



PROJECT NUMBER 678490	BORING NUMBER EW-1	SHEET 1 OF 1
SOIL BORING LOG and WELL CONSTRUCTION		

PROJECT : UPRR Mosier Derailment LOCATION : Mosier, OR Date Drilled: 6/13/2016
 DRILLING CONTRACTOR : Environmental West Explorations
 DRILLING METHOD AND EQUIPMENT USED : Air Rotary B-90
 WATER LEVELS : 22.85 feet START : 14:00 END : 16:10 LOGGER :

DEPTH BELOW SURFACE (FT)	SAMPLE INTERVAL (FT)	RECOVERY (FT)	USCS GROUP SYMBOL	CORE DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	WELL CONSTRUCTION DIAGRAM	
					CASING MATERIAL, SCREEN TYPE, SEAL TYPE, FILTER SAND TYPE	PID READING
0			GP	2-inch minus gravel fill	12" flush-mount vault and cement seal (to 1.0' bgs)	
			GP	Dry compacted clean gravel fill		0.1
5				As above		
			GP		17.0' to 2.0' Bentonite Chip Seal	0
10				Grayish-Brown silty sandy gravel - silt matrix with 3-4" rounded to subrounded poorly graded gravel, f-m sand, no odor, no sheen (fill?), moist		
				As above	17.0' to 36.0' Filter Pack	0.2
20				Increase in moisture at 20'	20' Top Depth of Screen	
			GM	Becomes saturated at 22' no sheen observed		0.1
25				As Above		
				Increase in fines at 35'	35' Bottom Depth of Screen	0
35						
			GC	Grayish Brown clayey gravel - clay matrix with occasional f-c angular basalt fragments, no odor, no sheen, saturated. Drilling becomes hard at 39.5'		0
40						

Well Casing and Screen Materials
 Casing Material: Sch 40 PVC
 Casing Diameter: 4-in
 Seal Type: 3/8" Bentonite Chips Pack Type: 10-20 Colorado Silica Sand
 Screen Length: 15 ft
 Screen Type: Sch 40, 0.010" Milled Slots

Boring logged by drill cuttings from cyclone

-< 8" ->



PROJECT NUMBER 678490	BORING NUMBER EW-2	SHEET 1 OF 1
SOIL BORING LOG and WELL CONSTRUCTION		

PROJECT : UPRR Mosier Derailment LOCATION : Mosier, OR Date Drilled: 6/15/2016
 DRILLING CONTRACTOR : Environmental West Explorations
 DRILLING METHOD AND EQUIPMENT USED : Air Rotary B-90
 WATER LEVELS : 22.06 feet START : 14:20 END : 16:45 LOGGER :

DEPTH BELOW SURFACE (FT)		USCS GROUP SYMBOL	CORE DESCRIPTION	WELL CONSTRUCTION DIAGRAM	PID READING
SAMPLE INTERVAL (FT)	RECOVERY (FT)				
0		GP	2-inch minus gravel fill	12" flush-mount vault and cement seal (to 1.0' bgs)	
		GP	Dry compacted clean gravel fill		0.1
5		GM	Reddish-Brown silty gravel - silt matrix with angular basalt gravel, poorly graded, no odor, no sheen, moist, occasional f-m sand in matrix	13.0' to 2.0' Bentonite Chip Seal	0
			Increase in f-m sand at 12'		0.1
10		GM	Reddish-Brown silty sandy gravel - silt and f-m sand matrix with angular basalt gravel, poorly graded, no odor, no sheen, moist	13.0' to 36.0' Filter Pack 15' Top Depth of Screen	0.2
			Increase in moisture at 21'		0.1
15		GM	Becomes saturated at 22'	15' Top Depth of Screen	0.1
			no sheen observed		0
20		GP	Increase of f-m sand at 31'	35' Bottom Depth of Screen	0
			Brown to Reddish brown sandy gravel - f-c angular to subangular sand with f-m gravel. Gravel is subangular consisting of basalt with quartz (alluvium), poorly graded, no odor, no sheen, saturated		0
25					
30					
35					

Boring logged by drill cuttings from cyclone

Well Casing and Screen Materials
 PVC Casing Diameter: 4-in Casing Material: Sch 40
 Seal Type: 3/8" Bentonite Chips Pack Type: 10-20 Colorado Silica Sand
 Screen Length: 15 ft
 Screen Type: Sch 40, 0.010" Milled Slots

