

UNIFORM KENTUCKY WELL CONSTRUCTION RECORD

Use this form to report installation of monitoring or water wells.
 Original copy must be submitted to Division of Water within 30 days of completion.
 See instructions on reverse of form. Do not write in shaded areas.
 Record must be typed or neatly printed or it will be returned to the driller as unacceptable.
 One copy to Division of Water, one copy to owner, one copy to driller's files.

23

4. Owner name United States Department of Energy				1. Kentucky Well ID (AKGWA) Number <div style="border: 1px solid black; padding: 2px; display: flex; gap: 5px;"> 8 0 0 5 - 3 8 9 </div>																																									
				2. Owner Well ID # MW-425 Shallow																																									
5. Owner address 5600 Hobbs Road				3. Attachments Required 1. Site plan or sketch map <input type="checkbox"/> 2. Well location On topographic map, OR <input checked="" type="checkbox"/> Obtained by GPS unit <input type="checkbox"/> Conditionally Required 3. Well diagram (monitoring well) <input type="checkbox"/> 4. Coliform analysis (if applicable) <input type="checkbox"/> 5. Signed variance (if applicable) <input type="checkbox"/> Optional 6. Other laboratory analysis report <input type="checkbox"/>																																									
6. City West Paducah		7. State KY		8. Zip 42053		If site name and address differ from owner name and address: 9. Site name Paducah Gaseous Diffusion Plant C-400 Building																																							
10. Site address 5600 Hobbs Road				11. City West Paducah				12. State KY		13. Zip 42053																																			
14. Agency Interest (AI) Number 3059		15. Facility type & ID Number <input checked="" type="checkbox"/> CERCLA <input type="checkbox"/> Solid Waste <input type="checkbox"/> Drinking Water <input type="checkbox"/> RCRA <input type="checkbox"/> UST		31. Work start date Jun 01 2009		32. Work end date Jun 01 2009		Please report depths in feet below surface, not as relative elevations																																					
16. Owner phone		17. Site phone		18. USGS topo map Heath		19. County Mccracken		20. Surface elevation (ft) 381.00		21. Elevation determined by <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Map <input type="checkbox"/> Prior report <input type="checkbox"/> Survey <input type="checkbox"/> Survey <input type="checkbox"/> Prior well log																																			
22. Physiographic Region <input type="checkbox"/> Bluegrass <input type="checkbox"/> Ohio River Alluvium <input type="checkbox"/> E. Coal Field <input type="checkbox"/> W. Coal Field <input type="checkbox"/> Miss. Plateau <input checked="" type="checkbox"/> Jackson Purchase				23. Well Use <input type="checkbox"/> Agriculture <input type="checkbox"/> Geothermal <input type="checkbox"/> Commercial <input type="checkbox"/> Heat pump <input type="checkbox"/> Domestic <input type="checkbox"/> HVAC <input type="checkbox"/> Industrial <input type="checkbox"/> Injection <input checked="" type="checkbox"/> Monitoring / Ambient Monitor / Remed <input type="checkbox"/> Public <input type="checkbox"/> Unused		24. Drilling method <input checked="" type="checkbox"/> Auger - HS <input type="checkbox"/> Jet wash <input type="checkbox"/> Auger - SS <input type="checkbox"/> Push/probe <input type="checkbox"/> Auger - bucket <input type="checkbox"/> Rotary - air <input type="checkbox"/> Auger - hand <input type="checkbox"/> Rotary - mud <input type="checkbox"/> Cable tool <input type="checkbox"/> Rotary - reverse <input type="checkbox"/> Core <input type="checkbox"/> Sand point <input type="checkbox"/> Driven casing <input type="checkbox"/> Sonic <input type="checkbox"/> Excavation <input type="checkbox"/> Unknown <input type="checkbox"/> Combined - HS auger & air rotary		25. Well status <input checked="" type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Unsuitable for intended use		26. Wellhead <input type="checkbox"/> Flush <input type="checkbox"/> Locking <input checked="" type="checkbox"/> Well cap <input type="checkbox"/> Sanitary seal																																			
27. Well completion: Casing and screens				28. Annulus fill and seal				33. Total depth (ft) 75.33																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Borehole diameter</th> <th>Casing diameter</th> <th>Casing type</th> <th>Screen slot size</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>71.0</td> <td>8</td> <td>2</td> <td>PVC</td> <td></td> </tr> <tr> <td>71.0</td> <td>73.0</td> <td>8</td> <td>2</td> <td>PVC screen</td> <td>0.010</td> </tr> <tr> <td>73.0</td> <td>75.33</td> <td>8</td> <td>2</td> <td>PVC</td> <td></td> </tr> </tbody> </table>		From depth, ft.	To depth, ft.	Borehole diameter	Casing diameter	Casing type	Screen slot size	0.0	71.0	8	2	PVC		71.0	73.0	8	2	PVC screen	0.010	73.0	75.33	8	2	PVC		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>67.0</td> <td>Bentonite</td> </tr> <tr> <td>67.0</td> <td>69.0</td> <td>Bentonite pellets</td> </tr> <tr> <td>69.0</td> <td>87.5</td> <td>Sand</td> </tr> </tbody> </table>		From depth, ft.	To depth, ft.	Material	1.0	67.0	Bentonite	67.0	69.0	Bentonite pellets	69.0	87.5	Sand	34. Depth to bedrock (ft) _____		35. Static water level (ft) 50.00		36. Casing height above surface (in) 33.00	
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49. Comments One of 3 nested wells completed in a common 8-inch borehole as MW-425. 4'X4'X12" concrete pad, 8-inch Sch 40 steel locking cover, 4 steel bollards.				41. Pitless adapter installed <input type="checkbox"/> Yes <input type="checkbox"/> No		42. Pump installed: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Turbine <input type="checkbox"/> Bailor or bucket <input type="checkbox"/> Hand <input type="checkbox"/> No pump		43. Depth to intake (ft) _____		44. Apparent quality and odor: APPEARANCE: <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Muddy <input type="checkbox"/> Turbid ODOR: none slight mod high <input type="checkbox"/> Iron <input type="checkbox"/> Sulfur <input type="checkbox"/> Salt																																			
50. Affirmation: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge. Note: the driller is not responsible for natural groundwater quality or quantity encountered while drilling or completing this well.				45. Coliform test type <input type="checkbox"/> fecal <input type="checkbox"/> fecal and total		46. Coliform test results <input type="checkbox"/> 0 or <1.0 <input type="checkbox"/> TNTC <input type="checkbox"/> Confluent or _____ # colonies per 100 ml		47. Date Sampled _____		48. Date Analyzed _____																																			
Signature of certified driller		Date signed Jun 30 2009		Latitude 37.115592		Longitude 88.811237		Lat/Long method <input checked="" type="checkbox"/> INT <input type="checkbox"/> GPS <input type="checkbox"/> SUR <input type="checkbox"/> REP		Date Received JUL 13 2009																																			
Certification number 0344-0454-00		Drilling company Chase Environmental Group, Inc.		Initials of reviewer		rev 04/11/2008																																							

JB

Box 2005-6389

SLC

UNIFORM KENTUCKY WELL CONSTRUCTION RECORD

Use this form to report installation of monitoring or water wells.
 Original copy must be submitted to Division of Water within 30 days of completion.
 See instructions on reverse of form. Do not write in shaded areas.
 Record must be typed or neatly printed or it will be returned to the driller as
 One copy to Division of Water, one copy to owner, one copy to driller

Attach Well Identification Number
 Label Here (if applicable)

23

8002-3024

4. Owner name **United States Department of Energy**

5. Owner address **5600 Hobbs Road** 2. Owner Well ID # **MW-425 Intermed**

6. City **West Paducah** 7. State **KY** 8. Zip **42053**

If site name and address differ from owner name and address:
 9. Site name **Paducah Gaseous Diffusion Plant C-400 Building**

10. Site address **5600 Hobbs Road**

11. City **West Paducah** 12. State **KY** 13. Zip **42053**

14. Agency Interest (AI) Number **3059** 15. Facility type & ID Number
 CERCLA Solid Waste Drinking Water
 RCRA UST

16. Owner phone 17. Site phone

18. USGS topo map **Heath** 22. Physiographic Region
 Bluegrass Ohio River Alluvium
 E. Coal Field W. Coal Field

19. County **Mccracken** 20. Surface elevation (ft) **381.00**
 21. Elevation determined by
 GPS Map Prior report
 Survey Prior well log

23. Well Use
 Agriculture Geothermal
 Commercial Heat pump
 Domestic HVAC
 Industrial Injection
 Monitoring / Remed Mining
 Public Unused

24. Drilling method
 Auger - HS Jet wash
 Auger - SS Push/probe
 Auger - bucket Rotary - air
 Auger - hand Rotary - mud
 Cable tool Rotary - reverse
 Core Sand point
 Driven casing Sonic
 Excavation Unknown
 Combined - HS auger & air rotary

25. Well status
 Active
 Inactive
 Unsuitable for intended use

26. Wellhead
 Flush Locking
 Well cap Sanitary seal

27. Well completion: Casing and screens

From depth, ft.	To depth, ft.	Borehole diameter	Casing diameter	Casing type	Screen slot size
0.0	79.0	8	2	PVC	
79.0	81.0	8	2	PVC screen	0.010
81.0	83.33	8	2	PVC	

28. Annulus fill and seal

From depth, ft.	To depth, ft.	Material
1.0	67.0	Bentonite
67.0	69.0	Bentonite pellets
69.0	87.5	Sand

29. Lithologic log (if more space is needed, continue on separate page)

From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)
0.0	2.5	Gravel Fill
2.5	18.6	Silt
18.6	21.4	Silt W/Gravel
21.4	29.2	Gravelly Fine Sand
29.2	32.4	Silty Fine Sand
32.4	36.0	Fine Sand W/Gravel
36.0	41.0	Sandy Gravel
41.0	53.4	Silt
53.4	63.2	Fine Sand
63.2	87.5	Sandy Gravel

30. Sketch map
 Show well location and distances from permanent structures, septic drain fields, major roads (include name or number) and intersections.
 INDICATE NORTH WITH AN ARROW.

31. Work start date **Jun 01 2009**
 32. Work end date **Jun 01 2009**

33. Total depth (ft) **83.33**
 34. Depth to bedrock (ft) _____
 35. Static water level (ft) **50.00**
 36. Casing height above surface (in) **33.00**

37. Estimated well yield _____
 gpm gph gpd

38. Well service _____ # of people served

39. Disinfectant amount _____ 40. Type
 oz qts cups Hypo-chlorite
 lbs gal Bleach

41. Pitless adapter installed Yes No

42. Pump installed:
 Submersible Jet Turbine
 Bailor or bucket Hand No pump

43. Depth to intake (ft) _____

44. Apparent quality and odor:
 APPEARANCE Clear Cloudy Muddy Turbid
 ODOOR none slight mod high
 Iron Sulfur Salt

45. Coliform test type
 fecal fecal and total

46. Coliform test results
 0 or <1.0 TNTC Confluent
 or _____ # colonies per 100 ml

47. Date Sampled _____ Day _____ Year _____
 48. Date Analyzed _____ Month _____ Day _____ Year _____

49. Comments
One of 3 nested wells completed in a common 8-inch borehole as MW-425. 4'X4'X12" concrete pad, 8-inch Sch 40 steel locking cover, 4 steel bollards.

50. Affirmation: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge.
 Note: the driller is not responsible for natural groundwater quality or quantity encountered while drilling or completing this well.

Signature of certified driller *[Signature]* Date signed **Jun 30 2009**
 Certification number **0344-0454-00** Drilling company **Chase Environmental Group, Inc.**

Latitude **37.115592** Longitude **88.811237**
 Lat/Long method INT GPS SUR REP
 Date Received **JUL 18 2009**

JB

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 One copy to Division of Water, one copy to owner, one copy to driller's

Attach Well Identification Number

23

8002-3025

4. Owner name: United States Department of Energy

5. Owner address: 5600 Hobbs Road

6. City: West Paducah 7. State: KY 8. Zip: 42053

9. Site name: Paducah Gaseous Diffusion Plant C-400 Building

10. Site address: 5600 Hobbs Road

11. City: West Paducah 12. State: KY 13. Zip: 42053

14. Agency Interest (AI) Number: JB 3059

15. Facility type: CERCLA Solid Waste Drinking Water
 RCRA UST

16. Owner phone: _____ 17. Site phone: _____

18. USGS topo map: Heath 19. County: Mccracken

20. Surface elevation (ft): 381.00 21. Elevation determined by: GPS Map Prior report Survey

22. Physiographic Region: Bluegrass Ohio River Alluvium E. Coal Field W. Coal Field Miss. Plateau Jackson Purchase

23. Well Use: Agriculture Commercial Domestic Industrial Monitoring / Remed Public

24. Drilling method: Auger - HS Auger - SS Auger - bucket Auger - hand Cable tool Core Driven casing Excavation Combined - HS auger & air rotary

25. Well status: Active Inactive Unsuitable for intended use

26. Wellhead: Flush Locking Well cap Sanitary seal

27. Well completion: Casing and screens

From depth, ft.	To depth, ft.	Borehole diameter	Casing diameter	Casing type	Screen slot size
0.0	83.0	8	2	PVC	
83.0	85.0	8	2	PVC screen	0.010
85.0	87.33	8	2	PVC	

28. Annulus fill and seal

From depth, ft.	To depth, ft.	Material
1.0	67.0	Bentonite
67.0	69.0	Bentonite pellets
69.0	87.5	Sand

29. Lithologic log (if more space is needed, continue on separate page)

From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)
0.0	2.5	Gravel Fill
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36.0	41.0	Sandy Gravel
41.0	53.4	Silt
53.4	63.2	Fine Sand
63.2	87.5	Sandy Gravel

30. Sketch map: _____

31. Work start date: Jun 01 2009 32. Work end date: Jun 01 2009

33. Total depth (ft): 87.33 34. Depth to bedrock (ft): _____ 35. Static water level (ft): 50.00 36. Casing height above surface (in): 33.00

37. Estimated well yield: _____ gpm gph gpd

38. Well service: _____ # of people served

39. Disinfectant amount: _____ 40. Type: Bleach Hypochlorite

41. Pitless adapter installed: Yes No

42. Pump installed: Submersible Jet Turbine Bailer or bucket Hand No pump

43. Depth to intake (ft): _____

44. Apparent quality and odor:

APPEARANCE: Clear Cloudy Muddy Turbid

ODOR: none slight mod high

Iron Sulfur Salt

45. Coliform test type: fecal fecal and total

46. Coliform test results: 0 or <1.0 TNTC Confluent

or _____ # colonies per 100 ml

47. Date Sampled: _____ Day Year

48. Date Analyzed: _____ Month Day Year

49. Comments: One of 3 nested wells completed in a common 8-inch borehole as MW-425. 4'X4'X12" concrete pad, 8-inch Sch 40 steel locking cover, 4 steel bollards.

50. Affirmation: The work described above was done under my supervision, and this report is true and correct to the best of my knowledge. Note: the driller is not responsible for natural groundwater quality or quantity encountered while drilling or completing this well.

Signature of certified driller: _____ Date signed: Jun 30 2009

Certification number: 0344-0454-00 Drilling company: Chase Environmental Group, Inc.

Latitude: DMS 37.115592 or Decimal 37.115592

Longitude: DMS 88.811237 or Decimal 88.811237

Lat/Long method: INT GPS SUR REP

Date Received: JUL 13 2009

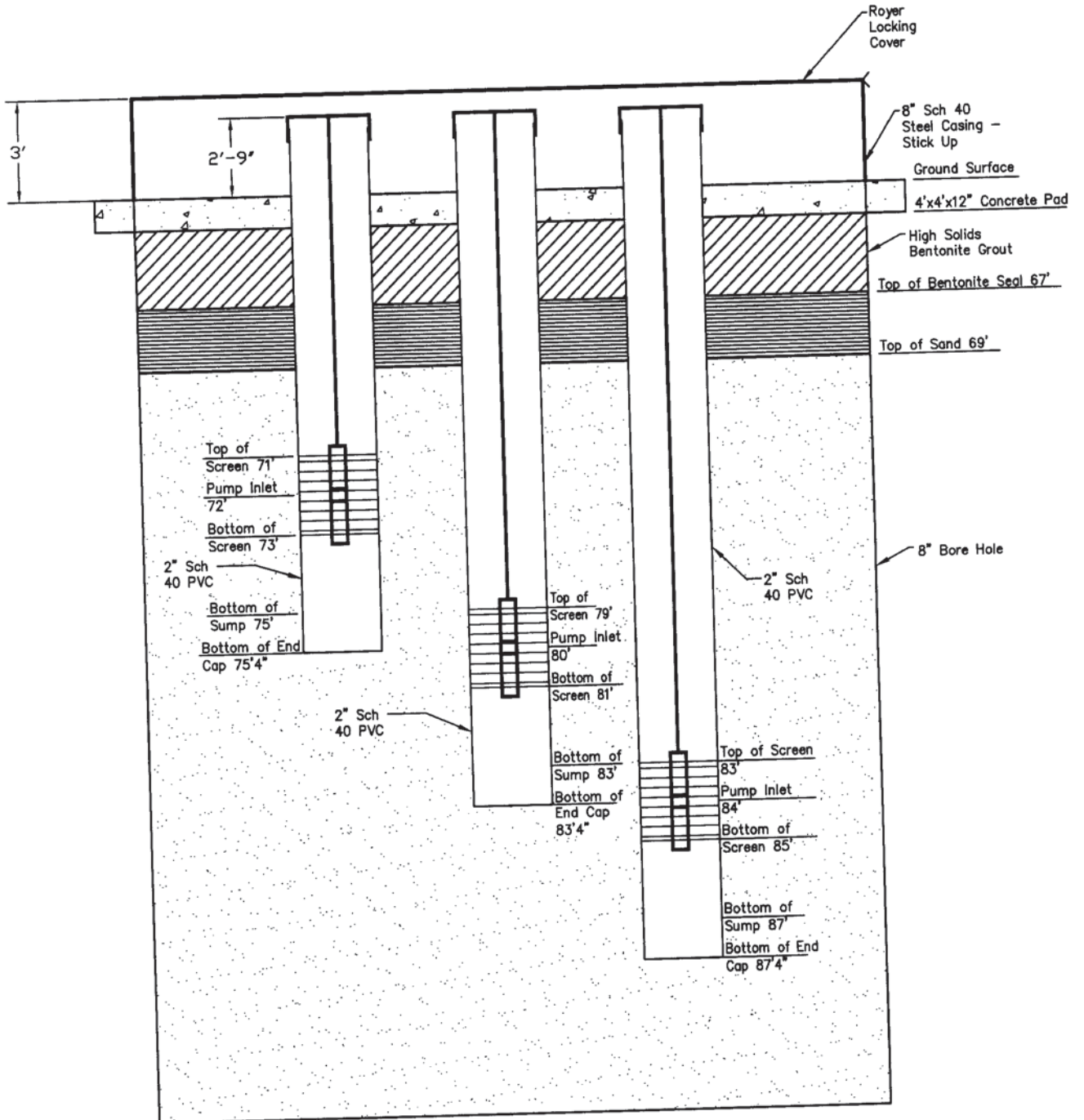
Initials of reviewer: _____

MONITORING WELL CONSTRUCTION LOG

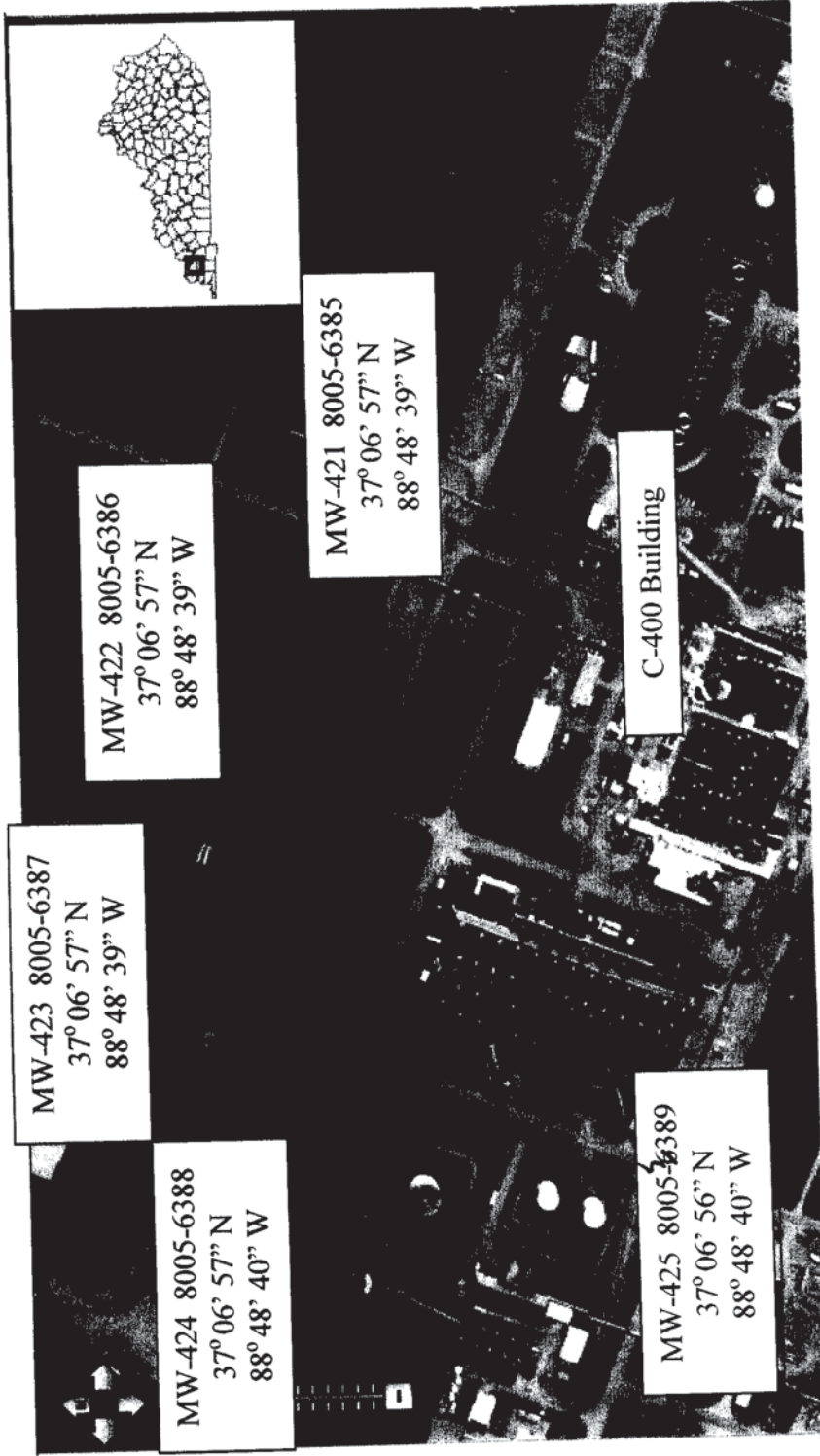
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Location Name: Paducah Gaseous Diffusion Plant
 Address: 5600 Hobbs Road
 City/State/Zip: West Paducah, KY 42053

State Assigned # 8005-6389
 Facility Assigned # MW-425



Comments: Drawing not to scale.



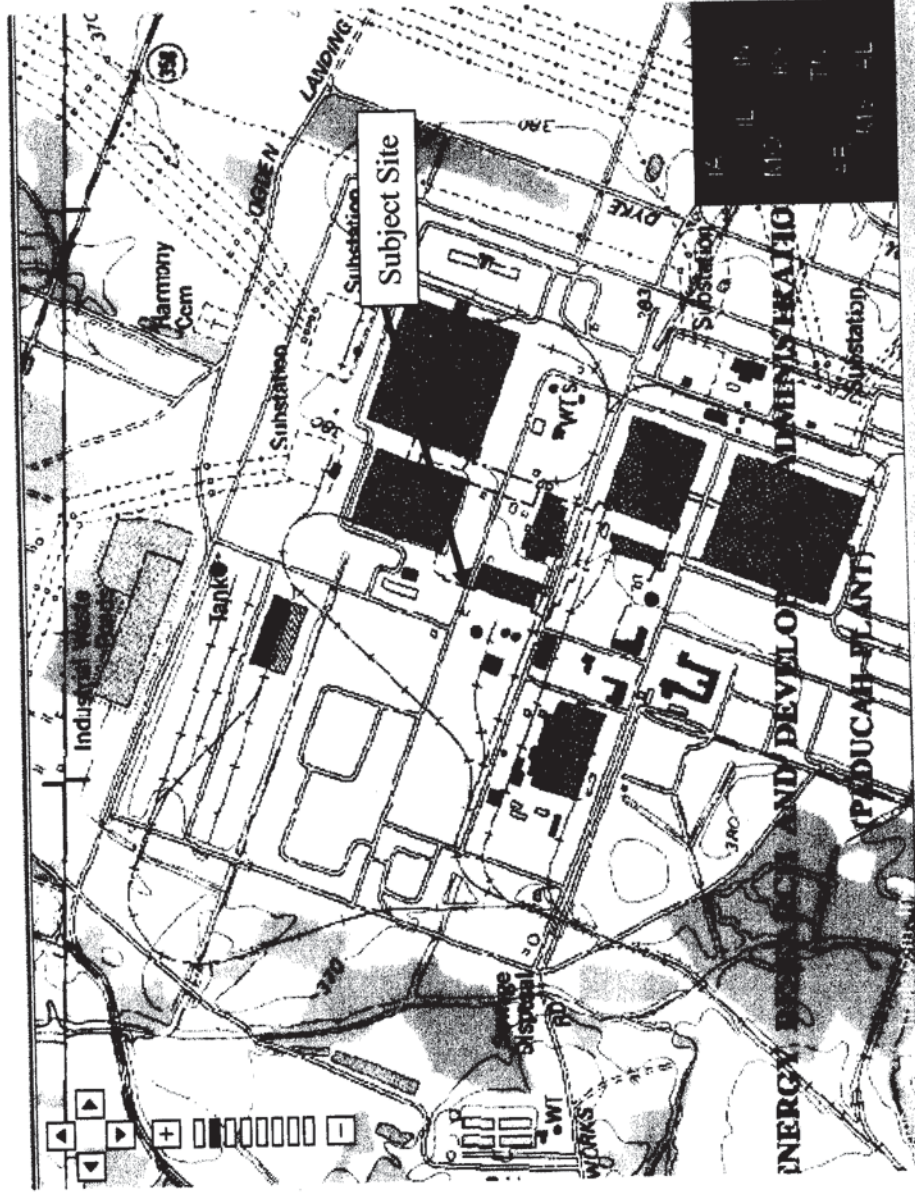
CHASE ENVIRONMENTAL GROUP, INC.
environmental engineering, remediation & consulting

Drawn By: Todd W. Mills

Date: June 30, 2009

Title: Site Aerial Photograph
Paducah Gaseous Diffusion Plant – C-400 Building
5600 Hobbs Road, West Paducah, KY

Comments: Approximate Scale: 1" = 150'
Coordinates taken from Google Earth



Center: 37.1157°N 88.8113°W
 Elevation at center: 381 feet (116 meters)

Display format:
 Decimal Degrees

<p>Ceg CHASE ENVIRONMENTAL GROUP, INC. environmental engineering, remediation & consulting</p> <p>Drawn By: Todd W. Mills</p> <p>Date: June 30, 2009</p>	<p>Title: Site Topographic Map Paducah Gaseous Diffusion Plant West Paducah, Kentucky</p> <p>Comments: Scale: 1:24,000 Source: USGS 7.5' Topographic Series Heath Quadrangle</p>
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