

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"/>																																							
10. Site address 5600 Hobbs Road				2. Well location On topographic map, <input checked="" type="checkbox"/> OR Obtained by GPS unit <input type="checkbox"/>																																							
11. City West Paducah		12. State KY		13. Zip 42053		Conditionally Required																																					
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		32. Work end date Jun 04 2009																																					
16. Owner phone		17. Site phone		Please report depths in feet below surface, not as relative elevations																																							
18. USGS topo map Heath				22. Physiographic Region																																							
19. County Mccracken				<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																																							
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 / 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																																					
27. Well completion: Casing and screens				28. Annulus fill and seal																																							
<table border="1"> <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"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>57.0</td> <td>Bentonite</td> </tr> <tr> <td>57.0</td> <td>59.0</td> <td>Bentonite pellets</td> </tr> <tr> <td>59.0</td> <td>87.42</td> <td>Sand</td> </tr> </tbody> </table>				From depth, ft.	To depth, ft.	Material	1.0	57.0	Bentonite	57.0	59.0	Bentonite pellets	59.0	87.42	Sand
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																																							
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)				30. Sketch map																																							
<table border="1"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Description (include any show of water and indicate apparent quality)</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>19.4</td> <td>Silt</td> </tr> <tr> <td>19.4</td> <td>25.5</td> <td>Gravelly Sand</td> </tr> <tr> <td>25.5</td> <td>26.0</td> <td>Clay</td> </tr> <tr> <td>26.0</td> <td>29.3</td> <td>Silt to Very Fine Sand</td> </tr> <tr> <td>29.3</td> <td>35.1</td> <td>Fine to Coarse Sand</td> </tr> <tr> <td>35.1</td> <td>36.0</td> <td>Silt</td> </tr> <tr> <td>36.0</td> <td>40.8</td> <td>Fine Sand With Gravel</td> </tr> <tr> <td>40.8</td> <td>54.6</td> <td>Fine Sand With Clay</td> </tr> <tr> <td>54.6</td> <td>59.3</td> <td>Fine Sand</td> </tr> <tr> <td>59.3</td> <td>87.5</td> <td>Sandy Gravel</td> </tr> </tbody> </table>				From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)	0.0	19.4	Silt	19.4	25.5	Gravelly Sand	25.5	26.0	Clay	26.0	29.3	Silt to Very Fine Sand	29.3	35.1	Fine to Coarse Sand	35.1	36.0	Silt	36.0	40.8	Fine Sand With Gravel	40.8	54.6	Fine Sand With Clay	54.6	59.3	Fine Sand	59.3	87.5	Sandy Gravel	<small>Show well location and distances from permanent structures, septic drain fields, major roads (include name or number) and intersections. INDICATE NORTH WITH AN ARROW.</small>						
From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)																																									
0.0	19.4	Silt																																									
19.4	25.5	Gravelly Sand																																									
25.5	26.0	Clay																																									
26.0	29.3	Silt to Very Fine Sand																																									
29.3	35.1	Fine to Coarse Sand																																									
35.1	36.0	Silt																																									
36.0	40.8	Fine Sand With Gravel																																									
40.8	54.6	Fine Sand With Clay																																									
54.6	59.3	Fine Sand																																									
59.3	87.5	Sandy Gravel																																									
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.				41. Pitless adapter installed <input type="checkbox"/> Yes <input type="checkbox"/> No																																							
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.				42. Pump installed: <input type="checkbox"/> Submersible <input type="checkbox"/> Jet <input type="checkbox"/> Turbine <input type="checkbox"/> Bailer or bucket <input type="checkbox"/> Hand <input type="checkbox"/> No pump																																							
Signature of certified driller <i>[Signature]</i>		Date signed Jun 30 2009		Latitude DMS or Decimal 37.115905		Longitude DMS or Decimal 88.810715																																					
Certification number 0344-0454-00		Drilling company Chase Environmental Group, Inc.		Date Received JUL 13 2009		Initials of reviewer																																					

JB

9cc

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 unacce
 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
19.4	25.5	Gravelly Sand
25.5	26.0	Clay
26.0	29.3	Silt to Very Fine Sand
29.3	35.1	Fine to Coarse Sand
35.1	36.0	Silt
36.0	40.8	Fine Sand With Gravel
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 Bleach
 lbs gal Hypo-chlorite

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 *[Signature]* 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

UNIFORM KENTUCKY WELL CONSTRUCTION RECORD

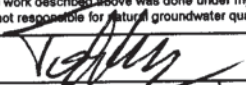
Use this form to report installation of monitoring or water wells.
 Original copy must be submitted to Division of Water within 30 days of completion.
 See instructions on reverse of form. Do not write in shaded areas.
 Record must be typed or neatly printed or it will be returned to the driller as unaccs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

Attach Well Identification Number Label Here (if applicable)

23

8002-3017

JB

4. Owner name United States Department of Energy				2. Owner Well ID # MW-421 Deep																																					
5. Owner address 5600 Hobbs Road				3. Attachments Required																																					
6. City West Paducah		7. State KY	8. Zip 42053		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 checked="" 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"/>																																				
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		31. Work start date Jun 04 2009																																				
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		32. Work end date Jun 04 2009																																					
16. Owner phone		17. Site phone		Please report depths in feet below surface, not as relative elevations																																					
18. USGS topo map Heath		22. Physiographic Region		33. Total depth (ft) 87.33																																					
19. County Mccracken		<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		34. Depth to bedrock (ft)																																					
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		35. Static water level (ft) 50.00																																					
23. Well Use		24. Drilling method		25. Well status																																					
<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 / Remed <input type="checkbox"/> Ambient Monitor <input type="checkbox"/> Mining <input type="checkbox"/> Public <input type="checkbox"/> Unused		<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 checked="" type="checkbox"/> Sonic <input type="checkbox"/> Excavation <input type="checkbox"/> Unknown <input type="checkbox"/> Combined - HS auger & air rotary		<input checked="" type="checkbox"/> Active <input type="checkbox"/> Inactive <input type="checkbox"/> Unsuitable for intended use																																					
26. Wellhead		27. Well completion: Casing and screens		28. Annulus fill and seal																																					
<input type="checkbox"/> Flush <input type="checkbox"/> Locking <input checked="" type="checkbox"/> Well cap <input type="checkbox"/> Sanitary seal		<table border="1"> <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>83.0</td> <td>8</td> <td>2</td> <td>PVC</td> <td></td> </tr> <tr> <td>83.0</td> <td>85.0</td> <td>8</td> <td>2</td> <td>PVC screen</td> <td>0.010</td> </tr> <tr> <td>85.0</td> <td>87.33</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	83.0	8	2	PVC		83.0	85.0	8	2	PVC screen	0.010	85.0	87.33	8	2	PVC		<table border="1"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Material</th> </tr> </thead> <tbody> <tr> <td>1.0</td> <td>57.0</td> <td>Bentonite</td> </tr> <tr> <td>57.0</td> <td>59.0</td> <td>Bentonite pellets</td> </tr> <tr> <td>59.0</td> <td>87.42</td> <td>Sand</td> </tr> </tbody> </table>		From depth, ft.	To depth, ft.	Material	1.0	57.0	Bentonite	57.0	59.0	Bentonite pellets	59.0	87.42	Sand
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																																					
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)		30. Sketch map																																							
<table border="1"> <thead> <tr> <th>From depth, ft.</th> <th>To depth, ft.</th> <th>Description (include any show of water and indicate apparent quality)</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>19.4</td> <td>Silt</td> </tr> <tr> <td>19.4</td> <td>25.5</td> <td>Gravelly Sand</td> </tr> <tr> <td>25.5</td> <td>26.0</td> <td>Clay</td> </tr> <tr> <td>26.0</td> <td>29.3</td> <td>Silt to Very Fine Sand</td> </tr> <tr> <td>29.3</td> <td>35.1</td> <td>Fine to Coarse Sand</td> </tr> <tr> <td>35.1</td> <td>36.0</td> <td>Silt</td> </tr> <tr> <td>36.0</td> <td>40.8</td> <td>Fine Sand With Gravel</td> </tr> <tr> <td>40.8</td> <td>54.6</td> <td>Fine Sand With Clay</td> </tr> <tr> <td>54.6</td> <td>59.3</td> <td>Fine Sand</td> </tr> <tr> <td>59.3</td> <td>87.5</td> <td>Sandy Gravel</td> </tr> </tbody> </table>		From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)	0.0	19.4	Silt	19.4	25.5	Gravelly Sand	25.5	26.0	Clay	26.0	29.3	Silt to Very Fine Sand	29.3	35.1	Fine to Coarse Sand	35.1	36.0	Silt	36.0	40.8	Fine Sand With Gravel	40.8	54.6	Fine Sand With Clay	54.6	59.3	Fine Sand	59.3	87.5	Sandy Gravel	Show well location and distances from permanent structures, septic drain fields, major roads (include name or number) and intersections. INDICATE NORTH WITH AN ARROW.						
From depth, ft.	To depth, ft.	Description (include any show of water and indicate apparent quality)																																							
0.0	19.4	Silt																																							
19.4	25.5	Gravelly Sand																																							
25.5	26.0	Clay																																							
26.0	29.3	Silt to Very Fine Sand																																							
29.3	35.1	Fine to Coarse Sand																																							
35.1	36.0	Silt																																							
36.0	40.8	Fine Sand With Gravel																																							
40.8	54.6	Fine Sand With Clay																																							
54.6	59.3	Fine Sand																																							
59.3	87.5	Sandy Gravel																																							
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		Date Received																																					
		Jun 30 2009		JUL 13 2009																																					
Certification number 0344-0454-00		Drilling company Chase Environmental Group, Inc.																																							
Initials of reviewer																																									

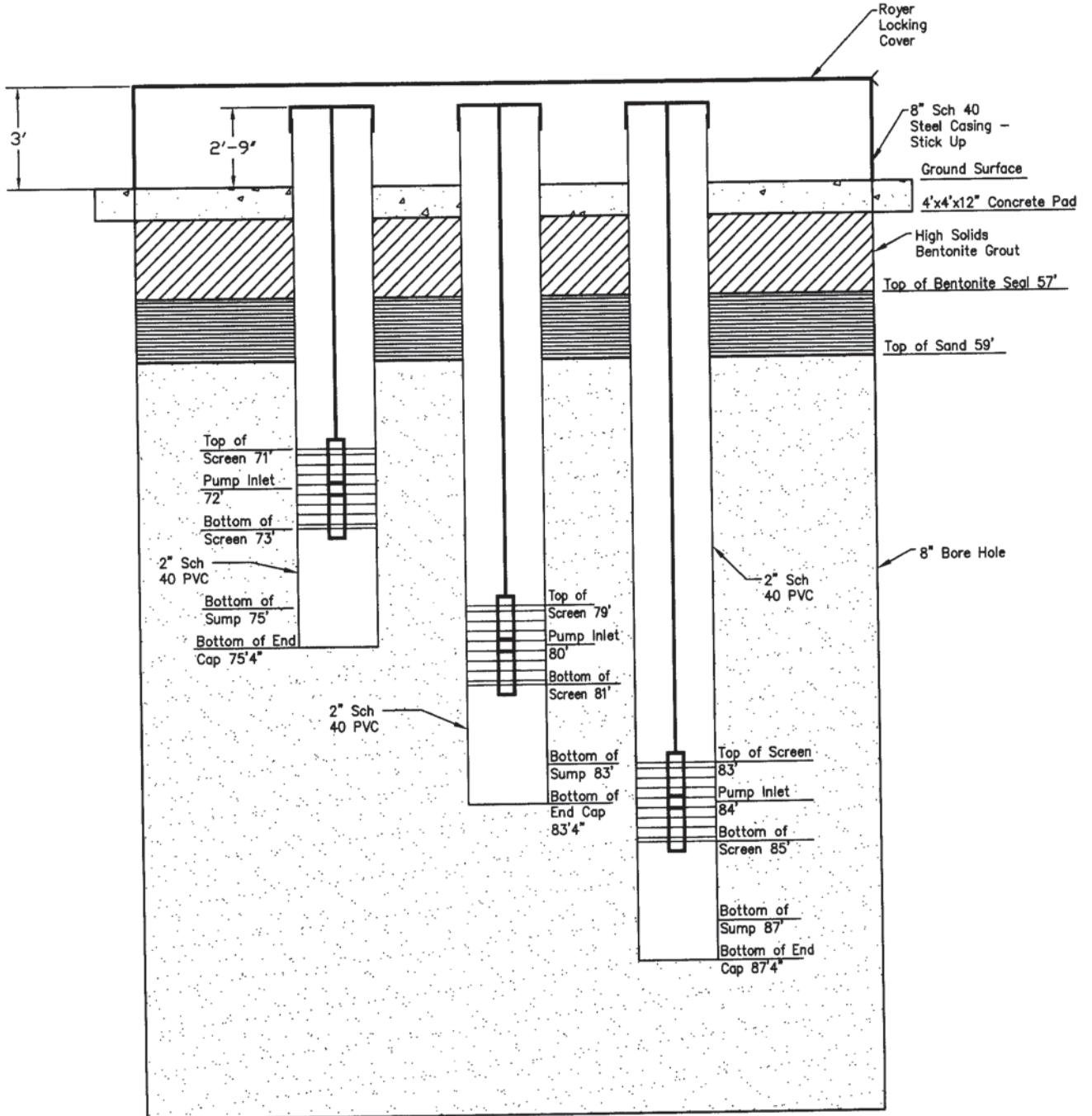
JB

see

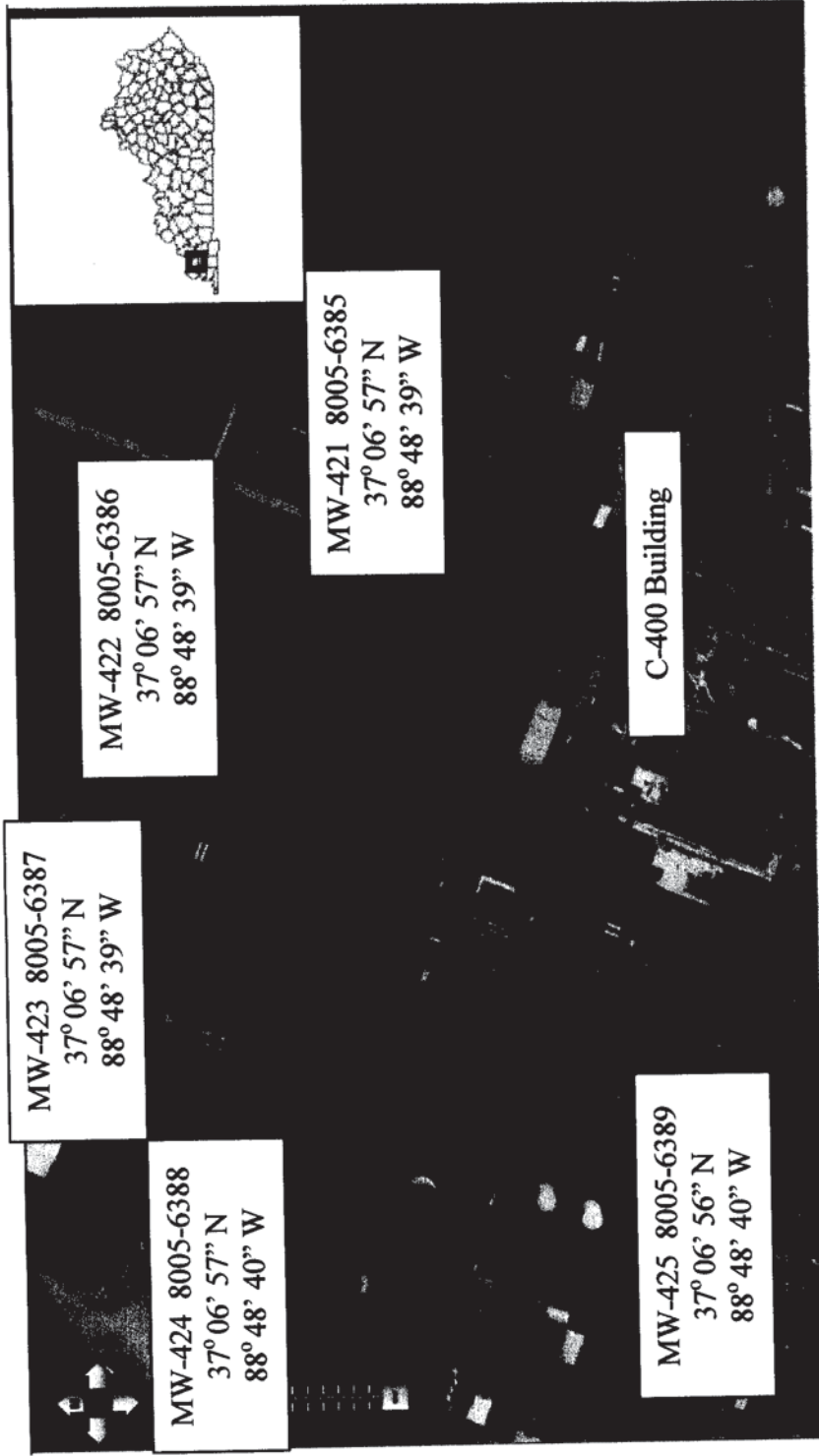
MONITORING WELL CONSTRUCTION LOG

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

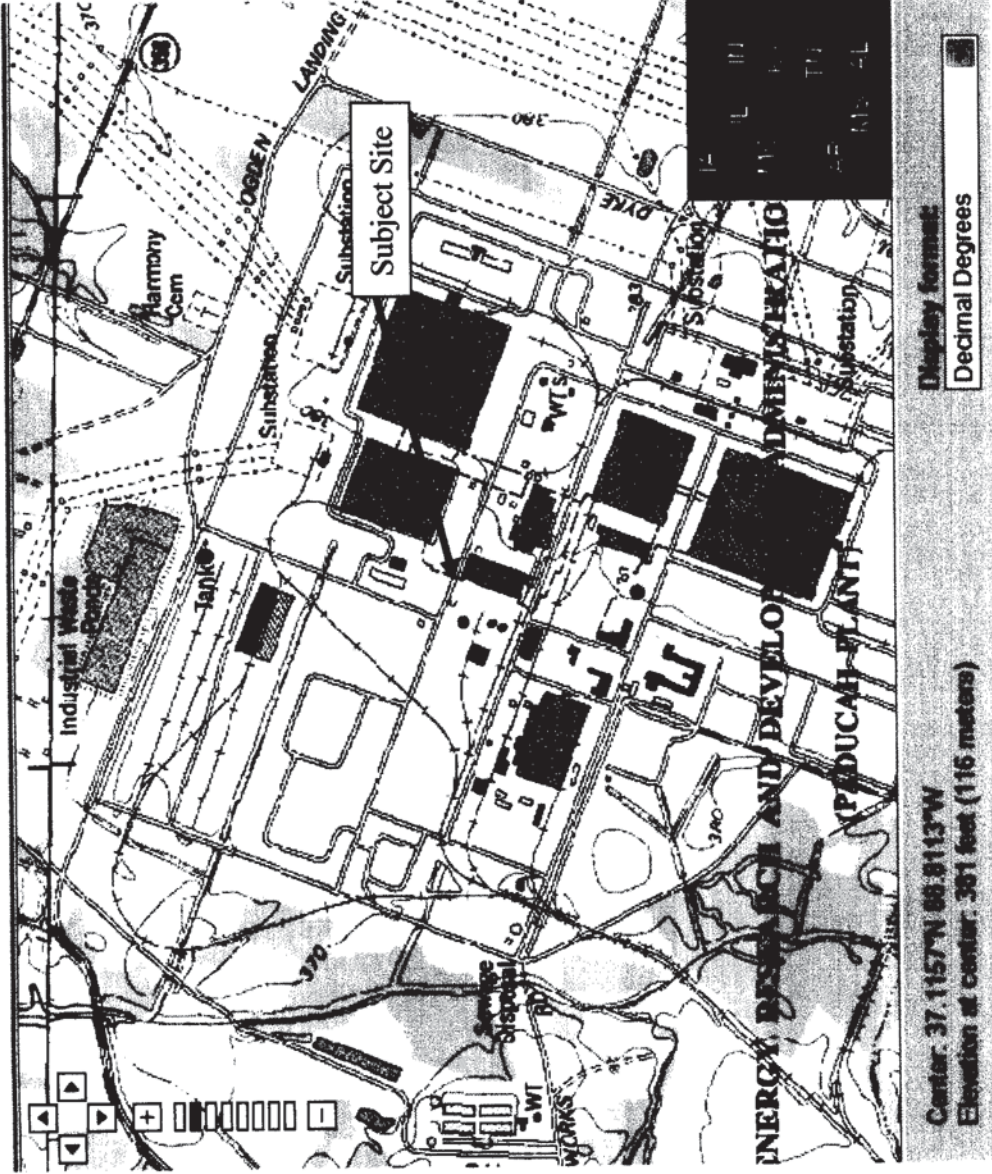
State Assigned # 8005-6385
Facility Assigned # MW-421



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						



<p>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 Aerial Photograph Paducah Gaseous Diffusion Plant – C-400 Building 5600 Hobbs Road, West Paducah, KY</p>
<p>Comments: Approximate Scale: 1" = 150' Coordinates taken from Google Earth</p>	



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

Drawn By: Todd W. Mills

Date: June 30, 2009

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

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

8
 9