



Former Ash Pond at Powerton
Frendt, Richard to: Race, Maria

08/09/2012 05:14 PM

Maria:

I am attaching a boring location plan, and the relevant boring logs for the geotechnical work that was done in the vicinity of the former ash pond at Powerton. Overall, it was essentially what I remembered, with ash being found up to around 10 feet thick in places (though not everywhere). Hope this is helpful

Regards,
Rick

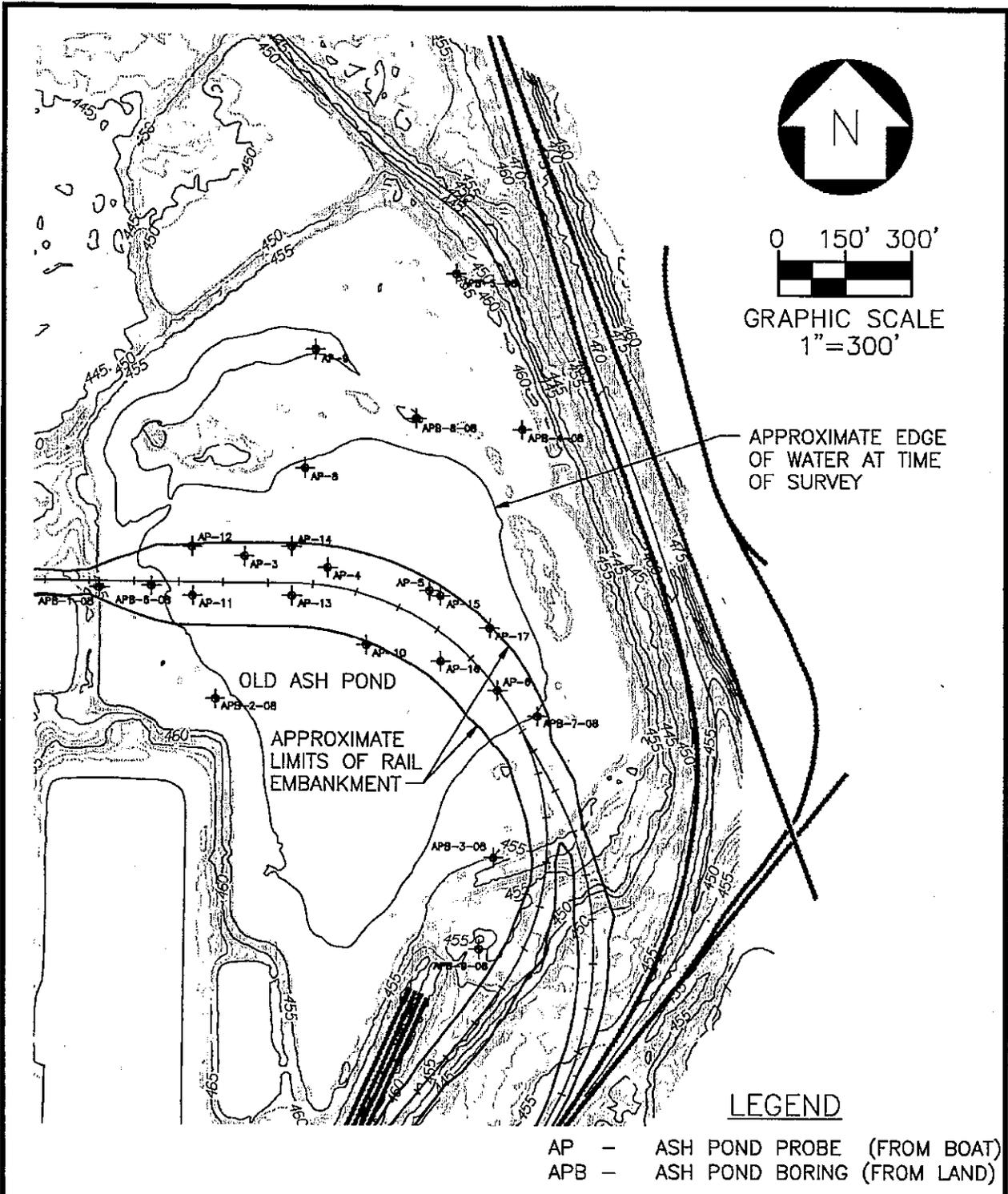
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Old Ash Pond - Location plan and borings.pdf

COMP. EX. 31

MWG13-15_14225



Lisle\Midwest Generation\21253.022-Powerton-Ash Pond Services-2012\Old Ash Pond Borings\21253.022-Borings

Date: 08/09/12	MIDWEST GENERATION LLC OLD ASH POND BORINGS	 4670 Vandy Drive Lisle, Illinois 60532-4101 TEL: (630) 785-7300 FAX: (630) 724-1861 PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000408
Proj No.: 21253.022		
App. By: MDB	POWERTON STATION PEKIN, ILLINOIS	

PATRICK ENGINEERING INC.

BORING NUMBER **AP-3**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

SHEET **1 OF 2**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
						Unconfined Compressive Strength (TSF) *						
						1	2	3	4	5		
444.0	0.0		Water									Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
435.5	8.5											
434.8	9.3		Dark brown/black organic silt, very soft, saturated, sediment									
			Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders									
432.8	11.3		Dark gray silty clay, trace roots, medium stiff, medium plasticity, saturated									
			Soft									
			Medium stiff									
												S.G.=3.01 at 11.6'

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelpamp**
 DRILLING STARTED **7/23/08** ENDED **7/23/08**

REMARKS

WATER LEVEL (ft.)

▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-3** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF)			LL	
						1	2	3	4	5	
424.0	20.0		Silt and clay, medium stiff								LL=42 PL=20
421.0	23.0		Hand Auger Refusal at 23.0'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **7/23/08** ENDED **7/23/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-4** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	LL	Unconfined Compressive Strength (TSF) *			
						1	2	3	4	5	
444.0	0.0		Water								Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
434.0	10.0		Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders SP								
425.0 424.5	19.0 19.5		Dark gray/black silty clay, trace roots, soft CL End of Boring at 19.5'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelpamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)
 ∇ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-5** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
						1	2	3	4	5	
444.0	0.0		Water								Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
434.8	9.3	[Cross-hatched pattern]	Gray/black organic silt, very soft, saturated, sediment								
434.3	9.8		Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders								
424.5	19.5										

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkkamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-5** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						1	2	3	4	5	
424.5	19.5		Dark gray silty clay, trace roots, soft, medium plasticity, saturated CL								
422.0	22.0		No roots End of Boring at 22.0'						43 O		LL=36 PL=21 S.G.=2.65

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)

▽ As noted

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MWG13-15_14231

PATRICK ENGINEERING INC.

BORING NUMBER **AP-6** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF)			LL	
						10	20	30	40	50	
						1	2	3	4	5	
444.0	0.0		Water								Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
435.5	8.5										
435.0	9.0		Gray/black organic silt, very soft, saturated, sediment OH								
			Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders SP								
425.0	19.0										
424.5	19.5		Dark gray silty clay, medium plasticity, saturated CL								
			End of Boring at 19.5'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelpamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)

▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-8** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
444.0	0.0		Water									Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
438.5	5.5		Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders SP									
433.3 432.5	10.8 11.5		Dark gray clayey silt, medium stiff, low plasticity, saturated CL-ML End of Boring at 11.5'						32 O			

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkolkamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)
 ∇ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-9**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

SHEET **1 OF 1**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		50
444.0	0.0		Water									Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
442.0	2.0											
441.5	2.5	x x	Gray/black organic silt, very soft, saturated, sediment OH									
			Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders SP									
			Black/dark gray silty clay seam									
434.0	10.0		Dark gray/black silty clay, trace roots, soft, medium plasticity, saturated CL									
432.0	12.0		End of Boring at 12.0'									

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **7/23/08** ENDED **7/23/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-10** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF) *			LL		
						10	20	30	40	50		
444.0	0.0		Water									Borings were completed from a pontoon on the Ash Pond. Soils were logged from hand auger cuttings and piston sampler cores.
435.0	9.0		Gray/black organic silt, very soft, saturated, sediment									
434.5	9.5	x	Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders									
			2" silty clay seam									
425.0	19.0											

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelpamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)
 ∇ As noted
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **AP-10** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **MPG**
 GROUND ELEVATION **444.0**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						1	2	3	4	5	
425.0	19.0		Dark gray silty clay, some silt, trace roots, medium stiff, medium plasticity, moist								
			No roots								45 O
423.0	21.0		End of Boring at 21.0'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **7/24/08** ENDED **7/24/08**

REMARKS

WATER LEVEL (ft.)

▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-11** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **AFG**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
						1	2	3	4	5	
	0.0		Brown/gray coarse sand and gravel, little fine to medium sand, organic-odor, wet SP								Soils were logged from hand auger cuttings.
	5.0		Saturated at approx. 5.0' End of Boring at 5.0'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger**
 DRILLING EQUIPMENT **Hand Auger**
 DRILLING STARTED **8/12/08** ENDED **8/12/08**

REMARKS

WATER LEVEL (ft.)
 ∇ 5.0'
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-12** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Powerton Plant**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	LL	Unconfined Compressive Strength (TSF) *				
						10	20	30	40	50		
439.2	0.0		Water									Borings were completed from a pontoon boat on Ash Pond. Soils were logged from hand auger cuttings
436.5	2.8		Black medium sand, trace coarse, trace fine, loose, poorly graded, angular, saturated, coal cinders SP									
433.5	5.8		Refusal at 5.8'									

DRILLING CONTRACTOR Patrick Engineering DRILLING METHOD Hand Auger/Piston Sampler DRILLING EQUIPMENT Eijkkamp DRILLING STARTED 8/12/08 ENDED 8/12/08	REMARKS	WATER LEVEL (ft.) ▽ As noted ▽ ▽
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-13** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Powerton Plant**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						1	2	3	4	5	
419.2	20.0		Gray silty clay, medium stiff, medium plasticity, saturated	PS-2 20.0-20.5							
414.2	25.0			PS-3 24.0-24.5							
413.7	25.5		Brown coarse to fine sand, trace coarse to fine gravel, trace silt, loose, poorly graded, saturated	PS-4 25.0-25.5							qu=0.5 (disturbed) Undisturbed soil sampler pounded to 25.5' - tube damaged - refusal confirmed with bailer Hand auger refusal at 25.5'
			End of Boring 25.5'								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **8/12/08** ENDED **8/12/08**

REMARKS

WATER LEVEL (ft.)
 ∇ As noted
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **AP-14** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Powerton Plant**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	LL	Unconfined Compressive Strength (TSF) *			
						10	20	30	40	50	
						1	2	3	4	5	
439.2	0.0		Water								Borings were completed from a pontoon boat on the Ash Pond
432.2	7.0		Black medium sand, trace coarse, trace fine, loose poorly graded, angular, saturated, coal cinders SP								Soils were logged from hand auger cuttings and piston sampler cores
424.7	14.5		Gray silty clay, medium stiff, medium plasticity, saturated CL	PS-1 15.0-15.5							17.0 ft: Vane shear Su=625 psf
			Clayey silt								

DRILLING CONTRACTOR Patrick Engineering DRILLING METHOD Hand Auger/Piston Sampler DRILLING EQUIPMENT Eijkelkamp DRILLING STARTED 8/13/08 ENDED 8/13/08	REMARKS	WATER LEVEL (ft.) ▽ As noted ▽ ▽
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-14** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Powerton Plant**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	10	20	30	40	
						Unconfined Compressive Strength (TSF) *					
						1	2	3	4	5	
419.2	20.0		Gray silty clay, medium stiff, medium plasticity, saturated CL	PS-2 20.0-20.5							
417.2	22.0		Brown coarse to fine gravel, loose, poorly graded, saturated	PS-3 22.0-22.5							
416.2	23.0		End of Boring at 23.0'	SP							

DRILLING CONTRACTOR Patrick Engineering DRILLING METHOD Hand Auger/Piston Sampler DRILLING EQUIPMENT Eijkelkamp DRILLING STARTED 8/13/08 ENDED 8/13/08	REMARKS	WATER LEVEL (ft.) ▽ As noted ▽ ▽
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-15** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
						1	2	3	4	5	
439.2	0.0		Water								Borings were completed from a pontoon boat on the Ash Pond Soils were logged from hand auger cuttings and piston sampler cores
432.2	7.0		Black, medium sand, trace coarse, trace fine, loose poorly graded, angular, saturated, coal cinders SP								
427.2	12.0		Gray silty clay, medium stiff, medium plasticity, saturated CL								
425.2	14.0		Gray silty clay, medium stiff, saturated CL								
				PS-1 15.0-15.5							
				PS-2 19.0-19.5							17.0 ft: Vane shear Su=625 psf

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelpamp**
 DRILLING STARTED **8/13/08** ENDED **8/13/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
 ▽
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-15** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	10	20	30	40	
419.2	20.0		Gray silty clay, medium stiff, saturated CL	PS-3 21.5-22.0							21.0 ft. Vane shear Su=525 psf
				PS-4 26.0-27.0							
412.2	27.0		End of Boring at 27.0'								Confirmed gravel at 27.0'

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkkamp**
 DRILLING STARTED **8/13/08** ENDED **8/13/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-16**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

SHEET **1 OF 2**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
439.2	0.0		Water									Borings were completed from a pontoon boat on the Ash Pond Soils were logged from hand auger cuttings and piston sampler cores
432.7	6.5		Black medium sand, trace coarse, trace fine, loose poorly graded, angular, saturated, coal cinders SP									
423.7	15.5		Gray silty clay, medium stiff, medium plasticity, saturated CL	PS-1 16.5-17.0								

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelfkamp**
 DRILLING STARTED **8/14/08** ENDED **8/14/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
 ▽
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PATRICK ENGINEERING INC.

BORING NUMBER **AP-16** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL Ash Pond**

LOGGED BY **AFG**
 GROUND ELEVATION **439.2**

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
419.2	20.0		Gray silty clay, medium stiff, medium plasticity, saturated CL	PS-2 20.0-21.0								
				PS-3 22.0-23.0								
				PS-4 24.5-25.5								
412.2	27.0		End of Boring at 27.0'									Confirmed sand and gravel at 27.0'

DRILLING CONTRACTOR **Patrick Engineering**
 DRILLING METHOD **Hand Auger/Piston Sampler**
 DRILLING EQUIPMENT **Eijkelkamp**
 DRILLING STARTED **8/14/08** ENDED **8/14/08**

REMARKS

WATER LEVEL (ft.)
 ▽ As noted
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PATRICK ENGINEERING INC.

BORING NUMBER **APB-1-08** SHEET **1 OF 3**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
						1	2	3	4	5	
	0.0		Gravel								
	1.0		Dark brown silty clay fill with sand, cinders, gravel, very stiff	SS-1 1.0-2.5 R=10"	4						qu=3.5*tsf
			FILL		4						
					5						
				SS-2 3.5-5.0 R=6"	7						qu=1.0*tsf
					6						
					8						
	6.5		Cinders, black	SS-3 6.0-7.5	6						
			FILL		10						
					12						
			Cinders, some clay	SS-4 8.5-10.0 R=15"	2						qu=3.0*tsf
					8						
					6						
				SS-5 11.0-12.5 R=15"	3						
			Moist		3						
					6						
				SS-6 13.5-15.0	3						
			Wet		2						
					2						
					2						
	17.5		Dark gray silty clay with cinders, soft	CL/FILL							
				ST-7 18.5-20.0 R=30"							

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/7/08** ENDED **8/7/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-1-08** SHEET **2 OF 3**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS			
						PL	10	20	30	40		50	LL	
	20.0	[Cross-hatched pattern]	Dark gray silty clay with cinders, soft CL/FILL	ST-8 20.0-22.0 30" tube										
						SS-9 23.5-25.0 R=18"	1							qu=1.0*tsf
							2							
						SS-10 28.5-30.0 R=15"	3							qu=2.0*tsf
	31.0	[Dotted pattern]	Coarse sand, with gravel, loose to medium dense SP/GP		2									
							3							
							2							
						SS-11 33.5-35.0	1							
							1							
				SS-12 38.5-40.0	4									
					6									
					6									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/7/08** ENDED **8/7/08**

REMARKS
 Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-1-08** SHEET **3 OF 3**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	10	20	30	40	
						Unconfined Compressive Strength (TSF) *					
						1	2	3	4	5	
	40.0		Coarse sand, with gravel, loose to medium dense SP/GP								
					SS-13 43.5-45.0	2 5 6					
				SS-14 48.5-50.0	5 7 7						
	51.0		End of Boring at 51.0'								

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/7/08** ENDED **8/7/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-2-08** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
						Unconfined Compressive Strength (TSF) *						
						1	2	3	4	5		
	0.0		Topsoil									
	1.0		Brown silty clay with cinders, some gravel, very stiff FILL	SS-1 1.0-2.5 R=10"	9 15 17						qu=3.0*tsf	
				SS-2 3.5-5.0 R=8"	5 6 8							qu=3.5*tsf
				SS-3 6.0-7.5 R=8"	3 3 18							
				SS-4 8.5-10.0 R=13"	5 12 13							
	10.5			Black silty clay with cinders, some gravel, very stiff FILL	SS-5 11.0-12.5 R=12"	6 18 22						qu=3.0*tsf
					SS-6 13.5-15.0	16 20 22						
			ST-7 18.0-20.0									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/7/08** ENDED **8/7/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ 20.0' While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-2-08** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	LL	Unconfined Compressive Strength (TSF) *			
						1	2	3	4	5	
	20.5		Black silty clay with cinders, some gravel, very stiff	FILL							
	23.0		Gray silty clay	CL	ST-8 22.0-24.0						
	27.0		Black organic clay, trace sand, very stiff	OL	ST-9 24.0-26.0						
	32.0		Gray silty clay with gravel, stiff	CL	SS-10 28.5-30.0 R=18"	0 0 3					qu=2.5*tsf
	35.0		Sand with clay, loose	SP	SS-11 33.5-35.0 R=16"	2 3 3					qu=1.0*tsf
	38.0		Sand and gravel, loose	SP/GP	SS-12 38.5-40.0	2 2 4					
	40.0		End of Boring at 40.0'								

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/7/08** ENDED **8/7/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **20.0'** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-3-08** SHEET **1 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		50
						Unconfined Compressive Strength (TSF) *						
						1	2	3	4	5		
	0.0		Brown sand and gravel, loose	SP/GP								
					SS-1	6						
					1.0-2.5	4						
					R=8"	4						
	3.0			Brown medium to coarse sand, trace gravel, medium dense	SP							
					SS-2	4						
					3.5-5.0	8						
					R=10"	10						
					SS-3	4						
					6.0-7.5	5						
					R=16"	8						
					SS-4	4						
					8.5-10.0	5						
					R=16"	7						
				SS-5	3							
				11.0-12.5	6							
				R=14"	6							
				SS-6	4							
				13.5-15.0	5							
				R=16"	7							
				SS-7	3							
				18.5-20.0	4							
					4							

% Sand=90
 % Gravel=6.6
 % Fines=3.5

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **8/8/08** ENDED **8/8/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **24.0** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-3-08** SHEET **3 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
	40.0		Coarse sand, some gravel, saturated SP									
					SS-12 43.5-45.0 R=0"	6 11 11						
				SS-13 48.5-50.0 R=16"	3 5 7							
			Blind drilling started at 50.0'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **8/8/08** ENDED **8/8/08**

REMARKS
 Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇ 24.0 While Drilling
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-3-08** SHEET **4 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
	60.0		Possible cobbles/weathered rock at 61.0'									
	67.0		Auger Refusal at 67.0' End of Boring at 67.0'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **8/8/08** ENDED **8/8/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇ **24.0** While Drilling
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-4-08** SHEET **1 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS				
						PL	Unconfined Compressive Strength (TSF) *			LL					
						10	20	30	40	50					
						1	2	3	4	5					
	0.0	[Cross-hatched pattern]	Brown medium sand with gravel fill, medium dense FILL	SS-1 1.0-2.5 R=10"	4 4 5										
				SS-2 3.5-5.0 R=12"	3 3 5										
				SS-3 6.0-7.5 R=12"	4 5 7										
	9.0			[Dotted pattern]	Tan medium to coarse sand, with gravel, loose to medium dense SP/GP	SS-4 8.5-10.0 R=13"	6 9 13								
						SS-5 11.0-12.5 R=12"	4 3 4							% Sand=81.3 % Gravel=10.5 % Fines=8.2	
						SS-6 13.5-15.0 R=12"	4 3 4								
						SS-14 16.0-17.5 R=12"	4 3 3							qu=1.5*tsf	
	17.0					[Diagonal hatched pattern]	Brown clay with silt, stiff CL Rust stains	SS-7 18.5-20.0 R=16"	2 3 5						qu=1.5*tsf

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇ 28.5 While Drilling
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-4-08** SHEET **3 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
	40.0		Brown medium to coarse sand, loose to very loose, wet SP									
					SS-12 43.5-45.0 R=18"	4 6 6						
			Coarse sand	SS-13 48.5-50.0 R=16"	0 4 6							
			Blind drilling started at 50.0'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **28.5** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-4-08** SHEET **4 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	20	30	40	LL	
						Unconfined Compressive Strength (TSF) *					
						1	2	3	4	5	
	60.0										
	72.0		Auger Refusal at 72.0' on apparent bedrock End of Boring at 72.0'								

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

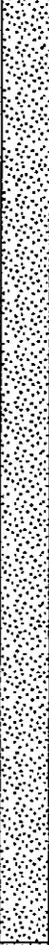
REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇ **28.5** White Drilling
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-5-08** SHEET **1 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		50
						Unconfined Compressive Strength (TSF) *						
						1	2	3	4	5		
	0.0		Brown medium coarse sand, loose	SP								
					SS-1	4						
					1.0-2.5	4						
					R=14"	4						
					SS-2	4						
					3.5-5.0	3						
					R=16"	3						
					SS-3	2						
					6.0-7.5	1						
					R=14"	3						
					SS-4	2						
					8.5-10.0	3						
					R=14"	2						
					SS-5	1						
				11.0-12.5	1							
				R=14"	3							
				SS-6	3							
				13.5-15.0	4							
				R=14"	6							
	16.0		Brown medium to coarse sand, with trace gravel, loose	SS-7	2							
				16.0-17.5	2							
				R=10"	2							
				SS-8	3							
				18.5-20.0	3							
				R=12"	3							

% Sand=96.4
 % Gravel=2.2
 % Fines=1.4

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **24.0** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-5-08** SHEET **2 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	Unconfined Compressive Strength (TSF) *			LL	
						10	20	30	40	50	
						1	2	3	4	5	
	20.0	[Stippled pattern]	Brown medium to coarse sand, with trace gravel, loose								
	22.0		Brown coarse to medium sand, with gravel, loose, saturated	SP							
	24.0	▽		SS-9 23.5-25.0 R=12"	3 2 3						
				SS-10 28.5-30.0 R=12"	5 7 3						% Sand=95.7 % Gravel=1.6 % Fines=2.8
				SS-11 33.5-35.0 R=8"	1 1 1						
				SS-12 38.5-40.0 R=16"	1 2 5						
	40.0										

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **24.0** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-5-08** SHEET **3 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekdn, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS
						PL	10	20	30	40	
						Unconfined Compressive Strength (TSF) *					
						1	2	3	4	5	
	40.0		Medium to coarse sand, with gravel, loose SP								
				SS-13 43.5-45.0 R=8"	2 1 3						
			Blind drilling began at 45.0'								

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **24.0** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-5-08** SHEET **4 OF 4**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		LL
	68.0											
	70.5		Auger refusal at 70.5' on apparent bedrock End of Boring at 70.5'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/11/08** ENDED **8/11/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ **24.0** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-6-08** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY (IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF)			LL		
						10	20	30	40	50		
						1	2	3	4	5		
	0.0	▽	Brown fine to coarse sand, with gravel, medium dense	SP								
					SS-1 1.0-2.5 R=10"	6 4 5						
	4.0				SS-2 3.5-5.0 R=12"	8 8 5						
				Saturated	SS-3 6.0-7.5 R=8"	3 3 4						% Sand=60 % Gravel=35.3 % Fines=4.7
					SS-4 8.5-10.0 R=14"	8 5 4						
				Medium to coarse sand	SS-5 11.0-12.5 R=13"	11 10 6						
					SS-6 13.5-15.0 R=18"	5 5 6						% Sand=85.7 % Gravel=12.5 % Fines=1.9
				Coarse sand	SS-7 16.0-17.5	12 6 6						
					SS-8 18.5-20.0	11 6 6						
	20.0			End of Boring at 20.0'								

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **4 1/4" HS**
 DRILLING STARTED **8/13/08** ENDED **8/13/08**

REMARKS
 Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽ 4.0 While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-7-08** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF)			LL		
	0.0		Gray silty clay, high plasticity, medium stiff	CH								
				SS-1 1.0-2.5 R=18"	1 3 2			30				qu=0.5*tsf LL=40 PI=19
				ST-2 3.5-5.0						43		qu=1.0*tsf LL=53 PI=28 % Clay=54 % Silt=45.4
	5.5		Gray silty clay with sand seams, medium stiff									
				SS-3 6.0-7.5 R=18"	1 1 1							qu=1.0*tsf % Clay=44.9 % Sand=25.2 % Silt=29.9
	8.0		Dark gray silty clay, with sand seams, high plasticity, medium stiff, wet	CH								
				SS-4 8.5-10.0 R=18"	1 2 3			29				qu=0.5*tsf % Clay=45.7 % Silt=45.7 % Sand=8.5
				SS-5 11.0-12.5 R=18"	2 3 5					31		qu=1.0*tsf LL=49 PI=30
	13.5		Gray silty sand, loose	SM								
				SS-6 13.5-15.0 R=16"	2 3 4			18				% Sand=74.3 % Silt=11.1 % Clay=13.1
	15.0		Dark gray silty clay, medium stiff	CL								
				SS-7 16.0-17.5 R=15"	2 3 3					26		qu=0.5*tsf LL=40 PI=25
	17.5		Fine to coarse sand, with gravel, medium dense	SP								
				SS-8 18.5-20.0	8 10 9							
	20.0		End of Boring at 20.0'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **8/13/08** ENDED **8/13/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-8-08** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	Unconfined Compressive Strength (TSF) *			LL		
						10	20	30	40	50		
	0.0	[Stippled pattern]	Brown fine to coarse sand, some gravel, loose to medium dense	SP								
				SS-1	6							
				1.0-2.5	4							
				R=12"	6							
				SS-2	2							
				3.5-5.0	2							
				R=12"	4							% Sand=82.5 % Gravel=8.7 % Fines=8.9
			SS-3	3								
			6.0-7.5	4								
			R=6"	4								
			SS-4	4								
			8.5-10.0	6								
			R=4"	7								
	10.5											
		Brown and gray coarse sand, gravel, loose to medium dense, wet										
			SS-5	3								
			11.0-12.5	3								
			R=12"	5								
			SS-6	8								
			13.5-15.0	7								
				6						% Sand=75 % Gravel=19.1 % Fines=5.9		
		SS-7	9									
		16.0-17.5	8									
			7									
		SS-8	3									
		18.5-20.0	4									
			5									
	20.0		End of Boring at 20.0'									

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **8/14/08** ENDED **8/14/08**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ∇ **12.0** While Drilling
 ∇
 ∇

PATRICK ENGINEERING INC.

BORING NUMBER **APB-9-08** SHEET **1 OF 1**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **KRM**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS		
						PL	10	20	30	40		LL	50
	0.0	[Hatched Pattern]	Brown clay and sand	SS-1 0.0-1.5 R=10"	2								
	1.0		FILL		4								
			Cinders, sand and slag	FILL	SS-2 1.5-3.0 R=5"	2							
					SS-3 3.0-4.5 R=10"	2							
	4.5			End of Boring at 4.5'		1							

DRILLING CONTRACTOR **Terracon**
 DRILLING METHOD **D90**
 DRILLING EQUIPMENT **HS**
 DRILLING STARTED **ENDED**

REMARKS
Boring backfilled with grout slurry.

WATER LEVEL (ft.)
 ▽
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 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-10-08** SHEET **1 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **JK**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS		
						PL	10	20	30	40		LL	50
	0.0		Organic silt										
	1.0		Light tan silt, trace sand and clay, medium stiff, moist ML	SS-1 1.0-2.5 12"R	4 3 2								
				SS-2 3.5-5.0 18"R	6 4 5								
				SS-3 6.0-7.5 18"R	6 5 8								
	8.0		Dark brown silty sand to sandy silt, with some gravel, loose, moist SM	SS-4 8.5-10.0 18"R	7 5 4								
				SS-5 11.0-12.5 18"R	3 3 3								
				SS-6 13.5-15.0 18"R	2 4 4								
	13.0		Dark brown sandy silty clay, with some gravel, medium stiff, moist SC/CL	SS-6 13.5-15.0 18"R	2 4 4								
				SS-7 18.5-20.0 14"R	2 2 2								
	19.0		Light tan to brown silty sand, some gravel, loose, wet	SS-7 18.5-20.0 14"R	2 2 2								
	20.0												

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **CME-75**
 DRILLING EQUIPMENT **3.25" I.D. HSA**
 DRILLING STARTED **8/18/08** ENDED **8/18/08**

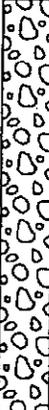
REMARKS
Borehole sealed with cuttings and bentonite chips.

WATER LEVEL (ft.)
 ▽ **9.0'** While Drilling
 ▽
 ▽

PATRICK ENGINEERING INC.

BORING NUMBER **APB-10-08** SHEET **2 OF 2**
 CLIENT **Midwest Generation**
 PROJECT & NO. **20803.041**
 LOCATION **Pekin, IL**

LOGGED BY **JK**
 GROUND ELEVATION

ELEVATION	DEPTH (FT)	STRATA	SOIL/ROCK DESCRIPTION	SAMPLE TYPE & NO. DEPTH (FT) RECOVERY(IN)	BLOW COUNTS	Water Content					NOTES & TEST RESULTS	
						PL	10	20	30	40		50
						Unconfined Compressive Strength (TSF) *						
						1	2	3	4	5		
	20.0		Tan fine to coarse sand, loose, wet SP									
				SS-8 21.0-22.5 12"R	2							
					2							
					3							
	23.0				Multi-color very sandy gravel, loose, wet SP/GP							
		SS-9 23.5-25.0 10"R	2									
			2									
			2									
			3									
			SS-10 26.0-27.5 12"R	5								
				3								
			SS-11 28.5-30.0 12"R	2								
				2								
	30.0		End of Boring at 30.0'									

DRILLING CONTRACTOR **Groff Testing**
 DRILLING METHOD **CME-75**
 DRILLING EQUIPMENT **3.25" I.D. HSA**
 DRILLING STARTED **8/18/08** ENDED **8/18/08**

REMARKS
Borehole sealed with cuttings and bentonite chips.

WATER LEVEL (ft.)
 ▽ **9.0'** While Drilling
 ▽
 ▽