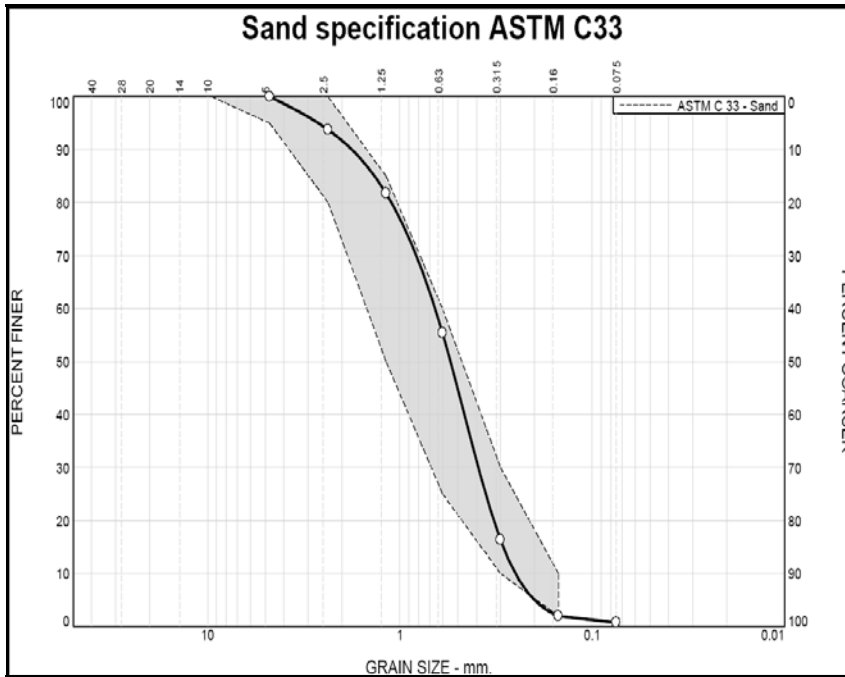


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HOLE NO. A0000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.2	93.8	80 - 100
No. 16	12.0	81.8	50 - 85
No. 30	26.4	55.4	25 - 60
No. 50	39.0	16.3	10 - 30
No. 100	14.4	2.0	2 - 10
No. 200	1.2	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 55 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	1.4		
Percent Gravel 0.75 inch to #4 sieve	6.0		
Total Percent Gravel		10.2	

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	
5 - 10	2.8	0.0	0.1	2.7	15.9
10 - 15	2.7	0.0	0.2	2.5	20.1
15 - 20	5.8	0.0	1.1	4.8	20.8
20 - 25	13.8	0.8	1.6	11.4	25.7
25 - 30	3.2	1.3	0.0	1.8	21.1
30 - 35	6.2	3.5	0.0	2.7	20.8
35 - 40	6.7	0.0	2.0	4.7	22.5
40 - 45	14.7	7.0	2.0	5.6	26.4
45 - 50	17.9	0.0	3.8	14.0	16.0
50 - 55	27.8	14.4	3.5	9.9	23.0

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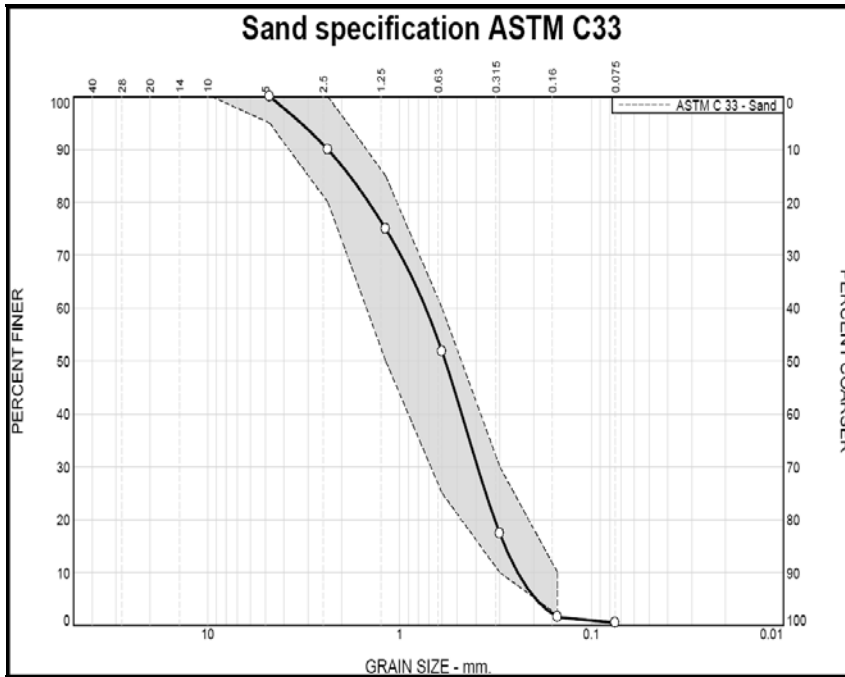
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 63 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.0	90.0	80 - 100
No. 16	15.0	75.0	50 - 85
No. 30	23.2	51.8	25 - 60
No. 50	34.4	17.4	10 - 30
No. 100	15.8	1.6	2 - 10
No. 200	1.1	0.5	
Pan	0.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 63 feet

Percent Gravel + 1.5 inch	1.7		
Percent Gravel 1.5 to 0.75 inches	2.8		
Percent Gravel 0.75 inch to #4 sieve	11.9		
Total Percent Gravel		16.3	

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	
3 - 10	12.6	0.0	1.3	11.3	39.1
10 - 15	15.5	2.6	1.8	11.1	29.1
15 - 20	12.8	1.0	3.8	8.0	25.0
20 - 25	3.9	0.0	0.5	3.4	26.8
25 - 30	14.5	2.2	4.4	8.0	22.5
30 - 35	23.6	5.5	6.7	11.4	22.7
35 - 40	28.0	4.5	4.2	19.2	26.1
40 - 45	10.6	0.0	3.4	7.1	29.3
45 - 50	18.4	2.9	2.7	12.8	21.9
50 - 55	20.4	1.1	2.4	16.9	19.9
55 - 63	19.2	0.0	1.2	18.0	21.0

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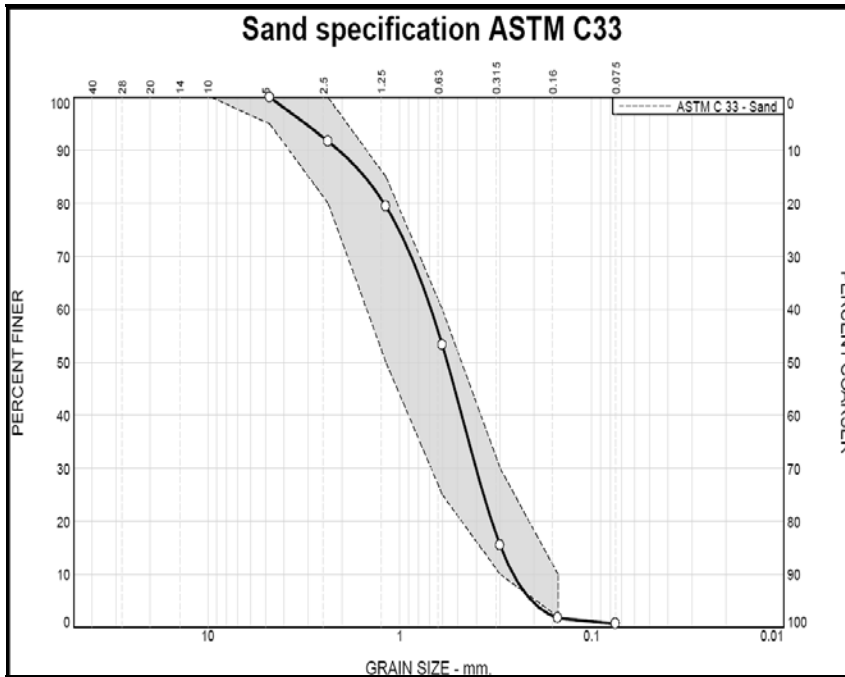
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.3	91.7	80 - 100
No. 16	12.3	79.4	50 - 85
No. 30	26.2	53.2	25 - 60
No. 50	37.8	15.4	10 - 30
No. 100	13.7	1.7	2 - 10
No. 200	1.1	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 65 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	9.8		
Total Percent Gravel		16.5	

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	
5 - 10	18.2	0.0	4.7	13.5	25.5
10 - 15	20.7	7.6	4.8	8.3	24.8
15 - 20	6.5	0.0	1.7	4.9	20.6
20 - 25	11.7	1.2	3.5	7.0	25.4
25 - 30	8.1	0.0	1.8	6.3	24.0
30 - 35	13.6	2.3	4.9	6.4	25.6
35 - 40	17.1	0.0	4.8	12.2	23.9
40 - 45	26.2	2.5	9.8	13.9	30.1
45 - 50	16.3	7.2	3.5	5.7	21.6
50 - 55	9.3	0.0	2.8	6.5	22.1
55 - 60	21.8	12.4	0.5	8.9	25.1
60 - 65	27.7	0.0	5.1	22.6	31.8

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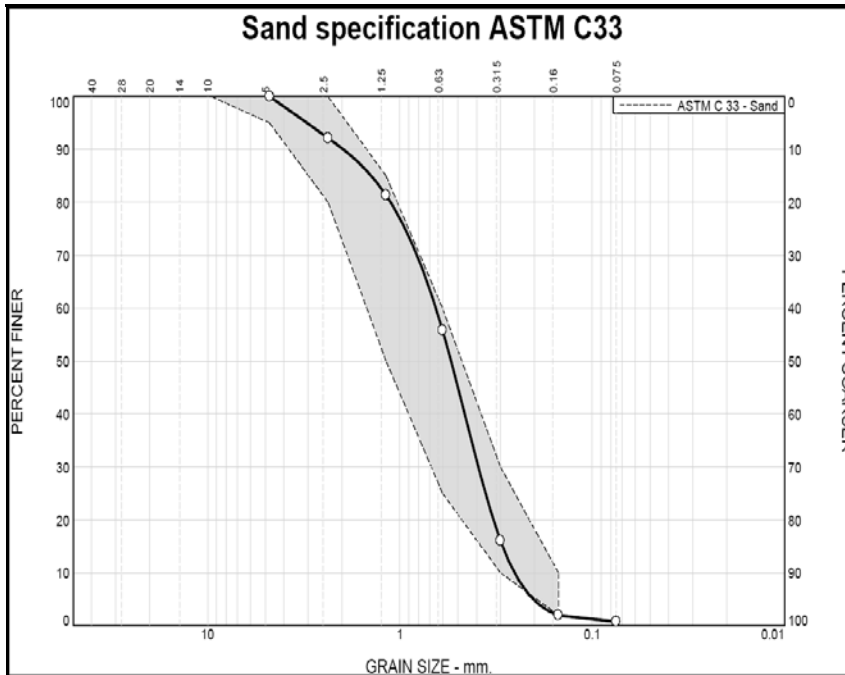
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.8	92.2	80 - 100
No. 16	10.8	81.4	50 - 85
No. 30	25.5	55.8	25 - 60
No. 50	39.8	16.0	10 - 30
No. 100	14.1	1.9	2 - 10
No. 200	1.2	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 45 feet

Percent Gravel + 1.5 inch	1.1		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	10.6		
Total Percent Gravel		15.7	

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	12.6	0.0	5.9	6.8	26.1
10 - 15	6.0	0.0	1.8	4.3	22.8
15 - 20	12.4	0.0	4.2	8.2	23.6
20 - 25	9.5	3.6	1.6	4.4	21.8
25 - 30	18.2	0.0	2.3	15.9	26.2
30 - 35	12.4	0.0	1.9	10.5	24.7
35 - 40	14.4	3.5	3.9	7.0	25.4
40 - 45	40.5	2.0	10.4	28.2	28.3

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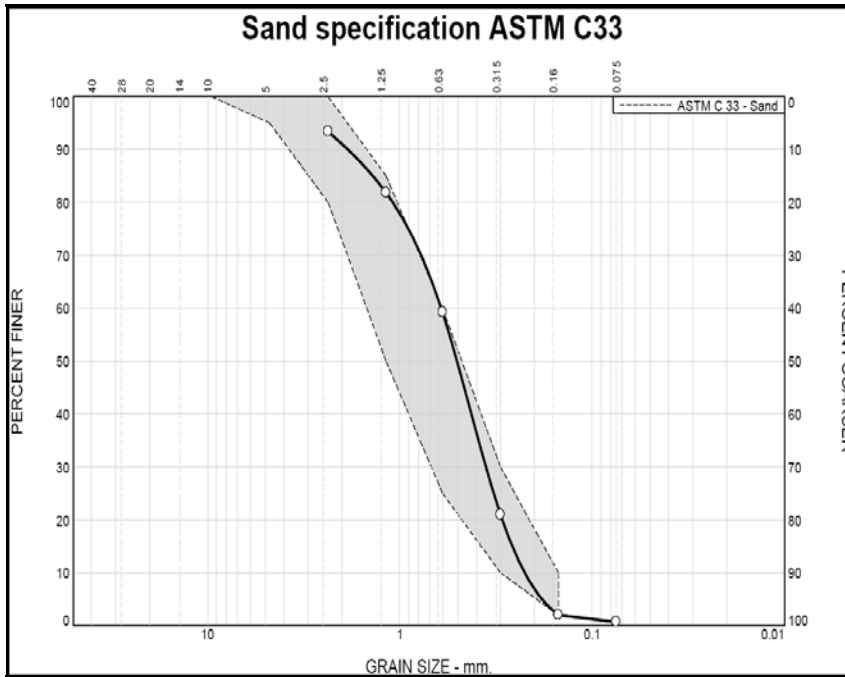
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 51.5 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.6	93.4	80 - 100
No. 16	11.6	81.8	50 - 85
No. 30	22.6	59.2	25 - 60
No. 50	38.2	21.0	10 - 30
No. 100	19.0	2.0	2 - 10
No. 200	1.3	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 51.5 feet

Percent Gravel + 1.5 inch	6.1		
Percent Gravel 1.5 to 0.75 inches	5.1	Total Percent Gravel	24.5
Percent Gravel 0.75 inch to #4 sieve	13.3		

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	
5 - 10	18.8	2.8	6.3	9.8	31.1
10 - 15	26.8	18.4	2.8	5.6	30.4
15 - 25	12.4	5.6	2.6	4.1	29.3
25 - 30	33.7	3.9	8.5	21.3	35.4
30 - 35	32.6	7.9	5.0	19.7	39.8
35 - 40	30.2	4.6	5.7	19.8	36.3
40 - 45	33.0	7.0	7.4	18.6	38.8
45 - 52	21.6	1.1	5.0	15.6	22.1

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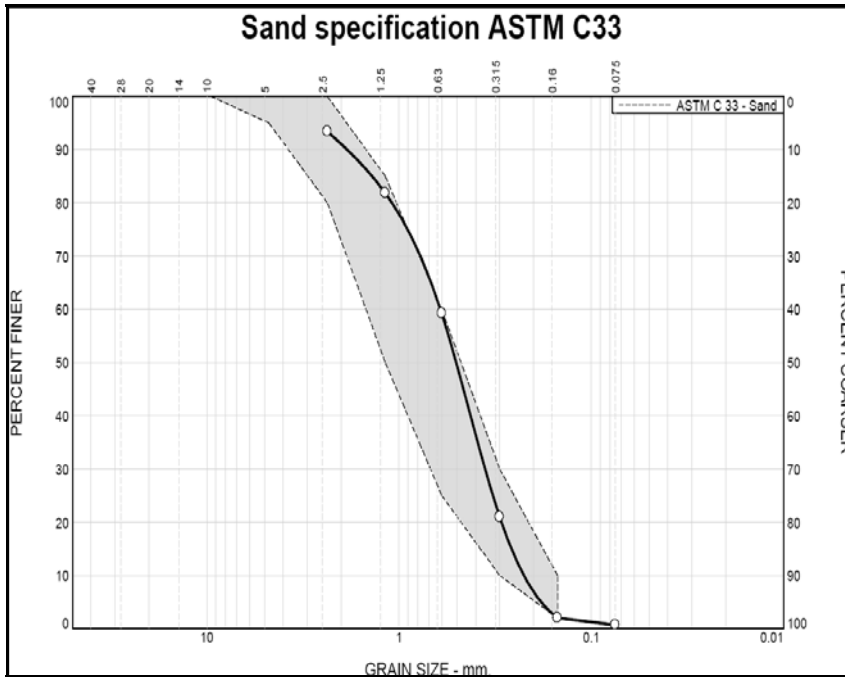
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	13.6	86.4	80 - 100
No. 16	15.6	70.8	50 - 85
No. 30	21.7	49.1	25 - 60
No. 50	32.3	16.8	10 - 30
No. 100	14.5	2.3	2 - 10
No. 200	1.3	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	5.6		
Percent Gravel 0.75 inch to #4 sieve	13.4		
		Total Percent Gravel	23.4

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	17.3	1.5	7.4	24.0
10 - 15	30.3	9.1	6.3	28.6
15 - 20	18.1	3.0	5.3	25.9
20 - 25	17.5	2.0	5.1	31.8
25 - 30	9.6	0.7	1.8	27.4
30 - 35	34.2	0.0	4.8	30.7
35 - 40	39.1	15.0	7.9	36.1

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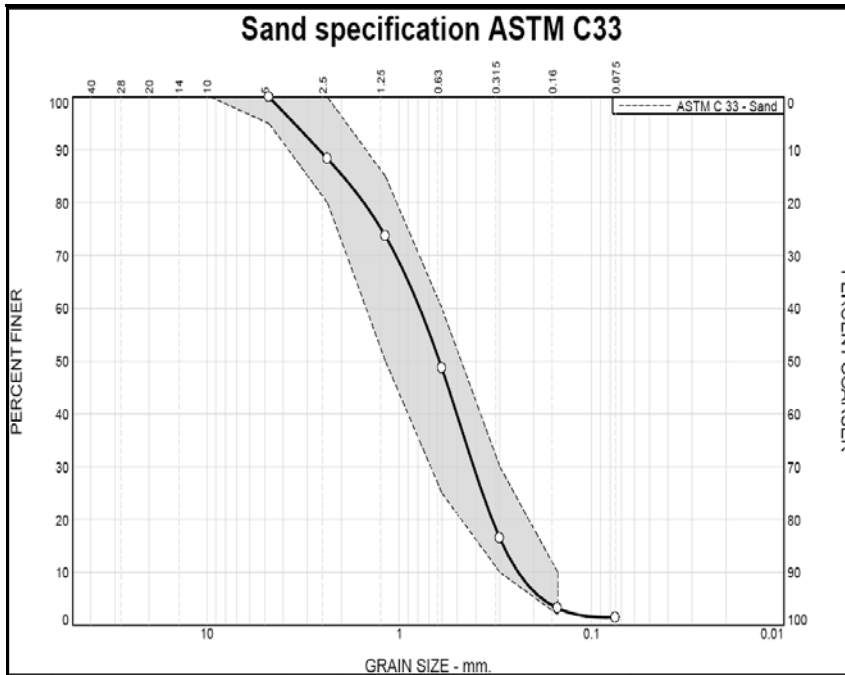
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.7	88.3	80 - 100
No. 16	14.6	73.7	50 - 85
No. 30	25.1	48.6	25 - 60
No. 50	32.2	16.5	10 - 30
No. 100	13.3	3.2	2 - 10
No. 200	1.8	1.4	
Pan	1.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 65 feet

Percent Gravel + 1.5 inch	1.5		
Percent Gravel 1.5 to 0.75 inches	4.2		
Percent Gravel 0.75 inch to #4 sieve	15.1		
Total Percent Gravel		20.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 10	15.7	0.6	3.3	30.3
10 - 15	10.6	0.0	2.6	23.2
15 - 20	19.4	3.3	4.9	30.3
20 - 25	13.3	0.0	3.2	20.7
25 - 30	21.9	1.4	4.8	24.8
30 - 35	21.7	4.2	3.8	25.9
35 - 40	18.2	1.3	2.9	24.5
40 - 45	25.4	1.6	4.2	27.5
45 - 50	24.9	4.4	3.0	14.4
50 - 55	27.8	0.0	6.1	25.3
55 - 60	28.9	1.5	6.4	25.7
60 - 65	22.5	0.0	5.5	27.6

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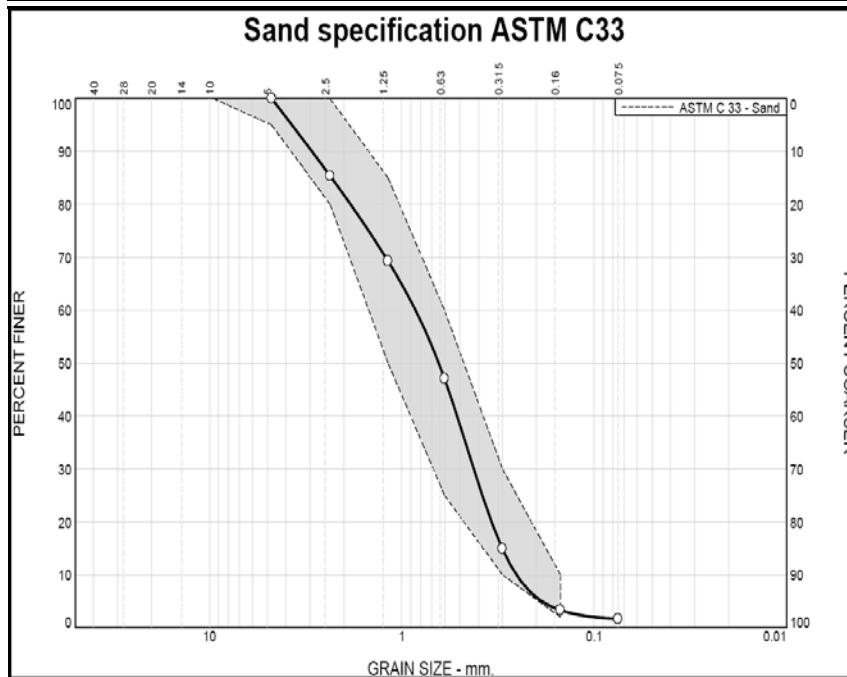
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HOLE NO. A1200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 42 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	14.6	85.4	80 - 100
No. 16	16.1	69.3	50 - 85
No. 30	22.2	47.1	25 - 60
No. 50	32.2	14.9	10 - 30
No. 100	11.6	3.3	2 - 10
No. 200	1.7	1.6	
Pan	1.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 42 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	2.4		
Percent Gravel 0.75 inch to #4 sieve	16.4		
Total Percent Gravel		21.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 10	14.2	0.0	3.5	26.8
10 - 15	15.6	1.0	1.4	28.6
15 - 20	25.4	0.7	4.6	27.2
20 - 25	24.7	1.0	2.9	25.2
25 - 30	3.7	0.0	0.2	16.4
30 - 35	29.7	9.2	2.7	15.2
35 - 42	35.0	7.9	1.7	13.5

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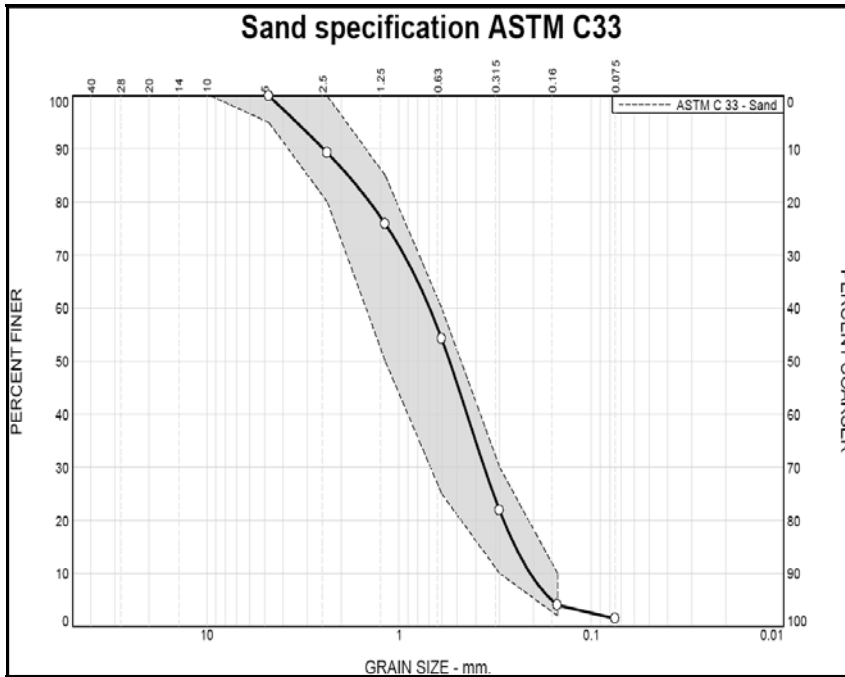
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 44 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.7	89.3	80 - 100
No. 16	13.4	75.9	50 - 85
No. 30	21.7	54.2	25 - 60
No. 50	32.4	21.8	10 - 30
No. 100	17.8	4.0	2 - 10
No. 200	2.6	1.4	
Pan	1.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 44 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	21.8
Percent Gravel 0.75 inch to #4 sieve	14.3		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	3.9	0.0	0.5	18.6
10 - 15	8.0	0.0	2.3	19.4
15 - 20	26.7	2.1	7.2	25.5
20 - 25	24.0	2.8	2.7	25.8
25 - 30	25.3	5.7	4.9	24.3
30 - 35	27.1	2.2	6.5	26.7
35 - 40	28.8	1.0	4.7	23.0
40 - 44	36.9	18.1	3.6	27.2

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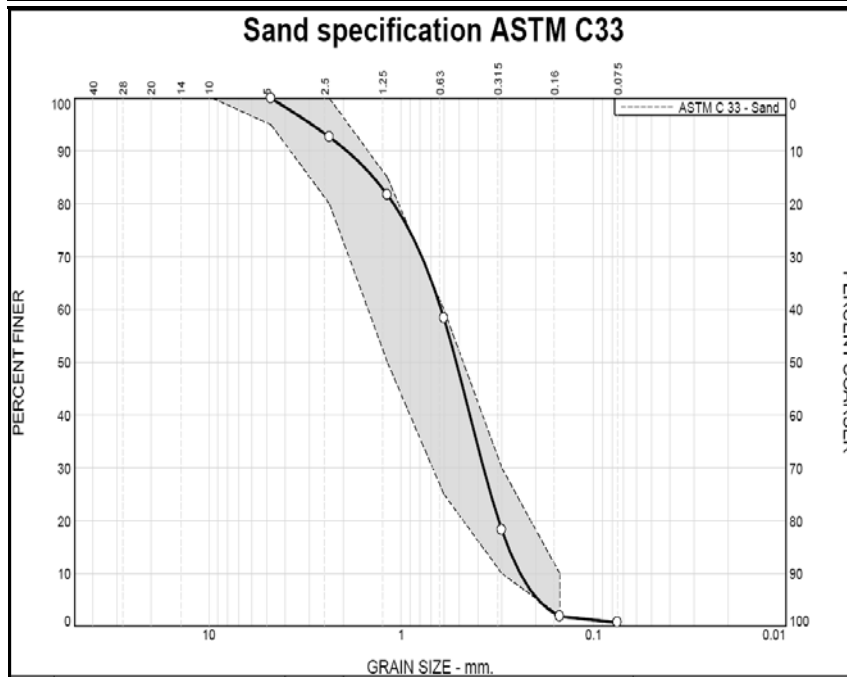
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.4	92.6	80 - 100
No. 16	10.9	81.7	50 - 85
No. 30	23.4	58.3	25 - 60
No. 50	40.1	18.2	10 - 30
No. 100	16.4	1.9	2 - 10
No. 200	1.2	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 45 feet

Percent Gravel + 1.5 inch	5.2		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	8.8		
Total Percent Gravel		18.7	

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	22.7	6.9	4.9	10.9	31.4
10 - 15	18.4	5.9	5.3	7.2	28.5
15 - 20	9.0	4.0	1.0	4.0	26.3
20 - 25	24.0	9.5	5.7	8.8	25.3
25 - 30	22.6	4.9	4.4	13.4	30.4
30 - 35	17.8	1.1	7.8	8.8	25.3
35 - 40	14.4	0.8	4.9	8.8	22.3
40 - 45	19.9	7.9	3.8	8.2	27.1

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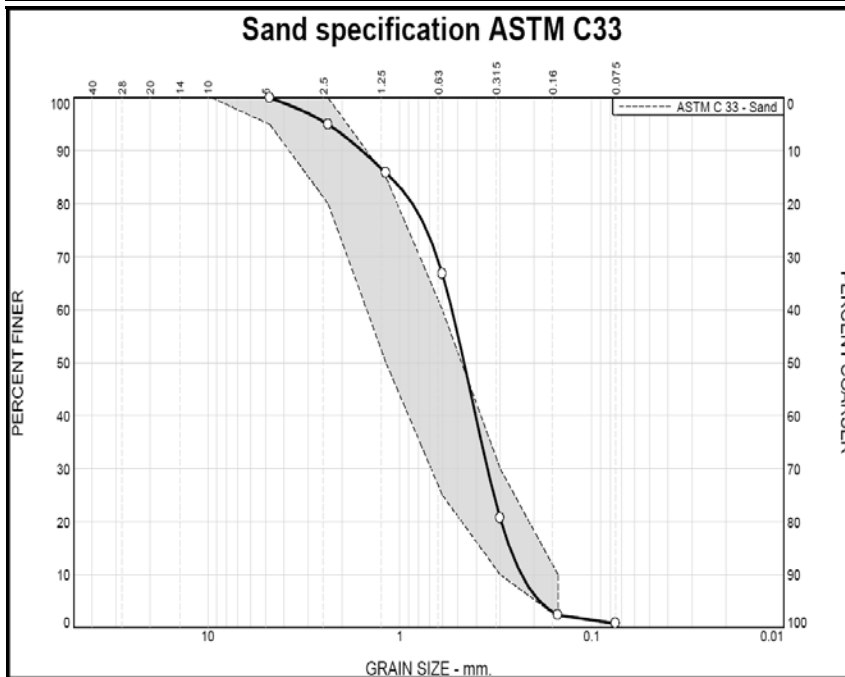
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.0	95.0	80 - 100
No. 16	9.2	85.8	50 - 85
No. 30	19.0	66.8	25 - 60
No. 50	46.1	20.6	10 - 30
No. 100	18.3	2.4	2 - 10
No. 200	1.6	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 35 feet

Percent Gravel + 1.5 inch	1.4		
Percent Gravel 1.5 to 0.75 inches	3.5	Total Percent Gravel	13.8
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	15.5	0.0	2.7	12.8	34.4
10 - 15	14.1	3.4	3.5	7.2	20.1
15 - 20	15.4	4.5	6.4	4.5	24.1
20 - 25	14.0	1.4	4.2	8.4	27.7
25 - 35	11.6	0.0	2.4	9.2	27.0

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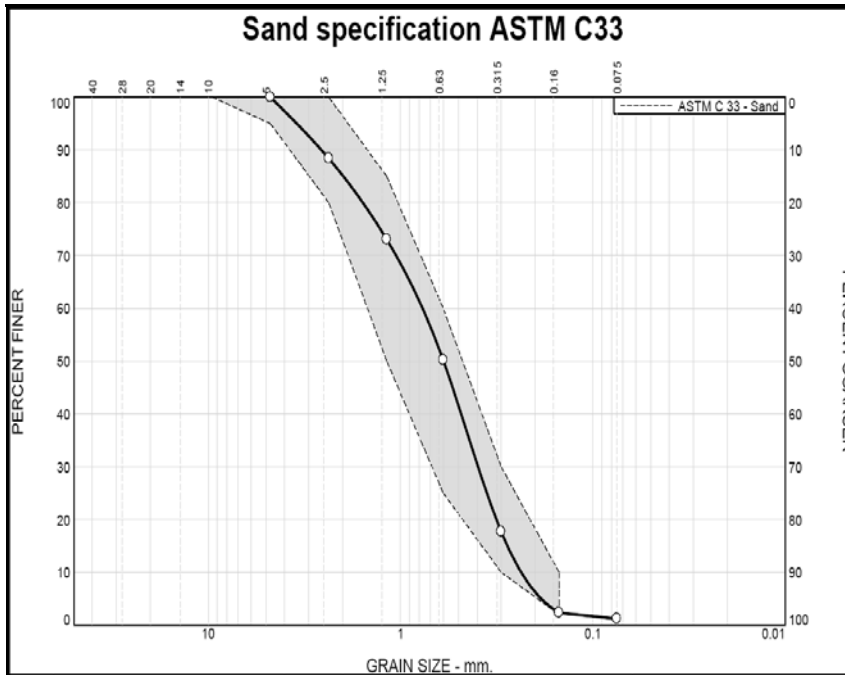
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. A2000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.6	88.4	80 - 100
No. 16	15.3	73.0	50 - 85
No. 30	22.9	50.2	25 - 60
No. 50	32.5	17.7	10 - 30
No. 100	15.4	2.3	2 - 10
No. 200	1.1	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 65 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	15.0		
Total Percent Gravel		22.4	

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	
8 - 15	14.0	0.8	3.3	9.9	42.8
15 - 20	19.6	4.4	6.0	9.3	28.3
20 - 25	17.0	2.5	3.0	11.6	28.2
25 - 30	24.5	4.1	5.0	15.5	32.5
30 - 35	31.0	12.0	1.6	17.5	31.8
35 - 40	28.0	9.6	4.2	14.2	30.1
40 - 45	28.7	1.1	5.3	22.3	26.0
45 - 50	24.1	2.3	4.9	17.0	23.5
50 - 55	24.1	0.0	3.1	21.0	21.9
55 - 60	19.8	0.0	4.6	15.1	24.3
60 - 65	18.8	3.3	2.2	13.2	25.1

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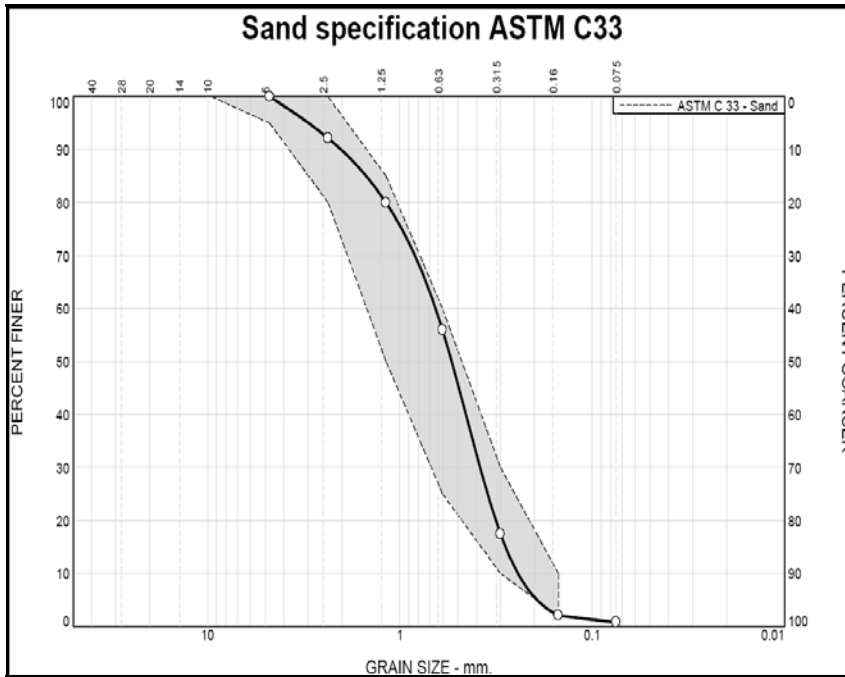
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. A2200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 65 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	12.2	80.0	50 - 85
No. 30	24.0	55.9	25 - 60
No. 50	38.5	17.4	10 - 30
No. 100	15.4	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 65 feet

Percent Gravel + 1.5 inch	1.4		
Percent Gravel 1.5 to 0.75 inches	4.2	Total Percent Gravel	16.2
Percent Gravel 0.75 inch to #4 sieve	10.6		

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	
3.5 - 10	18.2	4.5	5.5	8.1	35.0
10 - 15	17.0	3.5	7.3	6.3	27.7
15 - 20	10.3	1.1	4.0	5.2	25.0
20 - 25	14.0	2.3	4.0	7.7	31.6
25 - 30	5.9	0.0	1.5	4.4	21.8
30 - 35	7.2	0.0	2.7	4.5	24.3
35 - 40	11.8	0.0	4.0	7.7	24.3
40 - 45	31.7	3.0	5.6	23.1	29.9
45 - 50	17.8	0.0	4.6	13.2	26.4
50 - 55	18.4	0.0	3.9	14.4	23.3
55 - 60	23.0	0.0	3.5	19.5	23.1
60 - 65	18.8	1.5	3.0	14.3	21.6

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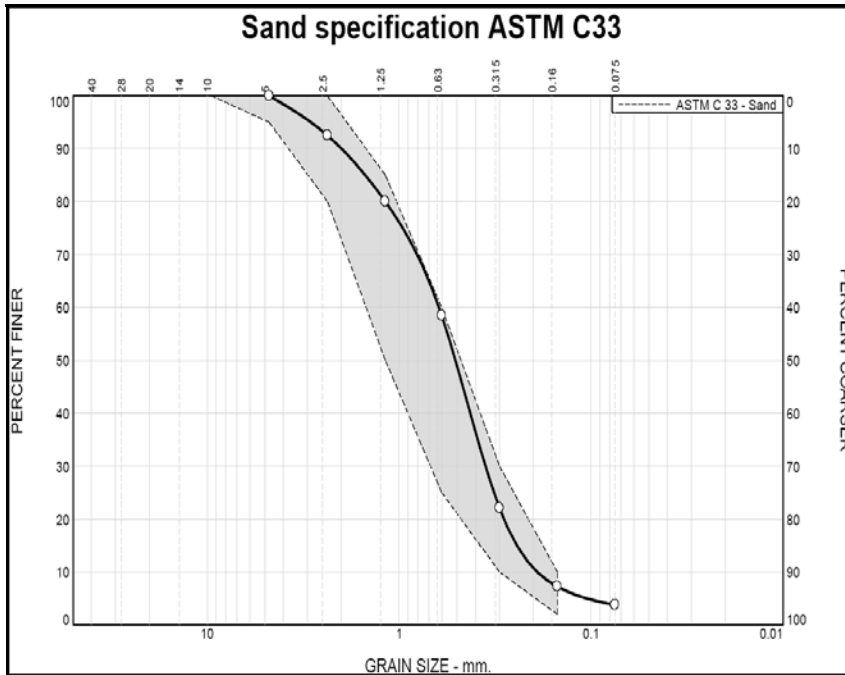
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. A2300

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.5	92.5	80 - 100
No. 16	12.5	80.0	50 - 85
No. 30	21.6	58.5	25 - 60
No. 50	36.4	22.1	10 - 30
No. 100	14.8	7.2	2 - 10
No. 200	3.5	3.8	
Pan	3.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 65 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	4.2		
Percent Gravel 0.75 inch to #4 sieve	12.1		
Total Percent Gravel		19.4	

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	
8 - 15	17.2	10.1	1.8	5.3	35.6
15 - 20	22.3	2.9	7.4	12.0	37.3
20 - 30	15.9	0.0	2.2	13.7	42.1
30 - 40	18.9	2.4	5.3	11.1	41.2
40 - 45	3.0	0.0	0.7	2.3	33.0
45 - 50	24.1	2.1	5.9	16.2	34.1
50 - 55	8.7	0.5	2.1	6.1	26.2
55 - 60	22.7	8.1	4.3	10.3	33.7
60 - 65	46.5	2.9	9.3	34.3	45.2

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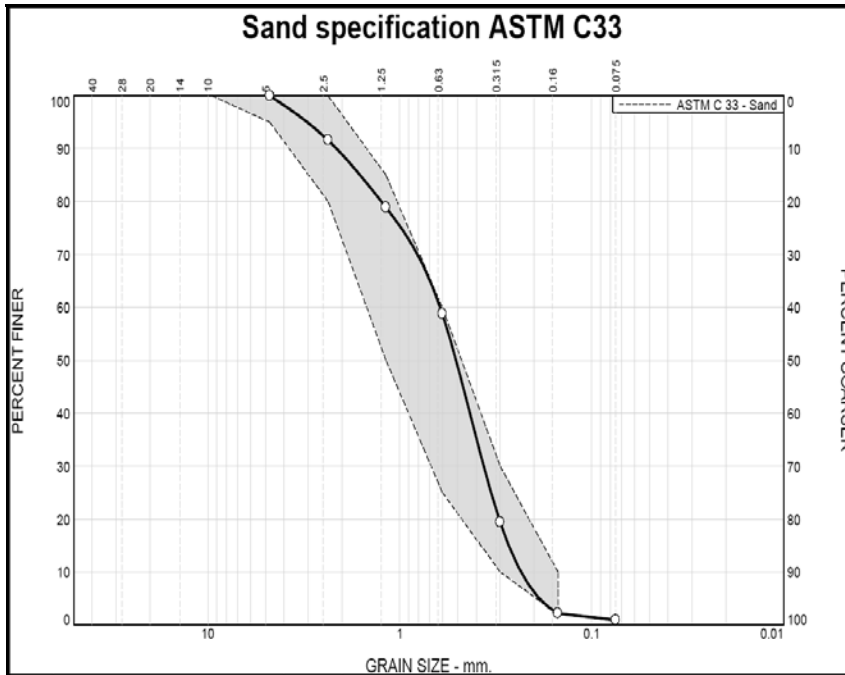
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LABORATORY TEST DATA SUMMARY SHEET

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.4	91.6	80 - 100
No. 16	12.7	78.9	50 - 85
No. 30	20.1	58.8	25 - 60
No. 50	39.4	19.4	10 - 30
No. 100	17.2	2.2	2 - 10
No. 200	1.3	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 65 feet

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	5.0		
Percent Gravel 0.75 inch to #4 sieve	11.9		
Total Percent Gravel		21.2	

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	
6 - 10	33.1	1.4	6.1	25.6	33.8
10 - 15	15.2	0.0	3.2	12.0	28.1
15 - 20	8.7	3.0	0.5	5.2	24.6
20 - 25	7.2	0.0	1.0	6.2	21.9
25 - 30	19.9	5.1	5.6	9.2	33.6
30 - 35	11.5	0.0	3.5	8.0	29.2
35 - 40	12.0	1.4	3.4	7.2	30.3
40 - 45	13.3	3.9	3.3	6.1	26.5
45 - 50	30.3	2.7	10.8	16.9	24.0
50 - 55	34.4	6.2	8.5	19.7	25.1
55 - 60	33.2	15.1	5.8	12.4	26.3
60 - 65	37.6	12.0	8.6	17.0	30.3

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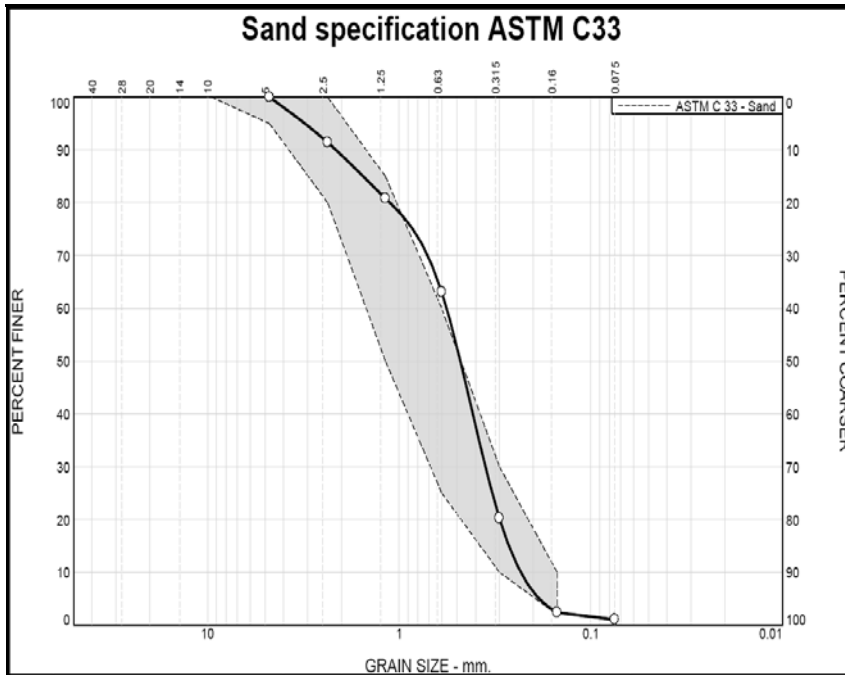
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HOLE NO. A2600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6.5 to 61 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.6	91.4	80 - 100
No. 16	10.6	80.8	50 - 85
No. 30	17.8	63.1	25 - 60
No. 50	42.8	20.2	10 - 30
No. 100	17.9	2.4	2 - 10
No. 200	1.3	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6.5 to 61 feet

Percent Gravel + 1.5 inch	1.2		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	20.0
Percent Gravel 0.75 inch to #4 sieve	14.9		

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	
6.5 - 10	31.5	0.0	4.4	27.1	38.4
10 - 15	21.4	1.0	3.5	17.0	26.8
15 - 20	30.9	2.4	6.6	21.8	26.8
20 - 25	25.2	0.0	5.9	19.4	25.5
25 - 30	9.4	1.8	2.6	5.0	24.1
30 - 35	10.3	6.5	1.3	2.5	20.5
35 - 40	7.5	0.0	1.9	5.6	18.5
40 - 45	7.6	0.0	2.6	5.0	15.7
45 - 50	24.7	0.0	3.4	21.3	22.5
50 - 55	23.3	0.0	2.3	21.0	21.9
55 - 61	30.1	1.6	8.2	20.3	34.5

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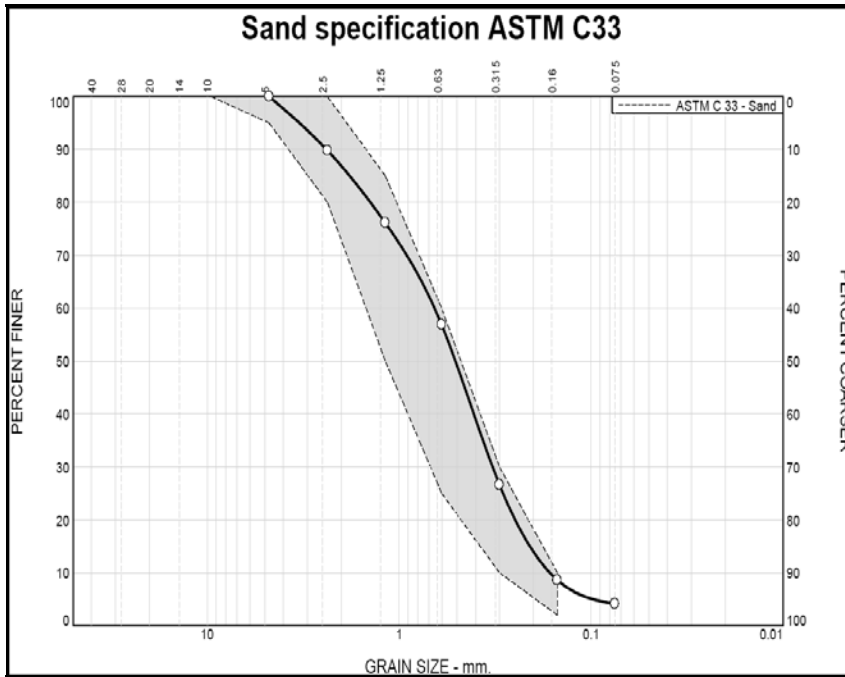
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 100 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.2	89.8	80 - 100
No. 16	13.7	76.1	50 - 85
No. 30	19.3	56.9	25 - 60
No. 50	30.3	26.6	10 - 30
No. 100	18.0	8.6	2 - 10
No. 200	4.5	4.1	
Pan	4.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 100 feet

Percent Gravel + 1.5 inch	7.5		
Percent Gravel 1.5 to 0.75 inches	7.3		
Percent Gravel 0.75 inch to #4 sieve	14.0		
Total Percent Gravel		28.7	

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	10.3	0.0	4.0	6.2	34.6
10 - 15	10.3	0.0	2.6	7.7	33.5
15 - 20	19.8	0.0	5.3	14.5	27.4
20 - 30	16.3	1.1	4.3	10.9	31.7
30 - 40	16.4	2.8	4.3	9.2	34.9
40 - 50	17.5	3.0	2.1	12.4	40.4
50 - 60	10.3	0.0	2.2	8.1	34.9
60 - 70	18.2	1.8	4.3	12.1	43.0
70 - 80	43.0	12.0	11.3	19.7	45.1
80 - 85	63.7	22.1	16.9	24.6	55.4
85 - 90	78.0	35.2	17.8	25.0	48.7
90 - 95	64.7	27.8	16.4	20.4	45.0
95 - 100	58.0	16.0	18.3	23.6	43.0

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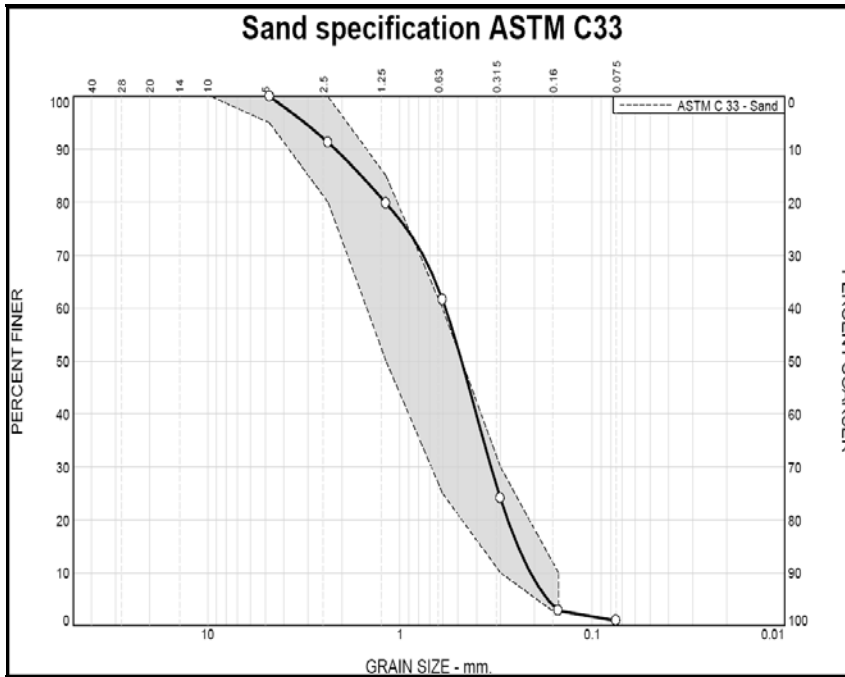
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HOLE NO. A2800

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 1.5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.7	91.3	80 - 100
No. 16	11.5	79.8	50 - 85
No. 30	18.2	61.6	25 - 60
No. 50	37.5	24.1	10 - 30
No. 100	21.2	2.8	2 - 10
No. 200	1.9	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1.5 to 65 feet

Percent Gravel + 1.5 inch	3.8		
Percent Gravel 1.5 to 0.75 inches	5.8	Total Percent Gravel	21.9
Percent Gravel 0.75 inch to #4 sieve	12.3		

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	
1.5 - 5	46.2	9.6	23.9	12.7	17.7
5 - 10	15.3	0.0	2.1	13.2	32.6
10 - 15	23.5	9.4	3.6	10.5	33.8
15 - 20	24.6	9.0	4.9	10.7	32.0
20 - 25	23.7	2.7	9.7	11.3	33.7
25 - 30	10.2	0.0	1.8	8.4	23.5
30 - 35	19.4	0.8	6.3	12.3	23.1
35 - 40	13.6	4.1	2.8	6.7	20.2
40 - 45	37.9	7.2	9.9	20.8	34.3
45 - 50	18.0	1.1	4.8	12.1	20.2
50 - 55	17.7	1.1	2.5	14.1	22.5
55 - 60	23.6	3.3	5.4	14.9	22.0
60 - 65	18.9	3.1	2.8	12.9	28.5

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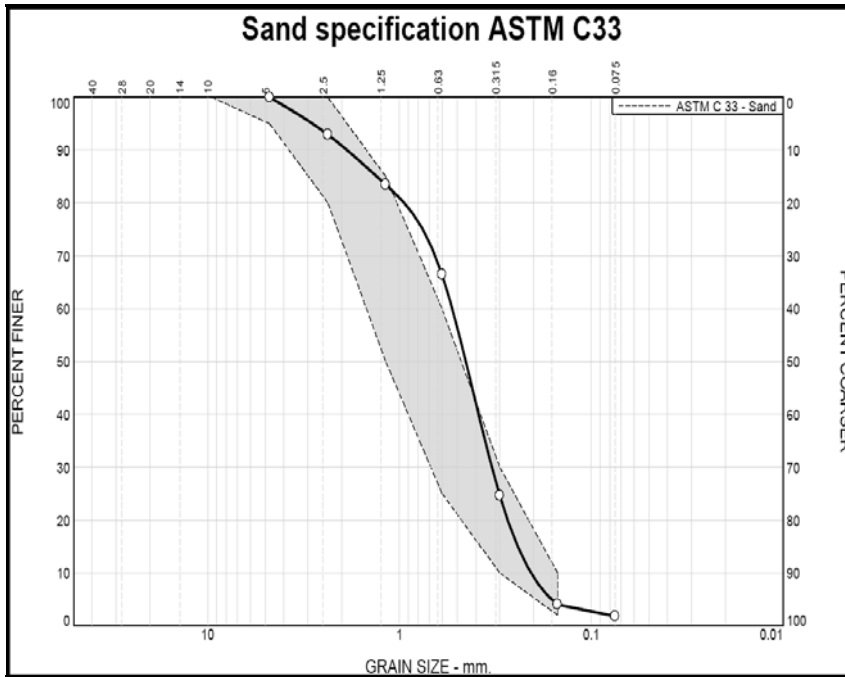
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. A3000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 60 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	9.5	83.5	50 - 85
No. 30	17.0	66.4	25 - 60
No. 50	41.8	24.6	10 - 30
No. 100	20.6	4.0	2 - 10
No. 200	2.3	1.8	
Pan	1.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 60 feet

Percent Gravel + 1.5 inch	2.5		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	11.3		
Total Percent Gravel		18.6	

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	
2 - 10	18.9	0.8	5.4	12.7	45.5
10 - 15	16.8	5.0	4.1	7.7	27.7
15 - 20	16.2	5.3	2.7	8.3	29.1
20 - 25	8.8	1.6	1.8	5.5	28.2
25 - 30	19.1	0.0	5.0	14.2	31.3
30 - 35	26.0	4.3	7.9	13.8	29.2
35 - 40	15.6	0.0	4.5	11.1	25.7
40 - 45	15.3	0.0	4.1	11.2	26.8
45 - 50	19.4	2.2	5.3	11.9	28.4
50 - 55	22.6	3.2	6.5	12.9	31.9
55 - 60	25.1	5.5	5.4	14.3	31.0

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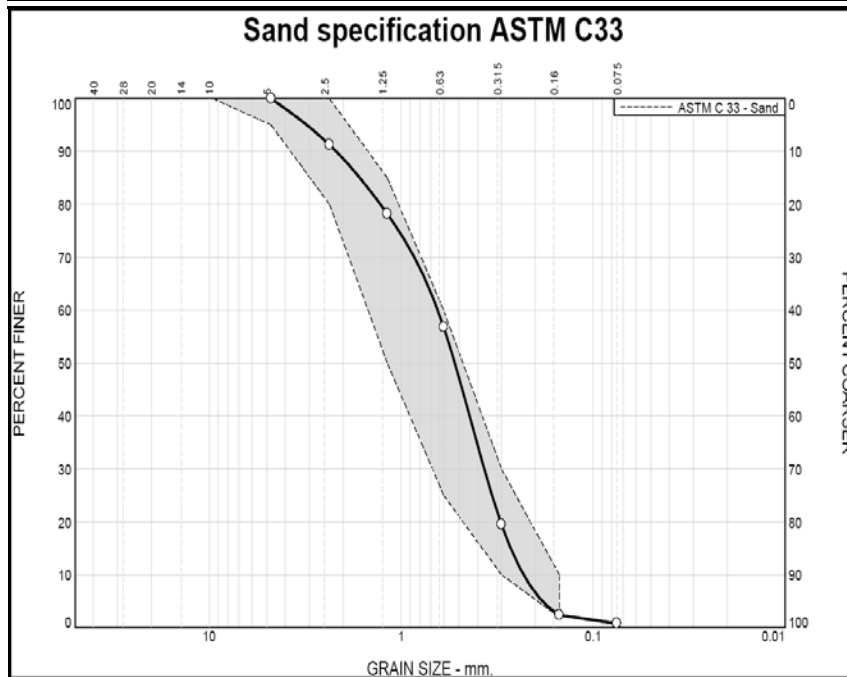
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AA0100

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.7	91.3	80 - 100
No. 16	13.1	78.2	50 - 85
No. 30	21.4	56.8	25 - 60
No. 50	37.3	19.5	10 - 30
No. 100	17.1	2.4	2 - 10
No. 200	1.6	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 65 feet

Percent Gravel + 1.5 inch	6.4		
Percent Gravel 1.5 to 0.75 inches	4.5		
Percent Gravel 0.75 inch to #4 sieve	10.9		
Total Percent Gravel		21.8	

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	
3 - 10	8.0	1.1	2.2	4.8	27.9
10 - 15	9.3	2.0	2.1	5.2	26.1
15 - 20	31.7	4.6	9.8	17.3	30.4
20 - 25	23.2	3.0	6.3	13.9	37.1
25 - 30	29.4	15.7	6.6	7.2	27.5
30 - 35	19.5	3.7	3.0	12.8	23.1
35 - 40	30.4	14.4	3.6	12.5	26.2
40 - 45	26.6	1.8	4.4	20.5	27.9
45 - 50	24.8	12.5	3.9	8.4	24.6
50 - 55	25.1	15.3	2.5	7.3	20.6
55 - 60	6.9	0.0	0.8	6.2	15.1
60 - 65	31.8	4.8	9.2	17.7	25.1

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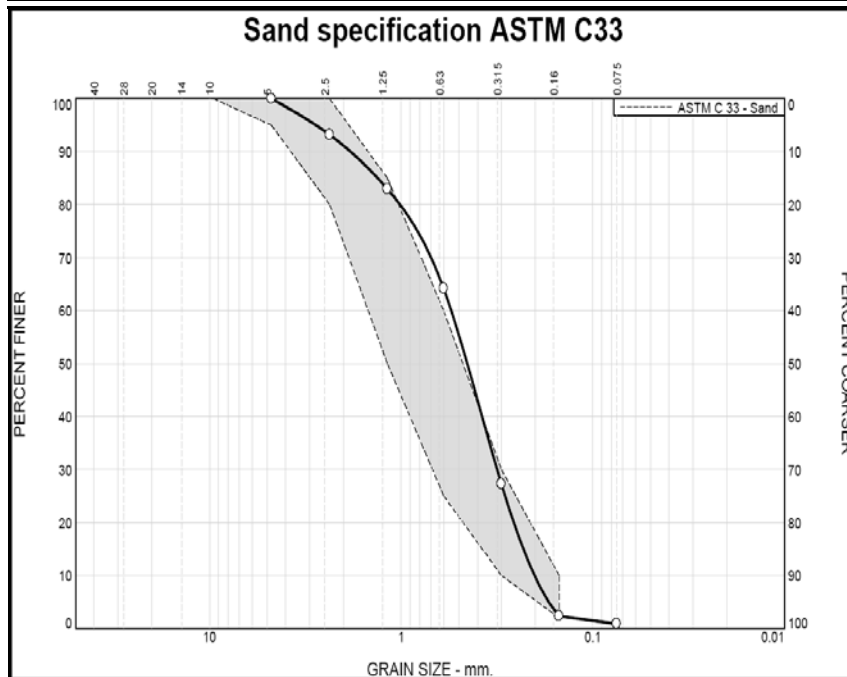
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AA0300

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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	6.8	93.2	80 - 100
No. 16	10.2	83.0	50 - 85
No. 30	18.8	64.2	25 - 60
No. 50	36.9	27.2	10 - 30
No. 100	24.9	2.3	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	2.9		
Percent Gravel 0.75 inch to #4 sieve	10.7		
Total Percent Gravel		16.5	

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	
3 - 10	15.2	1.6	2.6	11.0	32.4
10 - 15	4.0	0.0	0.5	3.5	24.2
15 - 20	9.3	0.0	4.8	4.5	19.8
20 - 25	2.0	0.0	0.1	1.8	19.3
25 - 30	22.6	8.0	2.4	12.2	25.8
30 - 35	17.2	0.0	3.3	13.9	23.3
35 - 40	27.4	6.8	3.7	16.9	23.7
40 - 45	35.1	6.8	6.3	22.0	29.0

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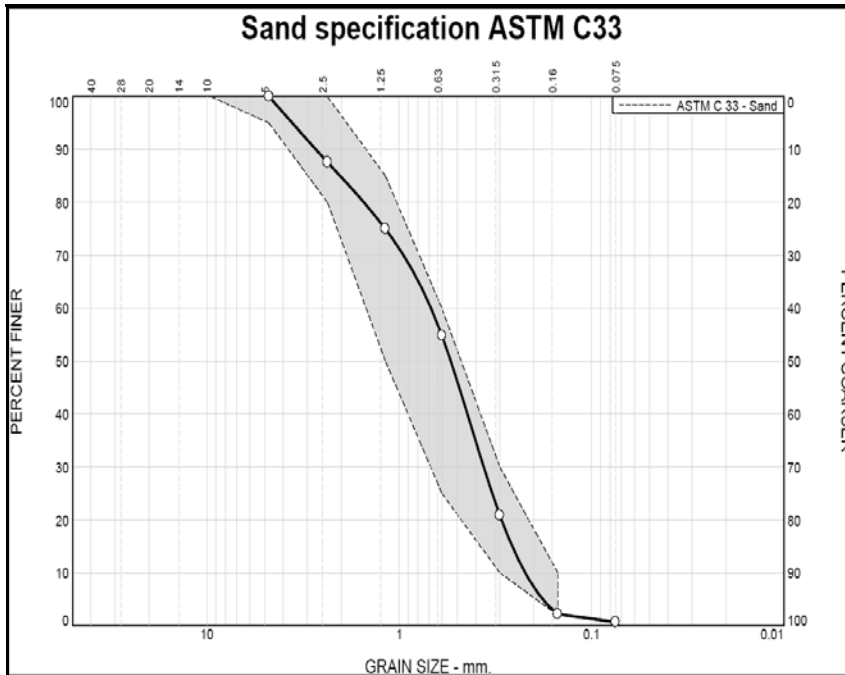
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AA0500

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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	12.4	87.6	80 - 100
No. 16	12.6	75.0	50 - 85
No. 30	20.1	54.8	25 - 60
No. 50	34.0	20.9	10 - 30
No. 100	18.7	2.2	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	2.6		
Percent Gravel 1.5 to 0.75 inches	2.7		
Percent Gravel 0.75 inch to #4 sieve	11.8		
Total Percent Gravel		17.0	

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	
3 - 10	7.9	0.0	0.4	7.5	29.8
10 - 15	8.1	2.8	1.1	4.2	21.0
15 - 25	1.7	0.0	0.5	1.2	40.5
25 - 30	30.5	8.1	6.0	16.4	23.4
30 - 35	33.2	1.8	1.5	29.9	21.1
35 - 40	28.6	4.1	6.6	17.9	19.6
40 - 45	28.4	4.8	5.5	18.2	24.6

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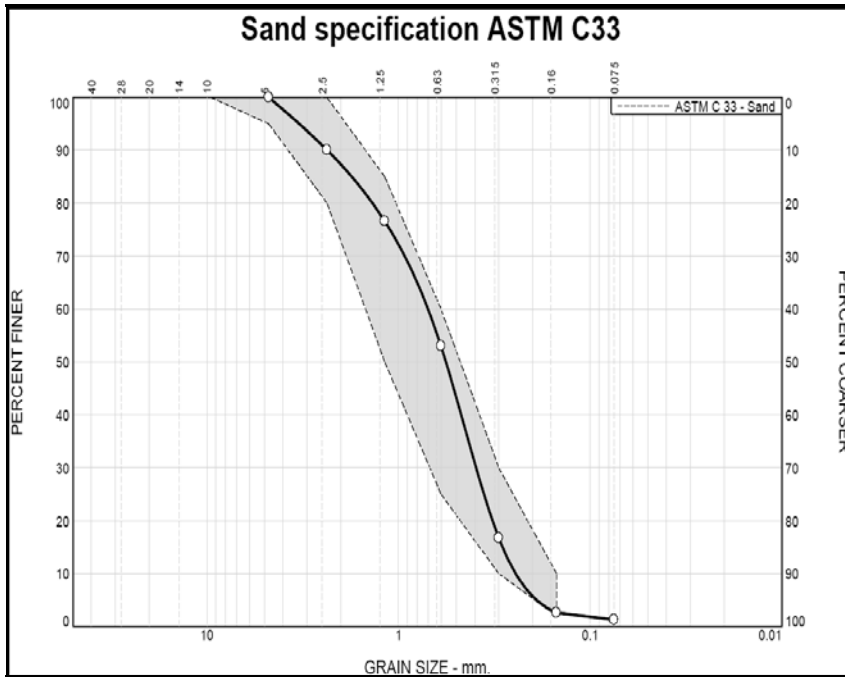
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AA1100

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.9	90.1	80 - 100
No. 16	13.5	76.6	50 - 85
No. 30	23.6	53.0	25 - 60
No. 50	36.3	16.7	10 - 30
No. 100	14.1	2.6	2 - 10
No. 200	1.3	1.3	
Pan	1.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 45 feet

Percent Gravel + 1.5 inch	4.7		
Percent Gravel 1.5 to 0.75 inches	6.7		
Percent Gravel 0.75 inch to #4 sieve	16.0		
Total Percent Gravel		27.4	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	14.9	0.7	3.2	31.8
10 - 15	20.7	1.7	3.9	24.9
15 - 20	33.1	6.0	12.3	25.7
20 - 25	43.0	11.3	13.2	33.0
25 - 30	27.0	5.2	3.8	21.5
30 - 35	32.3	10.0	6.5	25.6
35 - 40	22.2	0.0	4.2	24.8
40 - 45	28.8	3.7	7.4	28.2

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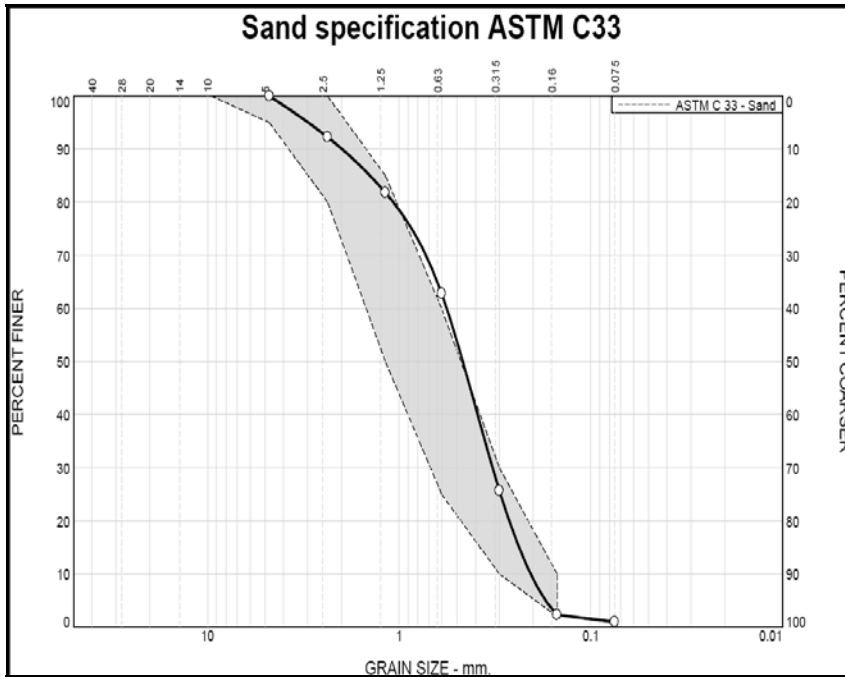
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HOLE NO. AA1300

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.7	92.3	80 - 100
No. 16	10.5	81.8	50 - 85
No. 30	19.0	62.8	25 - 60
No. 50	37.1	25.7	10 - 30
No. 100	23.4	2.3	2 - 10
No. 200	1.4	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 60 feet

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	5.5	Total Percent Gravel	20.0
Percent Gravel 0.75 inch to #4 sieve	10.6		

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	
2 - 10	6.1	0.0	1.0	5.1	30.9
10 - 15	1.2	0.0	0.0	1.2	20.2
15 - 20	5.0	0.0	1.5	3.5	19.8
20 - 25	21.5	0.0	12.2	9.3	23.6
25 - 30	36.3	10.4	8.4	17.5	22.9
30 - 35	38.1	12.3	6.7	19.1	23.4
35 - 40	30.9	9.7	7.8	13.5	18.6
40 - 45	20.8	2.3	6.8	11.7	21.4
45 - 50	31.1	6.9	10.2	14.0	19.7
50 - 55	21.5	4.2	4.1	13.3	18.5
55 - 60	16.0	0.0	4.0	12.0	14.6

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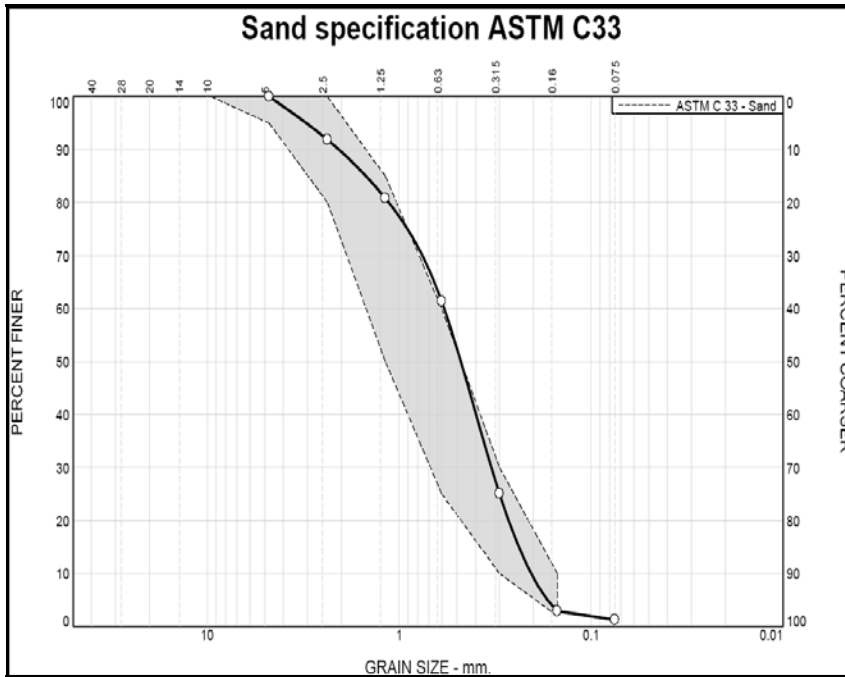
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HOLE NO. AA2500

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 57 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.1	91.9	80 - 100
No. 16	11.0	80.8	50 - 85
No. 30	19.4	61.4	25 - 60
No. 50	36.4	25.0	10 - 30
No. 100	22.1	2.9	2 - 10
No. 200	1.7	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 57 feet

Percent Gravel + 1.5 inch	1.8		
Percent Gravel 1.5 to 0.75 inches	4.7	Total Percent Gravel	20.0
Percent Gravel 0.75 inch to #4 sieve	13.5		

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	
2 - 10	4.7	0.0	1.7	3.0	17.9
10 - 20	4.0	0.0	1.0	2.9	24.0
20 - 25	14.6	2.0	4.2	8.5	28.3
25 - 30	37.8	2.2	7.5	28.1	36.6
30 - 35	36.6	4.7	7.6	24.2	46.6
35 - 40	31.2	6.9	8.8	15.5	33.8
40 - 45	28.2	0.9	6.1	21.3	30.1
45 - 57	27.9	0.7	6.1	21.2	40.6

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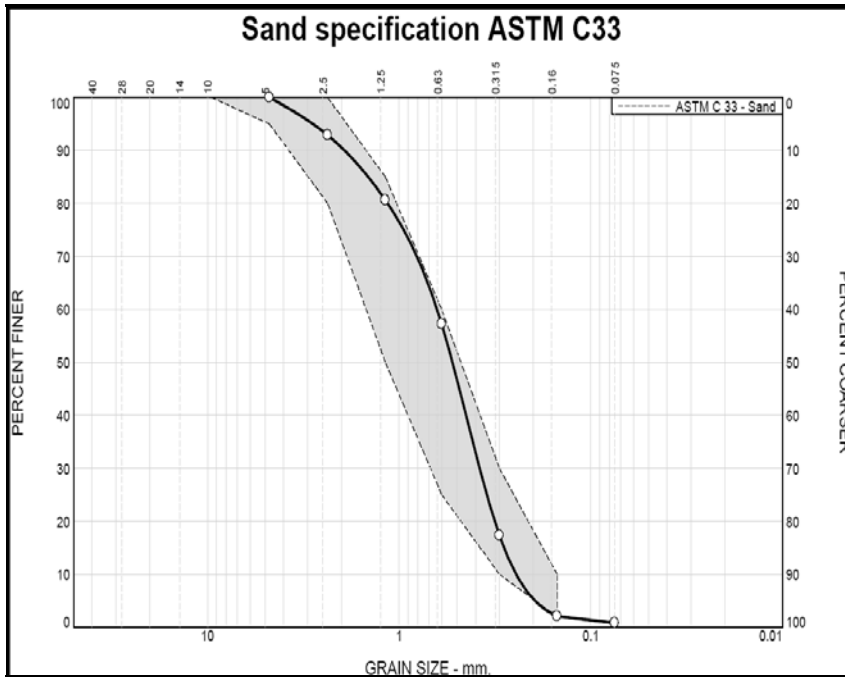
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 0 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.1	92.9	80 - 100
No. 16	12.3	80.6	50 - 85
No. 30	23.4	57.2	25 - 60
No. 50	39.9	17.3	10 - 30
No. 100	15.2	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 0 to 25 feet

Percent Gravel + 1.5 inch	6.0		
Percent Gravel 1.5 to 0.75 inches	5.1	Total Percent Gravel	21.0
Percent Gravel 0.75 inch to #4 sieve	9.9		

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	
0 - 5	19.5	1.8	5.0	12.7	30.8
5 - 10	27.6	13.6	4.8	9.2	34.8
10 - 15	23.0	5.6	7.6	9.8	26.5
15 - 20	17.9	5.7	4.2	8.0	20.7
20 - 25	17.1	3.6	4.0	9.5	37.9

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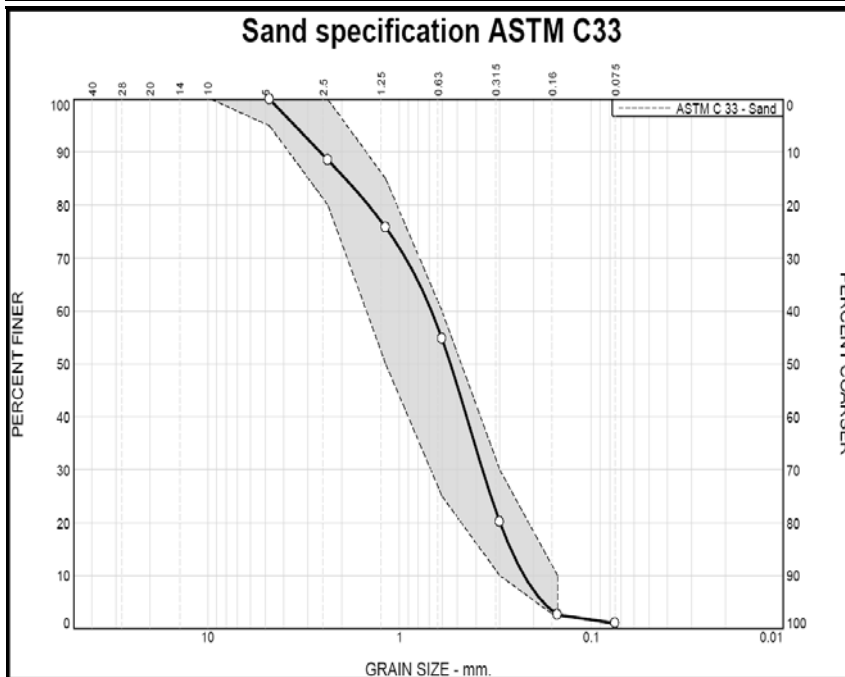
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HOLE NO. AAA1400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.5	88.5	80 - 100
No. 16	12.7	75.8	50 - 85
No. 30	21.0	54.8	25 - 60
No. 50	34.6	20.1	10 - 30
No. 100	17.5	2.6	2 - 10
No. 200	1.6	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 35 feet

Percent Gravel + 1.5 inch	0.9		
Percent Gravel 1.5 to 0.75 inches	3.4		
Percent Gravel 0.75 inch to #4 sieve	19.9		
		Total Percent Gravel	24.2

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	16.6	0.8	1.8	14.0	27.7
10 - 15	26.3	0.0	3.5	22.8	30.1
15 - 20	38.6	2.2	3.8	32.6	31.7
20 - 25	35.7	0.0	4.0	31.7	35.0
25 - 30	19.2	2.5	6.2	10.4	29.1
30 - 35	12.1	0.0	1.7	10.4	17.5

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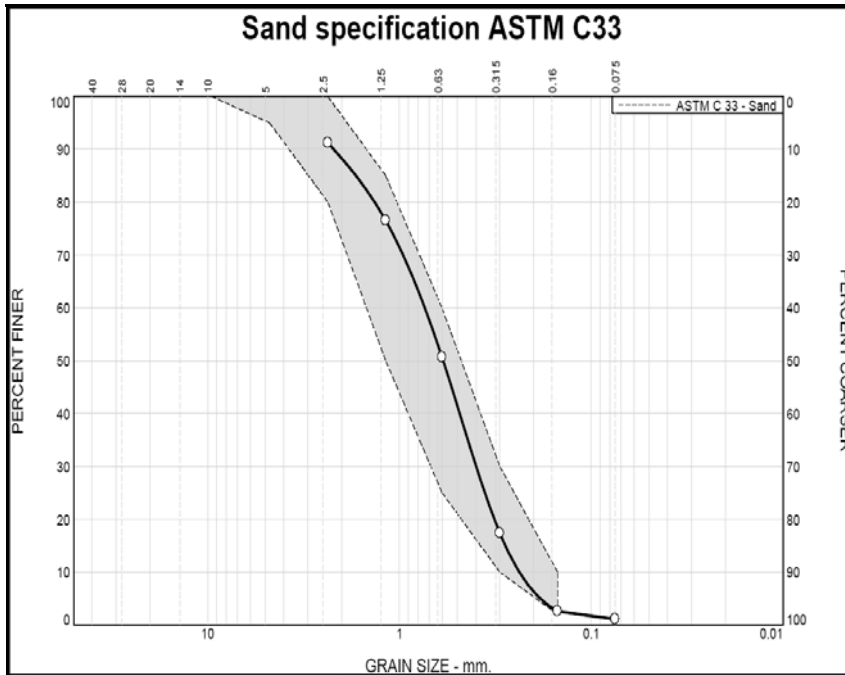
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HOLE NO. AAA1600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 50 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	14.7	76.5	50 - 85
No. 30	25.9	50.7	25 - 60
No. 50	33.3	17.4	10 - 30
No. 100	14.8	2.6	2 - 10
No. 200	1.5	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 50 feet

Percent Gravel + 1.5 inch	7.7		
Percent Gravel 1.5 to 0.75 inches	6.9		
Percent Gravel 0.75 inch to #4 sieve	14.5		
Total Percent Gravel		29.1	

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	
5 - 10	10.6	0.0	3.0	7.7	34.9
10 - 15	30.8	6.1	9.1	15.5	35.7
15 - 20	34.0	5.3	7.7	21.1	40.7
20 - 25	26.6	8.8	5.1	12.7	26.0
25 - 30	36.8	16.9	7.8	12.1	38.2
30 - 35	34.4	7.1	10.8	16.4	36.0
35 - 40	40.5	6.1	10.1	24.3	33.4
40 - 45	27.9	6.8	5.8	15.4	31.2
45 - 50	20.1	12.1	2.6	5.4	31.9

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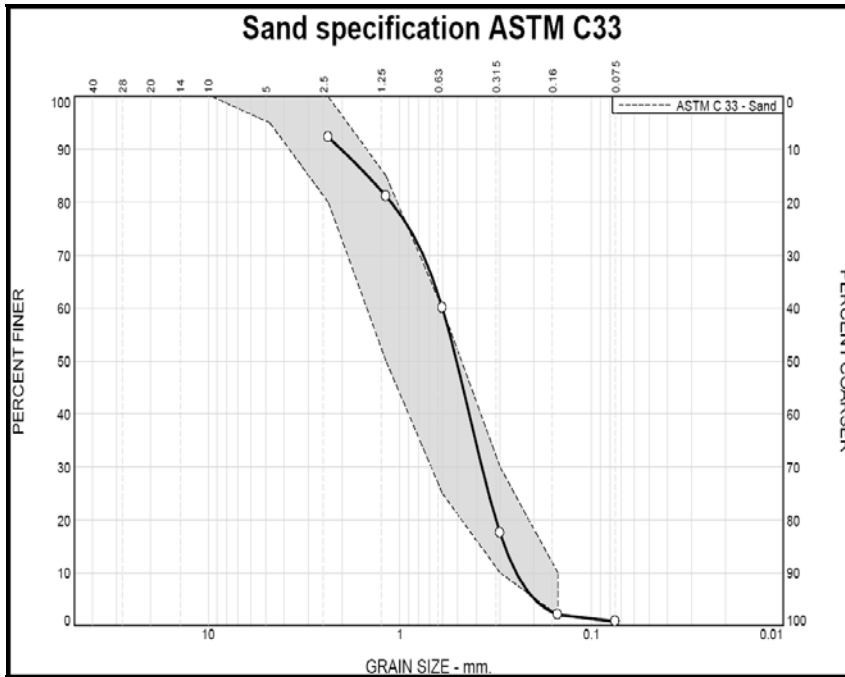
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA1800

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.7	92.3	80 - 100
No. 16	11.2	81.1	50 - 85
No. 30	21.1	60.1	25 - 60
No. 50	42.6	17.5	10 - 30
No. 100	15.4	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2.5 to 65 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	6.1		
Percent Gravel 0.75 inch to #4 sieve	13.6		
Total Percent Gravel		23.3	

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	
2.5 - 10	16.0	2.5	3.8	9.7	39.9
10 - 15	32.0	1.1	7.0	23.9	46.6
15 - 20	22.7	2.6	7.2	12.9	31.7
20 - 25	26.4	4.4	8.4	13.6	31.0
25 - 30	29.7	15.3	6.3	8.1	38.7
30 - 35	37.3	3.0	16.8	17.5	35.8
35 - 40	26.7	2.5	6.8	17.4	29.0
40 - 45	14.3	0.0	3.8	10.4	29.1
45 - 50	23.5	0.0	5.2	18.2	24.5
50 - 55	15.6	1.2	2.7	11.7	26.5
55 - 60	17.4	8.0	2.2	7.1	23.9
60 - 65	21.8	2.4	4.5	14.9	29.0

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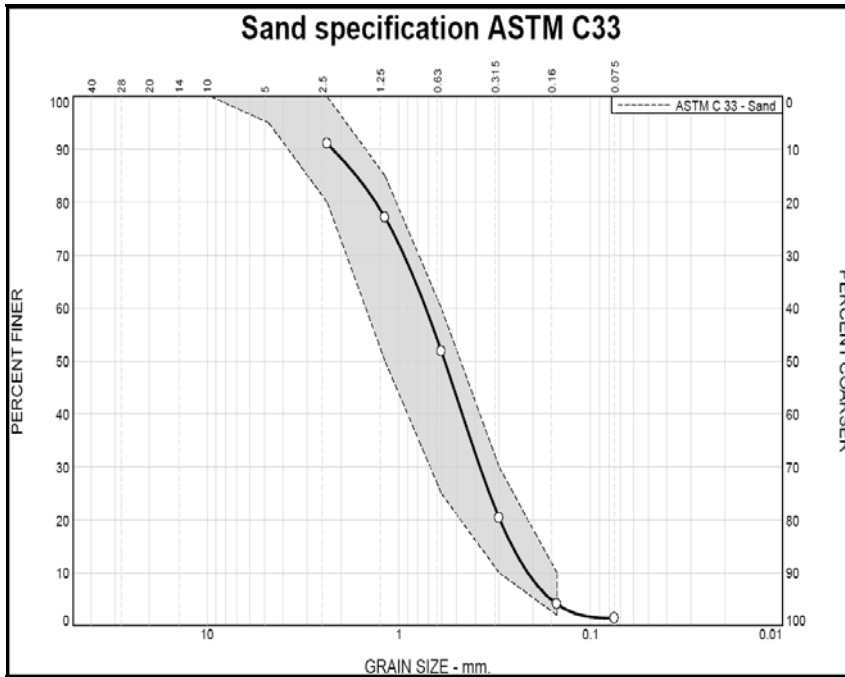
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA2000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 55 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	14.0	77.1	50 - 85
No. 30	25.3	51.9	25 - 60
No. 50	31.5	20.3	10 - 30
No. 100	16.3	4.1	2 - 10
No. 200	2.7	1.4	
Pan	1.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2.5 to 55 feet

Percent Gravel + 1.5 inch	4.8		
Percent Gravel 1.5 to 0.75 inches	5.8		
Percent Gravel 0.75 inch to #4 sieve	15.8		
Total Percent Gravel		26.4	

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	
2.5 - 10	21.8	3.2	5.5	13.1	37.8
10 - 15	37.5	9.1	8.4	20.0	41.8
15 - 20	32.2	3.9	9.8	18.5	34.5
20 - 25	25.1	3.5	6.4	15.3	22.8
25 - 30	26.5	14.0	4.9	7.6	29.1
30 - 35	8.5	0.0	2.1	6.3	19.9
35 - 45	25.7	5.1	3.6	16.9	26.0
45 - 55	31.5	2.3	7.0	22.2	24.6

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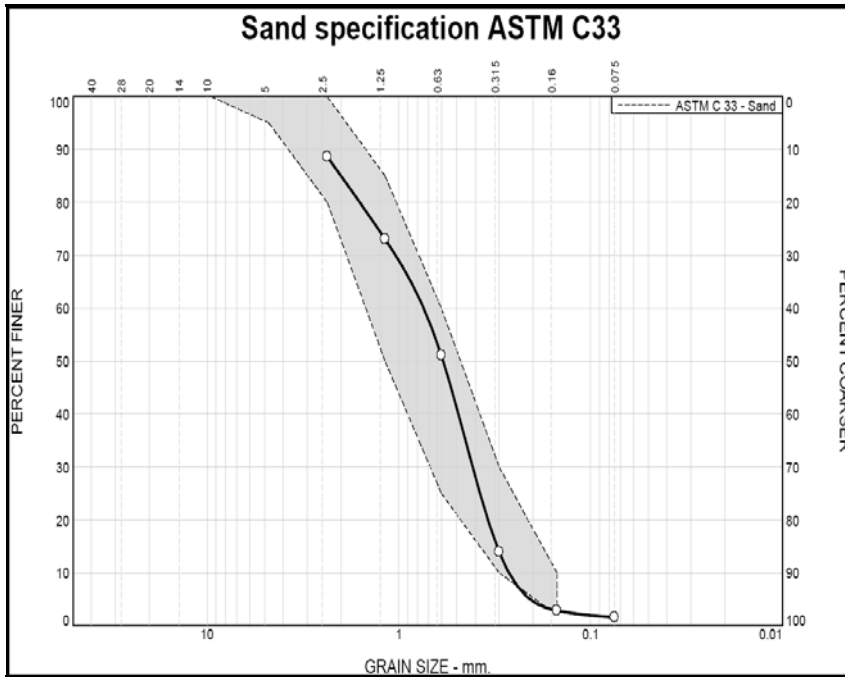
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA2200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 53 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.4	88.6	80 - 100
No. 16	15.6	73.1	50 - 85
No. 30	22.0	51.1	25 - 60
No. 50	37.1	13.9	10 - 30
No. 100	11.1	2.9	2 - 10
No. 200	1.3	1.6	
Pan	1.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 53 feet

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	6.8		
Percent Gravel 0.75 inch to #4 sieve	16.5		
Total Percent Gravel		25.4	

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	26.4	3.2	8.4	14.7	34.1
10 - 15	15.4	0.0	5.3	10.1	29.1
15 - 20	15.1	0.0	4.8	10.3	32.1
20 - 25	24.0	1.9	4.0	18.0	36.7
25 - 30	17.0	1.2	5.3	10.6	23.4
30 - 35	19.4	0.8	7.0	11.7	29.6
35 - 40	29.1	2.0	5.2	21.9	37.6
40 - 45	32.5	3.6	8.6	20.3	32.6
45 - 50	41.9	4.6	9.2	28.1	51.5
50 - 53	38.3	4.2	12.4	21.7	26.4

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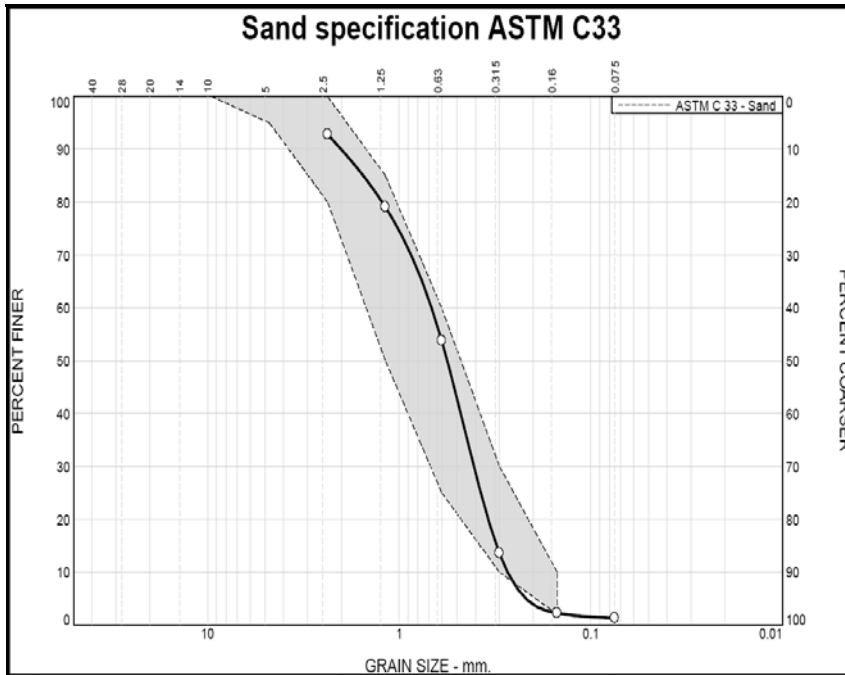
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HOLE NO. AAA2400

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 65 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	13.7	79.1	50 - 85
No. 30	25.3	53.8	25 - 60
No. 50	40.2	13.6	10 - 30
No. 100	11.3	2.2	2 - 10
No. 200	0.9	1.3	
Pan	1.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 65 feet

Percent Gravel + 1.5 inch	7.4		
Percent Gravel 1.5 to 0.75 inches	7.1		
Percent Gravel 0.75 inch to #4 sieve	11.9		
Total Percent Gravel		26.4	

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	
7 - 10	15.2	2.0	3.1	10.1	22.7
10 - 15	35.0	9.0	14.0	12.0	30.7
15 - 20	23.9	10.1	5.9	7.8	24.8
20 - 25	49.3	12.0	14.4	23.0	31.8
25 - 30	23.1	10.4	4.7	8.1	27.4
30 - 35	9.8	1.8	3.7	4.3	24.0
35 - 40	21.4	7.1	5.8	8.5	25.5
40 - 45	35.9	4.7	11.0	20.3	28.4
45 - 50	21.3	3.6	4.0	13.7	26.6
50 - 55	23.0	2.8	6.4	13.8	28.4
55 - 60	24.3	7.7	5.0	11.6	29.4
60 - 65	29.6	15.0	5.5	9.1	26.7

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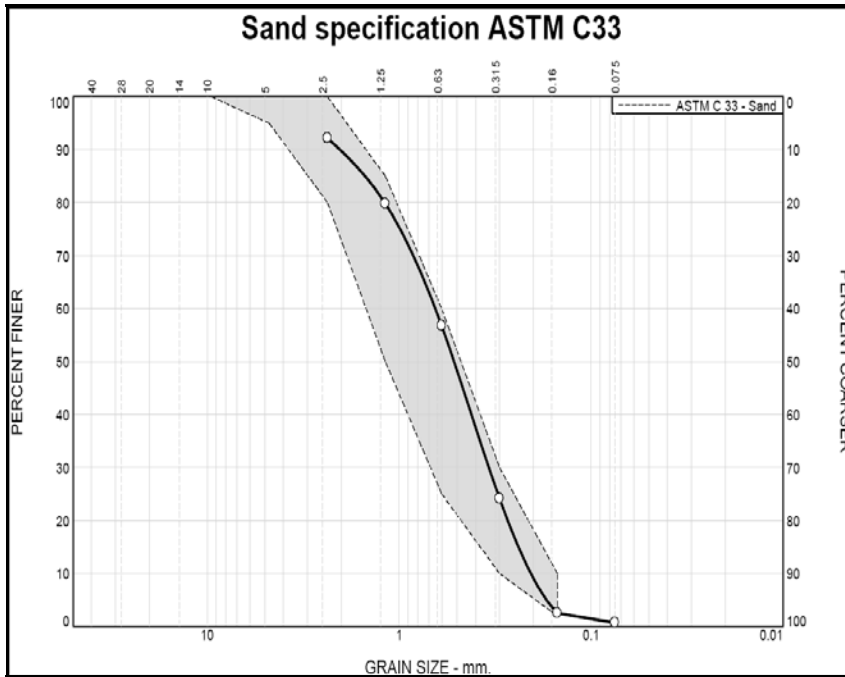
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA2600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 65 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	12.4	79.8	50 - 85
No. 30	23.1	56.7	25 - 60
No. 50	32.6	24.2	10 - 30
No. 100	21.6	2.5	2 - 10
No. 200	1.8	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 65 feet

Percent Gravel + 1.5 inch	1.4		
Percent Gravel 1.5 to 0.75 inches	4.2	Total Percent Gravel	19.4
Percent Gravel 0.75 inch to #4 sieve	13.7		

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 - 15	5.8	0.6	0.8	4.4	33.4
15 - 25	2.0	0.0	0.2	1.8	20.0
25 - 30	38.6	4.1	10.2	24.3	42.1
30 - 35	31.6	4.5	6.5	20.5	28.3
35 - 40	29.7	1.6	6.3	21.8	24.3
40 - 45	28.8	0.9	6.8	21.0	20.9
45 - 50	31.6	1.9	10.1	19.6	32.6
50 - 55	21.6	1.5	3.8	16.3	17.7
55 - 65	20.2	0.8	3.1	16.3	26.8

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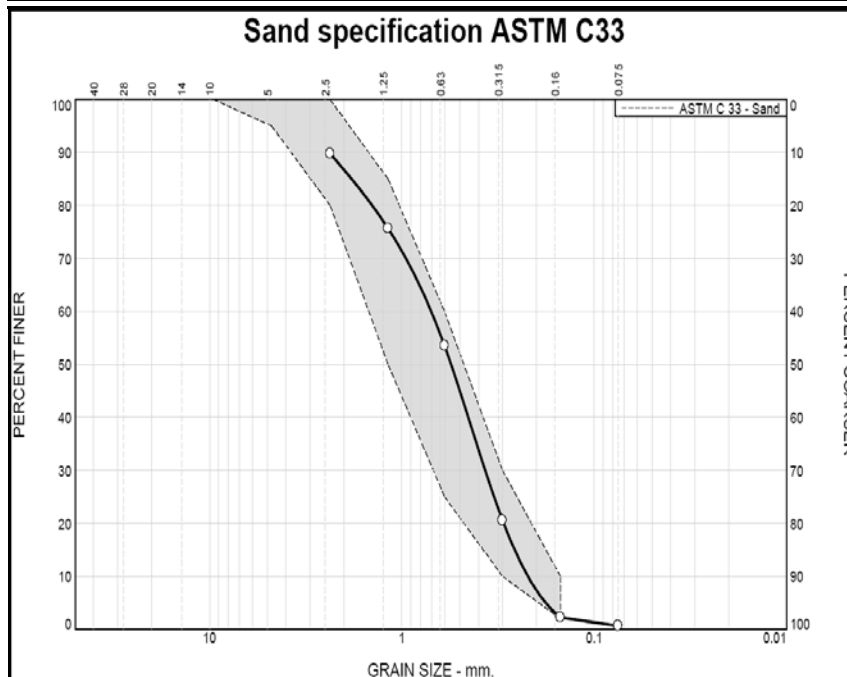
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA2800

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 63 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.2	89.8	80 - 100
No. 16	14.1	75.7	50 - 85
No. 30	22.1	53.5	25 - 60
No. 50	33.0	20.6	10 - 30
No. 100	18.3	2.2	2 - 10
No. 200	1.6	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 63 feet

Percent Gravel + 1.5 inch	0.7		
Percent Gravel 1.5 to 0.75 inches	4.2	Total Percent Gravel	17.4
Percent Gravel 0.75 inch to #4 sieve	12.5		

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	
6 - 25	3.1	0.0	1.9	1.2	19.5
25 - 30	32.3	4.9	4.5	22.8	38.3
30 - 35	23.2	2.1	6.3	14.8	29.6
35 - 40	15.6	0.0	4.9	10.7	25.1
40 - 45	22.0	0.0	5.7	16.3	25.8
45 - 50	31.8	0.0	8.1	23.7	23.5
50 - 55	21.2	1.2	4.2	15.8	21.0
55 - 63	23.7	0.0	3.8	19.8	26.5

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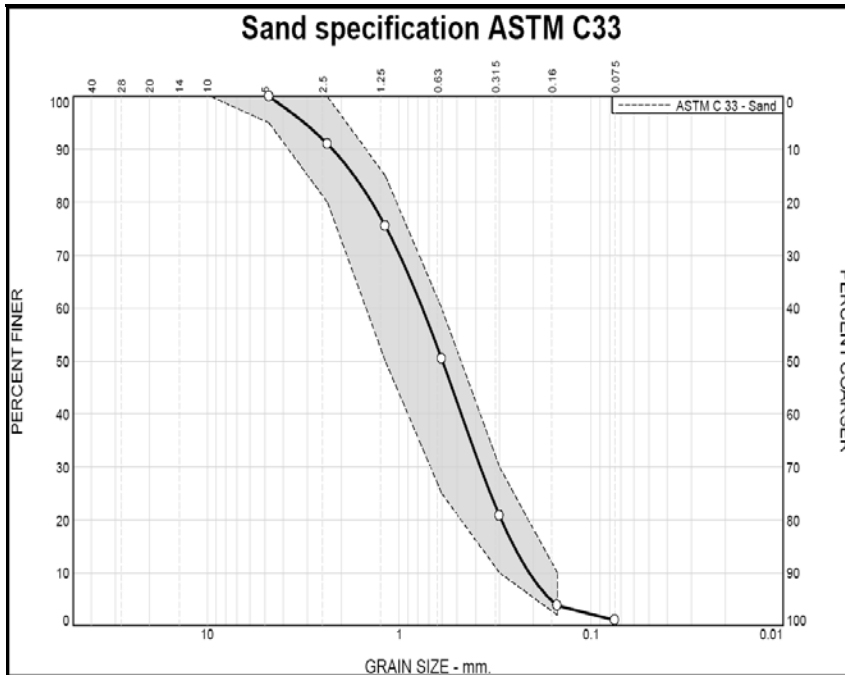
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. AAA3000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 50 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	15.5	75.5	50 - 85
No. 30	25.1	50.4	25 - 60
No. 50	29.6	20.8	10 - 30
No. 100	17.0	3.8	2 - 10
No. 200	2.8	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 50 feet

Percent Gravel + 1.5 inch	1.4		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	12.2		
Total Percent Gravel		17.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
7 - 20	4.3	0.0	1.3	32.2
20 - 25	11.3	0.0	1.2	28.4
25 - 30	31.1	0.9	10.3	37.1
30 - 35	19.8	0.0	3.3	27.4
35 - 40	14.7	0.0	1.5	25.5
40 - 45	32.0	9.0	2.7	30.5
45 - 55	22.3	2.0	5.6	49.4

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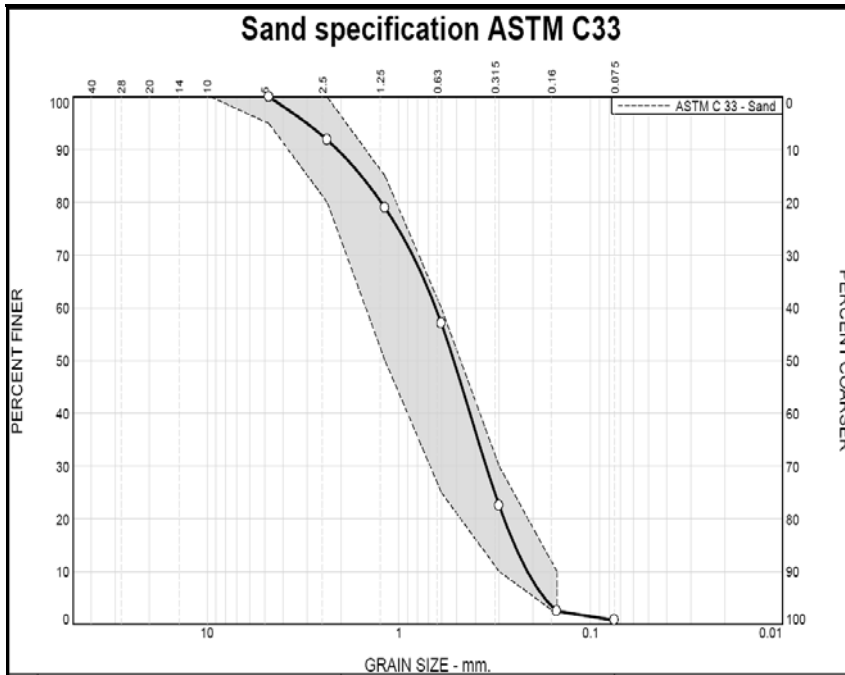
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HOLE NO. AAA3200

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.1	91.9	80 - 100
No. 16	12.9	79.0	50 - 85
No. 30	21.9	57.1	25 - 60
No. 50	34.6	22.5	10 - 30
No. 100	20.0	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 45 feet

Percent Gravel + 1.5 inch	4.8		
Percent Gravel 1.5 to 0.75 inches	7.2	Total Percent Gravel	26.8
Percent Gravel 0.75 inch to #4 sieve	14.8		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
2 - 15	19.4	5.2	7.1	33.3
15 - 20	35.0	10.0	9.2	39.4
20 - 25	32.8	5.9	6.3	29.3
25 - 30	24.6	5.5	8.7	32.9
30 - 35	30.8	5.8	10.0	32.1
35 - 40	26.3	0.0	5.4	29.0
40 - 45	30.9	0.8	4.0	21.3

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