



**Contact Info**  
**Address**  
**Company Name**  
**City, State/Province**

**Lugeon Test Summary - BH-01**

Project: Lugeon Test Example

Number:

Client:

Test Interval Top Bottom	Graphs			Result
4.00 m 14.60 m				Turbulent Lugeon: 4.4 Hydraulic Conductivity: 5.39E-7 m/s Hydraulic Conductivity: 0.047 m/d
20.00 m 30.00 m				Turbulent Lugeon: 5.6 Hydraulic Conductivity: 6.77E-7 m/s Hydraulic Conductivity: 0.058 m/d
45.00 m 55.00 m				Turbulent Lugeon: 4.3 Hydraulic Conductivity: 5.19E-7 m/s Hydraulic Conductivity: 0.045 m/d
72.00 m 82.00 m				Turbulent Lugeon: 4.1 Hydraulic Conductivity: 4.91E-7 m/s Hydraulic Conductivity: 0.042 m/d

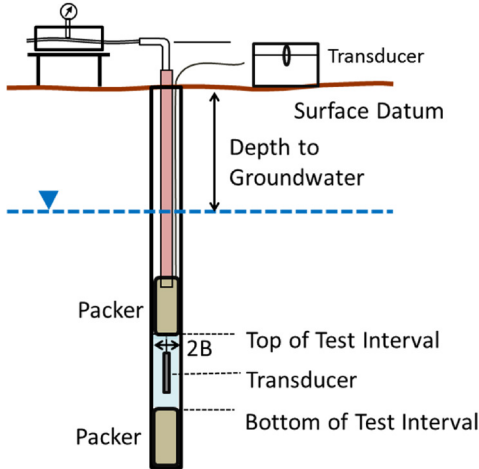
Project: Lugeon Test Example

Number:

Client:

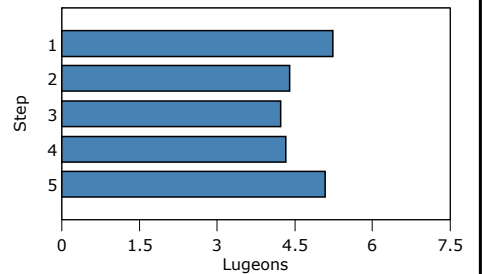
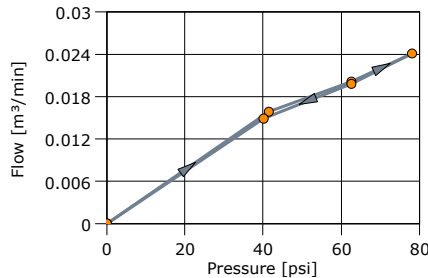
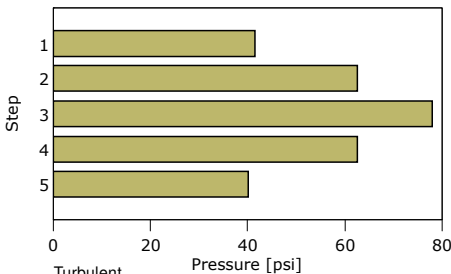
Location:	Lugeon Test: Lugeon Test - shallow interval	Tested bore: BH-01
Test Conducted by:		Test Date: 1/30/2014
Analysis Performed by: John Smith		Analysis Date: 1/30/2014

Lithology:



Top of Test Interval: 4.00 m  
Bottom of Test Interval: 14.60 m  
Length of Test Interval: 10.60 m  
Depth to Groundwater: 5.00 m  
Radius of Test Section: 0.10 m

Step	Pressure [psi]	Flow Meter Readings [m³]										Average Flow Rate [m³/min]	Hydraulic Conductivity		
		1	2	3	4	5	6	7	8	9	10		[m/s]	[m/d]	Lugeon
1	41.5	8.836	8.852	8.867	8.883	8.899	8.915	8.931	8.947	8.962	8.979	0.016	$6.41 \times 10^{-7}$	0.055	5.2
2	62.5	9.023	9.043	9.062	9.083	9.103	9.123	9.144	9.164	9.184	9.204	0.020	$5.39 \times 10^{-7}$	0.047	4.4
3	78.0	9.252	9.276	9.300	9.325	9.348	9.372	9.396	9.421	9.445	9.469	0.024	$5.18 \times 10^{-7}$	0.045	4.2
4	62.5	9.500	9.520	9.539	9.559	9.579	9.599	9.618	9.638	9.658	9.678	0.020	$5.30 \times 10^{-7}$	0.046	4.3
5	40.0	9.715	9.730	9.745	9.760	9.775	9.790	9.805	9.820	9.835	9.849	0.015	$6.23 \times 10^{-7}$	0.054	5.1
											Average	$5.70 \times 10^{-7}$	0.049	4.7	



Turbulent  
Lugeon: 4.4  
Hydraulic Conductivity:  $5.39 \times 10^{-7}$  m/s  
Hydraulic Conductivity: 0.047 m/d

**Lugeon Test Analysis Report**

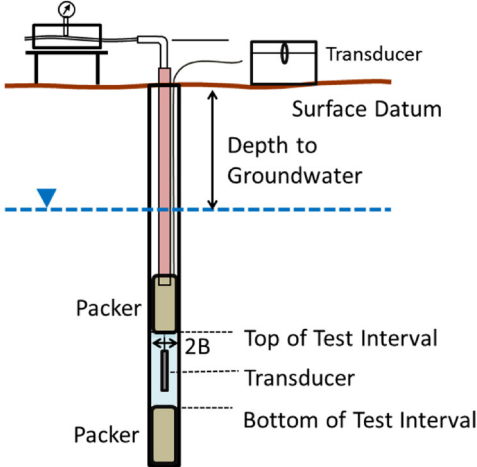
Project: Lugeon Test Example

Number:

Client:

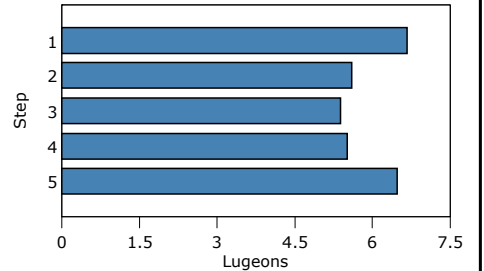
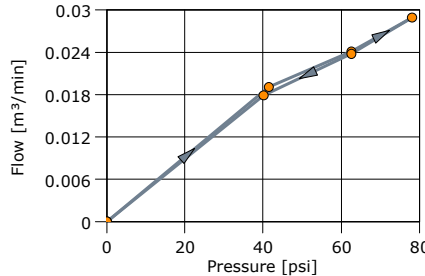
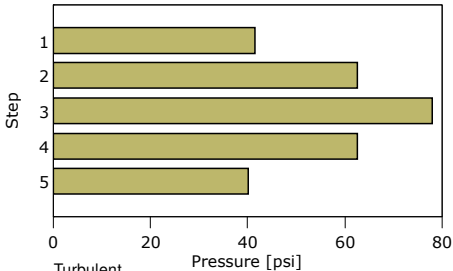
Location:	Lugeon Test: Lugeon Test - middle interval1	Tested bore: BH-01
Test Conducted by:		Test Date: 1/30/2014
Analysis Performed by: John Smith		Analysis Date: 1/30/2014

Lithology:



Top of Test Interval: 20.00 m  
Bottom of Test Interval: 30.00 m  
Length of Test Interval: 10.00 m  
Depth to Groundwater: 5.00 m  
Radius of Test Section: 0.10 m

Step	Pressure [psi]	Flow Meter Readings [m³]										Average Flow Rate [m³/min]	Hydraulic Conductivity		
		1	2	3	4	5	6	7	8	9	10		[m/s]	[m/d]	Lugeon
1	41.5	10.603	10.622	10.640	10.660	10.679	10.698	10.717	10.736	10.754	10.775	0.019	$8.05 \times 10^{-7}$	0.070	6.7
2	62.5	10.828	10.852	10.874	10.900	10.924	10.948	10.973	10.997	11.021	11.045	0.024	$6.77 \times 10^{-7}$	0.058	5.6
3	78.0	11.102	11.131	11.160	11.190	11.218	11.246	11.275	11.305	11.334	11.363	0.029	$6.50 \times 10^{-7}$	0.056	5.4
4	62.5	11.400	11.424	11.447	11.471	11.495	11.519	11.542	11.566	11.590	11.614	0.024	$6.66 \times 10^{-7}$	0.058	5.5
5	40.0	11.658	11.676	11.694	11.712	11.730	11.748	11.766	11.784	11.802	11.819	0.018	$7.83 \times 10^{-7}$	0.068	6.5
											Average	$7.16 \times 10^{-7}$	0.062	5.9	



Turbulent  
Lugeon: 5.6  
Hydraulic Conductivity:  $6.77 \times 10^{-7}$  m/s  
Hydraulic Conductivity: 0.058 m/d

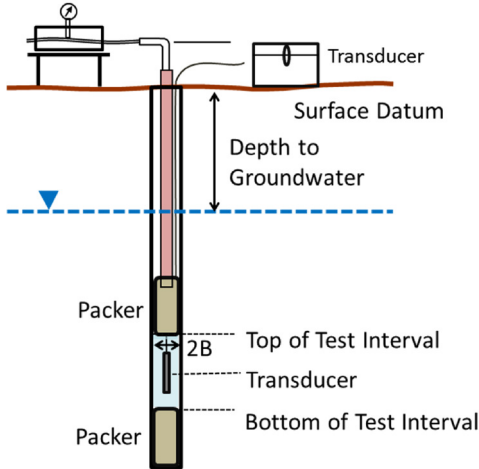
Project: Lugeon Test Example

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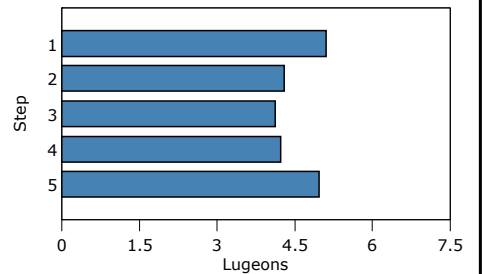
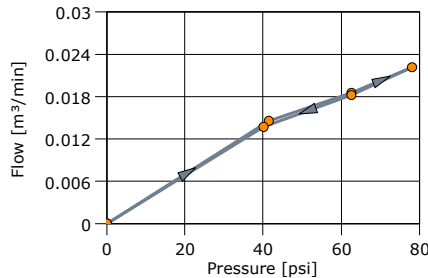
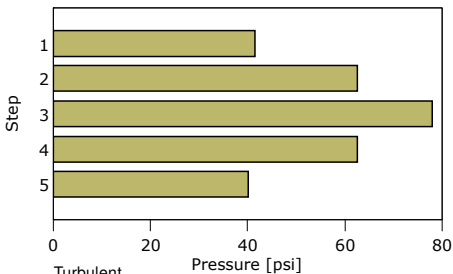
Location:	Lugeon Test: Lugeon Test - middle interval2	Tested bore: BH-01
Test Conducted by:		Test Date: 1/30/2014
Analysis Performed by: John Smith		Analysis Date: 1/30/2014

Lithology:



Top of Test Interval: 45.00 m  
Bottom of Test Interval: 55.00 m  
Length of Test Interval: 10.00 m  
Depth to Groundwater: 5.00 m  
Radius of Test Section: 0.10 m

Step	Pressure [psi]	Flow Meter Readings [m³]										Average Flow Rate [m³/min]	Hydraulic Conductivity		
		1	2	3	4	5	6	7	8	9	10		[m/s]	[m/d]	Lugeon
1	41.5	8.129	8.144	8.158	8.172	8.187	8.202	8.217	8.231	8.245	8.261	0.015	$6.17 \times 10^{-7}$	0.053	5.1
2	62.5	8.301	8.320	8.337	8.356	8.375	8.393	8.412	8.431	8.449	8.468	0.019	$5.19 \times 10^{-7}$	0.045	4.3
3	78.0	8.512	8.534	8.556	8.579	8.600	8.622	8.644	8.667	8.689	8.711	0.022	$4.99 \times 10^{-7}$	0.043	4.1
4	62.5	8.740	8.758	8.776	8.794	8.813	8.831	8.849	8.867	8.885	8.904	0.018	$5.10 \times 10^{-7}$	0.044	4.2
5	40.0	8.938	8.952	8.965	8.979	8.993	9.007	9.021	9.034	9.048	9.061	0.014	$6.00 \times 10^{-7}$	0.052	5.0
											Average	$5.49 \times 10^{-7}$	0.047	4.5	



Turbulent  
Lugeon: 4.3  
Hydraulic Conductivity:  $5.19 \times 10^{-7}$  m/s  
Hydraulic Conductivity: 0.045 m/d

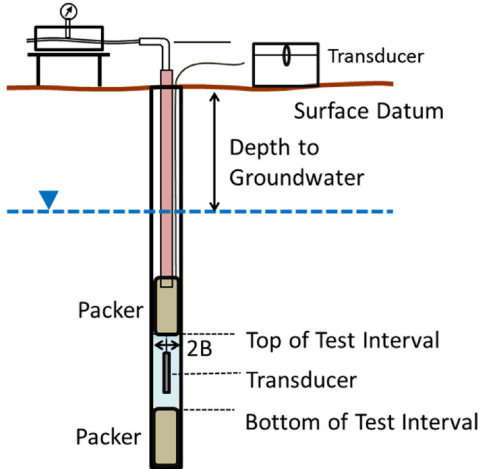
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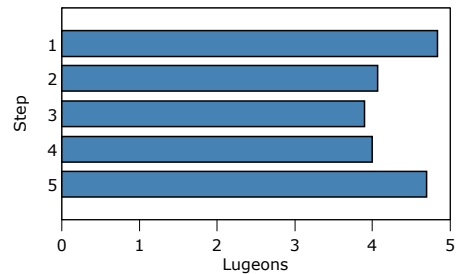
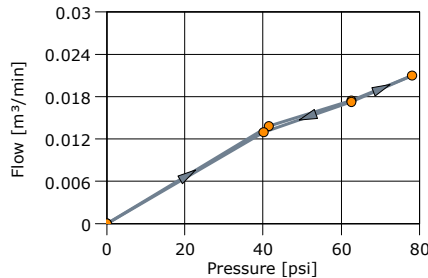
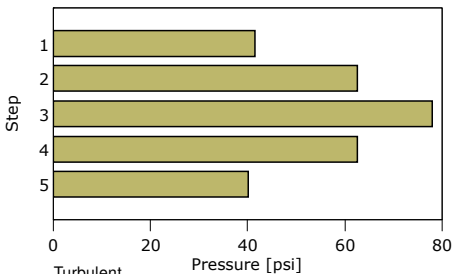
Location:	Lugeon Test: Lugeon Test - deep interval	Tested bore: BH-01
Test Conducted by:		Test Date: 1/30/2014
Analysis Performed by: John Smith		Analysis Date: 1/30/2014

Lithology:



Top of Test Interval: 72.00 m  
Bottom of Test Interval: 82.00 m  
Length of Test Interval: 10.00 m  
Depth to Groundwater: 5.00 m  
Radius of Test Section: 0.10 m

Step	Pressure [psi]	Flow Meter Readings [m <sup>3</sup> ]										Average Flow Rate [m <sup>3</sup> /min]	Hydraulic Conductivity		
		1	2	3	4	5	6	7	8	9	10		[m/s]	[m/d]	Lugeon
1	41.5	7.687	7.701	7.714	7.728	7.742	7.756	7.770	7.784	7.797	7.812	0.014	$5.84 \times 10^{-7}$	0.050	4.8
2	62.5	7.850	7.867	7.884	7.902	7.920	7.937	7.955	7.973	7.990	8.007	0.017	$4.91 \times 10^{-7}$	0.042	4.1
3	78.0	8.049	8.070	8.091	8.113	8.133	8.154	8.175	8.196	8.217	8.238	0.021	$4.71 \times 10^{-7}$	0.041	3.9
4	62.5	8.265	8.282	8.299	8.316	8.334	8.351	8.368	8.385	8.402	8.420	0.017	$4.83 \times 10^{-7}$	0.042	4.0
5	40.0	8.452	8.465	8.478	8.491	8.504	8.517	8.530	8.543	8.556	8.569	0.013	$5.68 \times 10^{-7}$	0.049	4.7
											Average	$5.19 \times 10^{-7}$	0.045	4.3	



Turbulent  
Lugeon: 4.1  
Hydraulic Conductivity:  $4.91\text{E-}7$  m/s  
Hydraulic Conductivity: 0.042 m/d