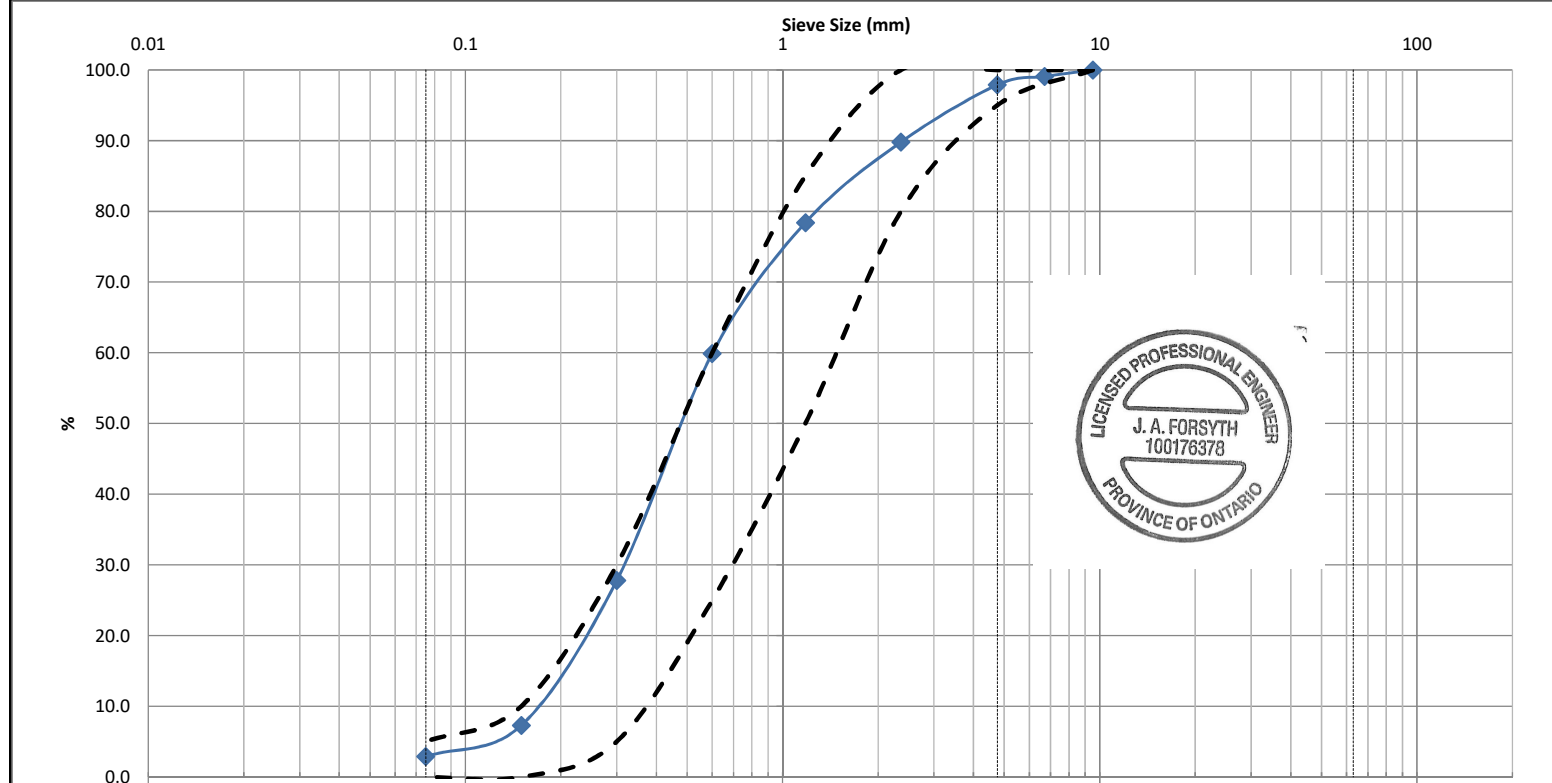


CLIENT:	Greely Sand & Gravel	DESCRIPTION:	Sand	FILE NO:	PM0754
CONTRACT NO.:	-	SPECIFICATION:	<b>Mantle Sand (Eljen)</b>	LAB NO:	99365
PROJECT:	Laboratory Testing	INTENDED USE:	-	DATE RECEIVED:	3-May-18
DATE SAMPLED:	N/A	PIT OR QUARRY:	Pit	DATE TESTED:	4-May-18
SAMPLED BY:	Client	SOURCE LOCATION:	Pyper	DATE REPORTED:	9-May-18
		SAMPLE LOCATION:	-	TESTED BY:	D.B/E.B



	Silt and Clay			Sand			Gravel		Cobble			
				Fine	Medium	Coarse	Fine	Coarse				
Identification	Soil Classification						MC(%)	LL	PL	PI	Cc	Cu
											1.00	3.5
	D100	D60	D30	D10	Gravel (%)		Sand (%)		Silt (%)		Clay (%)	
	9.5	0.6	0.32	0.17	2.1		95.0		2.9			
Comments				The sample is representative of a Poorly graded fine to coarse sand with trace fines (SP) with an <b>Estimated T Time = 6 to 8 min/cm</b> . The percolation rate provided above is based on the gradation of the test sample submitted, and as such, is approximate only. The values chosen for design should take into account the expected density in the field. This material is acceptable for placement as Eljen Specified GFS Sand.								

*Low Run*

*Tested*

<p><b>patersongroup</b> consulting engineers</p>					<p><b>SIEVE ANALYSIS</b> <b>ASTM C136</b></p>	
CLIENT: Greely Sand & Gravel		DESCRIPTION: Sand		FILE NO.: PM0754		
CONTRACT NO.: -		SPECIFICATION: <b>Mantle Sand (Eljen)</b>		LAB NO.: 99365		
PROJECT: Laboratory Testing		INTENDED USE: -		DATE REC'D: 3-May-18		
		PIT OR QUARRY: Pit		DATE TESTED: 4-May-18		
DATE SAMPLED: N/A		SOURCE LOCATION: Pyper		DATE REP'D: 9-May-18		
SAMPLED BY: Client		SAMPLE LOCATION: -		TESTED BY: D.B/E.B		
WEIGHT BEFORE WASH			A+B	299.5		
WEIGHT AFTER WASH		A	B	A+B	292.0	
SIEVE SIZE (mm)	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	LOWER SPEC	UPPER SPEC	REMARK
150						
106						
75						
63						
53						
37.5						
26.5						
19						
16						
13.2						
9.5	0.0	0.0	100.0	100.0	100.0	
6.7	2.6	0.9	99.1			
4.75	6.3	2.1	97.9	95.0	100.0	
2.36	30.4	10.2	89.8	80.0	100.0	
1.18	64.7	21.6	78.4	50.0	85.0	
0.6	120.1	40.1	59.9	25.0	60.0	
0.3	216.1	72.2	27.8	5.0	30.0	
0.15	277.5	92.7	7.3	0.0	10.0	
0.075	290.9	97.1	2.9	0.0	5.0	
PAN	291.5					
SIEVE CHECK FINE		0.17	0.3% max.		REFERENCE MATERIAL	
OTHER TESTS				RESULT	LAB NO.	RESULT
REVIEWED BY:	Curtis Beadow		Joe Forsyth, P. Eng.			
	