported Last Pipe Test Date: Not reported Lining Insp Date: Not reported Last Cp Test Date: Not reported Added To Flex Date: Not reported Not reported Added To Piping Date: Added To Tank Date: Not reported Piping Installation Date: Not reported Ky Utililites Co/Caryl Pfeiffer Owner Name: 1 Quality St Owner Address: Owener City,St,Zip: Lexington, KY 40507 606-255-2100 **Owner Phone:** Latitude: -84.848333 Longitude: 38.0475 Subject Item Category Code: STOR Internal Document ID: 0 Sequence Id: 4193120 Facility ID: 4244 Subject Item Id: 3 **Tank Status:** Verified Removal Inert Material Code: Not reported Single Wall Steel Tank Material: Tank External Protection: None Tank Internal Protection: Unknown Tank Overfill Protection: Unknown Pipe Material: Single Wall Steel Pipe External Protection: Unknown Pipe Type: Unknown Pipe Release Detection: Unknown Pipe Rel Detect Suc Code: UNK Pipe Leak Detect Code: NON 1/1/1947 12:00:00 AM Installation Date: Closed In Place Date: Not reported Relined Date: Not reported Not reported Last Contained Date: Closed in Place Date: Not reported 10/30/1989 12:00:00 AM Removed Date: Change in Service Date: Not reported Not reported Tank Pit Num: Compartment Num: Tank Substance Code: DSL Capacity in Gallons: 1000 Not reported Tank Manufctr Code: Pipe Manufctr Code: Not reported Last Tank Test Date: Not reported Last Pipe Test Date: Not reported Lining Insp Date: Not reported Last Cp Test Date: Not reported Added To Flex Date: Not reported Added To Piping Date: Not reported Added To Tank Date: Not reported Not reported Piping Installation Date: Ky Utililites Co/Caryl Pfeiffer Owner Name: Owner Address: 1 Quality St Lexington, KY 40507 Owener City,St,Zip: 606-255-2100 Owner Phone:

**KY UTILITIES CO - TYRONE STATION (Continued)** 

Map ID MAP FINDINGS Direction Distance EDR ID Number Elevation EPA ID Number Site Database(s) **KY UTILITIES CO - TYRONE STATION (Continued)** U003990667 -84.848333 Latitude: 38.0475 Longitude: Subject Item Category Code: STOR Internal Document ID: 0 AIRS: Facility: 2123900001 Facility End Date: Not reported Contact Name: Ms. Sharon Dodson Contact Addr: 220 W Main St City: Louisville State: KY 40232 Zip: 502-627-2940 Phone: Dag contact fax: 502-627-2550 Daq contact email: sharon.dodson@eon-us.com Emps: 36 Plant Class Descr.: 1; >100TYCrt >10TY IndHAP >25TY CmbHAP Principal Product: POWER Acreage: 1415.90000000000001 Latitude/Longitude: 38.047499999999999 / -84.848332999999997 SIC: 4911 Electric Services SIC Desc: 221112 NAIC: NAIC Desc: Fossil Fuel Electric Power Generation A3 KENTUCKY UTILITIES CO TYRONE STATION TRIS 1005453552 U.S. HWY 62 PO BOX 48 6800 TYRONE PIKE Target 40383KNTCKUS Property VERSAILLES, KY 40383 Site 3 of 4 in cluster A Actual: 663 ft. KENTUCKY UTILITIES/TYRONE GENERATING PLT 1007283294 A4 FTTS Target **P O BOX 48 HIST FTTS** N/A VERSAILLES, KY 40383 Property Site 4 of 4 in cluster A FTTS INSP: Actual: Inspection Number: Not reported 663 ft. Region: 04 Inspection Date: Not reported Inspector: WEEMS GEORGE Violation occurred: No Investigation Type: Section 6 PCB State Conducted Investigation Reason: For Cause, Private Citizen/Press Complaint Legislation Code: TSCA Facility Function: User HIST FTTS INSP: Inspection Number: 19950713KY022 1 Region: 04

Map ID	ſ	MAP FINDINGS		
Direction Distance Elevation	Site		Database(s)	EDR ID Number EPA ID Number
	Inspection Date: Inspector: Violation occurred: Investigation Type: Investigation Reason: Legislation Code:	ONE GENERATING PLT (Continued) Not reported WEEMS,GEORGE No Section 6 PCB State Conducted For Cause, Private Citizen/Press Complaint TSCA User		1007283294
5 SSW 1/4-1/2 0.410 mi. 2164 ft.	6800 TYRONE PIKE 6800 TYRONE PIKE VERSAILLES, KY		ERNS	2005631157 N/A
Relative: Lower		his hyperlink while viewing on your computer to access nal ERNS detail in the EDR Site Report.		
Actual: 637 ft. 6 SSE 1/2-1 0.651 mi. 3435 ft.	H & A WOODFORD CO LANI 6135 TYRONE PIKE VERSAILLES, KY 40383		SWF/LF	S107602443 N/A
Relative: Higher Actual:	LF: Facility ID: 40204 Status: Opera Facility Type: Landfa			
771 ft. 7 SSW 1/2-1 0.704 mi. 3717 ft.	HANSON AGGREGATES MIL TYRONE QUARRY ANDERSON (County), KY	DWEST, INC.	MINES	M300000773 N/A
Relative: Lower Actual: 644 ft.	Ferrous and Nonferrous Me Mine ID: Commodity: Latitude: Longitude: Site Type:	tal Mines Database: 1334 Crushed Stone 38.03772 -84.84688 The facility is both a mine and a plant		
B8 SW 1/2-1 0.808 mi. 4265 ft.	AUSTIN NICHOLS & CO INC 1525 TYRONE RD LAWRENCEBURG, KY 4034 Site 1 of 3 in cluster B	2	SHWS SWF/LF UST AIRS	U002033939 N/A
Relative: Higher Actual: 756 ft.	SHWS: Status: Longitude: Latitude: Facility Address 2:	<b>Closed</b> -84.845830 38.039440 Not reported		
	Subject Item County: Sub Item Longitude:	Anderson 38.03944	TC0220	9739 2r Page 11

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### AUSTIN NICHOLS & CO INC (Continued)

Subject Item Addr	ress:	1525 TYRONE RD PO BOX 180
Subject Item Addr	ress2:	Not reported
Subject Item City,	St,Zip:	Lawrenceburg, KY 40342
Facility Group:		1
<b>Regulatory Desc:</b>		State Superfund
Closure Option:		Option A No Action Necessary
Side SG:		6416
Closure Date:		10/27/2004
Description:	WILD TURH	EY DISTILLERY incident closed

#### LF:

Facility ID:	28
Status:	Operating
Facility Type:	Landfarm Type B-SpW

Facility ID:28Status:ActiveFacility Type:Beneficial Reuse-Special Waste-RPBR

#### UST:

Sequence Id: Facility ID: 1002003 28 Subject Item Id: 3 Tank Status: Inert Material Code: Tank Material: Tank External Protection: None Tank Internal Protection: Tank Overfill Protection: Pipe Material: Pipe External Protection: Pipe Type: Pipe Release Detection: Pipe Rel Detect Suc Code: UNK Pipe Leak Detect Code: NON Installation Date: Closed In Place Date: **Relined Date:** Last Contained Date: Closed in Place Date: Removed Date: Change in Service Date: Tank Pit Num: Compartment Num: 1 GAS Tank Substance Code: Capacity in Gallons: 500 Tank Manufctr Code: Pipe Manufctr Code: Last Tank Test Date: Last Pipe Test Date: Lining Insp Date: Last Cp Test Date: Added To Flex Date: Added To Piping Date: Added To Tank Date: Piping Installation Date:

Verified Removal Not reported Single Wall Steel Unknown Unknown Single Wall Steel Unknown Unknown Unknown 1/1/1901 12:00:00 AM Not reported Not reported Not reported Not reported 7/25/1994 12:00:00 AM Not reported Not reported

#### U002033939

Site

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

#### U002033939

#### **AUSTIN NICHOLS & CO INC (Continued)**

Owner Name:	Boulevard Distillers
Owner Address:	1525 Tyrone Rd
Owener City,St,Zip:	Lawrenceburg, KY 40342
Owner Phone:	502-839-4544
Latitude:	84.84583
Longitude:	38.03944
Subject Item Category Code:	STOR
Internal Document ID:	0

AIRS:

IRS:	
Facility:	2100500003
Facility End Date:	Not reported
Contact Name:	Douglas Knopf
Contact Addr:	1525 Tyrone Rd
City:	Lawrenceburg
State:	KY
Zip:	40342
Phone:	502-839-2171
Dag contact fax:	502-839-3086
Dag contact email:	douglas.knopf@pernod-ricard-usa.com
Emps:	130
Plant Class Descr.:	2; >100TYCrt <10TYIndHAP <25TY CmbHAP
Principal Product:	WHISKEY
Acreage:	760
Latitude/Longitude:	38.039439999999999 / -84.845830000000007
SIC:	2085
SIC Desc:	Distilled & Blended Liquors
NAIC:	31214
NAIC Desc:	Distilleries

#### WILD TURKEY BOURBON RELEASE **B**9 sw 1525 TYRONE ROAD LAWRENCEBURG, KY 40342 1/2-1 0.808 mi.

Site 2 of 3 in cluster B

4265 ft.

CERCLIS: **Relative:** 0407170 Site ID: Higher Federal Facility: Not a Federal Facility Actual: Not on the NPL NPL Status: 756 ft. NFRAP Non NPL Status:

> CERCLIS Site Contact Name(s): Contact Name: Contact Tel:

Contact Name: Contact Tel: Contact Title:

Contact Title:

Contact Name: Contact Tel: Contact Title:

Contact Name: Contact Tel:

Loften Carr (404) 562-8804 Remedial Project Manager (RPM)

Femi Akindele (404) 562-8809 Remedial Project Manager (RPM)

Tony DeAngelo (404) 562-8826 Remedial Project Manager (RPM)

Randy Bryant (404) 562-8794 CERCLIS 1003072982

KYD050398650

MAP FINDINGS

Database(s)

EDR ID Number EPA ID Number

1003072982

#### WILD TURKEY BOURBON RELEASE (Continued) Remedial Project Manager (RPM) Contact Title: Robert West Contact Name: Contact Tel: (404) 562-8806 Remedial Project Manager (RPM) Contact Title: Contact Name: Nestor Young (404) 562-8812 Contact Tel: Contact Title: Remedial Project Manager (RPM) Carolyn Callihan Contact Name: Contact Tel: (404) 562-8913 Contact Title: Site Assessment Manager (SAM) Site Description: Not reported **CERCLIS Assessment History:** DISCOVERY Action: Date Started: Not reported Date Completed: 05/17/2000 Priority Level: Not reported Action: REMOVAL Date Started: 05/10/2000 05/27/2000 Date Completed: Priority Level: Cleaned up ADMINISTRATIVE RECORDS Action: Not reported Date Started: Date Completed: 08/09/2000 Priority Level: Not reported ADMINISTRATIVE ORDER ON CONSENT Action: Date Started: Not reported 09/28/2000 Date Completed: Priority Level: Not reported Action: PRELIMINARY ASSESSMENT Date Started: Not reported Date Completed: 04/12/2005 Priority Level: NFRAP (No Futher Remedial Action Planned **BOULEVARD DISTILLERS AND IMPORTERS INC**

#### SW 1525 TYRONE ROAD 1/2-1 LAWRENCEBURG, KY 40342

#### 0.808 mi. 4265 ft.

B10

#### t. Site 3 of 3 in cluster B

Relative: Higher	HIST LF: Facility ID: Facility Address 2:	003-00009 Not reported
Actual: 756 ft.	Status: Facility Type: Owner: Owner Address1: Owner Address2: Owner City,St,Zip:	OPERATING LANDFARM BOULEVARD DISTILLERS AND IMPORTERS INC 1525 TYRONE ROAD P O BOX 108 LAWRENCEBURG, KY 40342-0108

HIST LF 1000518592 N/A

Map ID Direction Distance Elevation	Site	MAP FINDINGS	Database(s)	EDR ID Number EPA ID Number
	BOULEVARD DISTILLERS Owner Phone: Activity Type: Activity Status: Contact First Name: Contact Last Name: Contact Phone:	AND IMPORTERS INC (Continued) (502)839-4544 LANDFARM, TYPE B SLUDGE ISSUED, OPERATING PERMIT JOHN SENTER (502)839-4544		1000518592
11 SE 1/2-1 0.871 mi. 4597 ft.	H&A WOODFORD COUNT 6135 TYRONE PIKE VERSAILLES, KY 40383	Y LAND APPLICATION	HIST LF	S103849936 N/A
Relative: Higher Actual: 807 ft.	HIST LF: Facility ID: Facility Address 2: Status: Facility Type: Owner: Owner Address1: Owner Address2: Owner City,St,Zip: Owner Phone: Activity Type: Activity Type: Activity Status: Contact First Name: Contact Last Name: Contact Phone:	120-00012 Not reported OPERATING LANDFARM H&A RESIDUALS AND BIOSOLIDS MANAGEMENT LLC 103 FIELDVIEW DRIVE Not reported VERSAILLES, KY 40383- (859)873-3331 LANDFARM, TYPE B SLUDGE ACTIVITY APPROVED GREGORY STEPHENS (859)873-3331		

Zip Database(s)	40342 NPDES		40342 NPDES	40342 UST		40342 NPDES			40342 UST		40342 SHWS		40342 UST	40342 SB193	40342 FINDS, RCRA-NonGen	40342 NPDES	40342 NPDES	40342 NPDES		40342 NPDES	40342 NPDES	40342 SWF/LF	40383 CERCLIS, FINDS	40342 HIST LF		•.	40383 UST	40383 UST	40383 SWF/LF	40383 FINDS, CERC-NFRAP, RCRA-CESQG	40383 NPDES	40383 NPDES	40383 FINDS, RCRA-NonGen
Site Address	HWY 127	ROUTE 1	HWY 127 / 326	1016 HWY 127	HWY 44 / 127	HWY 44	HWY 62	HWY 62	HWY 68	CEDAR BROOK RD @ THE END OF RD	CEDAR BROOK RD	1999 FOX CREEK RD HWY 62	1999 FOX CREEK RD HWY 62	2980 GLENSBORO RD HWY 44	U.S. HIGHWAY 127	1038 US HWY 127 BYPASS N	US HWY 127 S	US HWY 127	US HWY 127 / SR 44	US HWY 62 W	KY HWY 127	TYRONE RD	PRIVATE BRIDGE OFF OF HWY 1659	U. S. HIGHWAY 127 NORTH	HWY 15	WILDCAT RD	RTE 2	RTE 4 KY 33	US 62 TYRONE RD	US HWY 62 AT KY RIVER	US HWY 60	US HWY 62	MILLON LANE, ROUTE 2
Site Name	2861 ANDERSON COUNTY ELEMENTARY & B					0554 THE WITHERSPOON INC	4782 MAGO CONSTRUCTION COMPANY, INC.	7913 FOX CREEK GROCERY	3620 DRURY GROCERY	4709 TINDALL PROPERTY TRANSFORMER DISPO	4038 TINDALL PROPERTY	7293 FOX CREEK GROCERY	37830 FOX CREEK GENERAL STORE	14442 RICHARDSON'S GROCERY		5918 LAWRENCEBURG STP			-	38612 GLENVIEW SUBD		12074 ANDERSON CO RECYCLING CENTER	4023 GLENNS CREEK MERCURY SPILL	33989 SOUTHERN STATES COOPERATIVE LANDFI	1443 MONTGOMERY BROTHERS TRUCKING CO	34035 WILDCAT ROAD ABANDONED DRUMS	06960 MICHAEL & ANNA WELDI	71007 BUCKLER'S GENERAL STORE	33169 VERSAILLES LANDFILL	•	-	01591 NUGENTS CROSSROADS PIPELINE	-
City EDR ID	LAWRECCEBURG S10890286		-•	LAWRENCEBURG U004051951	LAWRENCEBURG S108080046	LAWRENCEBURG S108900554		LAWRENCEBURG 1006807913	LAWRENCEBURG U001183620	LAWRENCEBURG 1000184709	LAWRENCEBURG S106884038		LAWRENCEBURG U003997830	LAWRENCEBURG S106664442		0,				LAWRENCEBURG S108908612				_	STANTON 100040443	TYRONE S106884035	VERSAILLES U000206960	VERSAILLES U003071007	VERSAILLES S107603169	·	VERSAILLES S108083869		

ORPHAN SUMMARY

TC02299739.2r Page 16

Databases		NPDES FINDS NPDES	FINDS		FINDS			UST UST	UST RCRA-NonGen, FINDS	NPDES	SHWS, SWF/LF, UST	RCRA-NonGen, FINDS	NPDES	NPDES FINDS	NPDES	NPDES	RCRA-NonGen, FINDS	loncen,	NPDES FINDS	UST UST	RCRA-NonGen, FINDS	UST RCRA-NonGen, FINDS	UST SB193, PSTEAF, UST	FTTS, HIST FTTS, FINDS RAATS	UST NPDES		200		200	ICIS ICIS	HIST FILS ICIS	FITS FITS ICIS	CORRACTS, US ENG CONTROLS, RCRA-CESQG, FINDS, TRIS,	KUKANING-15UF FTTS, HIST FTTS SB193 PSTFAF, LIST	FINDS UST	Auranist 20 2008 Pade 71P-1
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Name	- Indicates location may or may not be in requested radius. Site has not been assigne	KEY OIL CO/LAWRENCEBURG	LAWRENCEBURG WTP BOUIL EVARD DISTILLERS	BOULEVARD DISTILLERS				WAL MART SUPRECENTER STORE #50	D & S SERVICE CENTER D & S SERVICE CENTER	D & S SERVICE CENTER ANDERSON CROSSING	ANDERSON CROSSING	SUTHERIAN SIGNES COOL FINANCE C	TYRONE PLANT DUST WASTE AREA	THE WITHERSPOON INC ANDERSON CO PARK	ANDERSON CO PARK FAST KY POWER COOP	EAST KY POWER COOP	CAVALLARIS	HUX CREEK GRUCERT MAGO CONSTRUCTION COMPANY, INC.	WILD TURKEY DISTILLERY CROSSROAD PLAZA	CROSSROAD PLAZA THE KENTUCKY STONE CO	DRURY GROCERY LAWRENCEBURG TRANSFER INC		KEY OIL LAWRENCEBURG KEY OIL CO	CLOTHES CENTER RELIANCE ELECTRIC COMPANY	SIKES CORP FLORIDA TILE INC	FLORIDA TILE FLORIDA TILE INC SUCCES CORPORATION A DIV. OF FLORID/		FLORIDA TILE IND. INC. FLORIDA TILE INDUSTRIES, INC.	FLORIDA TILE INDUSTRIES INC. FLORIDA TILE INDUSTRIES INC.		FLORIDA LILE SIKES CORPORATION, A DIV. OF FLORID	FLORIDA TILE INC. SIKE CORPORATION, A DIV. OF FLORIDA	FLORIDA TILE INDUSTRIES FLORIDA TILE INDUSTRIES INC.	FLORIDA TILE INDUSTRIES, INC. SMITH'S GROCERY	SMITHS GROCERY ALTON WATER DISTRICT KFITHS PARTS & SERVICE	
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City	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG			LAWRENCEBURG				LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG	LAWRENCEBURG LAWRENCEBURG LAWRENCEBURG GEORGETOWN		LAWRENCEBURG	LAWKENCEBURG LAWRECCEBURG LAWRENCEBURG
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Address	1643 ALTON RD ALTON STATION RD US 127 151 SOUTH AND US 127 BY PASS 1300 ANDERSON CROSSING DR 1300 ANDERSON CROSSING DR 1300 ANDERSON CROSSING DR 1300 ANDERSON CROSSING DR 360 AN ISW LWRNCBRG	2000 BARDSTOWN RD 2600 BARDSTOWN RD 4188 BARDSTOWN RD 4188 BARDSTOWN RD	4188 BARDSTOWN ROAD 4422 BARDSTOWN RD 4565 BARDSTOWN RD 1162 BEAR CREEK RD 1 REARCAT DR	BEAVER LAKE RD 1499 BIRDIE RD BLUEGRASS PKWY & LAWRENCEBURG BOND MILL RD	BOND MILL RD 1224 BONDS MILL RD 1225 BONDS MILL ROAD 1225 BONDS MILL RD	1225 BONDS MILL ROAD 1225 BONDS MILL ROAD 1225 BONDS MILL ROAD 12255 BONDS MILL ROAD	BONDS MILL RD PO BOX 270, LINCOLN ST	BRIDGE ON US 62 OVER KY RIVER BRIDGE ON US 62 OVER KY RIVER 503 W BPOADWAY	600 W BROADWAY 600 W BROADWAY 604 W BROADWAY	604 W. BROADWAY 700 WEST BROADWAY 730 W BROADWAY	750 W BROADWAY 1381 BY-PASS NORTH 1381 BY-PASS NORTH	1000 BYPASS NORTH 1000 BYPASS NORTH 1040 BYPASS S 1260 BYPASS S	1381 BYPASS 8 1381 BYPASS 8 1381 BYPASS NORTH 1381 BYPASS NORTH	1421 BYPASS N 1421 BYPASS NORTH CARLTON DR CARLTON DR	CEDAR BROOK RD CEDAR BROOK RD @ THE END OF RD CEDAR BROOK RD @ THE END OF RD ACE W CLINITON ET	1075 COMMERCIAL DRIVE 2016 COURT ST 2016 COURT ST	E COURT ST 1002 CROSSROAD DR 1000 DEWEY DR	DISCOVERED A SMALL AMOUNT OF ME DOGWOOD ST DOGWOOD ST
Name	GERALD W DAVIS RALLY SERVICE STATION 604 151 SOUTH AND US 127 BY PASS ANDERSON CROSSING CENTRE ANDERSON CROSSING CENTRE KROGER L-913 BOULEVARD DISTILLERS					ΣΣ	NO								R DISI R DISI	DEPT		MER
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EDR-ID				10001442939 10001442647 1000450886 S106664446		1000117566 S108898775 S107602376 S103849389			U003415661 U003132122 1004706532 U003132306			1009457149 1009398819 U003201156 1008219154	S108083770 S108081271 1007279104 1000212965	S107602329 S103593207 1008172499 S108080605	S106884038 1000184709 1010815924	S108901871 1000138745 1001228407 U000805454	U001181860 U003991399 U003415189 U004107702	96494336 S108902264 1010504760
ZIP			40342 40342 40342 40342													40342 40342 40342 40342		

EDR ZIP Code Scan Re<sub>b</sub>

Databases	UST CORRACTS, CERCLIS-NFRAP, FINDS, RCRAInfo-LQG, TRIS, RCRAInfo-TSDF,	FTTS, HIST FTTS, FINDS AIRS, SHWS FINDS FINDS FTTS, HIST FTTS FTTS, HIST FTTS RCRA-NonGen NPDES SHWS FINDS	NPDES FINDS BR193, PSTEAF, UST UST SB193 FINDS NPDES AIRS AIRS AIRS AIRS AIRS AIRS CRA-NonGen, FINDS FINDS	NPDES NPDES RCRA-NonGen, FINDS PSTEAF, UST SB193 FINDS SHWS SHWS SHWS UST RCRA-NonGen, FINDS,	SE193 PSTEAF, UST UST FINDS NPDES NPDES SWFLF, UST S8193 PSTEAF, RCRA-NonGen, FSTEAF, RCRA-NonGen, FNIDS LIST	RCRA-NonGen, FINDS UST NPDES FINDS FINDS RCRA-NonGen, FINDS RCRA-NonGen, FINDS RCRA-NonGen, FINDS RCRA-NonGen, FINDS NPDES FINDS FINDS	NPDES NPDES NPDES FINDS FINDS FINDS HIST LF AIRS AIRS AIRS TRIS RCRAINF0-SQG, FINDS FINDS
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# EDR ZIP Code Scan Re,

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EDR ZIP Code Scan Re,

	EDR-ID	Facility ID	Name	Address	Map/Dir/Dist	City	State	Databases
U003990971	17906	2123900008	<b>OSRAM SYLVANIA PRODUCTS INC - PRE5</b>	1000 TYRONE PIKE		VERSAILLES	κ	INST CONTROL, AIRS, SHWS. UST
S1076	03170	4247	VERSAILLES WATER SYSTEM	5265 TYRONE PIKE		VERSAILLES	¥	SWF/LF
S1076	S107602443	40204	H & A WOODFORD CO LAND APPLICATIO	6135 TYRONE PIKE	6, SSE, 1/2 - 1	VERSAILLES	≿	SWF/LF
S1038	103849936	120-00012	H&A WOODFORD COUNTY LAND APPLICA	6135 TYRONE PIKE	11, SSE, 1/2 - 1	VERSAILLES	≿	HISTLF
10030	11978	20142233	FAST STOP	818 TYRONE PIKE		VERSAILLES	Ş	UST
1001	1001228306		COOKS TRAILER PARK	820 TYRONE PIKE		VERSAILLES	₹	RCRA-NonGen, FINDS
1003	415284	· ic	COOKS TRAILER PARK	820 TYRONE PIKE		VERSAILLES	Ş	UST
S107	107467323	1		830 TYRONE PIKE		VERSAILLES	Ş	LEAD
10083	008264127	110021550926	SIMMONS FI EMENTARY SCHOOL	830 TYRONE PK		VERSAILLES	₹	FINDS
1000	000133005	110000746970	OSRAM SYLVANIA	900 TYRONE PIKE		VERSAILLES	Ş	AIRS, FINDS, RCRAInfo-LQG, TRIS, UST
1007	007289114		OSRAM SYLVANIA, INC.	900 TYRONE PIKE		VERSAILLES	٢	FTTS, HIST FTTS
S107	866564		OSRAM SYLVANIA INC LAMP PLANT	900 TYRONE PIKE		VERSAILLES	ζ	NPDES
S1080	S108901772		OSRAM SYLVANIA	950 TYRONE PIKE		VERSAILLES	Ş	NPDES
TUDU	000807828	64124	K MART 9736	500 VERSAILLES CENTER		VERSAILLES	Ş	UST
S108:	108234730	81801	WILLIAM DANIEL GILES / COLUMBIA GAS	150 VRIGINIA AVE	**	VERSAILLES	ζ	SHWS
1000	001183419	57523	DAIRY MART 155	155 YELLOW JACKET DR		VERSAILLES	ξ	UST

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

#### FEDERAL RECORDS

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

#### NPL Site Boundaries

#### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC) Telephone: 202-564-7333

EPA Region 1 Telephone 617-918-1143

EPA Region 3 Telephone 215-814-5418

EPA Region 4 Telephone 404-562-8033

EPA Region 5 Telephone 312-886-6686

EPA Region 10 Telephone 206-553-8665 EPA Region 6 Telephone: 214-655-6659

EPA Region 7 Telephone: 913-551-7247

EPA Region 8 Telephone: 303-312-6774

EPA Region 9 Telephone: 415-947-4246

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

#### DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/30/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: EPA Telephone: N/A Last EDR Contact: 07/28/2008 Next Scheduled EDR Contact: 10/27/2008 Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994 Number of Days to Update: 56 Source: EPA Telephone: 202-564-4267 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 26 Source: EPA Telephone: 703-412-9810 Last EDR Contact: 07/22/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

#### CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 12/03/2007 Date Data Arrived at EDR: 12/06/2007 Date Made Active in Reports: 02/20/2008 Number of Days to Update: 76

Source: EPA Telephone: 703-412-9810 Last EDR Contact: 06/17/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 06/13/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/27/2008	Telephone: 202-564-6023
Date Made Active in Reports: 08/08/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/17/2008
	Data Release Frequency: Varies

#### CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/26/2008
Date Data Arrived at EDR: 04/02/2008
Date Made Active in Reports: 05/06/2008
Number of Days to Update: 34

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Quarterly

#### RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Quarterly

#### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

#### RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 05/12/2008 Date Data Arrived at EDR: 06/13/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 56 Source: Environmental Protection Agency Telephone: (404) 562-8651 Last EDR Contact: 05/21/2008 Next Scheduled EDR Contact: 08/18/2008 Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health. Date of Government Version: 04/04/2008 Source: Environmental Protection Agency Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies US INST CONTROL: Sites with Institutional Controls A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls. Date of Government Version: 04/04/2008 Source: Environmental Protection Agency Date Data Arrived at EDR: 04/17/2008 Telephone: 703-603-0695 Last EDR Contact: 06/30/2008 Date Made Active in Reports: 05/15/2008 Next Scheduled EDR Contact: 09/29/2008 Number of Days to Update: 28 Data Release Frequency: Varies ERNS: Emergency Response Notification System Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances Date of Government Version: 12/31/2007 Source: National Response Center, United States Coast Guard Date Data Arrived at EDR: 01/23/2008 Telephone: 202-267-2180 Last EDR Contact: 07/25/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 54 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Annually HMIRS: Hazardous Materials Information Reporting System Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT. Date of Government Version: 12/31/2007 Source: U.S. Department of Transportation Date Data Arrived at EDR: 04/16/2008 Telephone: 202-366-4555 Last EDR Contact: 07/15/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 29 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually DOT OPS: Incident and Accident Data Department of Transporation, Office of Pipeline Safety Incident and Accident data Date of Government Version: 05/14/2008 Source: Department of Transporation, Office of Pipeline Safety Date Data Arrived at EDR: 05/28/2008 Telephone: 202-366-4595 Date Made Active in Reports: 08/08/2008 Last EDR Contact: 05/28/2008 Number of Days to Update: 72 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Varies CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 12/28/2007 Number of Days to Update: 25 Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 06/27/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots---minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 04/01/2008 Date Data Arrived at EDR: 04/30/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 30 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 07/15/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Semi-Annually

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 62 Source: USGS Telephone: 703-692-8801 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 08/31/2007 Date Made Active in Reports: 10/11/2007 Number of Days to Update: 41 Source: U.S. Army Corps of Engineers Telephone: 202-528-4285 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005 Date Data Arrived at EDR: 12/11/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 31 Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 02/08/2008 Date Data Arrived at EDR: 04/25/2008 Date Made Active in Reports: 05/30/2008 Number of Days to Update: 35	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
ROD: Records Of Decision Record of Decision. ROD documents mandat and health information to aid in the cleanup.	te a permanent remedy at an NPL (Superfund) site containing technical
Date of Government Version: 01/14/2008 Date Data Arrived at EDR: 01/22/2008 Date Made Active in Reports: 01/30/2008 Number of Days to Update: 8	Source: EPA Telephone: 703-416-0223 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Annually
UMTRA: Uranium Mill Tailings Sites Uranium ore was mined by private companies for federal government use in national defense programs. When the shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailin were used as construction materials before the potential health hazards of the tailings were recognized.	
Date of Government Version: 07/13/2007 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Varies
ODI: Open Dump Inventory An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or F Subtitle D Criteria.	
Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004 Number of Days to Update: 39	Source: Environmental Protection Agency Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned
DEBRIS REGION 9: Torres Martinez Reservation A listing of illegal dump sites location on the 7 County and northern Imperial County, Californ	Torres Martinez Indian Reservation located in eastern Riverside
Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 04/17/2008 Date Made Active in Reports: 05/15/2008 Number of Days to Update: 28	Source: EPA, Region 9 Telephone: 415-972-3336 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies
MINES: Mines Master Index File Contains all mine identification numbers issue violation information.	ed for mines active or opened since 1971. The data also includes
Date of Government Version: 02/07/2008 Date Data Arrived at EDR: 03/26/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 23	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 06/25/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Semi-Annually
TRIS: Toxic Chemical Release Inventory System Toxic Release Inventory System. TRIS identii land in reportable quantities under SARA Title	fies facilities which release toxic chemicals to the air, water and e III Section 313.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 49	Source: EPA Telephone: 202-566-0250 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually
	es manufacturers and importers of chemical substances included on the ncludes data on the production volume of these substances by plant
Date of Government Version: 12/31/2002 Date Data Arrived at EDR: 04/14/2006 Date Made Active in Reports: 05/30/2006 Number of Days to Update: 46	Source: EPA Telephone: 202-260-5521 Last EDR Contact: 08/11/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Every 4 Years
FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.	
Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA/Office of Prevention, Pesticides and Toxic Substances Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly
FTTS INSP: FIFRA/ TSCA Tracking System - FIFI A listing of FIFRA/TSCA Tracking System (F	RA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) TTS) inspections and enforcements.
Date of Government Version: 04/11/2008 Date Data Arrived at EDR: 04/24/2008 Date Made Active in Reports: 05/21/2008 Number of Days to Update: 27	Source: EPA Telephone: 202-566-1667 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Quarterly
HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.	
Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40	Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2007 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned
regions. The information was obtained from t of FIFRA (Federal Insecticide, Fungicide, and EPA regions are now closing out records. Be EPA Headquarters with updated records, it w	Inspection & Enforcement Case Listing e listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA the National Compliance Database (NCDB). NCDB supports the implementation d Rodenticide Act) and TSCA (Toxic Substances Control Act). Some ecause of that, and the fact that some EPA regions are not providing vas decided to create a HIST FTTS database. It included records that base updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007 Number of Days to Update: 40 Source: Environmental Protection Agency Telephone: 202-564-2501 Last EDR Contact: 12/17/2008 Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

#### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 03/14/2008 Date Made Active in Reports: 04/18/2008 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4203 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Annually

#### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 04/24/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59 Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 07/14/2008 Next Scheduled EDR Contact: 10/13/2008 Data Release Frequency: Quarterly

#### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/04/2007 Date Data Arrived at EDR: 02/07/2008 Date Made Active in Reports: 03/17/2008 Number of Days to Update: 39 Source: EPA Telephone: 202-566-0500 Last EDR Contact: 08/07/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually

#### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/22/2008 Date Data Arrived at EDR: 05/06/2008 Date Made Active in Reports: 06/09/2008 Number of Days to Update: 34 Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/29/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/01/2008	Telephone: 202-343-9775
Date Made Active in Reports: 05/21/2008	Last EDR Contact: 07/31/2008
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/27/2008
, .	Data Release Frequency: Quarterly

#### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/03/2008 Date Data Arrived at EDR: 04/08/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 28 Source: EPA Telephone: (404) 562-9900 Last EDR Contact: 06/30/2008 Next Scheduled EDR Contact: 09/29/2008 Data Release Frequency: Quarterly

#### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995 Number of Days to Update: 35 Source: EPA Telephone: 202-564-4104 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

#### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 03/06/2007 Date Made Active in Reports: 04/13/2007 Number of Days to Update: 38 Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 06/11/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Biennially

#### STATE AND LOCAL RECORDS

#### SHWS: State Leads List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly

#### SWF/LF: Solid Waste Facilities List

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/18/2008 Date Data Arrived at EDR: 06/18/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 33 Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Semi-Annually

#### HIST LF: Historical Landfills

This solid waste facility listing contains detail information that is not included in the landfill listing. A listing with detail information is no longer available by the Department of Environmental Protection.

ine in generation of the second se			
Date of Government Version: 05/01/2003 Date Data Arrived at EDR: 03/30/2006 Date Made Active in Reports: 05/01/2006 Number of Days to Update: 32	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: No Update Planned		
	B193: SB193 Branch Site Inventory List The inventory indicates facilities that have performed permanent closure activities at a regulated underground storage tank facility and have known soil and/or groundwater contamination.		
Date of Government Version: 09/05/2006 Date Data Arrived at EDR: 09/13/2006 Date Made Active in Reports: 10/18/2006 Number of Days to Update: 35	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/04/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: No Update Planned		
UST: Underground Storage Tank Database Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recover Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.			
Date of Government Version: 04/14/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Quarterly		
ENG CONTROLS: Engineering Controls Site Listing A listing of sites that use engineering controls.			
Date of Government Version: 04/18/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies		
INST CONTROL: State Superfund Database A list of closed sites in the State Superfund Database. Institutional controls would be in place at any site that uses Contained or Managed as a Closure Option.			
Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31	Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies		

VCP: Voluntary Cleanup Program Sites

Sites that have been accepted into the Voluntary Cleanup Program or have submitted an application.

Date of Government Version: 04/16/2008	S
Date Data Arrived at EDR: 04/18/2008	Т
Date Made Active in Reports: 05/19/2008	L
Number of Days to Update: 31	N

Source: Department of Environmental Protection Telephone: 502-564-6716 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

### DRYCLEANERS: Drycleaner Listing

A listing of drycleaner facility locations

Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 10 Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### BROWNFIELDS: Kentucky Brownfield Inventory

The Kentucky Brownfield Program has created an inventory of brownfield sites in order to market the properties to those interested in brownfield redevelopment. The Kentucky Brownfield Program is working to promote the redevelopment of these sites by helping to remove barriers that prevent reuse, providing useful information to communities, developers and the public and encouraging a climate that fosters redevelopment of contaminated sites.

Telephone: 502-564-6716

Last EDR Contact: 06/03/2008

Date of Government Version: 05/13/2008 Date Data Arrived at EDR: 05/13/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 6 Source: Division of Compliance Assistance Telephone: 502-564-0323 Last EDR Contact: 08/12/2008 Next Scheduled EDR Contact: 11/10/2008 Data Release Frequency: Varies

CDL: Clandestine Drub Lab Location Listing Clandestine drug lab site locations.

> Date of Government Version: 04/16/2008 Date Data Arrived at EDR: 04/18/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 31

### NPDES: Permitted Facility Listing

A listing of permitted wastewater facilities

Date of Government Version: 06/20/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 24

AIRS: Permitted Airs Facility Listing A listing of permitted Airs facilities.

> Date of Government Version: 06/24/2008 Date Data Arrived at EDR: 06/24/2008 Date Made Active in Reports: 07/21/2008 Number of Days to Update: 27

Source: Department of Environmental Protection Telephone: 502-564-3410 Last EDR Contact: 06/02/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies

Source: Department of Environmental Protection

Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

Source: Department of Environmental Protection Telephone: 502-573-3382 Last EDR Contact: 06/23/2008 Next Scheduled EDR Contact: 09/22/2008 Data Release Frequency: Varies

#### PSTEAF: Facility Ranking List

The Underground Storage Tank Branch (USTB) has ranked all PSTEAF reimbursable facilities requiring corrective action, in accordance with 401 KAR 42:290. Directive letters will be issued on the basis of facility ranking and available PSTEAF funding in sequential order as ranked. For example, Rank 2 facilities will be issued directives before Rank 3 facilities.

Date of Government Version: 03/25/2008 Date Data Arrived at EDR: 05/07/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 12 Source: Department of Environmental Protection Telephone: 502-564-5981 Last EDR Contact: 08/05/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Quarterly

LEAD: Environmental Lead Program Report Track Lead Report Tracking Database	ing Database	
Date of Government Version: 10/26/2007 Date Data Arrived at EDR: 01/07/2008 Date Made Active in Reports: 01/25/2008 Number of Days to Update: 18	Source: Department of Public Health Telephone: 502-564-4537 Last EDR Contact: 07/03/2008 Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: Varies	
TRIBAL RECORDS		
INDIAN RESERV: Indían Reservations This map layer portrays Indian administered I than 640 acres.	ands of the United States that have any area equal to or greater	
Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 34	Source: USGS Telephone: 202-208-3710 Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Semi-Annually	
INDIAN ODI: Report on the Status of Open Dumps on Indian Lands Location of open dumps on Indian land.		
Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008 Number of Days to Update: 52	Source: Environmental Protection Agency Telephone: 703-308-8245 Last EDR Contact: 05/27/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Varies	
INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.		
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 05/30/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 70	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
	INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada	
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
INDIAN LUST R8: Leaking Underground Storage LUSTs on Indian land in Colorado, Montana,	Tanks on Indian Land North Dakota, South Dakota, Utah and Wyoming.	
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly	
INDIAN LUST R7: Leaking Underground Storage LUSTs on Indian land in Iowa, Kansas, and N		
Date of Government Version: 03/17/2008 Date Data Arrived at EDR: 03/27/2008 Date Made Active in Reports: 05/06/2008 Number of Days to Update: 40	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies	

Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-8677
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Semi-Annually
NDIAN LUST R1: Leaking Underground Storage A listing of leaking underground storage tank	
Date of Government Version: 03/12/2008	Source: EPA Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008
Number of Days to Optiale. O	Data Release Frequency: Varies
NDIAN LUST R6: Leaking Underground Storage - LUSTs on Indian land in New Mexico and Ok	
Date of Government Version: 06/16/2008	Source: EPA Region 6
Date Data Arrived at EDR: 06/16/2008	Telephone: 214-665-6597 Last EDR Contact: 08/18/2008
Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Next Scheduled EDR Contact: 11/17/2008
Number of Bays to Opulate. Of	Data Release Frequency: Varies
NDIAN UST R1: Underground Storage Tanks on A listing of underground storage tank location	
Date of Government Version: 03/12/2008	Source: EPA, Region 1
Date Data Arrived at EDR: 03/14/2008	Telephone: 617-918-1313
Date Made Active in Reports: 03/20/2008 Number of Days to Update: 6	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008
Number of Days to opticate. o	Data Release Frequency: Varies
INDIAN UST R4: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 03/17/2008	Source: EPA Region 4
Date Data Arrived at EDR: 03/27/2008	Telephone: 404-562-9424
Date Made Active in Reports: 05/06/2008	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008
Number of Days to Update: 40	Data Release Frequency: Semi-Annually
INDIAN UST R5: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 12/21/2007	Source: EPA Region 5
Date Data Arrived at EDR: 12/21/2007	Telephone: 312-886-6136
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 08/18/2008
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R6: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 06/16/2008	Source: EPA Region 6
Date Data Arrived at EDR: 06/16/2008	Telephone: 214-665-7591
Date Made Active in Reports: 08/08/2008 Number of Days to Update: 53	Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008

INDIAN UST R7: Underground Storage Tanks on In No description is available for this data	ndian Land
Date of Government Version: 06/01/2007 Date Data Arrived at EDR: 06/14/2007 Date Made Active in Reports: 07/05/2007 Number of Days to Update: 21	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Varies
INDIAN UST R8: Underground Storage Tanks on In No description is available for this data	ndian Land
Date of Government Version: 05/28/2008 Date Data Arrived at EDR: 06/10/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 59	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R9: Underground Storage Tanks on In No description is available for this data	ndian Land
Date of Government Version: 07/11/2008 Date Data Arrived at EDR: 07/11/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 28	Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN UST R10: Underground Storage Tanks on No description is available for this data	Indian Land
Date of Government Version: 05/30/2008 Date Data Arrived at EDR: 06/27/2008 Date Made Active in Reports: 08/08/2008 Number of Days to Update: 42	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 08/18/2008 Next Scheduled EDR Contact: 11/17/2008 Data Release Frequency: Quarterly
INDIAN VCP R1: Voluntary Cleanup Priority Listing A listing of voluntary cleanup priority sites loca	
Date of Government Version: 04/02/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
INDIAN VCP R7: Voluntary Cleanup Priority Lisitng A listing of voluntary cleanup priority sites loca	
Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008 Number of Days to Update: 27	Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 07/21/2008 Next Scheduled EDR Contact: 10/20/2008 Data Release Frequency: Varies
EDR PROPRIETARY RECORDS	Data reliado ricquerioj, vaneo

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A Next Scheduled EDR Contact: N/A Data Release Frequency: No Update Planned

#### OTHER DATABASE(S)

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Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

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	Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 06/15/2007 Date Made Active in Reports: 08/20/2007 Number of Days to Update: 66	Source: Department of Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 06/13/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually
	NJ MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 09/30/2007 Date Data Arrived at EDR: 12/04/2007 Date Made Active in Reports: 12/31/2007 Number of Days to Update: 27	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 11/03/2008 Data Release Frequency: Annually
NY MANIFEST: Facility and Manifest Data Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.		
	Date of Government Version: 05/27/2008 Date Data Arrived at EDR: 05/29/2008 Date Made Active in Reports: 07/10/2008 Number of Days to Update: 42	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 05/29/2008 Next Scheduled EDR Contact: 08/25/2008 Data Release Frequency: Annually
	PA MANIFEST: Manifest Information Hazardous waste manifest information.	
	Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 12/21/2007 Date Made Active in Reports: 01/10/2008 Number of Days to Update: 20	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 06/09/2008 Next Scheduled EDR Contact: 09/08/2008 Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2007 Date Data Arrived at EDR: 06/03/2008 Date Made Active in Reports: 08/07/2008 Number of Days to Update: 65

Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 06/16/2008 Next Scheduled EDR Contact: 09/15/2008 Data Release Frequency: Annually

## **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

WI MANIFEST: Manifest Information Hazardous waste manifest information.

> Date of Government Version: 12/31/2006 Date Data Arrived at EDR: 04/27/2007 Date Made Active in Reports: 06/08/2007 Number of Days to Update: 42

Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 08/08/2008 Next Scheduled EDR Contact: 10/06/2008 Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation Telephone: (800) 823-6277 This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc. Telephone: 312-280-5991 The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals. Medical Centers: Provider of Services Listing Source: Centers for Medicare & Medicaid Services Telephone: 410-786-3000 A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services. Nursing Homes Source: National Institutes of Health Telephone: 301-594-6248 Information on Medicare and Medicaid certified nursing homes in the United States. **Public Schools** Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states. **Private Schools** Source: National Center for Education Statistics Telephone: 202-502-7300 The National Center for Education Statistics' primary database on private school locations in the United States. Daycare Centers: Certified Child Care Homes Source: Cabinet for Families & Children Telephone: 502-564-7130

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

# **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### STREET AND ADDRESS INFORMATION

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## **GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM**

#### TARGET PROPERTY ADDRESS

KENTUCKY UTILITIES CO. - TYRONE US 62 PO BOX 48 TYRONE, KY 40383

#### TARGET PROPERTY COORDINATES

Latitude (North):	38.04701 - 38° 2' 49.2"
Longitude (West):	84.84128 - 84° 50' 28.6''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	689424.4
UTM Y (Meters):	4213025.0
Elevation:	663 ft. above sea level

#### USGS TOPOGRAPHIC MAP

Target Property Map:	38084-A7 TYRONE, KY
Most Recent Revision:	1984

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and

2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

#### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

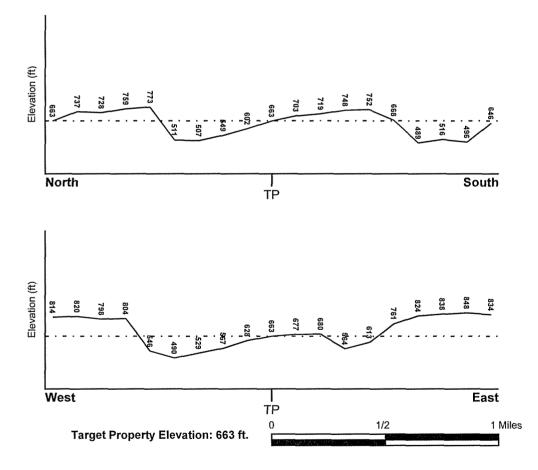
#### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### FEMA FLOOD ZONE

Target Property County WOODFORD, KY	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	2102300050A
Additional Panels in search area:	2100020075B
NATIONAL WETLAND INVENTORY	NWI Electronic
<u>NWI Quad at Target Property</u> TYRONE	Data Coverage Not Available

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID Not Reported LOCATION FROM TP GENERAL DIRECTION GROUNDWATER FLOW

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

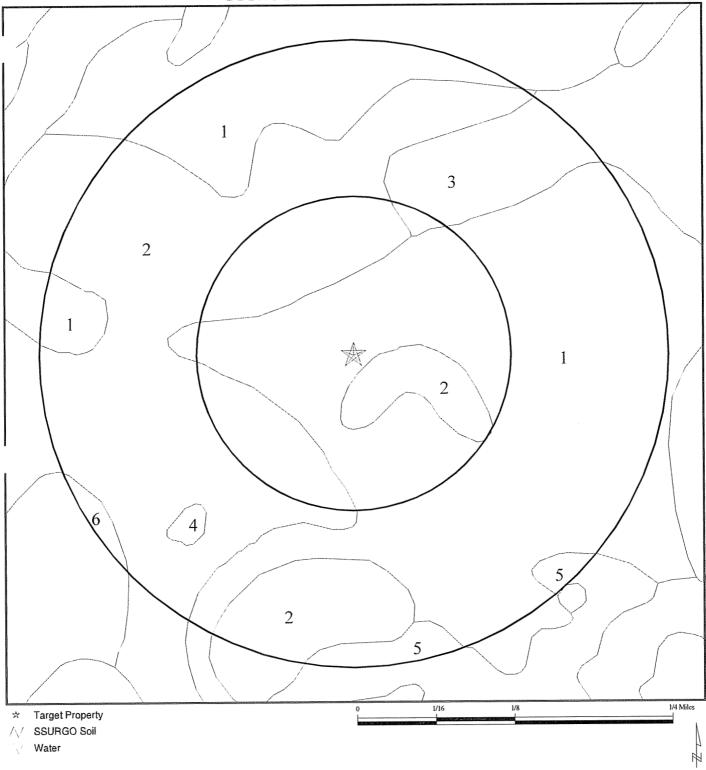
### ROCK STRATIGRAPHIC UNIT

#### **GEOLOGIC AGE IDENTIFICATION**

Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovician		
Series:	Middle Ordovician (Mohawkian)		
Code:	O2 (decoded above as Era, System &	Series)	

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 02299739.2r



SITE NAME:	Kentucky Utilities Co Tyrone
ADDRESS:	US 62 PO Box 48
LAT/LONG:	Tyrone KY 40383 38.0470 / 84.8413

CLIENT: CONTACT: INQUIRY #: DATE:	ENSR Consulting & Engineering Dianne Donovan 02299739.2r August 20, 2008 2:39 pm
	the 2008 EDD Ine the 2007 Tale Atlan Dal 07/2005
	CONTACT: INQUIRY #: DATE:

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### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1	
Soil Component Name:	McAfee
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 76 inches
Depth to Watertable Min:	> 0 inches

				Information			
	Boundary			Classif	fication	Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	25 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	25 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Mín:	Max: Min:
4	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

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Soil Map ID: 2	
Soil Component Name:	McAfee
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 76 inches
Depth to Watertable Min:	> 0 inches

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	Soil Layer Information						
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	25 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	25 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
4	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

### Soil Map ID: 3

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Soil Component Name:	Fairmount
Soil Surface Texture:	flaggy silty clay
Hydrologic Group:	Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
	Bou	oundary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	11 inches	flaggy silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
2	11 inches	16 inches	flaggy clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:
3	16 inches	20 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: Min:	Max: Min:

## Soil Map ID: 4 Soil Component Name:

Water

Soil Surface Texture: flaggy silty clay

Hydrologic Group:

Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches
No Layer Information available.	

Soil Map ID: 5	
Soil Component Name:	McAfee
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information							
Boundary		Boundary	Classi	fication	Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	7 inches	25 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	25 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

	Soil Layer Information						
Boundary				Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec (pH)	Soil Reaction (pH)
4	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 6	
Soil Component Name:	Faywood
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 76 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
	Βοι	indary		Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	29 inches	silty clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils,	Not reported	Max: Min:	Max: Min:

	Soil Layer Information						
	Boundary Classification				Saturated hydraulic		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec (pH)	Soil Reaction (pH)
3	29 inches	33 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No Wells Found		

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	KY1202879	1/4 - 1/2 Mile West

Note: PWS System location is not always the same as well location.

#### STATE DATABASE WELL INFORMATION

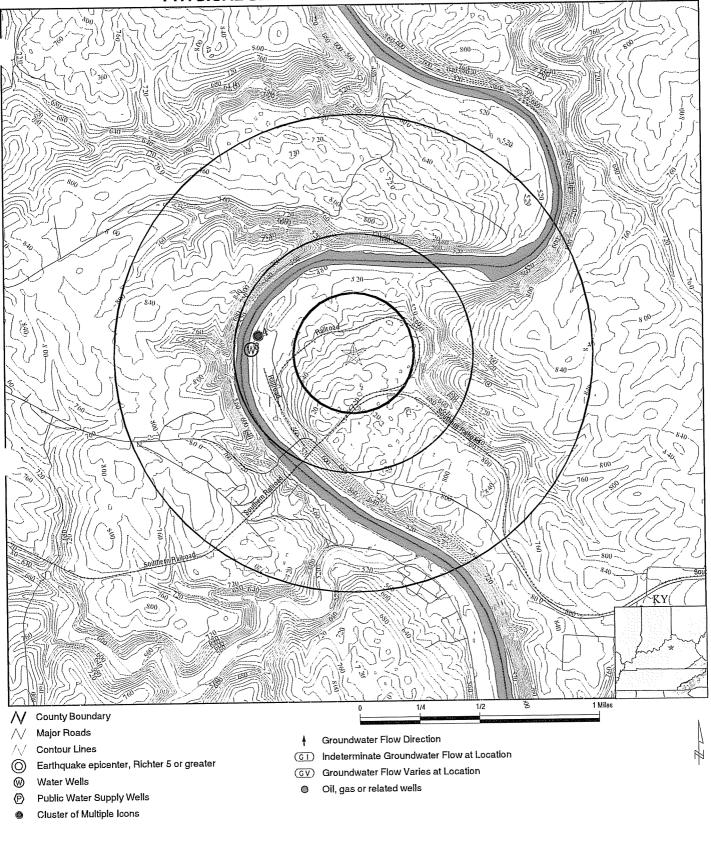
		LOCATION
MAP ID	WELL ID	FROM TP
A1	KY300000056633	1/4 - 1/2 Mile WNW

### STATE DATABASE WELL INFORMATION

MAP ID

WELL ID KY3000000056582 LOCATION FROM TP 1/4 - 1/2 Mile West

# PHYSICAL SETTING SOURCE MAP - 02299739.2r



ADDRESS:	Kentucky Utilities Co Tyrone US 62 PO Box 48 Tyrone KY 40383 38.0470 / 84.8413	CLIENT: CONTAC INQUIRY DATE:
		Co

IENT:	ENSR Consulting & Engineering
	Dianne Donovan
QUIRY #:	02299739.2r
TE:	August 20, 2008 2:39 pm
Copyrigh	t 🗢 2008 EDR. Inc. 🌣 2007 Tele Atlas Rel. 07/2006.

## **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance					
Elevation				Database	EDR ID Number
A1 WNW 1/4 - 1/2 Mile Lower				KY WELLS	KY300000056633
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	236871 38.04841 -84.84828 00040551 Industrial KY3000000056633	Site type: Constructi:		Water Well 11/08/1993 00:00:00	)
A2 West 1/4 - 1/2 Mile Lower				FRDS PWS	KY1202879
PWS ID: Date Initiated: PWS Name:	KY1202879 8008 K U TYRONE POWI ROBERT BOWLING P O BOX 48 VERSAILLES, KY 4	3	Active Not Reported		
Addressee / Facility:	Not Reported				
Facility Latitude: Facility Latitude: City Served: Treatment Class:	38 03 09 38 02 52 VERSAILLES Treated		Facility Longitude: Facility Longitude: Population:		
Violations information no	ot reported.				
ENFORCEMENT INFORM	ATION:				
System Name: Violation Type: Contaminant: Compliance Period: Violation ID: Enforcement Date:	K U TYRONE POWI Initial Tap Sampling LEAD & COPPER R 1995-01-01 - 1995-0 9569545 1995-09-11	for Pb and Cu ULE	Enf. Action:	State Compliance Achie	eved
System Name: Violation Type: Contaminant: Compliance Period: Violation ID: Enforcement Date:	K U TYRONE POWI Initial Tap Sampling LEAD & COPPER R 1995-01-01 - 2015-1 9569545 1995-09-11	for Pb and Cu ULE	Enf. Action:	State Compliance Achie	eved
System Name: Violation Type: Contaminant: Compliance Period: Violation ID:	K U TYRONE POWI Monitoring, Routine COLIFORM (TCR) 1995-08-01 - 1995-0 9569820	Minor (TCR)			
Enforcement Date:	1995-09-26		Enf. Action:	State Violation/Reminde	er Notice

# **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS**

### **ENFORCEMENT INFORMATION:**

System Name: Violation Type: Contaminant: Compliance Period: Violation ID: Enforcement Date:	K U TYRONE POWER STATIO Monitoring, Routine Minor (TCR) COLIFORM (TCR) 1995-08-01 - 1995-08-31 9569820 1996-02-20		State Public Notif Reque	ested
System Name: Violation Type: Contaminant: Compliance Period: Violation ID: Enforcement Date:	K U TYRONE POWER STATIO Monitoring, Routine Minor (TCR) COLIFORM (TCR) 1995-08-01 - 1995-08-31 9569820 1996-02-23		State Public Notif Received	
3 West 1/4 - 1/2 Mile Lower			KY WELLS	KY300000056582
Location i: North lati: West longi: Akgwa numb: Primary us: Site id:	38551 38.0473 -84.84911 00020844 Industrial KY3000000056582	Site type: Constructi:	Water Well 02/28/1990 00:00:00	

TC02299739.2r Page A-14

## **GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS** RADON

#### AREA RADON INFORMATION

Federal EPA Radon Zone for WOODFORD County: 1

Note: Zone 1 indoor average level > 4 pCi/L. : Zone 2 indoor average level >≈ 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 40383

#### Number of sites tested: 6

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	3.067 pCi/L	83%	17%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5<sup>°</sup> Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Polygon Features Source: Environmental Protection & Public Protection Cabinet Telephone: 502-564-5174

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

#### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS) Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
 Source: EPA/Office of Drinking Water
 Telephone: 202-564-3750
 Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after
 August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS) This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

Kentucky Water Well Records Database Source: Kentucky Geological Survey Telephone: 859-257-5500 Water Wells in Kentucky. Data from the Kentucky Ground Water Data Repository.

#### OTHER STATE DATABASE INFORMATION

Oil and Gas Well Locations Source: Kentucky Geological Survey Telephone: 859-257-5500 Oil and gas well locations in the state of Kentucky

#### RADON

Area Radon Information Source: USGS Telephone: 703-356-4020 The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA Telephone: 703-356-4020 Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater Source: Department of Commerce, National Oceanic and Atmospheric Administration

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STREET AND ADDRESS INFORMATION

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ENSR AECOM

Appendix B

EDR Report