

# LOG of BORING No. B-5-04-8

DATE 6/3/04 SURFACE ELEVATION, FT 441.5 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50				Becomes gray										
					388.5									
	9		61	Dense, wet, gray, fine to medium grained SAND (SP)	53.0									
	15													
	18													
55														
	5		61	Becomes fine grained										
	11													
	22													
60				Bottom of boring at 60'	60.0									
65														
70														

Completion Depth: 60.0 Ft. Water Depth: 9 ft., After ATD hrs.  
 Project No.: 21561435.00000 \_\_\_\_\_ ft., After \_\_\_\_\_ hrs.  
 Project Name: Dydney Wood River \_\_\_\_\_ ft., After \_\_\_\_\_ hrs.  
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

# Appendix C

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## Boring and Well Completion Reports: 2004 Hydrogeologic Investigation

- C-1: Boring/Well Construction Logs for 2004 Hydrogeologic Investigation
- C-2: IEPA Well Completion Reports

C-1: Boring/Well Construction Logs for 2004  
Hydrogeologic Investigation

New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.  
Location: Twp 5N, Rng 9W, 20 SE/SW/SW

Date Started/Finished : 6/25/2004  
Hole Diameter : 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 448.29  
Top of Casing Elevation 450.84  
X,Y Coordinates : 509914, 800602

Depth in Feet	DESCRIPTION	Surf. Elev. 448.29	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC	Well: L4 Elev.: 450.84 Cover
0	FLYASH with intermittent layers of bottom ash	448						Concrete	
5	SEE BORING LOG OF MONITORING WELL MW41 FOR FULL DESCRIPTION OF LITHOLOGY	443						Bentonite Chips Riser (Sch 40 PVC)	
10		438							
15		433					FL		
20		428						Filter Pack 16x40	
25		423						Screen (Sch 40 PVC)	
30	END BOREHOLE AT 28 FEET BLS							Bottom Cap	

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**KELRON  
Environmental**

**LOG OF BORING MW37**

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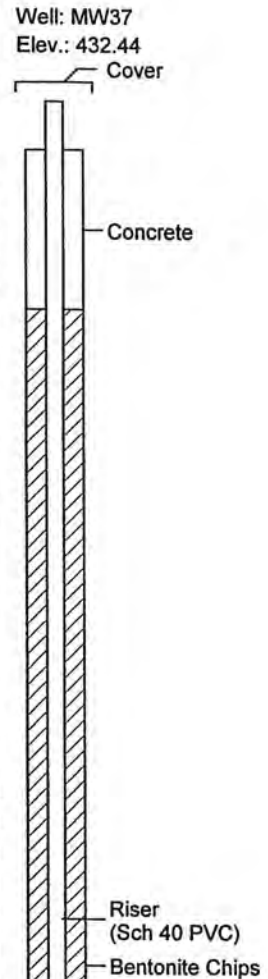
New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/10/2004  
Hole Diameter : 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 429.29  
Top of Casing Elevation 432.44  
X,Y Coordinates : 510008, 803263

Location: Twp 5N, Rng 9W, 20 NE/SW/NW

Depth in Feet	DESCRIPTION	Surf. Elev. 429.29	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC
0	Silty CLAY, trace fine sand and gravel, roots; non-plastic, brown, moist (FILL) - brown-gray	429	1	19	3	2.25		
2	- low plasticity, mottled w/ red-brown Fe-oxidation	427			5		CL	
4	- little fine sand, trace fine gravel	425			6			
	SAND, fine, poorly graded, light gray (FILL)		3	20	3	2.0	SP	
6	Silty CLAY, little sand, trace gravel; low plasticity, light brown-gray (FILL) - trace wood, medium plasticity	423			5			
			4	17	2	1.5	CL	
8	Clayey SAND with silt, fine, poorly graded; medium gray (FILL)	421			4			
			5	17	2	1.25	SC	
10	Silty CLAY, trace fine sand and gravel; medium plasticity, tan to brown-gray (FILL)	419			3			
			6	19	4	3.25	CL	
12	SAND, trace silt and clay, fine grained, poorly graded, brown (FILL) - 1/2-inch shard of porcelain at 11.17 feet BLS	417			8			
			7	22	5	1.25	SP	
	Sandy SILT, some clay, low plasticity (FILL)				3		ML	
14	Silty CLAY, little sand; low plasticity, brown-gray - medium plasticity, medium brown w/ red-brown Fe-oxidation mottling, wet - low plasticity, light gray, moist	415			4			
	CLAY, medium to high plasticity, light brown-gray		8	24	0	0.75	CL	
16					2			
					3		ML	

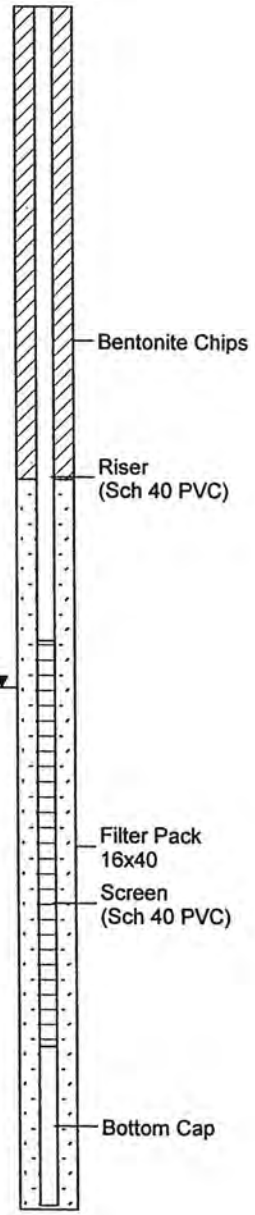


New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.  
Location: Twp 5N, Rng 9W, 20 NE/SW/NW

Date Started/Finished : 6/10/2004  
Hole Diameter : 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 429.29  
Top of Casing Elevation 432.44  
X,Y Coordinates : 510008, 803263

Depth in Feet	DESCRIPTION	Surf. Elev. 429.29	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC	Well: MW37 Elev.: 432.44	
									Bentonite Chips	Bottom Cap
16	Clayey SILT, non-plastic, light brown - little sand, medium gray, wet	413	9	20	1	0.75	ML			
18	CLAY with silt, high plasticity, medium gray, wet  - moist	411	10	24	1	0.75	CH			
20		409			2					
22	SAND, fine to medium, well graded, brown, wet	407	11	18	4	0.75	SW			
24		405			7					
26		403			8					
28	SAND, fine, poorly graded	401	12	19	2					
30		399	13	18	3					
32	END BOREHOLE AT 31 FEET BLS		14	24	6					
			15	24	7					



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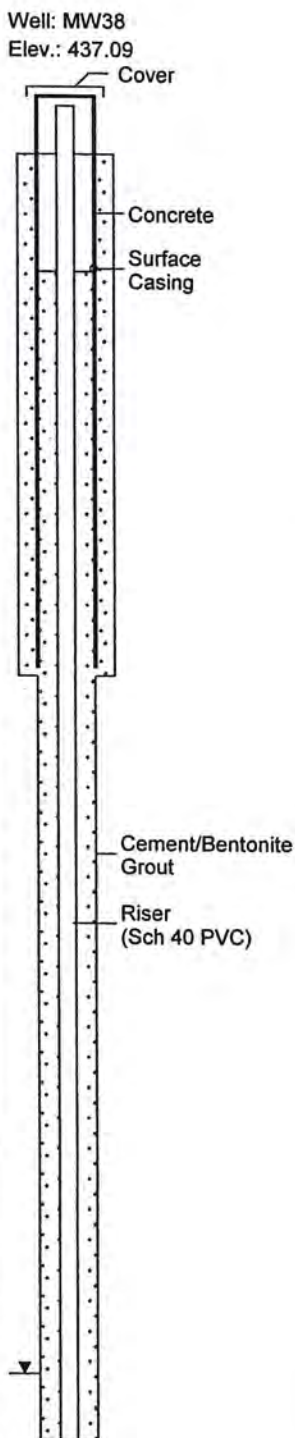
New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynergy Midwest Generation, Inc.

Date Started/Finished : 6/18 - 6/24/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 434.49  
Top of Casing Elevation 437.09  
X,Y Coordinates : 510770, 802284

Location: Twp 5N, Rng 9W, 20 NW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 434.49	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC	Well: MW38 Elev.: 437.09			
									Cover	Concrete		
0	Silty CLAY, with sand, roots, brown, moist FLYASH, trace coal, light gray, wet	434	1	24	2 1 1 1 2	0.75	FL	[Cross-hatched pattern]	Concrete	Surface Casing		
5	Note: Surface Casing = 10.75-inch O.D. PVC installed to 10 feet below grade.	429	2	19	0 0 0 0 0	<0.5	FL	[Cross-hatched pattern]				
10	Silty CLAY, with few wood, roots, organics; low plasticity, dark gray with black mottling, wet - no roots or wood, light-medium gray, moist - trace sand and gravel, few wood, olive gray	424	3	24	0 0 0	<0.5	CL	[Diagonal lines pattern]				
15	Silty CLAY; high plasticity, medium gray, wet	419	4	18	0 0 0 1	<0.5	CH	[Diagonal lines pattern]	Cement/Bentonite Grout	Riser (Sch 40 PVC)		
20	Silty SAND, with clay, fine sand; medium brown to gray	414	5	24	0 0 0 3 8 8	1.75	SM	[Dotted pattern]				
25	SILT to Sandy SILT, fine sand; light gray		7	24	2		MI	[Dotted pattern]				
	Silty CLAY, trace fine sand; light gray w/ brown mottling				2		2	2.0	CL	[Diagonal lines pattern]		
	Silty SAND, fine; poorly graded, light brown				2		2		SM	[Dotted pattern]		
	SAND, fine; poorly graded, medium brown grading to medium gray		8	18	0 0 0	0.75	SP CL	[Dotted pattern] [Diagonal lines pattern]				



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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/18 - 6/24/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 434.49  
Top of Casing Elevation 437.09  
X,Y Coordinates : 510770, 802284

Location: Twp 5N, Rng 9W, 20 NW/NE/SW

Well: MW38  
Elev.: 437.09

Depth in Feet	DESCRIPTION	Surf. Elev. 434.49	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC
25	Silty CLAY, with silt and fine sand; low to medium plasticity, medium gray, moist to wet	409					CL	<p>Cement/Bentonite Grout</p> <p>Riser (Sch 40 PVC)</p>
	SAND, fine; poorly graded, medium gray, wet		9	21	0	1.5	SP	
	CLAY, fat, high plasticity, medium gray, moist				1			
30		404			2			
	- olive gray		10	24	2	1.0		
	- trace shells (1/2-inch intact shell at 34.58 feet)				2			
35		399			3			
	- no shells		11	24	0	1.0	CH	
40		394			0			
			12	24	0	1.0		
45		389			0			
			13	23	0	1.0		
50					0			

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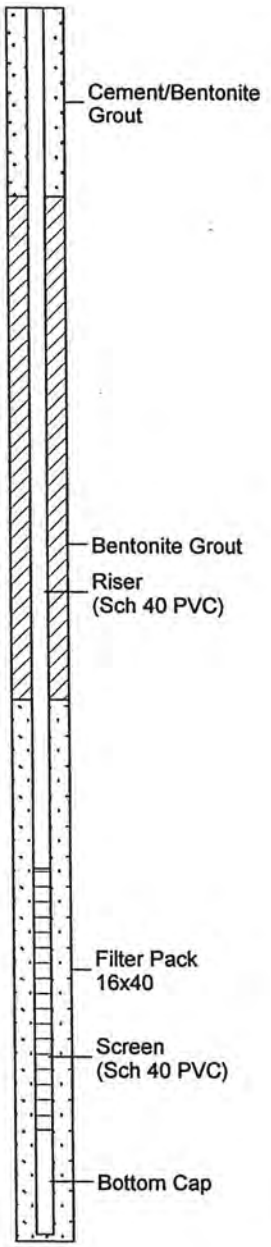


New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.  
Location: Twp 5N, Rng 9W, 20 NW/NE/SW

Date Started/Finished : 6/18 - 6/24/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow-Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 434.49  
Top of Casing Elevation 437.09  
X,Y Coordinates : 510770, 802284

Depth in Feet	DESCRIPTION	Surf. Elev. 434.49	Samples	Recovery inches	Blow Count	Qp TSP	USCS	GRAPHIC	Well: MW38 Elev.: 437.09	
50	- dark gray grading to light gray	384	14	24	0 0 0 2	1.25				
55	- olive gray	379	15	24	0 0 1 2	1.25	CH			
60	SAND, fine to medium; well graded, dark gray, wet	374								
65	- trace coarse sand	369	16 17	2 17	6 10 11 12		SW			
70	- fine to coarse sand, trace fine gravel, medium gray	364	18	9	10 12 12 14					
75	END BOREHOLE AT 74 FEET BLS									














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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/14 - 6/15/2004  
Hole Diameter : 8.5 / 3.875 inch  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.3  
X,Y Coordinates : 510737, 801409

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.3	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC
0	Silty CLAY, trace gravel, roots, dk brown, moist	437	1	24	5	1.25	FL	
	FLYASH, trace coal, light to medium gray, moist - dark gray, wet							
	NO WELL INSTALLED SEE BORING LOGS FOR NESTED WELLS MW39S AND MW39M FOR WELL DIAGRAM AND CONSTRUCTION							
5	- moist	432	2	6	1	<0.5	FL	
	- wet							
	Silty CLAY, medium plasticity, light brown, moist	427	3	18	0	1.0	FL	
	CLAY, trace roots, light to medium gray with orange-brown mottling - dark gray							
	- 1/2 inch sandy clay seams at 12.42 and 13.25 feet	422	4	8	1	<0.5	CL	
	Silty CLAY, dark gray							
10	Clayey SAND (fine), poorly graded, moist	427	5	18	2	<0.5	SC	
	Silty CLAY, high plasticity, dark gray; 1/2 inch sand seam at 14.63 feet							
	Silty CLAY, high plasticity, dark gray; 1/2 inch sand seam at 14.63 feet	422	6	24	4	3.0	CL	
	Clayey SAND (fine) with silt, poorly graded, medium gray							
	Silty CLAY w/ few wood (maximum size 3 by 10 mm), high organics, high plasticity, dark gray, moist	417	7	24	3	1.25	CH	
	- olive gray							
	- with orange-brown mottling	417	8	17	2	1.0	SC	
	Silty CLAY w/ few wood (maximum size 3 by 10 mm), high organics, high plasticity, dark gray, moist							
	- olive gray	417	9	13	2	1.5	CH	
	- with orange-brown mottling							
20	Sandy CLAY	417	10	21	2	1.5	CH	
	Sandy CLAY							
	SAND (fine) with silt, medium gray, wet	417	11	22	3	2.5	SP-SM	
	- light brown							
	- light gray	417	12	20	3	2.5	SP-SM	
	- light gray							
25			13	19	4			

New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/14 - 6/15/2004  
Hole Diameter : 8.5 / 3.875 inch  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.3  
X,Y Coordinates : 510737, 801409

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.3	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC	
25	Silty CLAY, trace leaves and wood, trace shells (<2 mm), high plasticity, olive gray, moist	412	13	19	8	1.0	SP-SM		
			14	20	9				
30	Clayey SILT grading to SILT, trace fine sand, trace shells (<2 mm), light brown, wet	407	15	24	2	1.25	CH		
				16	15				0
35	SAND (fine to medium), trace fine gravel, well graded, wet	402	17	17	4	0.75	ML		
	SAND (fine), few silt, poorly graded, medium gray, wet		18	15	6				
40	SAND (fine to medium), trace coarse, well graded	397	19	20	8	1.0	SP		
				20	19				6
				21	17				10
				22	14				6
45	SAND (fine to medium), trace coarse, well graded	392			11	1.0	SW		
					13				
					15				
50			23	15	15				

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LOG OF BORING MW39

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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/14 - 6/15/2004  
Hole Diameter : 8.5 / 3.875 inch  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.3  
X,Y Coordinates : 510737, 801409

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.3	Samples	Recovery Inches	Blow Count	Qp TSF	USCS	GRAPHIC
50	SAND (fine to medium, trace coarse), well graded	387	24	17	9 20 45 52			
55		382						
60		377					SW	
65	- fine to coarse, trace fine gravel, light gray	372	25	13	6 10 11 11			
70		367	26	16	5 7 11 15			
75			27	14	8 12 15 20			

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Environmental

LOG OF BORING MW39

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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/14 - 6/15/2004  
Hole Diameter : 8.5 / 3.875 inch  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.3  
X,Y Coordinates : 510737, 801409

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.3	Samples	Recovery inches	Blow Count	Qp TSF	USCS	GRAPHIC
75	SAND (fine to medium, trace coarse), well graded	362						
80		357	28	16	9 20 22 24			
85		352					SW	
90		347	29	17	9 16 19 27			
95		342						
100								

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Dynegy Midwest Generation, Inc.

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Hole Diameter : 8.5 / 3.875 inch  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.3  
X,Y Coordinates : 510737, 801409

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.3	Samples	Recovery inches	Blow Count	Qp TSP	USCS	GRAPHIC
100		337					SW	
	Sandy SILT, fine to coarse sand, trace fine gravel, light gray, moist SILT, trace fine sand and gravel, light gray, moist		30	24	15 25 21 27	2.25		
105		332					ML	
110		327						
	Silty CLAY, trace sand and fine gravel (subangular to rounded), larger clasts are limestone and quartz, very hard, moist. Diamicton.							
115		322					CL	
120		317						
			31	24	12 22 29 38	>4.5		
125	END BOREHOLE AT 124 FEET BLS							

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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/17/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.28  
Top of Casing Elevation 440.03  
X,Y Coordinates : 510738, 801412

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.28	Samples	Recovery inches	USCS	GRAPHIC
0	Silty CLAY, trace gravel, roots, dk brown, moist	437			FL	<p>Well: MW39M Elev.: 440.03</p> <p>Cover</p> <p>Concrete</p> <p>Surface Casing</p> <p>Bentonite Grout</p> <p>Riser (Sch 40 PVC)</p>
	FLYASH, trace coal, light to medium gray, moist		1	24		
	- dark gray, wet					
	WELL MW39M BLIND DRILLED BASED ON ADJACENT BORING MW39. SEE BORING MW39 FOR FULL LOG.		2	6		
5	- moist	432	3	18	FL	
	Note: Surface Casing = 10.75-inch O.D. PVC installed to 10.0 feet below grade.		4	8		
	- wet					
10	Silty CLAY, medium plasticity, light brown, moist		5	18		
	CLAY, trace roots, light to medium gray with orange-brown mottling	427	6	24	CL	
	- dark gray		7	24		
	- 1/2 inch sandy clay seams at 12.42 and 13.25 feet					
	Silty CLAY, dark gray					
15	Clayey SAND (fine), poorly graded, moist		8	17	SC	
	Silty CLAY, high plasticity, dark gray; 1/2 inch sand seam at 14.63 feet	422			CH	
	Clayey SAND (fine) with silt, poorly graded, medium gray				SC	
	Silty CLAY w/ few wood (maximum size 3 by 10 mm), high organics, high plasticity, dark gray, moist		9	13		
	- olive gray		10	21	CH	
20	- with orange-brown mottling	417	11	22		
	Sandy CLAY		12	20		
25	SAND (fine) with silt, medium gray, wet		13	19	SP-SM	
	- light brown					
	- light gray					

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Wood River Power Station  
Dynegy Midwest Generation, Inc.

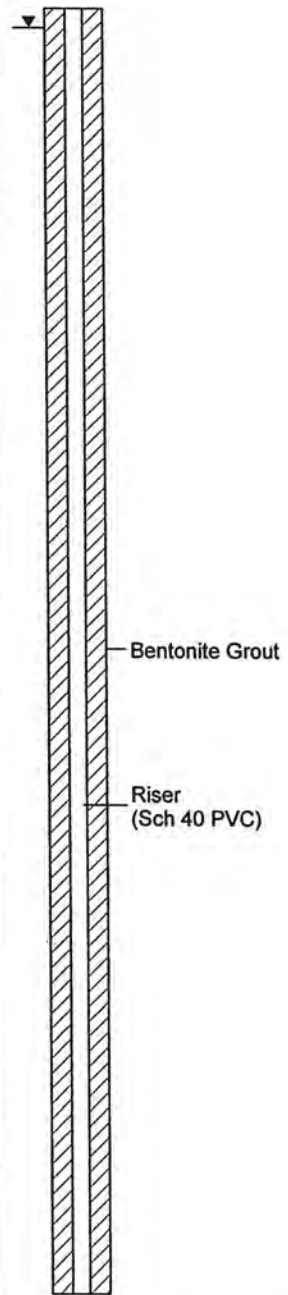
Date Started/Finished : 6/17/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.28  
Top of Casing Elevation 440.03  
X,Y Coordinates : 510738, 801412

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Well: MW39M  
Elev.: 440.03

Depth in Feet	DESCRIPTION	Surf. Elev. 437.28	Samples	Recovery Inches	USCS	GRAPHIC
25		412	13	19	SP-SM	
	Silty CLAY, trace leaves and wood, trace shells (<2 mm), high plasticity, olive gray, moist		14	20	CH	
			15	24		
30	Clayey SILT grading to SILT, trace fine sand, trace shells (<2 mm), light brown, wet	407	16	15	ML	
			17	17	SW	
	SAND (fine to medium), trace fine gravel, well graded, wet		18	15		
35	SAND (fine), few silt, poorly graded, medium gray, wet	402	19	20		
			20	19		
40		397	21	17	SP	
			22	14		
45		392				
			23	15	SW	
50	SAND (fine to medium, trace coarse), well graded					



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KELRON  
Environmental

LOG OF BORING MW39M

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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

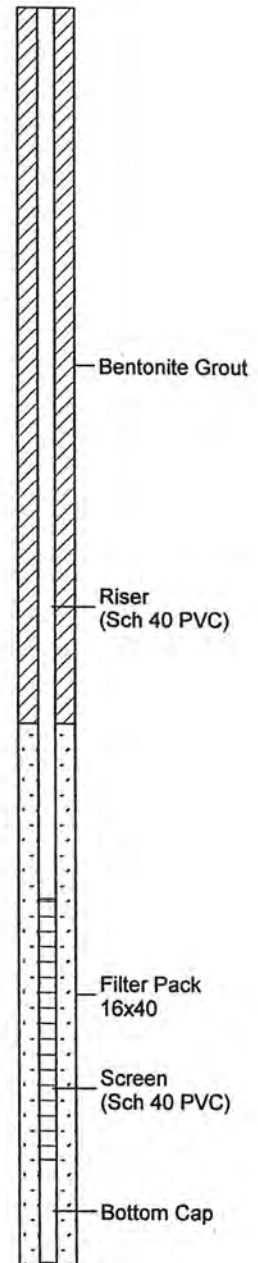
Date Started/Finished : 6/17/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.28  
Top of Casing Elevation 440.03  
X,Y Coordinates : 510738, 801412

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.28	Samples	Recovery inches	USCS	GRAPHIC
50		387	24	17		
55		382				
60		377	25	13	SW	
65	- fine to coarse, trace fine gravel, light gray	372	26	16		
70		367	27	14		
75	END BOREHOLE AT 74.5 FEET BLS					

Well: MW39M  
Elev.: 440.03



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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynergy Midwest Generation, Inc.

Date Started/Finished : 6/18/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.33  
Top of Casing Elevation 440.08  
X,Y Coordinates : 510737, 801406

Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 437.33	Samples	Recovery inches	USCS	GRAPHIC
0	Silty CLAY, trace gravel, roots, dk brown, moist FLYASH, trace coal, light to medium gray, moist - dark gray, wet	437	1	24	FL	<p>Well: MW39S Elev.: 440.08</p> <p>Cover</p> <p>Concrete</p> <p>Surface Casing</p> <p>Bentonite Grout</p> <p>Riser (Sch 40 PVC)</p>
	WELL MW39S BLIND DRILLED BASED ON ADJACENT BORING MW39. SEE BORING MW39 FOR FULL LOG.		2	6	FL	
5	- moist	432	3	18	FL	
	Note: Surface Casing = 10.75-inch O.D. PVC installed to 10.0 feet below grade.		4	8		
	- wet		5	18		
10	Silty CLAY, medium plasticity, light brown, moist CLAY, trace roots, light to medium gray with orange-brown mottling - dark gray	427	6	24	CL	
	- 1/2 inch sandy clay seams at 12.42 and 13.25 feet		7	24		
	Silty CLAY, dark gray		8	17	SC CH SC	
15	Clayey SAND (fine), poorly graded, moist Silty CLAY, high plasticity, dark gray; 1/2 inch sand seam at 14.63 feet	422	9	13		
	Clayey SAND (fine) with silt, poorly graded, medium gray		10	21	CH	
	Silty CLAY w/ few wood (maximum size 3 by 10 mm), high organics, high plasticity, dark gray, moist		11	22		
20	- olive gray	417	12	20		
	- with orange-brown mottling		13	19	SP-SM	
	Sandy CLAY					
25	SAND (fine) with silt, medium gray, wet - light brown - light gray					

New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.  
Location: Twp 5N, Rng 9W, 20 SW/NE/SW

Date Started/Finished : 6/18/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem / Rotary  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 437.33  
Top of Casing Elevation 440.08  
X,Y Coordinates : 510737, 801406

Depth in Feet	DESCRIPTION	Surf. Elev. 437.33	Samples	Recovery inches	USCS	GRAPHIC	Well: MW39S Elev.: 440.08
25		412	13	19	SP-SM		<p>Bentonite Grout</p> <p>Riser (Sch 40 PVC)</p> <p>Filter Pack 16x40</p> <p>Screen (Sch 40 PVC)</p> <p>Bottom Cap</p>
	Silty CLAY, trace leaves and wood, trace shells (<2 mm), high plasticity, olive gray, moist		14	20	CH		
30	Clayey SILT grading to SILT, trace fine sand, trace shells (<2 mm), light brown, wet	407	15	24	ML		
	SAND (fine to medium), trace fine gravel, well graded, wet		16	15	ML		
35	SAND (fine), few silt, poorly graded, medium gray, wet	402	17	17	SW		
			18	15	SP		
40		397	19	20	SP		
			20	19	SP		
			21	17	SP		
			22	14	SP		
	END BOREHOLE AT 43.4 FEET BLS						
45		- 392					
50							

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**KELRON  
Environmental**

**LOG OF BORING MW40M**

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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/10 - 6/14/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 441.05  
Top of Casing Elevation 444.20  
X,Y Coordinates : 510477, 800633

Location: Twp 5N, Rng 9W, 20 SE/SW/SW

Depth  
in  
Feet

**DESCRIPTION**

Surf.  
Elev.  
441.05

Samples

Recovery  
inches

Qp  
TSF

Blow  
Count

USCS

GRAPHIC

Well: MW40M  
Elev.: 444.20

Cover

Concrete

Surface  
Casing

Riser  
(Sch 40 PVC)

Cement  
Bentonite  
Grout

0 FILL - Gravel (coarse), sand, clay, brown, dry

441

1

21

0.5

7

FL

FLYASH, trace coal, medium to dark gray, moist

2

18

0.5

8

FL

- wet

- moist

- bottom ash with flyash seams

- flyash

- bottom ash with trace coal, moist to wet

3

22

1.0

9

FL

4

22

1.5

10

FL

5

24

1.75

11

FL

- flyash, wet

Note: Surface Casing = 10.75 inch O.D.  
PVC installed to 14.5 feet below grade.

6

24

<0.5

12

FL

7

24

2.0

13

FL

Silty CLAY, few roots, low to medium plasticity,  
dark gray, moist

8

21

>4.5

14

FL

SILT, dark gray, wet

SAND (fine to medium) with clay, well graded,  
brown, moist

Silty CLAY, low plasticity, light gray, moist

SAND (fine to medium) with clay, trace fine gravel,  
well graded, light brown, moist

9

18

15

FL

10

18

16

FL

SAND (fine), poorly graded

11

19

17

FL

- fine to coarse, well graded

- fine, poorly graded

12

20

18

FL

25

19

FL

20

FL

21

FL

22

FL

23

FL

24

FL

25

FL

26

FL

27

FL

28

FL

29

FL

30

FL

31

FL

New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.  
  
Location: Twp 5N, Rng 9W, 20 SE/SW/SW

Date Started/Finished : 6/10 - 6/14/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 441.05  
Top of Casing Elevation 444.20  
X,Y Coordinates : 510477, 800633

Depth in Feet	DESCRIPTION	Surf. Elev. 441.05	Samples	Recovery inches	Qp TSF	Blow Count	USCS	GRAPHIC	Well: MW40M Elev.: 444.20
25		416					SP		
30	- fine to medium, well graded, wet	411	13	19		2 9 19 18	SW		
35	CLAY, Clayey SILT, and Silty CLAY in alternating layers		14	22	0.75	1 1 2 2 0 0	CH-ML		Cement Bentonite Grout
35	- Clayey SILT at 34.75 to 35 feet has trace roots, black organics, non-plastic, olive gray	406	15	21	1.0	1 1 2 3			
	SAND (fine), poorly graded, olive gray, wet		16	23		0 2 4 0	SP		Riser (Sch 40 PVC)
	Silty CLAY, non to high plasticity, olive gray, moist		17	24	1.0	1 1	CL		
40	SAND (fine to medium), trace coarse sand, well graded, olive gray, wet	401				8	SW		
	SAND (fine), poorly graded		18	24	0.75	0 1 2	SP		
	Silty CLAY, high plasticity, moist					4	CH		
	SAND (fine), poorly graded, medium gray, wet		19	24		0 3 4 6	SP		
45	CLAY with silt, high plasticity, olive gray, moist	396	20	24		1 1 2 3			Bentonite Grout
			21	14	1.0	1 1 2 4 0	CL		
			22	0		1 3			
50						5	SW		


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New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynergy Midwest Generation, Inc.

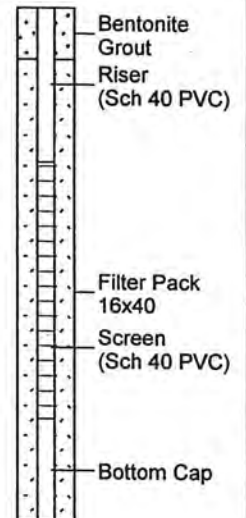
Date Started/Finished : 6/10 - 6/14/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 441.05  
Top of Casing Elevation 444.20  
X,Y Coordinates : 510477, 800633

Location: Twp 5N, Rng 9W, 20 SE/SW/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 441.05	Samples	Recovery inches	Qp TSF	Blow Count	USCS	GRAPHIC
50	SAND (fine to medium), well graded, dark gray, wet	391	23	5		3 4 6 6	SW	
55			24	15		1 5 13 23		
60			25	13		3 6 18 23		
60	END BOREHOLE AT 60.0 FEET BLS	381						
65		- 376						
70		- 371						
75								

Well: MW40M  
Elev.: 444.20



New East Ash Pond Hydrogeologic Investigation  
Wood River Power Station  
Dynegy Midwest Generation, Inc.

Date Started/Finished : 6/18 - 6/21/2004  
Hole Diameter : 12.5 / 8.5 inches  
Drilling Method : Hollow Stem  
Sampling Method : Split-Spoon  
Drilling Company : Harriss Drilling Services, Inc.

Driller : John McMullan  
Geologist : Stuart Cravens (Kelron)  
Land Surface Elevation: 441.25  
Top of Casing Elevation 444.55  
X,Y Coordinates : 510473, 800637

Location: Twp 5N, Rng 9W, 20 SE/SW/SW

Depth in Feet	DESCRIPTION	Surf. Elev. 441.25	Samples	Recovery Inches	USCS	GRAPHIC
0	FILL - Gravel (coarse), sand, clay, brown, dry	441	1	21	FL	<p>Well: MW40S Elev.: 444.55</p> <p>Cover</p> <p>Concrete</p> <p>Surface Casing</p> <p>Riser (Sch 40 PVC)</p> <p>Cement Bentonite Grout</p> <p>Bentonite Grout</p>
	FLYASH, trace coal, medium to dark gray, moist		2	18		
	WELL MW40S DRILLED BASED ON ADJACENT BORING MW40M. SEE BORING MW40M FOR FULL LOG.					
5	- wet	436	3	22		
	- moist					
	- bottom ash with flyash seams					
	- flyash		4	22	FL	
	- bottom ash with trace coal, moist to wet					
10	- flyash, wet	431	5	24		
	Note: Surface Casing = 10.75-inch O.D. PVC installed to 15.2 feet below grade.		6	24		
			7	24		
15	Silty CLAY, few roots, low to medium plasticity, dark gray, moist				CL	
	SILT, dark gray, wet		8	21	ML SW CL	
	SAND (fine to medium) with clay, well graded, brown, moist	426				
	Silty CLAY, low plasticity, light gray, moist					
	SAND (fine to medium) with clay, trace fine gravel, well graded, light brown, moist		9	18	SW	
			10	18		
20	SAND (fine), poorly graded	421				
			11	19	SP	
	- fine to coarse, well graded					
	- fine, poorly graded		12	20	SW	
					SP	
25						

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