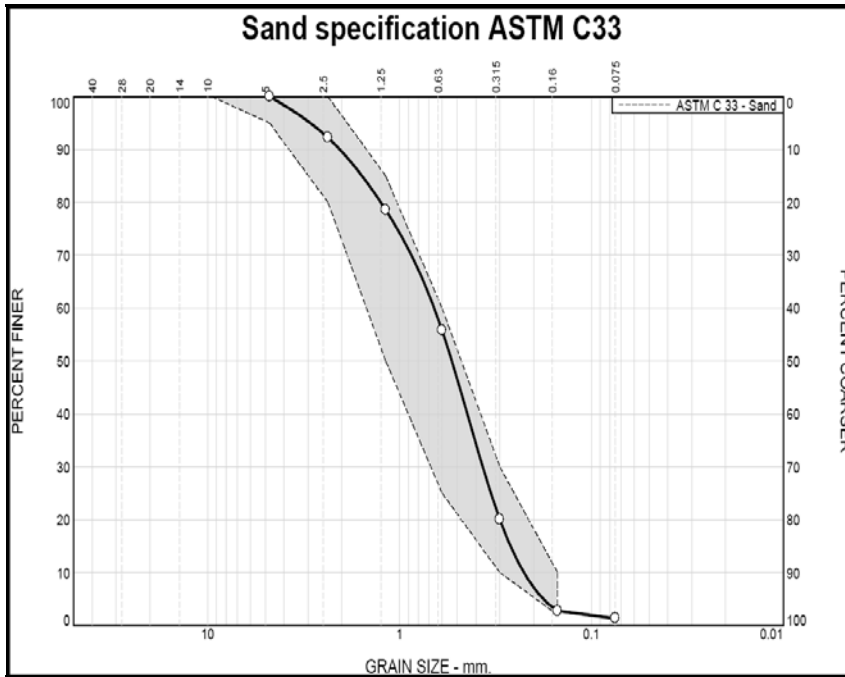


LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H0350

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5.5 to 44 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.8	92.2	80 - 100
No. 16	13.7	78.6	50 - 85
No. 30	22.8	55.8	25 - 60
No. 50	35.8	20.0	10 - 30
No. 100	17.3	2.7	2 - 10
No. 200	1.4	1.3	
Pan	1.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5.5 to 44 feet

Percent Gravel + 1.5 inch	4.1		
Percent Gravel 1.5 to 0.75 inches	5.0		
Percent Gravel 0.75 inch to #4 sieve	14.1		
Total Percent Gravel		23.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
5.5 - 10	15.0	3.8	3.8	7.5	33.8
10 - 15	17.5	5.6	4.1	7.8	31.6
15 - 20	22.8	2.1	5.6	15.1	31.9
20 - 25	25.8	6.4	7.0	12.4	18.5
25 - 30	19.1	3.7	2.4	13.0	32.7
30 - 35	29.0	0.9	5.4	22.6	37.9
35 - 40	36.1	6.2	8.4	21.5	35.7
40 - 44	19.2	4.3	3.2	11.7	25.0

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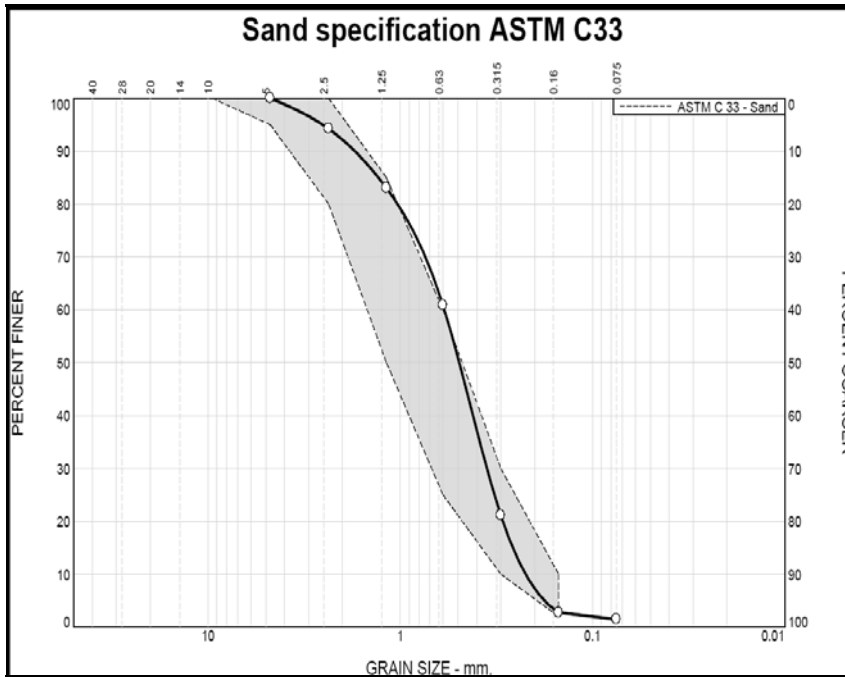
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HOLE NO. H0650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.8	94.2	80 - 100
No. 16	11.2	83.0	50 - 85
No. 30	22.1	60.9	25 - 60
No. 50	39.7	21.1	10 - 30
No. 100	18.4	2.7	2 - 10
No. 200	1.3	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 40 feet

Percent Gravel + 1.5 inch	4.2		
Percent Gravel 1.5 to 0.75 inches	4.2		
Percent Gravel 0.75 inch to #4 sieve	9.5		
Total Percent Gravel		17.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	11.4	2.3	3.2	34.5
10 - 15	11.3	0.0	3.0	24.0
15 - 20	8.2	0.0	1.7	23.9
20 - 25	18.0	4.5	4.4	34.5
25 - 30	27.0	11.7	3.9	32.7
30 - 35	29.2	10.3	7.3	32.3
35 - 40	21.4	1.1	6.1	29.3

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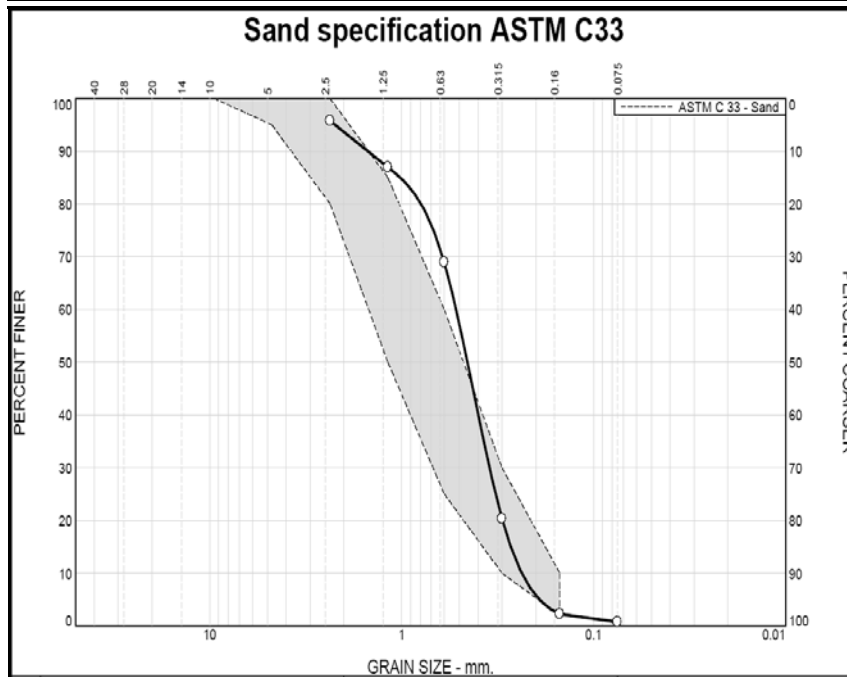
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HOLE NO. H0850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.2	95.8	80 - 100
No. 16	8.8	87.0	50 - 85
No. 30	18.0	68.9	25 - 60
No. 50	48.6	20.3	10 - 30
No. 100	18.1	2.3	2 - 10
No. 200	1.5	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 feet

Percent Gravel + 1.5 inch	5.1		
Percent Gravel 1.5 to 0.75 inches	4.9		
Percent Gravel 0.75 inch to #4 sieve	10.0		
Total Percent Gravel		19.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 10	24.5	0.0	7.3	17.2	40.0
10 - 15	17.7	5.9	5.4	6.5	27.4
15 - 20	7.6	3.7	0.4	3.5	24.9
20 - 25	20.1	6.4	4.9	8.8	30.6
25 - 30	28.8	2.3	9.7	16.7	26.3
30 - 35	22.0	6.2	6.0	9.8	29.4
35 - 40	22.6	11.8	2.7	8.2	33.4
40 - 45	14.4	6.5	1.8	6.1	22.7

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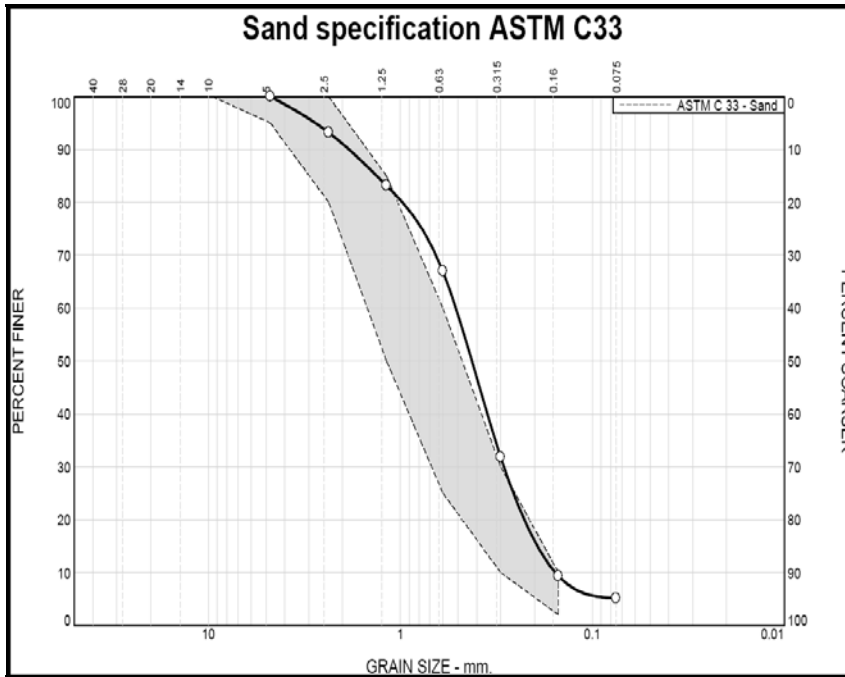
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HOLE NO. H0950

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.8	93.2	80 - 100
No. 16	10.0	83.2	50 - 85
No. 30	16.2	67.0	25 - 60
No. 50	35.2	31.8	10 - 30
No. 100	22.5	9.3	2 - 10
No. 200	4.2	5.1	
Pan	5.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 40 feet

Percent Gravel + 1.5 inch	1.7		
Percent Gravel 1.5 to 0.75 inches	3.4		
Percent Gravel 0.75 inch to #4 sieve	10.9		
Total Percent Gravel		16.0	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4.5 - 10	23.1	2.5	5.2	53.9
10 - 20	13.7	1.3	3.1	54.3
20 - 25	19.5	2.7	3.0	33.8
25 - 30	24.9	0.7	7.2	29.7
30 - 35	3.1	0.0	0.7	22.6
35 - 40	14.0	3.2	1.9	31.4

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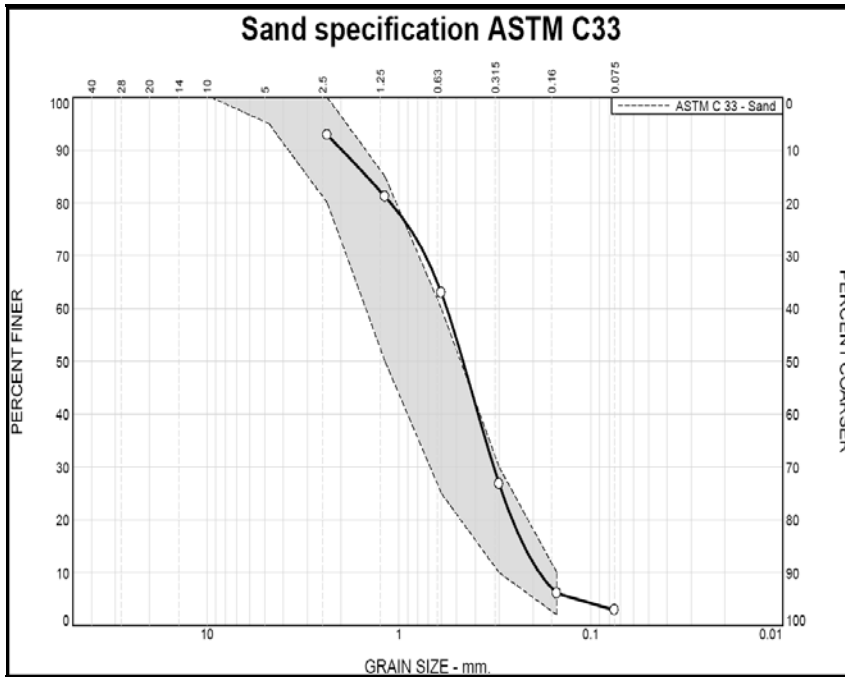
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HOLE NO. H1150

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 135 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.2	92.8	80 - 100
No. 16	11.6	81.2	50 - 85
No. 30	18.2	63.0	25 - 60
No. 50	36.2	26.8	10 - 30
No. 100	20.7	6.1	2 - 10
No. 200	3.2	2.9	
Pan	2.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 135 feet

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	10.7		
Total Percent Gravel		18.4	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3.5 - 10	9.2	1.5	2.0	5.7	42.2
10 - 15	20.5	4.3	3.5	12.7	24.3
15 - 20	13.2	1.8	2.0	9.3	35.9
20 - 40	8.0	0.0	2.4	5.7	25.8
40 - 45	29.5	14.6	3.2	11.7	40.6
45 - 60	4.6	0.7	1.7	2.2	40.4
60 - 75	3.3	0.0	1.0	2.4	39.1
75 - 80	31.5	11.6	4.9	15.0	37.8
80 - 85	22.2	6.6	4.6	11.0	37.0
85 - 90	9.7	2.5	1.0	6.2	46.6
90 - 95	5.8	0.0	0.8	5.0	28.8
95 - 100	32.5	7.6	9.0	15.9	45.6
100 - 105	37.6	4.8	8.5	24.3	29.3
105 - 110	50.6	14.9	12.0	23.8	32.3
110 - 115	50.4	14.8	11.2	24.4	41.9
115 - 120	38.3	8.5	6.6	23.1	40.2
120 - 125	40.7	3.6	8.4	28.7	38.6
125 - 130	11.8	2.4	0.9	8.5	37.2
130 - 135	22.1	0.5	4.7	16.8	39.3

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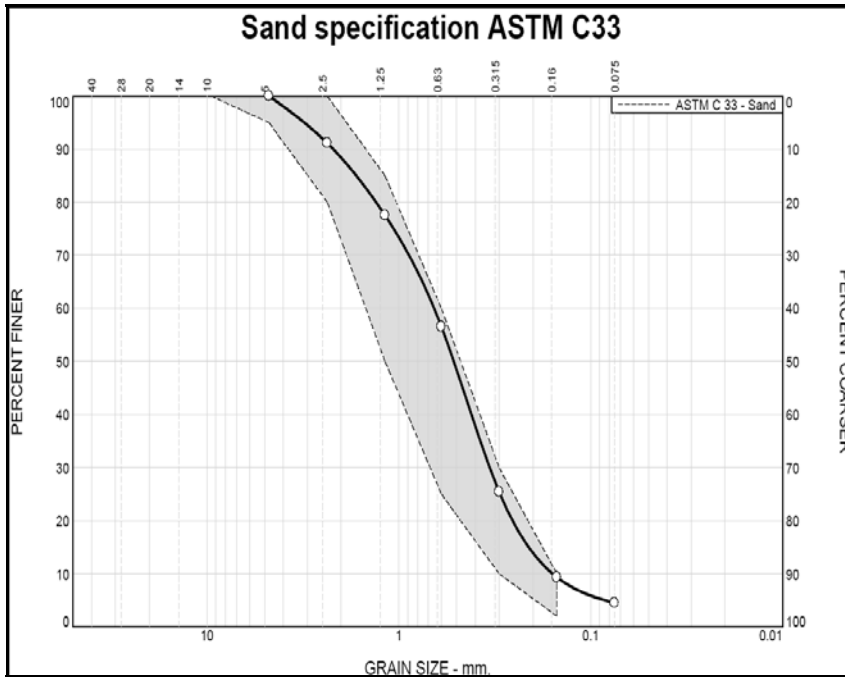
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H1350

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 127 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.8	91.2	80 - 100
No. 16	13.6	77.5	50 - 85
No. 30	21.0	56.6	25 - 60
No. 50	31.2	25.4	10 - 30
No. 100	16.1	9.3	2 - 10
No. 200	4.8	4.5	
Pan	4.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 127 feet

Percent Gravel + 1.5 inch	6.0		
Percent Gravel 1.5 to 0.75 inches	6.4	Total Percent Gravel	27.0
Percent Gravel 0.75 inch to #4 sieve	14.6		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	20.9	5.3	6.1	9.5	38.2
10 - 20	9.7	4.1	1.0	4.6	39.7
20 - 30	9.9	0.0	2.6	7.3	22.8
30 - 40	12.2	1.3	1.9	9.1	25.3
40 - 50	2.6	0.0	0.5	2.1	33.6
50 - 60	25.4	2.6	6.8	16.1	47.1
60 - 70	5.6	0.9	0.3	4.3	25.8
70 - 80	6.1	0.0	1.3	4.8	31.3
80 - 90	45.2	10.4	9.0	25.7	42.5
90 - 100	36.2	6.6	10.0	19.7	53.8
100 - 105	63.1	15.0	13.9	34.2	43.4
105 - 110	55.6	6.6	15.9	33.0	52.0
110 - 115	59.0	25.5	8.8	24.6	31.4
115 - 120	67.9	19.9	15.5	32.5	39.9
120 - 127	63.2	16.7	21.1	25.4	64.6

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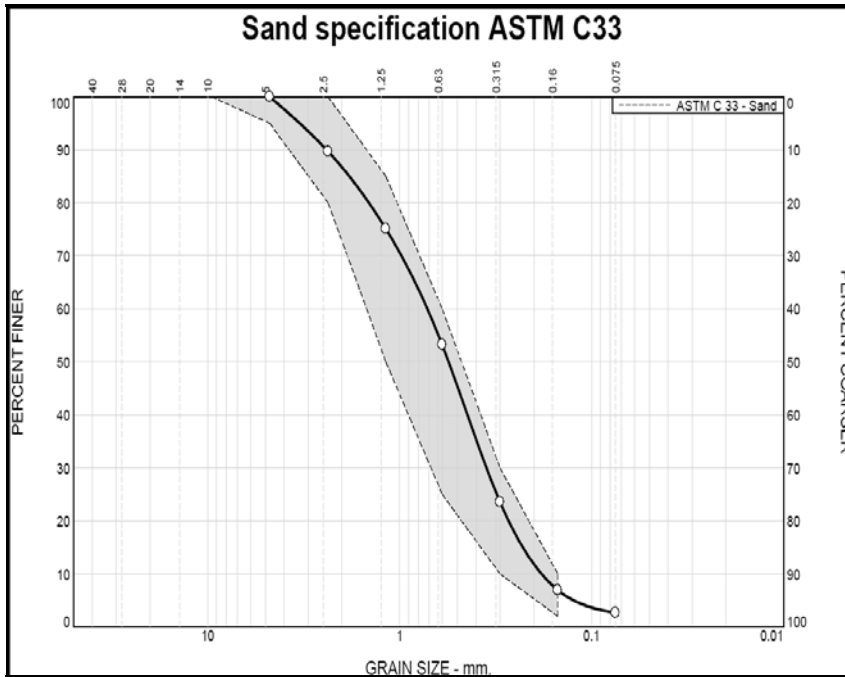
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H1550

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1.5 to 146 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.3	89.7	80 - 100
No. 16	14.6	75.1	50 - 85
No. 30	21.9	53.2	25 - 60
No. 50	29.7	23.5	10 - 30
No. 100	16.6	6.9	2 - 10
No. 200	4.3	2.6	
Pan	2.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1.5 to 146 feet

Percent Gravel + 1.5 inch	8.1		
Percent Gravel 1.5 to 0.75 inches	5.6	Total Percent Gravel	26.6
Percent Gravel 0.75 inch to #4 sieve	12.8		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
1.5 - 10	7.9	1.3	2.2	4.3	42.6
10 - 15	12.5	0.0	3.4	9.1	28.4
15 - 20	16.2	3.3	4.1	8.8	30.9
20 - 30	12.7	2.4	2.1	8.2	36.3
30 - 40	11.1	1.5	1.7	7.9	39.2
40 - 45	5.5	0.0	0.4	5.1	37.3
45 - 50	13.6	2.4	3.1	8.0	28.9
50 - 55	42.1	9.3	8.2	24.5	30.8
55 - 60	21.2	3.4	5.3	12.5	25.4
60 - 65	21.3	8.3	2.3	10.7	30.6
65 - 70	10.9	2.9	2.2	5.8	20.4
70 - 75	17.6	7.5	3.6	6.4	25.8
75 - 80	8.3	5.7	1.2	1.4	26.3
100 - 105	9.8	0.8	1.4	7.6	34.9
105 - 110	15.6	0.0	2.0	13.7	24.5
110 - 115	47.8	18.7	10.9	18.2	31.2
115 - 120	65.4	27.5	12.2	25.7	36.1
120 - 125	63.2	24.1	14.9	24.2	59.1
125 - 130	64.7	22.0	18.5	24.2	55.6
130 - 135	58.7	22.5	15.1	21.2	48.3
135 - 140	55.6	28.0	9.8	17.8	50.2
140 - 146	42.8	5.3	8.7	28.8	65.1

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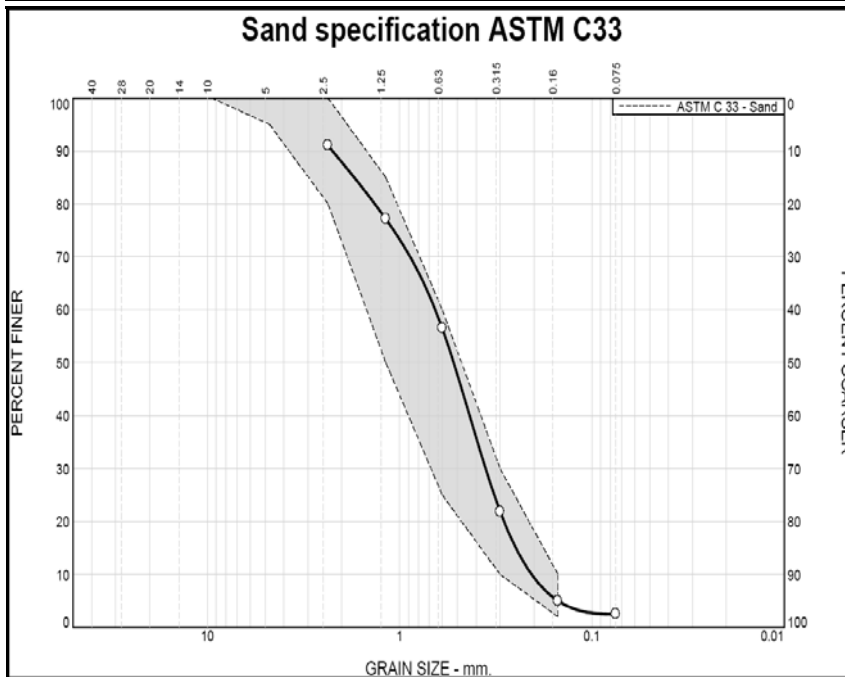
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H1750

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 9 to 145 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.0	91.0	80 - 100
No. 16	13.9	77.1	50 - 85
No. 30	20.6	56.5	25 - 60
No. 50	34.7	21.9	10 - 30
No. 100	16.9	5.0	2 - 10
No. 200	2.5	2.5	
Pan	2.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 9 to 145 feet

Percent Gravel + 1.5 inch	2.3		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	13.1		
		Total Percent Gravel	18.9

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	Total	PERCENT GRAVEL			Sample Wt. (lbs.)
		+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
9 - 15	15.3	3.3	2.2	9.7	31.4
15 - 20	27.4	5.3	6.5	15.7	33.5
20 - 30	20.1	2.8	4.5	12.7	37.4
30 - 40	16.7	2.2	1.5	13.0	38.5
40 - 50	34.7	1.3	5.4	27.9	44.8
50 - 60	36.0	6.2	6.1	23.7	44.5
60 - 80	6.9	2.2	1.1	3.6	33.8
80 - 100	2.9	0.0	0.6	2.3	26.2
120 - 140	23.2	0.9	5.2	17.2	40.9
140 - 143	63.0	11.8	11.7	39.5	30.3

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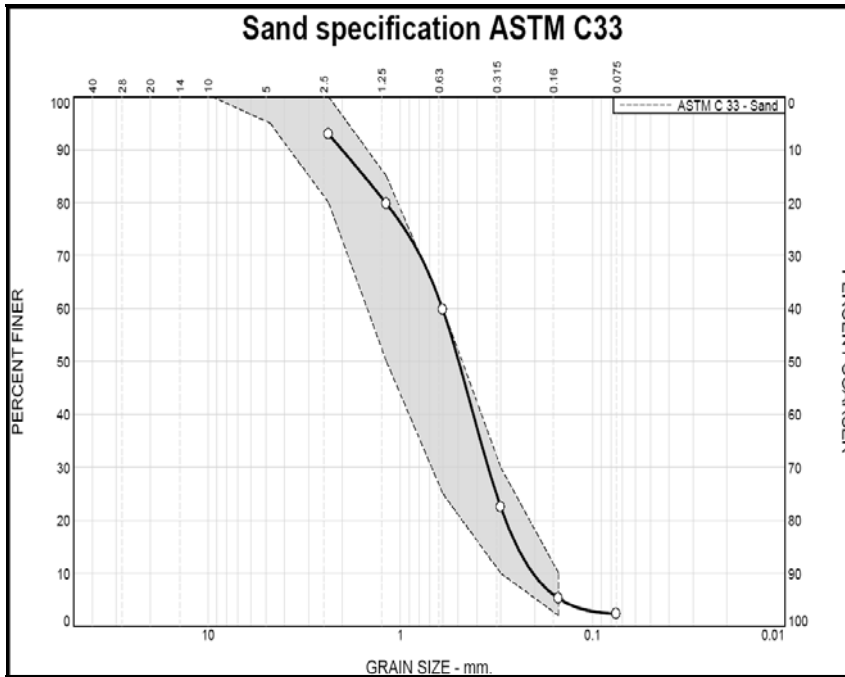
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H1950

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 132 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.1	92.9	80 - 100
No. 16	13.1	79.8	50 - 85
No. 30	20.0	59.8	25 - 60
No. 50	37.3	22.4	10 - 30
No. 100	17.2	5.2	2 - 10
No. 200	2.9	2.3	
Pan	2.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 132 feet

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	18.0
Percent Gravel 0.75 inch to #4 sieve	11.0		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
2 - 10	10.4	1.5	3.4	5.5	41.9
10 - 20	14.5	4.2	1.4	8.8	55.9
20 - 40	8.7	0.7	1.0	7.0	34.0
40 - 50	7.3	2.2	1.3	3.7	29.3
50 - 55	15.7	0.5	4.3	10.9	35.9
55 - 60	20.3	3.5	4.9	12.0	32.3
60 - 80	11.2	3.1	2.6	5.5	36.6
80 - 85	19.5	2.5	3.9	13.1	39.6
85 - 100	4.0	0.0	0.7	3.3	43.1
100 - 110	47.1	6.9	11.3	28.9	45.3
110 - 120	35.5	3.7	8.9	22.9	51.7
120 - 125	26.9	1.3	5.3	20.2	33.5
125 - 132	49.0	12.3	12.7	24.0	54.2

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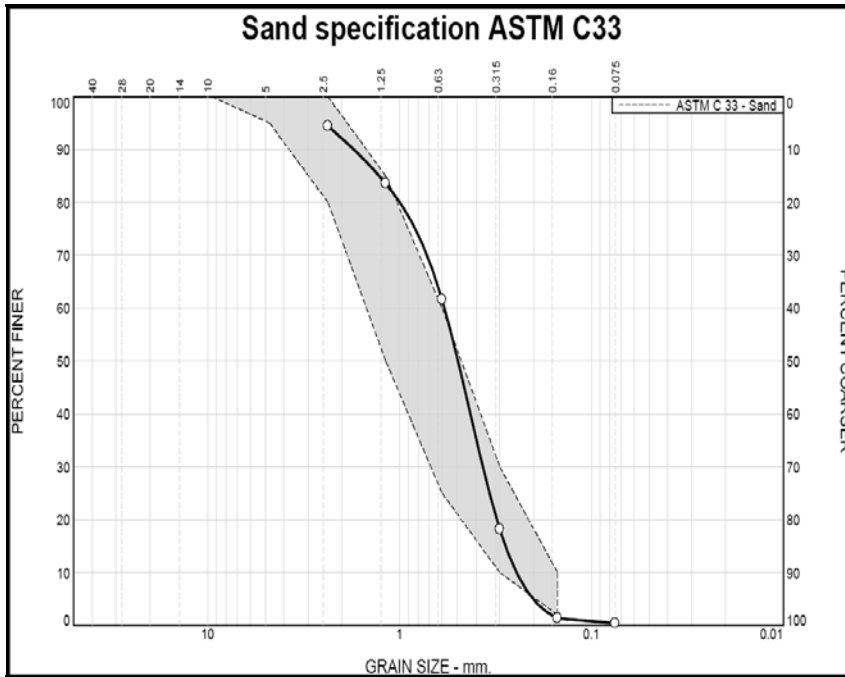
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HOLE NO. H2250

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.6	94.4	80 - 100
No. 16	10.9	83.6	50 - 85
No. 30	21.9	61.6	25 - 60
No. 50	43.5	18.1	10 - 30
No. 100	16.8	1.4	2 - 10
No. 200	1.0	0.4	
Pan	0.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 65 feet

Percent Gravel + 1.5 inch	3.7		
Percent Gravel 1.5 to 0.75 inches	4.6		
Percent Gravel 0.75 inch to #4 sieve	8.4		
Total Percent Gravel		16.7	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	15.0	0.0	3.5	11.5	28.0
10 - 15	12.5	0.0	4.2	8.3	25.2
15 - 20	19.6	1.5	7.6	10.5	26.8
20 - 25	20.8	8.9	3.1	8.8	32.0
25 - 35	2.8	0.0	0.5	2.3	26.9
35 - 40	31.6	3.6	13.2	14.8	35.1
40 - 45	24.3	9.9	6.0	8.4	31.6
45 - 50	16.0	2.3	4.8	9.0	26.4
50 - 55	21.9	10.1	4.5	7.2	28.0
55 - 60	18.9	5.6	5.3	8.0	26.4
60 - 65	14.4	2.9	2.5	9.0	27.7

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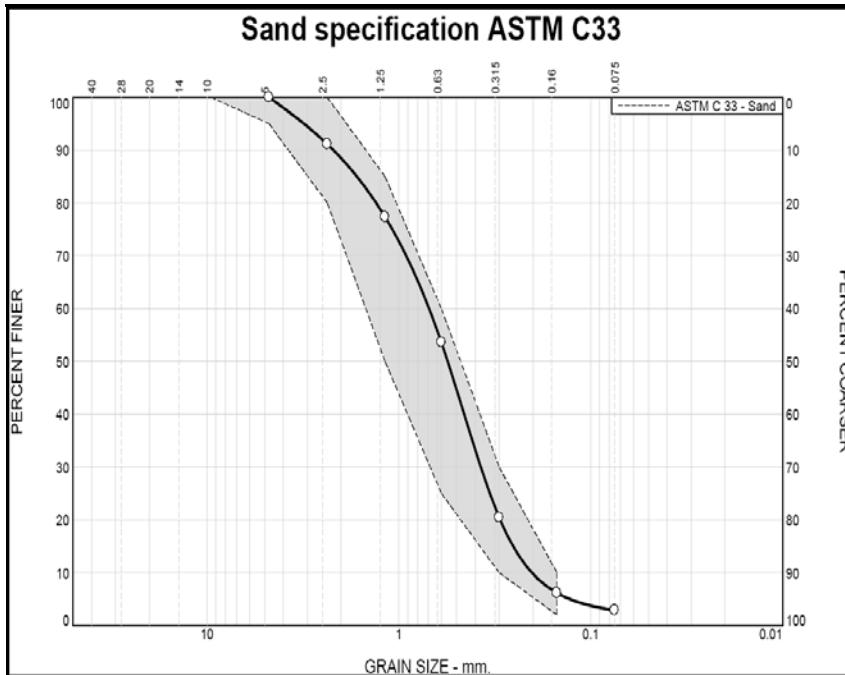
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H3450

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 92 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.9	91.1	80 - 100
No. 16	13.8	77.4	50 - 85
No. 30	23.8	53.6	25 - 60
No. 50	33.2	20.4	10 - 30
No. 100	14.3	6.2	2 - 10
No. 200	3.3	2.9	
Pan	2.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 92 feet

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	5.1		
Percent Gravel 0.75 inch to #4 sieve	13.8		
Total Percent Gravel		23.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	13.1	0.9	2.3	9.8	55.2
10 - 20	16.6	8.9	2.1	5.6	38.2
20 - 25	15.1	0.0	2.5	12.6	15.7
25 - 30	16.0	0.0	5.6	10.4	26.7
30 - 35	17.1	0.0	4.7	12.5	30.4
35 - 40	51.5	19.2	13.7	18.6	39.1
40 - 45	54.1	16.8	12.8	24.5	56.6
45 - 50	5.2	0.0	0.5	4.7	30.8
50 - 55	16.2	6.0	2.7	7.5	31.4
55 - 60	20.8	5.1	4.4	11.4	33.1
60 - 65	11.9	1.5	3.1	7.3	31.1
65 - 70	5.8	0.0	1.2	4.5	27.9
70 - 75	25.8	5.5	5.5	14.8	35.7
75 - 80	28.5	0.0	6.8	21.7	33.7
80 - 85	40.5	0.0	7.9	32.5	49.0
85 - 92	37.8	2.3	8.7	26.8	69.2

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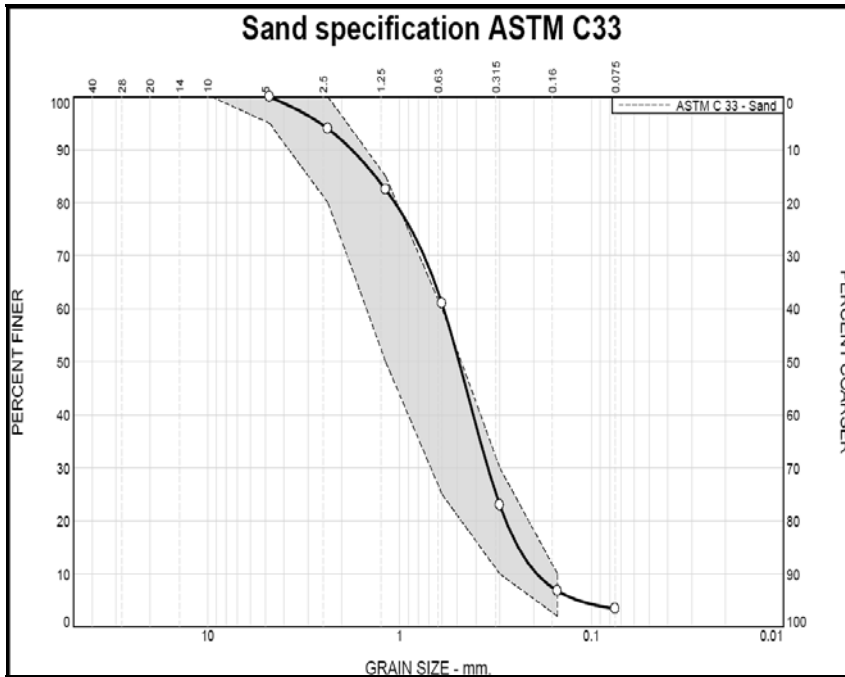
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H3650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 99 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.0	94.0	80 - 100
No. 16	11.5	82.5	50 - 85
No. 30	21.5	61.0	25 - 60
No. 50	38.0	23.0	10 - 30
No. 100	16.2	6.8	2 - 10
No. 200	3.4	3.4	
Pan	3.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 99 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	10.3		
Total Percent Gravel		16.2	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4.5 - 10	6.4	0.8	0.6	5.0	33.3
10 - 15	16.8	1.9	3.3	11.5	36.0
15 - 20	7.4	0.8	0.9	5.7	31.5
20 - 30	20.8	6.5	5.7	8.6	60.0
30 - 40	10.1	2.0	2.0	6.1	46.9
40 - 50	25.3	4.9	4.2	16.2	57.5
50 - 60	27.5	2.3	5.9	19.4	57.7
60 - 70	13.2	1.4	2.6	9.1	30.2
70 - 80	12.3	0.6	3.0	8.7	33.4
80 - 85	10.8	0.7	1.9	8.3	50.8
85 - 90	17.6	0.0	6.2	11.3	45.4
90 - 95	12.4	0.0	4.9	7.6	39.2
95 - 99	19.1	6.5	3.1	9.5	34.7

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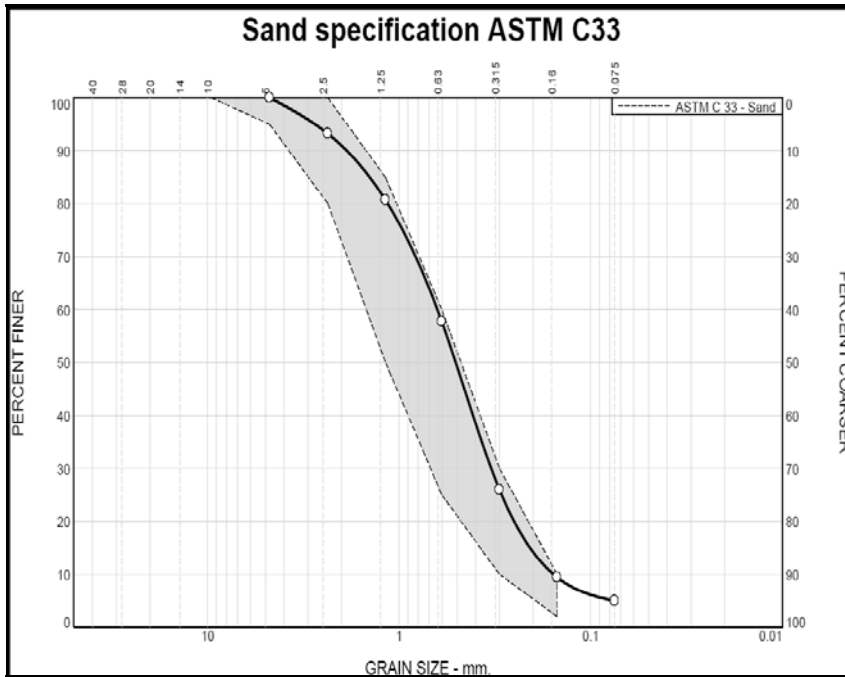
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. H3850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 75 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.8	93.2	80 - 100
No. 16	12.5	80.7	50 - 85
No. 30	23.0	57.7	25 - 60
No. 50	31.8	25.9	10 - 30
No. 100	16.6	9.4	2 - 10
No. 200	4.5	4.9	
Pan	4.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 75 feet

Percent Gravel + 1.5 inch	5.0		
Percent Gravel 1.5 to 0.75 inches	5.6		
Percent Gravel 0.75 inch to #4 sieve	12.6		
Total Percent Gravel		23.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
6 - 10	11.2	0.0	1.8	9.4	36.2
10 - 15	18.1	2.3	3.1	12.7	26.5
15 - 20	12.9	0.0	3.0	9.9	25.0
20 - 30	26.7	5.4	8.5	12.8	47.1
30 - 40	26.6	8.2	5.0	13.4	48.1
40 - 50	32.6	8.3	8.9	15.4	48.1
50 - 60	26.3	7.9	5.2	13.2	42.0
60 - 75	15.9	0.9	4.4	10.5	46.3

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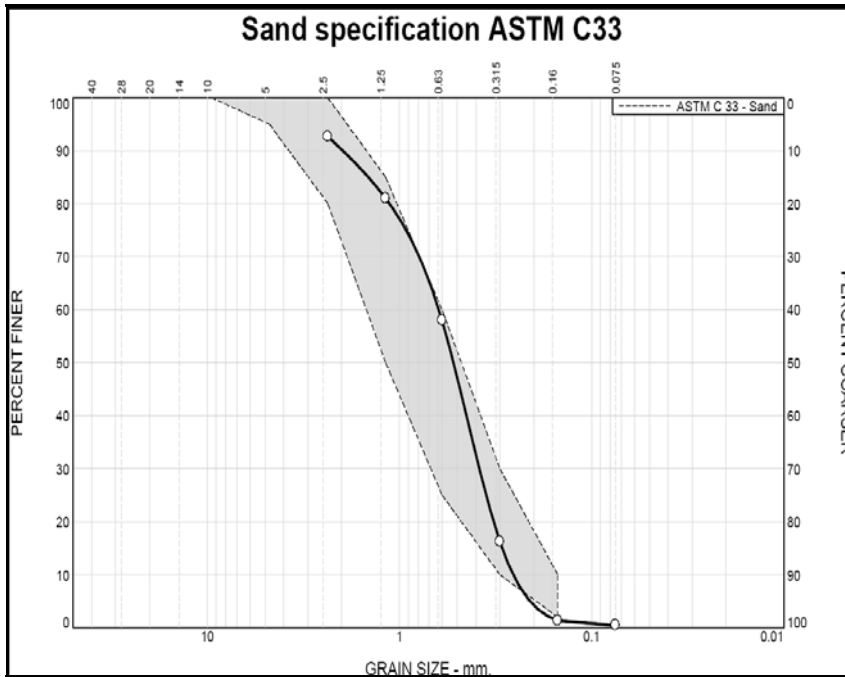
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HOLE NO. HH0650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 37 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.3	92.7	80 - 100
No. 16	11.7	81.0	50 - 85
No. 30	23.0	58.0	25 - 60
No. 50	41.7	16.2	10 - 30
No. 100	14.9	1.3	2 - 10
No. 200	0.9	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 37 feet

Percent Gravel + 1.5 inch	5.4		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	15.0		
		Total Percent Gravel	25.8

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 15	19.3	2.4	3.6	33.5
15 - 20	9.6	3.7	1.4	31.7
20 - 25	32.2	3.6	5.1	29.6
25 - 30	33.9	10.5	7.3	33.9
30 - 37	27.0	4.4	6.8	45.8

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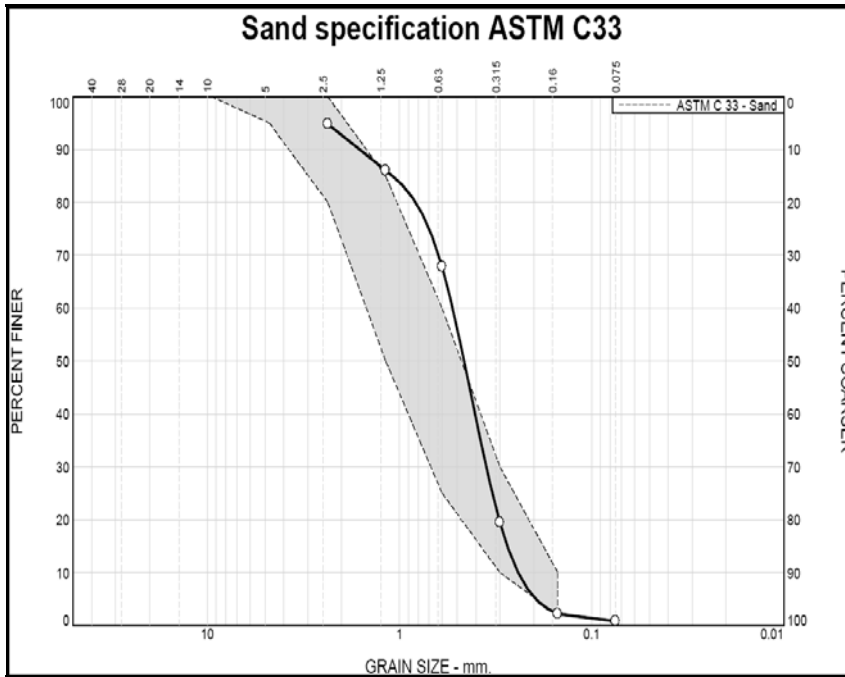
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HOLE NO. HH0850

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 37 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.2	94.8	80 - 100
No. 16	8.8	86.1	50 - 85
No. 30	18.2	67.8	25 - 60
No. 50	48.4	19.5	10 - 30
No. 100	17.3	2.2	2 - 10
No. 200	1.4	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 37 feet

Percent Gravel + 1.5 inch	3.6		
Percent Gravel 1.5 to 0.75 inches	5.1	Total Percent Gravel	17.5
Percent Gravel 0.75 inch to #4 sieve	8.8		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 10	17.7	0.0	6.6	11.1	30.9
10 - 15	18.9	4.8	6.1	8.1	29.9
15 - 25	4.9	1.5	1.5	1.9	25.9
25 - 30	24.1	4.0	6.1	14.1	28.4
30 - 37	29.7	9.0	7.5	13.2	54.7

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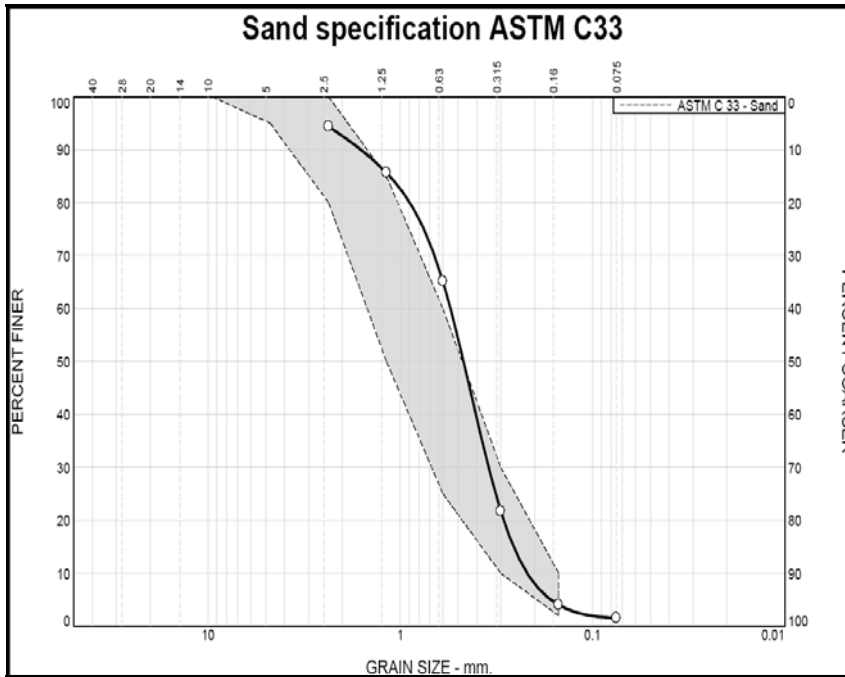
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HOLE NO. HH1100

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 10 to 38 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.6	94.4	80 - 100
No. 16	8.8	85.6	50 - 85
No. 30	20.5	65.1	25 - 60
No. 50	43.4	21.7	10 - 30
No. 100	17.7	4.0	2 - 10
No. 200	2.5	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 10 to 38 feet

Percent Gravel + 1.5 inch	5.2		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	8.1		
Total Percent Gravel		17.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
10 - 20	4.4	0.0	1.1	24.7
20 - 25	26.5	8.5	11.1	36.7
25 - 38	23.7	8.0	3.5	24.5

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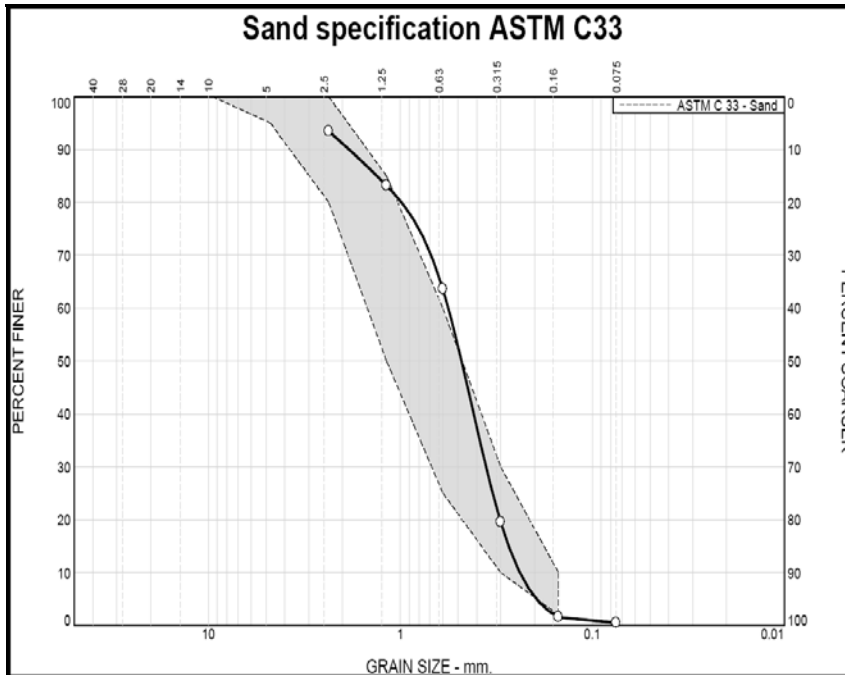
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. HH1350

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.5	93.5	80 - 100
No. 16	10.3	83.2	50 - 85
No. 30	19.6	63.6	25 - 60
No. 50	44.1	19.6	10 - 30
No. 100	18.0	1.6	2 - 10
No. 200	1.1	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 40 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	10.3		
		Total Percent Gravel	16.0

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 25	4.9	0.8	1.2	2.8	25.1
25 - 30	35.9	2.3	9.7	23.9	40.4
30 - 35	39.6	7.3	6.0	26.4	34.5
35 - 40	21.6	1.8	6.3	13.5	18.0

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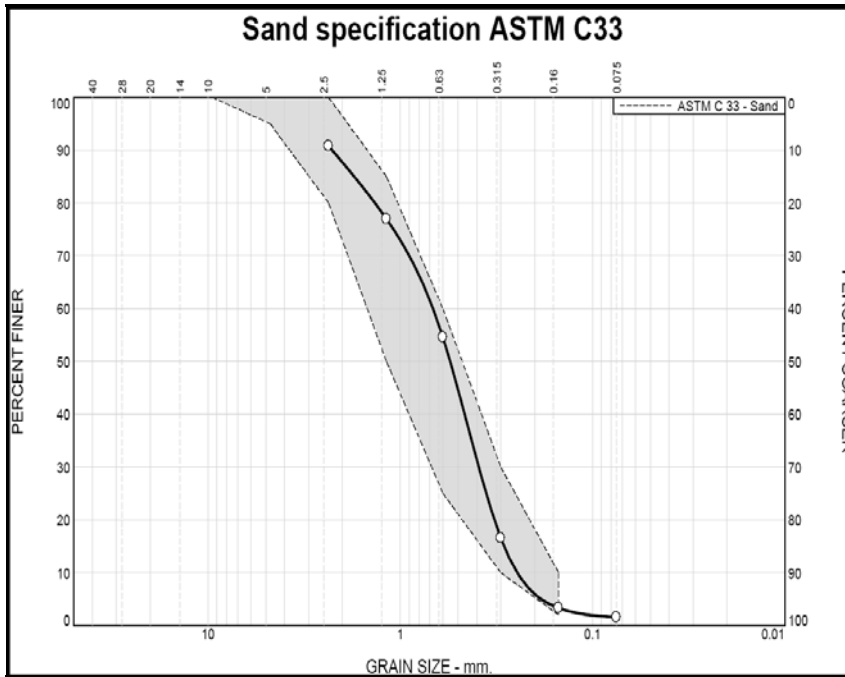
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HOLE NO. HH2650

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 9 to 80 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.2	90.8	80 - 100
No. 16	13.8	77.0	50 - 85
No. 30	22.4	54.6	25 - 60
No. 50	38.0	16.6	10 - 30
No. 100	13.3	3.3	2 - 10
No. 200	1.8	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 9 to 80 feet

Percent Gravel + 1.5 inch	4.1		
Percent Gravel 1.5 to 0.75 inches	3.1		
Percent Gravel 0.75 inch to #4 sieve	10.5		
Total Percent Gravel		17.6	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
9 - 20	7.3	0.0	2.3	5.0	28.9
20 - 40	16.8	6.2	2.7	7.8	29.6
40 - 47	18.0	5.5	2.2	10.3	24.2
47 - 54	44.7	11.4	9.2	24.1	42.0
60 - 70	15.6	0.0	2.7	13.0	30.5
70 - 80	13.3	2.1	1.4	9.9	38.9

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