

LOG OF BORING B - 07

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 430 Feet (Approximate)

Date Drilled: 3/26/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
430-0				TOPSOIL				
		14/18	CL-CH	Dark Brown Silty CLAY		1.5 Qp	23	
425-5		15/18	SM	Brown Silty SAND			20	
		17/18	SP	Gray-Brown Fine SAND			6	
420-10		18/18					6	
				TD - 10.0 Feet				
415-15								
410-20								
405-25								
400-30								

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Dry

Piezometer Installed: No



Missouri (314) 770-1001
 Illinois (618) 398-1414

BORING LOG 2554.GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 08

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 432.0 Feet (Approximate)

Date Drilled: 1/16/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">0</div> <div style="margin-bottom: 10px;">430</div> <div style="margin-bottom: 10px;">5</div> <div style="margin-bottom: 10px;">425</div> <div style="margin-bottom: 10px;">10</div> <div style="margin-bottom: 10px;">420</div> <div style="margin-bottom: 10px;">15</div> <div style="margin-bottom: 10px;">415</div> <div style="margin-bottom: 10px;">20</div> <div style="margin-bottom: 10px;">410</div> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">405</div> <div style="margin-bottom: 10px;">30</div> </div>		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">16/18</div> <div style="margin-bottom: 10px;">15/18</div> <div style="margin-bottom: 10px;">17/18</div> <div style="margin-bottom: 10px;">17/18</div> <div style="margin-bottom: 10px;">13/18</div> <div style="margin-bottom: 10px;">18/18</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">CL</div> <div style="margin-bottom: 10px;">CL-ML</div> <div style="margin-bottom: 10px;">CL</div> <div style="margin-bottom: 10px;">CL</div> <div style="margin-bottom: 10px;">CL</div> <div style="margin-bottom: 10px;">CL</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">TOPSOIL Gray FLYASH, FILL</div> <div style="margin-bottom: 10px;">-with Bottom Ash below 4.0 Feet</div> <div style="margin-bottom: 10px;">Dark Gray BOTTOM ASH, with Flyash, FILL</div> <div style="margin-bottom: 10px;">Dark Gray Silty CLAY, trace Bottom Ash, FILL</div> <div style="margin-bottom: 10px;">Brown Clayey SILT</div> <div style="margin-bottom: 10px;">-Gray-Brown below 17.0 feet</div> <div style="margin-bottom: 10px;">TD - 20.0 Feet</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;">1.3 Qp</div> <div style="margin-bottom: 10px;">4.5 Qp</div> <div style="margin-bottom: 10px;">1.3 Qp</div> <div style="margin-bottom: 10px;">0.8 Qp</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">32</div> <div style="margin-bottom: 10px;">15</div> <div style="margin-bottom: 10px;">17</div> <div style="margin-bottom: 10px;">25</div> <div style="margin-bottom: 10px;">27</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;"></div> <div style="margin-bottom: 10px;"></div> </div>	

Notes:

GROUNDWATER ▽ First Observed During Drilling - Dry
 ▽ At Completion - Dry

Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 09

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 424.5 Feet (Approximate)

Date Drilled: 3/26/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0				TOPSOIL					
		13/18	CL	Dark Brown Sandy CLAY		1.2 Qp	20		
420 -5		7/24	SM	Gray-Brown Silty SAND			5		
		18/18				1.0 Qp	24		
415 -10		20/24	CH	Dark Gray-Brown CLAY	84	0.8 Qp	37		
			SP	Gray-Brown Fine SAND					
410 -15		13/18					3		
405 -20		18/18					15		
					TD - 20.0 Feet				
400 -25									
395 -30									

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Not Recorded

Piezometer Installed: No



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LOG OF BORING B - 10

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 423.5 Feet (Approximate)

Date Drilled: 3/28/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: HSA and Mud Rotary
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
0				TOPSOIL Dark Brown Silty CLAY				
420		16/18	CL	-Gray-Brown below 5.5 Feet		0.75 Qp	26	
415		15/18				1.3 Qp	23	
410		18	SM	Gray Fine SAND, with Silt				
405		18/18	SM	Dark Gray-Brown Silty SAND				
400		24	SM	Dark Gray Fine SAND, with Silt	92		30	
395		13/18	SP	Dark Gray Fine SAND				
30				(continued)				Began Mud Rotary at 15.0 Feet

Notes:

GROUNDWATER

- First Observed During Drilling - N/A
- At Completion - N/A

Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/24/03

LOG OF BORING B - 10 (Cont.)

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 423.5 Feet (Approximate)

Date Drilled: 3/28/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: HSA and Mud Rotary
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
	<p>390</p> <p>35</p> <p>385</p> <p>40</p> <p>380</p> <p>45</p> <p>375</p> <p>50</p> <p>370</p> <p>55</p> <p>365</p> <p>60</p>	<p>2 2 2</p> <p>5 8 10</p> <p>6 11 13</p>	<p>16/18</p> <p>18/18</p> <p>10/18</p>	<p>CH Dark Gray CLAY</p> <p>SP Dark Gray Fine SAND</p> <p>- Gray below 42.0 Feet</p> <p>TD - 45.0 Feet</p>			<p>33</p> <p>40</p>	

Notes:

GROUNDWATER

- First Observed During Drilling - N/A
- At Completion - N/A

Piezometer Installed: No



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LOG OF BORING B - 12

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 428.0 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
0		18/18		TOPSOIL			69	
425		9/18		Gray FLYASH, FILL				
5		15/18		-with Organics 3.0 to 8.0 Feet		0.4 Qp	35	
420		21/24			87	0.4 Qp	34	UU = 0.20 TSF
-10				TD - 10.0 Feet				
415								
-15								
410								
-20								
405								
-25								
400								
-30								

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Dry
- 4 days After Completion - 4.5 Feet
- Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/24/03

LOG OF BORING B - 13

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 449 Feet (Approximate)

Date Drilled: 1/16/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0		12/18		TOPSOIL Gray FLYASH, FILL		1.2 Qp	26		
445		9/18					24		
-5		14/17		-trace Bottom Ash below 5.5 Feet			29		
440		12/18					34		
435		17/18					0.5 Qp	28	
430		NSD/18					1.8 Qp	37	
-20				TD - 15.0 Feet					
425									
-25									
420									
-30									

Notes:

GROUNDWATER

- ∇ First Observed During Drilling - Dry
- ∇ At Completion - Dry
- ∇ 1 days After Completion - Dry
- 5 days After Completion - dry
- Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/24/03

LOG OF BORING B - 14

Project Name: Dynege Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 448.5 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>0</p> <p>445</p> <p>5</p> <p>440</p> <p>10</p> <p>435</p> <p>15</p> <p>430</p> <p>20</p> <p>425</p> <p>25</p> <p>420</p> <p>30</p> </div> <div style="flex: 1;"> </div> </div>	<p>13/18</p> <p>14/18</p> <p>13/24</p> <p>14/18</p> <p>13/18</p> <p>17/18</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p>	<p>TOPSOIL Gray FLYASH, FILL</p> <p></p> <p></p> <p></p> <p>Dark Gray FLYASH and BOTTOM ASH, FILL</p> <p>TD - 20.0 Feet</p>	<p></p> <p></p> <p>60</p> <p></p> <p></p> <p></p>	<p></p> <p></p> <p></p> <p>1.6 Qp</p> <p>0.5 Qp</p> <p>0.5 Qp</p>	<p>22</p> <p>25</p> <p>28</p> <p>38</p> <p>43</p> <p>40</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p>

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Dry
- 4 days After Completion - Dry
- Piezometer Installed: No




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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 16

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 440 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
440 - 0				TOPSOIL				
		14/18		Gray FLYASH, trace Bottom Ash, FILL		1.7 Qp	30	
435 - 5		15/18				0.7 Qp	32	
		18/18				1.4 Qp	30	
430 - 10		15/24			54		44	
				TD - 10.0 Feet				
425 - 15								
420 - 20								
415 - 25								
410 - 30								

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Dry
- 4 days After Completion - Dry
- Piezometer Installed: No



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LOG OF BORING B - 17

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 440 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
440-0		18/18		TOPSOIL Gray FLYASH, trace Boiler Slag, FILL		0.9 Qp	29	
435-5		22/24		Gray BOTTOM ASH and BOILER SLAG, trace Flyash, FILL	86		11	
430-10		18/18		Gray FLYASH, FILL -with Bottom Ash 5.5 to 8.0 Feet		0.9 Qp	58	
425-15		18/18		TD - 10.0 Feet		2.4 Qp	45	
420-20								
415-25								
410-30								

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - 6.0 Feet
 - ▽ At Completion - Dry
 - ▽ 4 days After Completion - Dry
- Piezometer Installed: No



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LOG OF BORING B - 18

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 442.5 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>0</p> <p>440</p> <p>5</p> <p>435</p> <p>10</p> <p>430</p> <p>15</p> <p>425</p> <p>20</p> <p>420</p> <p>25</p> <p>415</p> <p>30</p> </div> <div style="flex: 1; text-align: center;"> </div> </div>				Base ROCK, FILL				
		10/18		Brown Silty CLAY, with Sand, Crushed Limestone, FILL			5	
		8/18		Gray BOTTOM ASH, with Flyash, FILL		3.2 Qp	16	
		17/18				4.5+ Qp	19	
		23/24			78		20	
				TD - 10.0 Feet				

Notes:

GROUNDWATER

- First Observed During Drilling - Dry
- At Completion - Dry
- 4 days After Completion - Dry
- Piezometer Installed: No



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BORING LOG 2554.GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 19

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 440 Feet (Approximate)

Date Drilled: 1/17/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
440-0				Base ROCK, FILL				
435-5		17/24		Gray FLYASH, FILL -with Crushed Limestone to 4.0 Feet	68		35	
430-10		16/18				0.3 Qp	43	
425-15		14/18					43	
420-20		17/18				0.5 Qp	46	
415-25			SP	Gray-Brown Fine SAND				
410-30		16/18		TD - 15.0 Feet				

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - 8.5 Feet
- ▽ At Completion - Dry
- ▽ 4 days After Completion - Dry
- Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 22

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 437.5 Feet (Approximate)

Date Drilled: 3/11/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
0		10/18		TOPSOIL Very Dark Gray FLYASH, FILL -trace Bottom Ash to 5.5 Feet		2.1 Qp	42	
435		24/24			70	1.2 Qp	36	
-5		8/18		-Dark Gray, with Boiler Slag 5.5 to 8.0 Feet		0.8 Qp	18	
430		24/24		-Gray below 8.0 Feet	60		58	
-10		18/18				1.2 Qp	24	
425		18/18		CL Dark Gray-Brown Silty CLAY		1.9 Qp	28	
-15		18/18		CH Gray-Brown CLAY		1.8 Qp	46	
420		18/18						
-20		18/18						
415		18/18						
-25	18/18							
410				TD - 25.0 Feet				
-30								

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▽ At Completion - 18.5 Feet

Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 23

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 436 Feet (Approximate)

Date Drilled: 3/11/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0		14/18		TOPSOIL			45		
435				Gray FLYASH, FILL					
5			11/18					48	
430			23/24			63		46	
10			15/18	CL	Dark Gray-Brown Silty CLAY		1.4 Qp	22	
425		18/18				0.5 Qp	27		
420		17/18					25		
415				TD - 20.0 Feet					
410									
405									

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▽ At Completion - 13.0 Feet

Piezometer Installed: No

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BORING LOG 2554.GINT\FILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 24

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 428 Feet (Approximate)

Date Drilled: 3/11/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0		14/18		TOPSOIL Dark Gray FLYASH, FILL			58	No Recovery in Shelby Tube, Pushed Split-Spoon Sampler	
425		7/18		-trace Bottom Ash 3.0 to 5.5 Feet			36		
5		12/18		-with Bottom Ash below 5.5 Feet			25		
420			24/24	SC	Dark Gray-Brown Fine SAND, with Clay	108	0.5 Qp	25	CU
10			16/18	CL	Dark Gray-Brown Silty CLAY			29	
415			15/18	CH	Dark Gray CLAY		0.8 Qp	47	
15			18/18		TD - 25.0 Feet			51	
410									
20									
405									
25									
400									
30									

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▽ At Completion - 6.7 Feet

Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/24/03

LOG OF BORING B - 25

Project Name: Dynege Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 428 Feet (Approximate)

Date Drilled: 3/11/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0		9/18		Dark Gray FLYASH, trace Bottom Ash, FILL		0.2 Qp	46		
425		16/18	CL	Dark Brown Silty CLAY, with Sand			25		
5		24/24				110	0.4 Qp	22	
420		17/18	SM	Gray-Brown Silty SAND			30		
10		16/18	CL	Dark Gray Silty CLAY, with Sand			0.2 Qp	28	
415		17/18	CH	Dark Gray-Brown CLAY			51		
410					TD - 20.0 Feet				
20									
405									
25									
400									
30									

Notes:

GROUNDWATER ▽ First Observed During Drilling - Dry
 ▽ At Completion - 7.3 Feet

Piezometer Installed: No



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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 26

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 424 Feet (Approximate)

Date Drilled: 3/13/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0		11/18	CL	TOPSOIL Dark Brown Silty CLAY -with Roots to 3.0 Feet		0.75 Qp	18		
420		14/24	SC	-with Sand below 3.0 Feet Dark Brown Clayey SAND	98	1.0 Qp	24		
415		12/18	ML	Gray-Brown SILT, with Clay, Sand	95	1.0 Qp	17		
410		9/18	SM	Gray SAND, with Silt			28		
405		16/18	CL-CH	Dark Gray Silty CLAY			35		
400		12/18	SP	Gray Fine SAND TD - 25.0 Feet			34		
395									
30									

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▽ At Completion - Dry

Piezometer Installed: No



Missouri (314) 770-1001
 Illinois (618) 398-1414

BORING LOG 2554.GINTFILE.GPJ SHIVELY.GDT 4/21/03

LOG OF BORING B - 27

Project Name: Dynegy Rail Loop
Project Location: Wood River, Illinois
Project Number: SG9-2554
Elevation: 424 Feet (Approximate)

Date Drilled: 3/13/03
Drilling Contractor: Meyer Drilling, Inc.
Drilling Method: Hollow Stem Auger
Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks	
0				TOPSOIL					
		2 4 6	14/18	CL	Dark Gray Brown Silty CLAY		3.8 Qp	19	
420		1 2 2	13/18		-Dark Brown, trace Sand 3.0 to 5.5 Feet			25	
5			21/24		-Gray-Brown below 5.5 Feet	96	1.2 Qp	25	
415		1 2 6	15/18	CH	Gray-Brown CLAY		1.2 Qp	29	
10			13/18	SC	Gray-Brown Fine SAND, with Clay		0.75 Qp	25	
410		0 3 6		SP	Gray-Brown Fine SAND				
15		14/18		TD - 20.0 Feet			3		
405	2 2 3								
20									
400									
25									
395									
30									

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▼ At Completion - Dry

Piezometer Installed: No



Missouri (314) 770-1001
 Illinois (618) 398-1414

LOG OF BORING B - 28

Project Name: Dynegy Rail Loop
 Project Location: Wood River, Illinois
 Project Number: SG9-2554
 Elevation: 424 Feet (Approximate)

Date Drilled: 3/13/03
 Drilling Contractor: Meyer Drilling, Inc.
 Drilling Method: Hollow Stem Auger
 Logged By: Meyer/Kinsella

Elevation/ Depth (feet)	Graphic Log Sampler Symbols and SPT Blows	Rec. (in./in.)	USCS	Description	DD (pcf)	UCS (tsf)	MC (%)	Remarks
0				TOPSOIL				
		17/18	CL	Dark Brown Silty CLAY		0.75 Qp	26	
420		15/24		-Dark Gray-Brown below 3.0 Feet	98	0.75 Qp	24	
5		18/18				1.2 Qp	26	
415		18/24	SC	Gray-Brown Clayey SAND	103	0.5 Qp	17	
10		16/18	SP	Gray-Brown Fine SAND			3	
410		18/18		-Fine to Medium Grained below 22.0 Feet			4	
405	17/18		TD - 25.0 Feet			14		
20								
400								
25								
395								
30								

Notes:

GROUNDWATER

- ▽ First Observed During Drilling - Dry
- ▽ At Completion - Dry

Piezometer Installed: No

















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BORING LOG 2554GINTFILE.GPJ SHIVELY.GDT 4/21/03

KEY TO SYMBOLS

Strata Symbols

 Base Rock	 USCS Low to High Plasticity Clay
 Fill	 Flyash
 USCS Low Plasticity Silty Clay	 Bottom Ash and/or Boiler Slag
 USCS High Plasticity Clay	 USCS Low Plasticity Clayey Silt
 USCS Poorly-graded Sand	 USCS Low Plasticity Sandy Clay
 Topsoil	 USCS Clayey Sand
 USCS Silty Sand	 USCS Sandy Silt

Soil Samplers

 Split Spoon	 Grab Sample
 Shelby Tube	

DD - Dry Density
 Qp - Pocket Penetrometer
 USCS - Unified Soil Classification System
 USC - Unconfined Compressive Strength
 MC - Moisture Content
 LL - Liquid Limit
 PL - Plastic Limit
 PI - Plasticity Index
 HYD - Hydrometer Test Performed
 CU - Consolidated Undrained Triaxial Test Performed
 G_s - Specific Gravity
 NSD - Non-supplied Data

GENERAL NOTES

The number of borings is based on topographic and geologic factors: the magnitude of loading; the size, shape, and value of the structure; consequences of failure; and other factors. The type and sequence of sampling is selected to reduce the possibility of undiscovered anomalies and increase drilling efficiency. Attempts are made to detect and/or identify occurrences during drilling and sampling such as encounter of water, boulders, gas, zones of lost circulation, relative ease or resistance of drilling progress, unusual sample recovery, variation in driving resistance, unusual odors, etc. However, lack of mention of such variations does not preclude their presence.

Although attempts are made to obtain stabilized groundwater levels, the levels shown on the Boring Logs may not have stabilized, particularly in more permeable cohesive soils. Consequently, the indicated groundwater levels may not represent present or future levels. Groundwater levels may vary significantly over time due to the effects of precipitation, infiltration, or other factors not evident at the times indicated.

Unless otherwise noted, soil classifications indicated on the Boring logs are based on visual observations and are not the result of classification tests. Although visual classifications are performed by experienced technicians or engineers, classifications so made may not be conclusive.

Generally, variations in texture less than one foot in thickness will be described as seams while thicker strata will be logged as individual strata. However, minor anomalies and changes of questionable lateral extent may appear only in the verbal description. The lines indicating changes in strata on the Boring Logs are approximate boundaries only as the actual material change may be between samples or may be a gradual transition. Changes in materials observed by field or laboratory personnel are indicated by solid single lines whereas estimated material changes between recovered samples are indicated by double solid lines.

Samples chosen for laboratory testing are selected in such a manner so as to determine selected physical characteristics of each material encountered. However, as samples are recovered only intermittently and only representative samples are tested, the results of such tests may not conclusively represent the characteristics of all subsurface materials present.

NOTATIONS USED ON BORING LOGS

Approximate Proportions		Particle Size	
Trace	<15%	Boulders	>12 inches
With	15-29%	Cobbles	12 Inches - 3 Inches
Modifier	>30%	Gravel	
		Coarse	3 Inches - 3/4 Inch
		Fine	3/4 Inch - No. 4 Sieve (4.75mm)
		Sand	
		Coarse	No. 4 - No. 10 Sieve (2.00mm)
		Medium	No. 10 - No. 40 Sieve (0.42mm)
		Fine	No. 40 - No. 200 Sieve (0.074mm)
		Silt	No. 200 Sieve - 0.005 mm
		Clay	<0.005 mm

Clay or clayey may be used as a major material or modifier, regardless of relative proportion, if the clay content is sufficient to dominate the soil properties.

SPT Blow Count

Number of impacts of a 140 pound hammer falling a distance of 30 inches to cause a standard split-barrel sampler, 1 3/8 inches I.D., to penetrate a distance of 6 inches. The number impacts for the first 6 inches of penetration is known as the seating drive. The sum of the impacts for the last 12 inches of penetration is the Standard Penetration Test Resistance or "N" value. For example, if Blows = 6-8-11, then "N" = 8+11 or 19.

Other Notations

- 50/3** - impacts to cause sampler to penetrate the indicated number of inches, 50 blows for 3 inches in this case
- WR** - Sampler penetrated under the static loading of the weight of the drill rod
- WH** - Sampler Penetrated under the static loading of the weight of the hammer and drill rod
- X** - No Blow Count

Laboratory Test Symbols

- QP** - Calibrated Penetrometer
- QU** - Unconfined Compressive Strength
- LL** - Liquid Limit
- PL** - Plastic Limit
- MC** - Natural Moisture Content