





# LOG OF BORING MW- 2D

**PROJECT** *PJ's CLEANERS*

**SITE** *PJ's CLEANERS* **CLIENT** *TROPICANA EAST SHOPPING CENTER PHASE I*

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION		OFFSET				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										
X		FILL - Silty Gravel With Sand, Brown, Wet, Medium Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular				FILL		CR	70%				
X					20							52.1	
X	23.0			1949.0		CL							
X		SILTY CLAY WITH SAND - Occasional Partially Cemented Lenses, Light Reddish-Brown, Medium Plasticity, Wet, Very Dense										p >4.5	
X	25.0			1947.0		SC		CR	100%				
X		CLAYEY SAND - Reddish-Brown, Wet, Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular										34.7	
X	26.0			1946.0		CL							
X		SANDY CLAY WITH CALCAREOUS GRAVEL - Reddish-Brown, Medium Plasticity, Wet, Stiff										p=2.5	
X	30.0			1942.0									

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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual. **SAMPLE TYPES:** RS = Ring BS = Bag CPT = Cone Penetration Test SPT = Standard Penetration Test C = Core ST = Shelby Tube

WATER LEVEL OBSERVATIONS, ft	
WL DEPTH ▾ 12.00	01-15-2014
WL DEPTH ▾	01-15-2014
NOTES	



BORING STARTED		01-15-2014	
BORING COMPLETED		01-15-2014	
RIG	Gus Pech 480RS	GEOLOGIST / ENGINEER	REE
PROJECT No.	64097025	PLATE	A-2

# LOG OF BORING MW- 2D

**PROJECT** **PJ's CLEANERS**

**SITE** **PJ's CLEANERS** **CLIENT**  
**TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	USCS SYMBOL	SAMPLES				TESTS	
	STATION		OFFSET					SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										

# LOG OF BORING MW- 2D

**PROJECT** *PJ's CLEANERS*

**SITE** *PJ's CLEANERS* **CLIENT** *TROPICANA EAST SHOPPING CENTER PHASE I*

GRAPHIC LOG	EASTING <span style="margin-left: 50px;">793995</span>		NORTHING <span style="margin-left: 50px;">26738518</span>		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION		OFFSET				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <span style="margin-left: 50px;">1972.0</span>												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										
49.0	SANDY CLAY WITH CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff	1923.0		CL		CR	60%		15.3				
50.0	CLAYEY GRAVEL WITH SAND - Light Brown, Wet, Medium Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular	1922.0		GC									
52.5	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff	1919.5		CL									
55.5	FAT CLAY TRACE CALCAREOUS GRAVEL - Reddish-Brown, High Plasticity, Wet, Medium Stiff  - Greenish-Brown	1916.5		CH							p=2.5		
56.5	SANDY CLAY - Brown, Medium Plasticity, Wet, Medium Stiff	1915.5		CL		CR	100%						
58.0	FAT CLAY - Brown, High Plasticity, Wet, Medium Stiff	1914.0		CH							p=2.0		
59.0	CLAYEY GRAVEL - Brown, Wet, Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular	1913.0		GC									
60.0	FAT CLAY - Brown, High Plasticity, Wet, Stiff	1912.0		CH									

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The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual. **SAMPLE TYPES:** RS = Ring BS = Bag CPT = Cone Penetration Test SPT = Standard Penetration Test C = Core ST = Shelby Tube

<b>WATER LEVEL OBSERVATIONS, ft</b>		<h1 style="font-size: 2em;">Terracon</h1>	<b>BORING STARTED</b> <span style="float: right;">01-15-2014</span>	
<b>WL DEPTH</b> ▽ <span style="margin-left: 20px;">12.00</span>	<span style="margin-left: 20px;">01-15-2014</span>		<b>BORING COMPLETED</b> <span style="float: right;">01-15-2014</span>	
<b>WL DEPTH</b> ▽ <span style="margin-left: 20px;">01-15-2014</span>	<span style="margin-left: 20px;">01-15-2014</span>		<b>RIG</b> <span style="margin-left: 10px;">Gus Pech 480RS</span>	<b>GEOLOGIST / ENGINEER</b> <span style="float: right;">REE</span>
<b>NOTES</b>			<b>PROJECT No.</b> <span style="margin-left: 10px;">64097025</span>	<b>PLATE</b> <span style="float: right;">A-4</span>

# LOG OF BORING MW- 2D

**PROJECT** *PJ's CLEANERS*

**SITE** *PJ's CLEANERS* **CLIENT** *TROPICANA EAST SHOPPING CENTER PHASE I*

<b>GRAPHIC LOG</b>	EASTING	<b>793995</b>	NORTHING	<b>26738518</b>	
	STATION		OFFSET		
	APPROXIMATE SURFACE ELEVATION (ft)				<b>1972.0</b>
	DEPTH (ft)	DESCRIPTION			ELEVATION (ft)

DEPTH (ft)	DESCRIPTION	ELEVATION (ft)	USCS SYMBOL	SAMPLES			TESTS		NOTES
				SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	
65	FAT CLAY TRACE CALCAREOUS GRAVEL - Brown, High Plasticity, Wet, Stiff  - Clayey Gravel Lenses  <div style="text-align: center; font-size: small;">                         DCNR/DWR/SNBO                          RECEIVED                           FEB 03 2014                     </div>		CH						p=4.0
69.0		1903.0			CR	100%			p=4.0
70	CLAYEY SAND - Light Reddish-Brown, Wet, Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular		SC						p=4.0
71.0		1901.0							
72.0	SILTY SAND - Light Brown, Wet, Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular		SM						
73.5	CLAYEY GRAVEL WITH SAND - Light Brown, Wet, Very Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular	1898.5	GC						
75.0	SANDY CLAY WITH GRAVEL - Brown, Medium Plasticity, Wet, Stiff	1897.0	CL						p=4.0

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WATER LEVEL OBSERVATIONS, ft	
WL DEPTH ▾ 12.00	01-15-2014
WL DEPTH ▾	01-15-2014
<b>NOTES</b>	



BORING STARTED		01-15-2014	
BORING COMPLETED		01-15-2014	
RIG	Gus Pech 480RS	GEOLOGIST / ENGINEER	REE
PROJECT No.	64097025	PLATE	A-5

# LOG OF BORING MW- 2D

**PROJECT** *PJ's CLEANERS*

**SITE** *PJ's CLEANERS* **CLIENT** *TROPICANA EAST SHOPPING CENTER PHASE I*

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	USCS SYMBOL	SAMPLE No.	SAMPLES			TESTS	
	STATION		OFFSET						RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES	
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										
77.0	SANDY CLAY WITH CALCAREOUS GRAVEL - Brown, Wet, Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular	1895.0		GC	CR	100%							
83.5	SANDY FAT CLAY - Brown, High Plasticity, Wet, Medium Stiff	1888.5		CH							p=1.5		
83.5	SANDY CLAY - Brown, Medium Plasticity, Wet, Medium Stiff	1888.5		CL							p=2.5		
90.0	SANDY CLAY - Brown, Medium Plasticity, Wet, Medium Stiff	1882.0		CL							p=1.5		
	- Occasional Clayey Sand Lenses										p=1.5		
	- Occasional Clayey Gravel Lenses												
	- Thin Caliche Lenses												
	- No Gravel										p=1.5		

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WATER LEVEL OBSERVATIONS, ft	
WL DEPTH ▾ 12.00	01-15-2014
WL DEPTH ▾	01-15-2014
NOTES	



BORING STARTED		01-15-2014	
BORING COMPLETED		01-15-2014	
RIG Gus Pech 480RS	GEOLOGIST / ENGINEER	REE	
PROJECT No. 64097025	PLATE	A-6	

# LOG OF BORING MW- 2D

**PROJECT** **PJ's CLEANERS**

**SITE** **PJ's CLEANERS** **CLIENT** **TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING		NORTHING		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	793995		26738518				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	STATION		OFFSET										
	APPROXIMATE SURFACE ELEVATION (ft)		1972.0										
DEPTH (ft)	DESCRIPTION		ELEVATION (ft)										
90.5	CLAYEY SAND - Brown, Wet, Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular		1881.5	SC									
91.0	SILTY SAND - Brown, Wet, Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular		1881.0	SM							p=1.0		
	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Wet, Medium Stiff			CL							p=1.0		
94.0	CLAYEY SAND WITH CALCAREOUS GRAVEL - Grey, Wet, Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular		1878.0	SC									
95.5	SANDY CLAY TRACE GRAVEL - Reddish-Brown, Medium Plasticity, Wet, Soft		1876.5	CL		RS	6						
	- With Cemented Lenses			CR			50%				p=1.5		
105.0			1867.0		105								

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WATER LEVEL OBSERVATIONS, ft	
WL DEPTH ▾ 12.00	01-15-2014
WL DEPTH ▾	01-15-2014
NOTES	



BORING STARTED		01-15-2014	
BORING COMPLETED		01-15-2014	
RIG Gus Pech 480RS	GEOLOGIST / ENGINEER	REE	
PROJECT No. 64097025	PLATE	A-7	

# LOG OF BORING MW- 2D

**PROJECT** **PJ's CLEANERS**

**SITE** **PJ's CLEANERS** **CLIENT** **TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	USCS SYMBOL	SAMPLES			TESTS		
	STATION		OFFSET					SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>												
	DEPTH (ft)	DESCRIPTION	ELEVATION (ft)										
109.0	SANDY CLAY WITH CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Soft  <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">                         OCHRDWR/SNBO                          RECEIVED                           FEB 08 2014                     </div>	1863.0	110	CL	RS	6				p=1.5			
113.0	CLAYEY SAND TRACE CALCAREOUS GRAVEL - Occasional Cemented Lenses, Brown, Wet, Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular	1859.0	110	SC									
114.0	SILTY SAND TRACE CALCAREOUS GRAVEL - Brown, Wet, Loose to Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular	1858.0	115	SM									
115.0	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff	1857.0	115	CL									
118.0	CLAYEY SAND TRACE CALCAREOUS GRAVEL - Brown, Wet, Loose to Medium Dense, Fine to Medium Grained, Sub-Rounded to Sub-Angular	1854.0	115	SC	RS	12							
120.0	SILTY SAND - Brown, Wet, Loose to Medium Dense	1852.0	120	SM									

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<b>WATER LEVEL OBSERVATIONS, ft</b>		<h1 style="font-size: 2em; margin: 0;">Terracon</h1>	<b>BORING STARTED</b> <span style="float: right;">01-15-2014</span>	
<b>WL DEPTH</b> ∇ 12.00	01-15-2014		<b>BORING COMPLETED</b> <span style="float: right;">01-15-2014</span>	
<b>WL DEPTH</b> ∇	01-15-2014		<b>RIG</b> Gus Pech 480RS	<b>GEOLOGIST / ENGINEER</b> REE
<b>NOTES</b>			<b>PROJECT No.</b> 64097025	<b>PLATE</b> A-8

# LOG OF BORING MW- 2D

PROJECT **PJ's CLEANERS**

SITE **PJ's CLEANERS** CLIENT **TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING <b>793995</b>	NORTHING <b>26738518</b>	WELL DETAILS	DEPTH (ft)	USCS SYMBOL	SAMPLES				TESTS	
	STATION	OFFSET				SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>										
	DEPTH (ft)	DESCRIPTION									

128.5	1843.5	125	SM							
SILTY SAND - Light Brown, Wet, Loose to Medium Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular  - Occasional Thin Cemented Lenses  - Occasional Sand Lenses (Flowing)  - Occasional Thin Cemented Lenses DCNR/DWR/SNBO RECEIVED FEB 08 2014										
131.0	1841.0	130	SC							Slough from 128.5 to 130 feet
CLAYEY SAND - Light Brown, Wet, Loose to Medium Dense, Fine to Coarse Grained, Sub-Rounded to Sub-Angular										
132.5	1839.5		CH							p=0.5
FAT CLAY TRACE CALCAREOUS GRAVEL - Brown, High Plasticity, Wet, Medium Stiff										
135.0	1837.0	135	CL							
SANDY CLAY - Brown, Medium Plasticity, Wet, Medium Stiff										

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<b>WATER LEVEL OBSERVATIONS, ft</b>		<b>BORING STARTED</b>	01-15-2014
WL DEPTH ▾ 12.00	01-15-2014	<b>BORING COMPLETED</b>	01-15-2014
WL DEPTH ▾	01-15-2014	RIG Gus Pech 480RS	GEOLOGIST / ENGINEER REE
<b>NOTES</b>		PROJECT No. 64097025	PLATE A-9



# LOG OF BORING MW- 2D

**PROJECT** **PJ's CLEANERS**

**SITE** **PJ's CLEANERS** **CLIENT** **TROPICANA EAST SHOPPING CENTER PHASE I**

GRAPHIC LOG	EASTING <b>793995</b>		NORTHING <b>26738518</b>		WELL DETAILS	DEPTH (ft)	SAMPLES				TESTS		
	STATION		OFFSET				USCS SYMBOL	SAMPLE No.	SAMPLE TYPE	RECOVERY (inch)	BLOW COUNT (blows/ft)	FIELD VAPOR TEST (PPM)	NOTES
	APPROXIMATE SURFACE ELEVATION (ft) <b>1972.0</b>												
	DEPTH (ft)	DESCRIPTION		ELEVATION (ft)									
139.0	SANDY CLAY TRACE CALCAREOUS GRAVEL - Brown, Medium Plasticity, Wet, Medium Stiff  - With Clayey Silt Lenses		1833.0			CL							
141.0	SILTY SAND - Brown, Wet, Medium Dense, Fine Grained, Sub-Rounded to Sub-Angular  - With Partially Cemented Lenses, Very Dense		1831.0			SM		RS	6				
141.5	SANDY CLAY - Brown, Medium Plasticity, Wet, Medium Stiff  <i>Bottom Depth at Approximately 141.5 feet</i>		1830.5			CL		RS	3				

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<b>WATER LEVEL OBSERVATIONS, ft</b>		<h1 style="font-size: 2em; margin: 0;">Terracon</h1>	<b>BORING STARTED</b> <span style="float: right;">01-15-2014</span>	
WL DEPTH ∇ 12.00	01-15-2014		<b>BORING COMPLETED</b> <span style="float: right;">01-15-2014</span>	
WL DEPTH ∇	01-15-2014		RIG <i>Gus Pech 480RS</i>	GEOLOGIST / ENGINEER <i>REE</i>
<b>NOTES</b>			PROJECT No. <i>64097025</i>	PLATE <i>A-10</i>