



## FIELD BOREHOLE LOG

Well ID: MW-317  
Total Depth (ft. bgs): 165

PROJECT: SRI Phase 4

PROJECT NUMBER: 10058697

SITE LOCATION: S. of Bldg. 720

PROJECT MANAGER: T. Holmes

LOGGED BY: C. Mokri

DATE STARTED: 10/11/19

DATE COMPLETED: 10/14/19

DRILLING CONTRACTOR: Cascade

DRILLER: J. Asua

METHOD/RIG: Sonic TS150CC

HOLE DIAMETER (IN): 8

GROUND SURFACE ELEVATION (NAVD): 305.3

DEPTH TO WATER (ft. btoc): See Table 1

BOREHOLE USE: Nested Monitoring Well

NOTES: PID measurement indicated where greater than 0. No water used during drilling.Well installed on 10/14, pad installed on 10/15 and wells developed 10/29-11/1

DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LAYER DEPTH	MATERIAL DESCRIPTION	Environmental Data PID (ppm)	WELL DIAGRAM
0						
—	ML		6.0	SILT, (ML) 5YR 5/3 reddish brown, dry, medium stiff, low plasticity, low dry strength, little fine sand		
—	CL		9.0	LEAN CLAY, (CL) 2.5YR 4/3 reddish brown, moist, medium stiff, low plasticity, trace fine sand		
10	CL		11.0	LEAN CLAY, (CL) 2.5YR 4/2 weak red, moist, medium stiff, medium plasticity		
—	MH		13.0	ELASTIC SILT, (MH) 2.5YR 4/3 reddish brown, moist, soft, medium plasticity		
—	CL		19.0	FAT CLAY, (CL) 2.5YR 5/3 reddish brown, moist, soft, medium plasticity		
20	CL		21.0	FAT CLAY, (CL) 2.5YR 5/3 reddish brown, moist, stiff, medium plasticity		
—	CH		23.0	FAT CLAY, (CH) 2.5YR 6/3 light reddish brown, moist, soft to medium stiff, high plasticity		
—	CL		27.0	LEAN CLAY, (CL) 2.5YR 5/2 weak red, moist, medium stiff, medium plasticity, trace fine sand		
30	CL		32.0	LEAN CLAY, (CL) 2.5YR 5/6 red, moist, medium stiff, medium plasticity, trace fine sand		
—	SC		37.0	CLAYEY SAND, (SC) 2.5YR 4/8 red, moist, soft, medium plasticity		
—	SP		38.0	POORLY GRADED SAND, (SP) 2.5YR 6/6 light red, fine to medium grained, dry, loose		
40	SP		39.0	POORLY GRADED SAND, (SP) 2.5YR 5/8 red, fine to medium grained, dry, stiff, trace clay		
—	SP		41.0	POORLY GRADED SAND, (SP) 2.5YR 6/6 light red, fine to medium grained, dry, loose		
—	SP		42.0	POORLY GRADED SAND, (SP) 2.5YR 7/4 light reddish brown, fine grained, dry, loose		
—	SW		44.0	WELL GRADED SAND, (SW) 2.5YR 7/1 light reddish gray, moist, loose		
—	SP		47.0	POORLY GRADED SAND, (SP) fine to medium grained, moist, loose		
—	SP		48.0	POORLY GRADED SAND WITH GRAVEL, (SP) 5YR 5/8 yellowish red, moist, medium dense		
50	SP		51.0	POORLY GRADED SAND, (SP) 2.5YR 4/8 red, moist, medium dense, trace clay, moderate cementation		
—	SP		53.0	POORLY GRADED SAND, (SP) 2.5YR 5/6 red, moist, trace clay, little gravel		
—	SC		54.0	CLAYEY SAND WITH GRAVEL, (SC) 2.5YR 6/6 light red, medium grained, medium stiff, medium plasticity		
—	SP		56.0			

- Cement-Bentonite Grout

CREATED BY: C. Mokri

CREATED DATE: 10/24/19

CHECKED BY: T. Holmes

CHECKED DATE: 2/28/20



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	SP		58.0	POORLY GRADED SAND, (SP) 2.5YR 4/6 red, fine to medium grained, loose, trace gravel		
				POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine to medium grained, very loose		
60	SW		60.0	WELL GRADED SAND, (SW) 10YR 7/6 yellow, moist, very loose, trace fine to medium gravel		
	SP		62.0	POORLY GRADED SAND, (SP) 10YR 5/4 yellowish brown / moderate yellowish brown, fine grained, moist, loose, trace clay		
	SP		65.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine grained, moist, very loose, trace gravel		
	SW		69.0	WELL GRADED SAND, (SW) 10YR 6/6 brownish yellow / dark yellowish orange, moist, very loose, little gravel		
70	SP		72.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine grained, moist, very loose		
	SW		74.0	WELL GRADED SAND, (SW) 10YR 6/8 brownish yellow, wet, very loose, trace fine gravel		
	SP		78.0	POORLY GRADED SAND, (SP) 10YR 8/6 yellow / pale yellowish orange, very loose, little gravel		
80	SW		81.0	WELL GRADED SAND, (SW) 7.5YR 6/8 reddish yellow, very loose, trace fine gravel		
	SW		84.0	WELL GRADED SAND, (SW) 7.5YR 7/6 reddish yellow, very loose, trace fine gravel		
	SW		88.0	WELL GRADED SAND, (SW) 7.5YR 7/6 reddish yellow, very loose, little fine gravel		
90	SW		92.0	WELL GRADED SAND, (SW) 7.5YR 7/6 reddish yellow, wet, very loose, trace fine gravel		
	SW		97.0	WELL GRADED SAND, (SW) 10YR 6/6 brownish yellow / dark yellowish orange, wet, very loose, little gravel		
	SW		98.0	WELL GRADED SAND, (SW) 10YR 7/6 yellow, wet, very loose, some gravel		
100	SW		100.0	WELL GRADED SAND, (SW) 10YR 7/6 yellow, wet, very loose, little gravel		
	SW			WELL GRADED SAND, (SW) 10YR 7/6 yellow, wet, very loose, no gravel		
	SW		108.0			
110	SW		111.0	WELL GRADED SAND, (SW) 10YR 7/6 yellow, wet, very loose, trace fine gravel		
	SW		114.0	WELL GRADED SAND WITH GRAVEL, (SW) 10YR 7/4 very pale brown / grayish orange, wet, very loose		
	SP		118.0	POORLY GRADED SAND, (SP) 10YR 6/4 light yellowish brown, very loose, little gravel		
120	SW			WELL GRADED SAND, (SW) 10YR 6/4 light yellowish brown, wet, very loose, trace gravel		

- Bentonite  
Chips- Prepacked  
Well Screen- Bentonite  
Chips- Prepacked  
Well Screen



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120	SW		121.0			
-	SP		123.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine to medium grained, wet, very loose, trace gravel		
-				WELL GRADED SAND, (SP) 10YR 7/6 yellow, fine grained, wet, very loose, no gravel		
-	SP					- Bentonite Chips
130			130.0			
-	SP			POORLY GRADED SAND, (SP) 2.5Y 8/6 yellow, fine to medium grained, wet, very loose, no gravel		
-			138.0			
-	SC		138.3	CLAYEY SAND, (SC) 10YR 7/8 yellow, wet, medium stiff, medium plasticity		- Prepacked Well Screen
140				POORLY GRADED SAND, (SP) 10YR 7/8 yellow, fine to medium grained, very loose		
-	SP					- Bentonite Chips
-			146.0			
-				POORLY GRADED SAND, (SP) 10YR 7/6 yellow, wet, loose, no gravel		
150	SP					- Prepacked Well Screen
-			156.0			
-	SP		157.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, wet, loose, trace clay		
-				FAT CLAY, (CH) Gley 1 4/N dark grey, soft, high plasticity		
160	CH					- Bentonite Chips
-			165.0			

Bottom of borehole at 165.0 feet.