

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.

000-6385

4. Owner name United States Department of Energy				1. Kentucky Well ID (AKGWA) Number 8 0 0 5 - 6 3 8 5																																							
5. Owner address 5600 Hobbs Road				2. Owner Well ID # MW-421 Shallow																																							
6. City West Paducah		7. State KY		8. Zip 42053		3. Attachments Required																																					
If site name and address differ from owner name and address:																																											
9. Site name Paducah Gaseous Diffusion Plant C-400 Building				1. Site plan or sketch map <input type="checkbox"/>																																							
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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 04 2009		3. Well diagram (monitoring well) <input type="checkbox"/>																																					
16. Owner phone		17. Site phone		32. Work end date Jun 04 2009		4. Coliform analysis (if applicable) <input type="checkbox"/>																																					
18. USGS topo map Heath				22. Physiographic Region																																							
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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"/> Prior well log		33. Total depth (ft) 75.33		34. Depth to bedrock (ft) _____																																					
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 <input type="checkbox"/> Remed <input type="checkbox"/> Mining <input type="checkbox"/> Public <input type="checkbox"/> Unused		24. Drilling method <input 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		35. Static water level (ft) 50.00																																					
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Signature of certified driller <i>[Signature]</i>		Date signed Jun 30 2009		43. Depth to intake (ft) _____		44. Apparent quality and odor:																																					
Certification number 0344-0454-00		Drilling company Chase Environmental Group, Inc.		45. Coliform test type <input type="checkbox"/> fecal <input type="checkbox"/> fecal and total		APPEARANCE																																					
Date Received JUL 13 2009		Initials of reviewer		46. Coliform test results <input type="checkbox"/> 0 or <1.0 <input type="checkbox"/> TNTC <input type="checkbox"/> Confluent or _____ # colonies per 100 ml		none slight mod high <input type="checkbox"/> Clear <input type="checkbox"/> Cloudy <input type="checkbox"/> Muddy <input type="checkbox"/> Turbid <input type="checkbox"/> Iron <input type="checkbox"/> Sulfur <input type="checkbox"/> Salt																																					
Latitude 37.115905		Longitude 88.810715		47. Date Sampled Month Day Year		COLIFORM TEST																																					
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 One copy to Division of Water, one copy to owner, one copy to driller's files.

23

8002-3016

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

5. Owner address **5600 Hobbs Road** 2. Owner Well ID # **MW-421 Intermed**

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

3. Attachments Required
 1. Site plan or sketch map
 2. Well location
 On topographic map, OR
 Obtained by GPS unit

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
 31. Work start date **Jun 04 2009**
 32. Work end date **Jun 04 2009**

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

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	57.0	Bentonite
57.0	59.0	Bentonite pellets
59.0	87.42	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	19.4	Silt
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40.8	54.6	Fine Sand With Clay
54.6	59.3	Fine Sand
59.3	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.

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
 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-421. 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**
 Month Day Year

Certification number **0344-0454-00** Drilling company **Chase Environmental Group, Inc.**
 Date Received **JUL 13 2009**
 Initials of reviewer _____

JB

see

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Attach Well Identification Number
 Label Here (if applicable)

23

8002-3017

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4. Owner name United States Department of Energy				2. Owner Well ID # MW-421 Deep																																					
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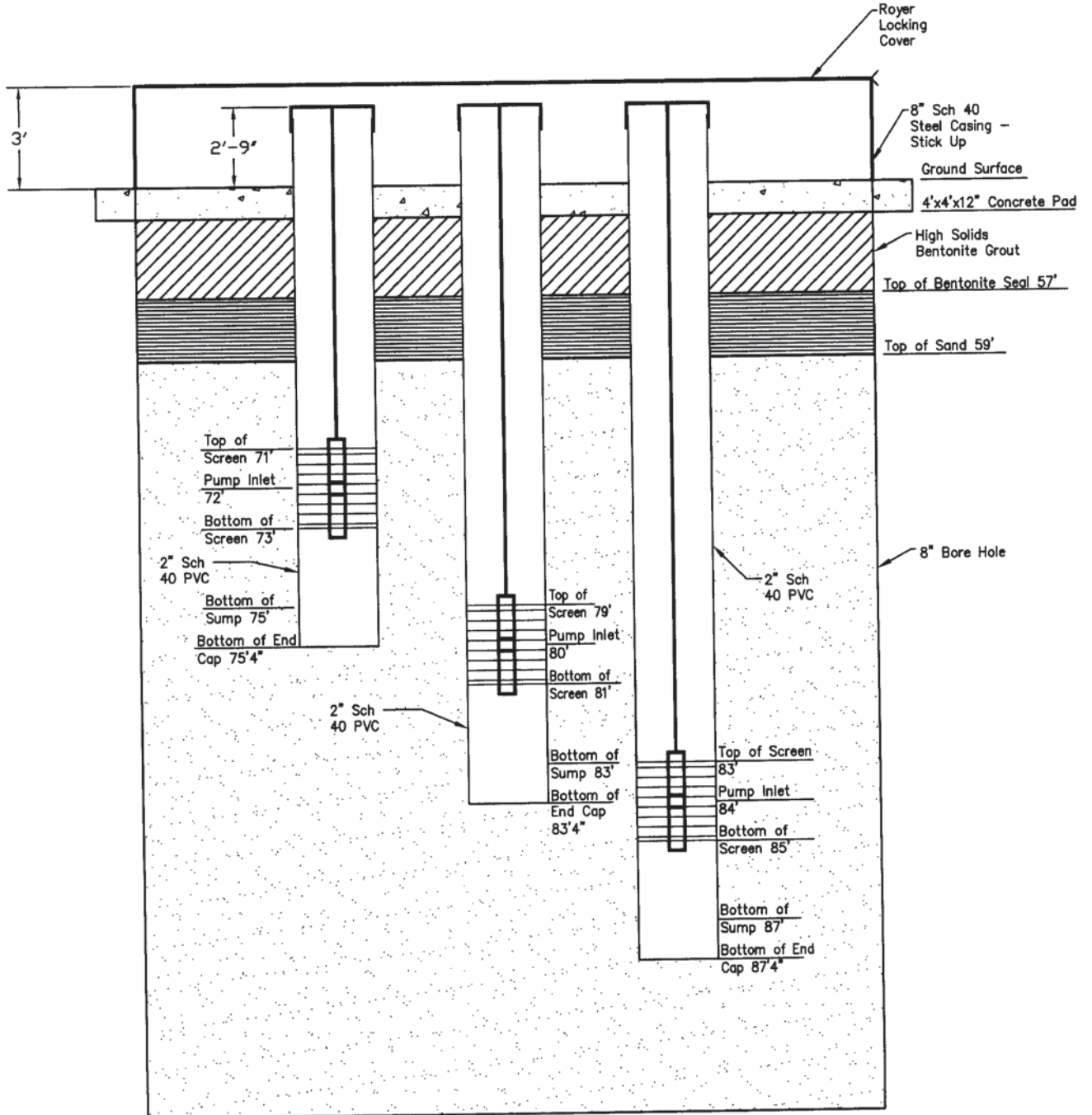
JB

see

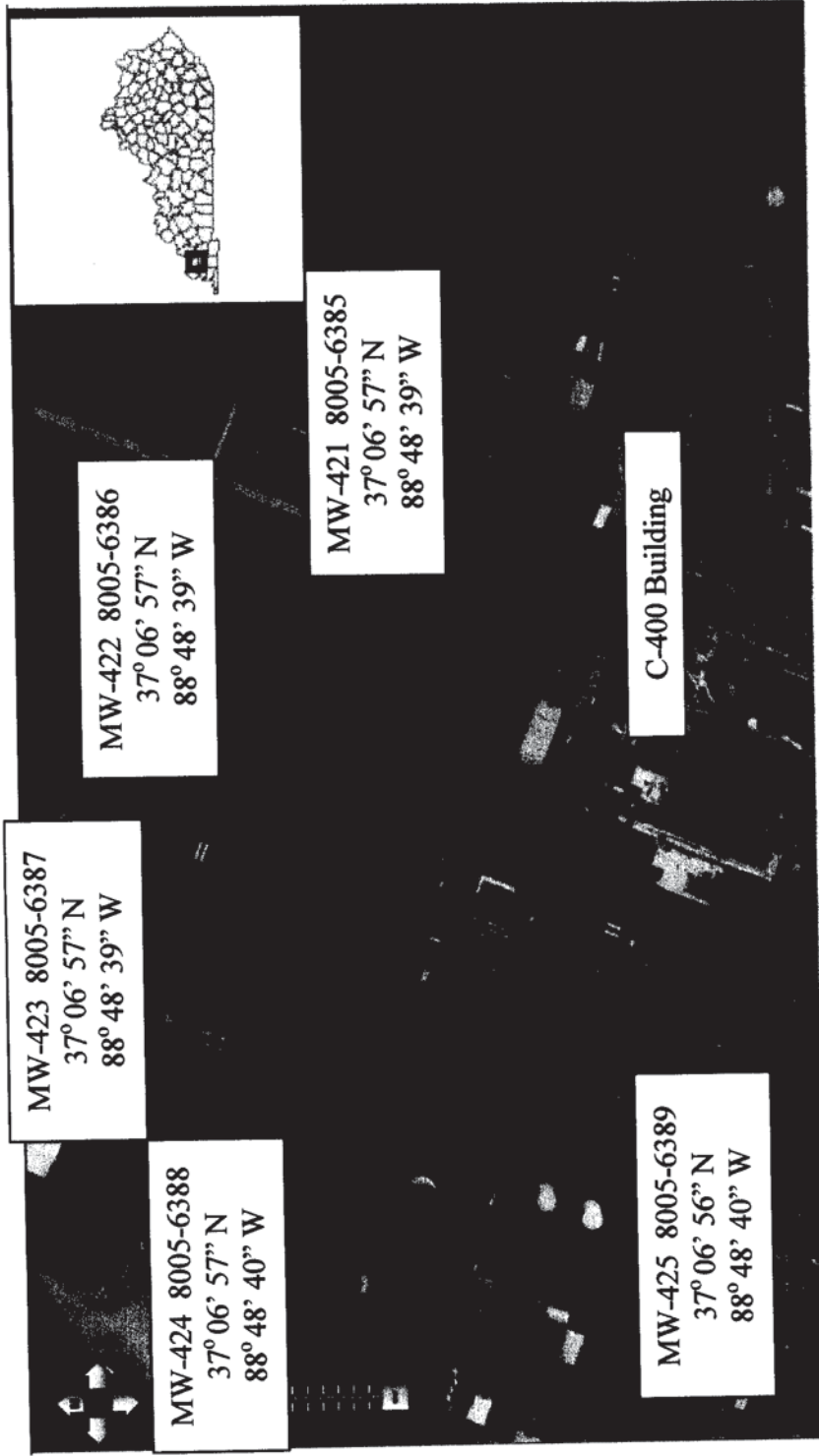
MONITORING WELL CONSTRUCTION LOG

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

State Assigned # 8005-6385
Facility Assigned # MW-421



MW421						
		8-inch boring		Drilled by	Vernon Scott	
06/02/09 @ 12:12						08:07
Drilled Interval		Recovery	Depths		Description	Notes
Top	Bottom		Top	Bottom		
0.0	6.0	9.5	0.0	6.0	Silt, 10YR7/1 (light gray) with 10YR7/4 (very pale brown) mottling grading downward to 10YR7/4 (very pale brown) with 10YR7/1 (light gray) mottling, soft, nonplastic, and moist	0.0-0.3 ft: rootlets
6.0	16.0	11.0	6.0	10.7	Silt, 10YR7/4 (very pale brown) with little mottling by 10YR7/1 (light gray), soft, nonplastic, and moist	
			10.7	16.0	Silt, 10YR7/4 (very pale brown) mottled with 10YR7/1 (light gray) and with 10YR7/8 (yellow) staining, moderately firm to firm, moderate plasticity, and moist	
16.0	26.0	10.6	16.0	19.4	Silt as above	
			19.4	20.5	Gravelly Sand with silt, 10YR6/4 (light yellowish brown), dense, and moist. Sand is fine quartz(?). Gravel is rounded chert, 0.2-1.0 inch diameter	
			20.5	21.6	Fine Sand, 7.5YR6/6 (reddish yellow), loose, and moist	
			21.6	25.5	Gravelly Sand, 7.5YR6/6 (reddish yellow) with some 7.5YR2.5/1 (black) staining (manganese?), loose, and moist. Sand is fine quartz(?). Gravel is rounded chert, 0.2-1.0 inch diameter	
			25.5	26.0	Clay, 10YR7/1 (light gray), soft, plastic, and moist	
26.0	36.0	12.0	26.0	29.3	Silt, grading downward to Very Fine Sand, 10YR7/1 (light gray) stained with 10YR7/8 (yellow) and 2.5YR7/4 (light reddish brown), soft, low plasticity to nonplastic, and moist	
			29.3	35.1	Fine Sand, 10YR7/6 (yellow), grading downward to Coarse Sand with gravel, 10YR7/3 (very pale brown), loose, and moist. Fine sand is quartz(?). Coarse sand is subrounded quartz and chert. Gravel is rounded chert, weathered white, 0.4 inch diameter.	
			35.1	36.0	Silt, 10YR7/1 (light gray) laminated with 10YR7/8 (yellow), firm, nonplastic, and moist	
36.0	46.0	12.2	36.0	40.8	Fine Sand with gravel, 10YR8/1 (white), loose, and moist. Gravel is well rounded chert pebbles, weathered white, 0.2-0.3 inch diameter	
			40.8	44.3	Fine Sand with very little clay, 10YR8/2 (very pale brown) mottled with 10YR6/8 (brownish yellow), slightly dense, and moist	
			44.3	45.6	Fine Sand with little clay, 10YR8/2 (very pale brown) mottled with 10YR6/8 (brownish yellow), dense, and moist	
			45.6	46.0	Clayey Fine Sand, 10YR7/4 (very pale brown), very dense, moderate plasticity, and moist	
46.0	56.0	12.5	46.0	49.8	Very Clayey Very Fine Sand, 10YR7/4 (very pale brown) mottled with 7.5YR5/3 (brown), very dense, low plasticity, and moist	
			49.8	54.1	Fine Sand, 7.5YR6/8 (reddish yellow) marbled with 7.5YR3/1 (very dark gray), loose to dense	Trace subrounded gravel, 2.0 inch diameter
			54.1	54.6	Very Clayey Fine Sand, 7.5YR6/8 (reddish yellow) marbled with 7.5YR3/1 (very dark gray), loose to dense, and moderate plasticity	
			54.6	56.0	Fine Sand as at 49.8-54.1 ft	
56.0	66.0	9.0	56.0	56.9	Fine Sand, 10YR7/4 (very pale brown), loose, and moist	
			56.9	59.3	Fine Sand as above but stained 7.5YR3/1 (very dark gray)	
			59.3	66.0	Sandy Gravel, 10YR7/4 (very pale brown), loose, and moist. Gravel is rounded chert with iron patina, 0.2-2.0 inch diameter. Sand is predominately fine quartz(?) but includes coarse, subrounded to subangular, chert grains	
66.0	76.0	2.2	66.0	68.2	Sandy Gravel, 10YR6/4 (light yellowish brown), loose, and wet. Gravel is rounded chert with iron patina, 0.2-3.0 inch diameter. Sand is predominately fine quartz(?) but includes some coarse, subrounded to subangular, chert grains	
			68.2	76.0	Missing	
76.0	87.5	11.3	76.0	87.5	Sandy Gravel, 10YR6/4 (light yellowish brown), loose, and wet. Gravel is rounded to subrounded chert with iron patina, 0.2-3.0 inch diameter. Sand is predominately fine quartz(?) but includes 10-15% coarse, subrounded, chert grains	
TD=87.5						



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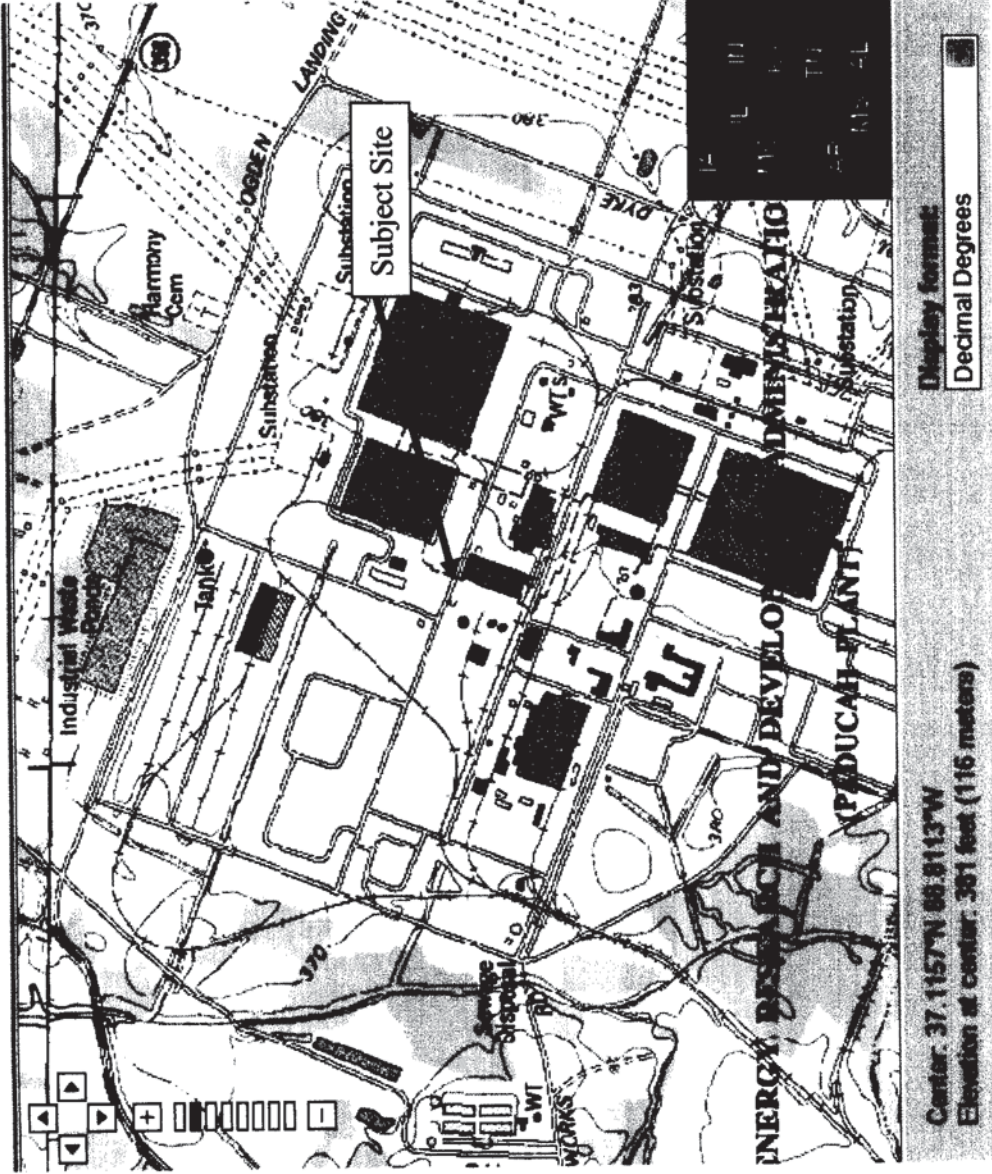
Drawn By: Todd W. Mills

Date: June 30, 2009

Ceg

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



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Drawn By: Todd W. Mills

Date: June 30, 2009

Title: Site Topographic Map
 Paducah Gasous Diffusion Plant
 West Paducah, Kentucky

Comments: Scale: 1:24,000
 Source: USGS 7.5' Topographic Series Heath Quadrangle

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