

Monitoring Well Network Project Peace Region, British Columbia, Canada			EERI-9		
Energy and Environment Research Initiative Dept of Earth, Oceans, & Atmospheric Sciences University of British Columbia			Date Drilled : 6/24/2019-6/25/2019 Location : Groundbirch, BC Equipment : Boart Longyear LS600 Sonic Track Logged By : Max Goetz Sampled By : Andrew Allen, Alex Nott  Drilled By : Omega Environmental Drilling  Sonic (O.D. = 15.24 cm) : 0-73.5 m		
Depth in Meters	Water Info	Well: 3" PVC, 0.020 slot	GRAIN SIZE & LITHOLOGY		DESCRIPTION
			gravel	sand	
0					Clay with minor silt. <1% clasts (granules). Grey matrix, minor signs of iron oxidation in areas.
5					
10					
15					
20					
25					
30					Silty clay diamict, matrix is harder to cut, 15-30% clasts (granules to cobble sized). Many well rounded Jasper cobbles indicative of Cordilleran province. Cobble sized angular shale clasts common. Sub-angular sandstone clasts (cobble sized) less common. Matrix increases in silt content with depth.
35					
40					
45					
50	Driller reports inflow				Sandy gravel. Fine/medium sand mixed with gravel. Orange iron oxidation is strong. Poorly sorted, clast supported, mostly rounded pebbles and cobbles with lesser boulders. Jasper, and quartz pebbles common (well rounded).
55					Silty clay diamict, grey matrix, iron oxidized granules. 5-10% clasts. Sharp contact with overlying unit.
60					Clay. Soft, grey silty/fine sandy clay. No clasts seen, minor iron oxidation in matrix.
65					Silty clay diamict, very dense, large drop in clay content, 5% clasts (granules only).
66.4-69.8m	Driller reports inflow (66.4-69.8m)				Silty clay, light brown, <1% granule clasts, minor iron oxidation in matrix,
70					Sandy gravel. Poorly sorted fine/medium sandy gravel. Lots of iron oxidation. Sand coarsens from fine to medium downwards. Clast supported, mostly pebbles and sub rounded jasper and quartz cobbles (some boulders).
75					Incompetent shale. Fissile laminations visible in shale chips, strong iron oxidation decreases in shale with depth. White soft mineral precipitate common along bedding planes (not calcite, no reaction with HCl).