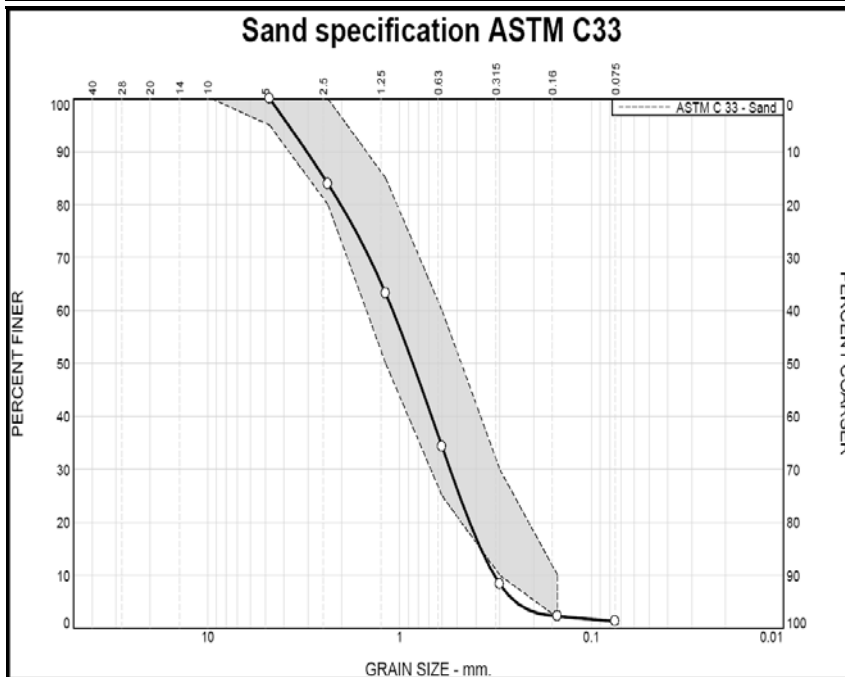


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HOLE NO. M0000

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 13 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	16.1	83.9	80 - 100
No. 16	20.7	63.2	50 - 85
No. 30	28.9	34.3	25 - 60
No. 50	26.0	8.3	10 - 30
No. 100	6.0	2.3	2 - 10
No. 200	1.0	1.3	
Pan	1.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 13 feet

Percent Gravel + 1.5 inch	4.7		
Percent Gravel 1.5 to 0.75 inches	6.0	Total Percent Gravel	32.6
Percent Gravel 0.75 inch to #4 sieve	21.9		

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	29.3	1.1	6.6	21.6	31.3
10 - 13	38.1	10.6	5.1	22.3	18.1

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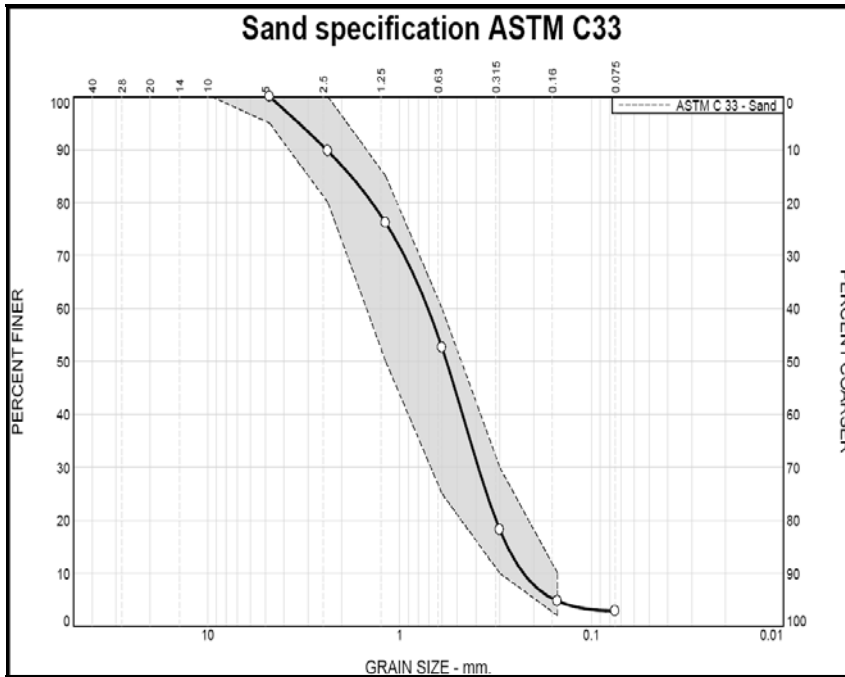
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HOLE NO. M0200

Page 1 of 1

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	10.3	89.7	80 - 100
No. 16	13.6	76.2	50 - 85
No. 30	23.6	52.6	25 - 60
No. 50	34.4	18.2	10 - 30
No. 100	13.4	4.7	2 - 10
No. 200	1.9	2.9	
Pan	2.9		

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

Percent Gravel + 1.5 inch	0.9		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	13.4		
Total Percent Gravel		18.2	

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	
3 - 10	25.9	3.9	5.6	16.4	36.8
10 - 15	13.5	0.0	0.8	12.7	27.0
15 - 20	20.5	1.5	3.1	15.9	24.2
20 - 25	15.4	0.0	6.1	9.3	27.8
25 - 30	13.4	0.0	2.4	11.0	24.1
30 - 35	18.7	0.0	5.0	13.7	21.1
35 - 40	17.0	0.0	3.4	13.6	20.9

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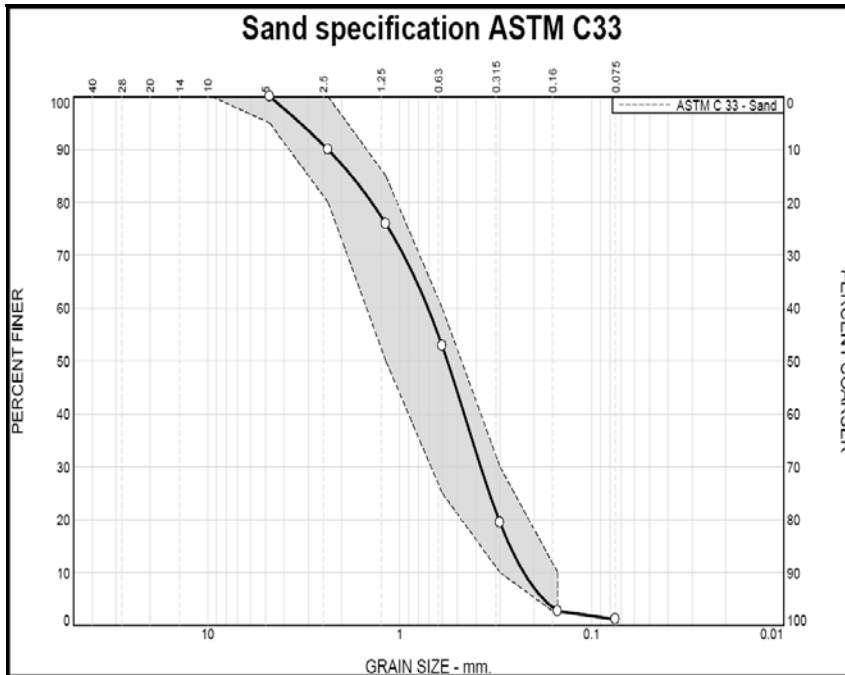
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HOLE NO. M0400

Page 1 of 1

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	10.0	90.0	80 - 100
No. 16	14.0	75.9	50 - 85
No. 30	23.1	52.9	25 - 60
No. 50	33.4	19.4	10 - 30
No. 100	16.7	2.7	2 - 10
No. 200	1.5	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	1.7		
Percent Gravel 1.5 to 0.75 inches	5.1	Total Percent Gravel	22.3
Percent Gravel 0.75 inch to #4 sieve	15.5		

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	
4 - 10	27.8	0.6	8.4	18.8	35.0
10 - 15	25.2	1.3	7.6	16.4	30.2
15 - 20	26.1	7.7	6.0	12.4	26.4
20 - 25	14.1	0.0	5.2	8.8	25.3
25 - 30	23.9	4.2	3.4	16.3	22.6
30 - 35	18.5	0.0	1.9	16.6	14.7
35 - 40	18.6	0.0	3.2	15.4	18.2
40 - 45	22.9	0.0	4.4	18.5	20.0

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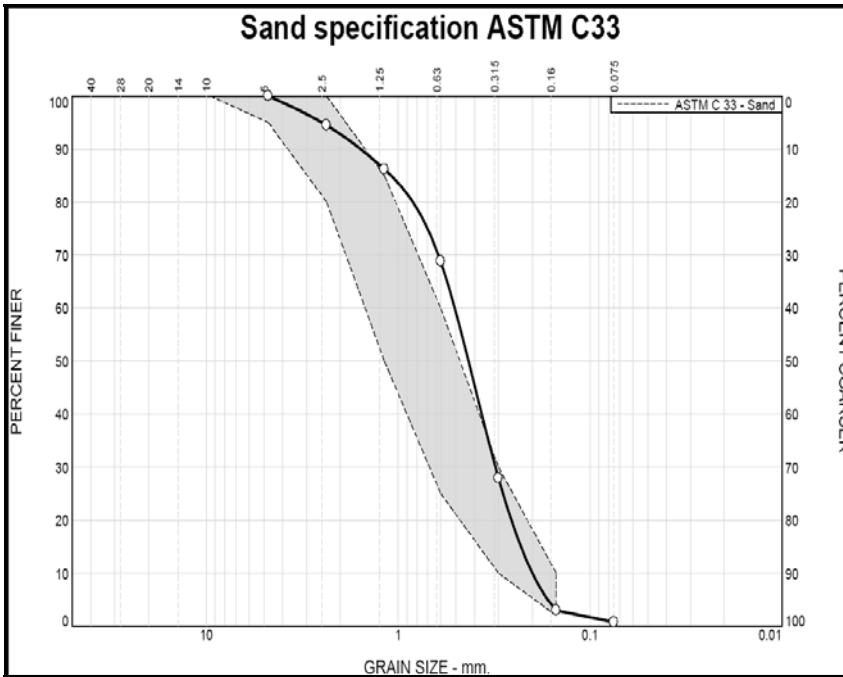
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.5	94.5	80 - 100
No. 16	8.3	86.2	50 - 85
No. 30	17.4	68.8	25 - 60
No. 50	40.9	27.9	10 - 30
No. 100	24.9	3.0	2 - 10
No. 200	2.2	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2.5 to 30 feet

Percent Gravel + 1.5 inch	6.7		
Percent Gravel 1.5 to 0.75 inches	4.1	Total Percent Gravel	19.6
Percent Gravel 0.75 inch to #4 sieve	8.7		

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	
2.5 - 5	24.9	0.0	6.6	18.3	13.1
5 - 10	16.4	6.1	3.0	7.3	25.8
10 - 15	15.3	5.5	2.7	7.1	22.5
15 - 20	16.0	7.9	3.8	4.3	23.2
20 - 25	30.6	16.4	6.6	7.7	32.0
25 - 30	16.8	1.1	3.3	12.3	25.9

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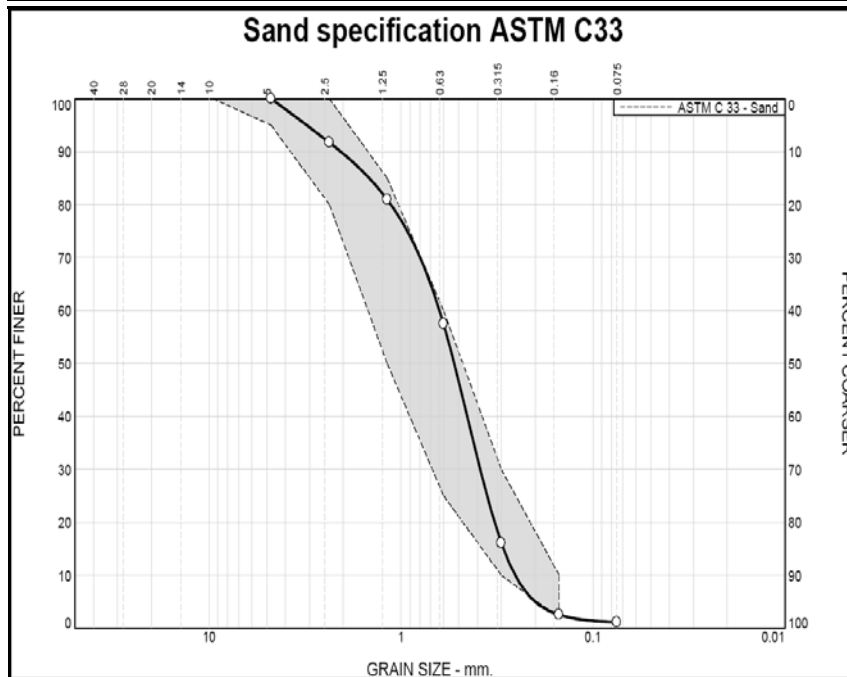
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 45 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	10.8	81.0	50 - 85
No. 30	23.5	57.5	25 - 60
No. 50	41.4	16.0	10 - 30
No. 100	13.5	2.5	2 - 10
No. 200	1.4	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 45 feet

Percent Gravel + 1.5 inch	4.8		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	9.4		
Total Percent Gravel		19.0	

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	
5 - 10	30.2	8.7	8.4	13.1	31.4
10 - 15	7.7	0.0	2.7	5.0	24.5
15 - 20	18.9	7.7	4.1	7.0	29.9
20 - 25	30.4	9.2	8.3	12.9	32.0
25 - 30	29.0	8.9	6.3	13.8	24.7
30 - 35	10.0	3.7	1.1	5.2	21.7
35 - 40	6.8	0.0	2.3	4.5	21.3
40 - 45	19.2	0.0	5.4	13.8	28.1

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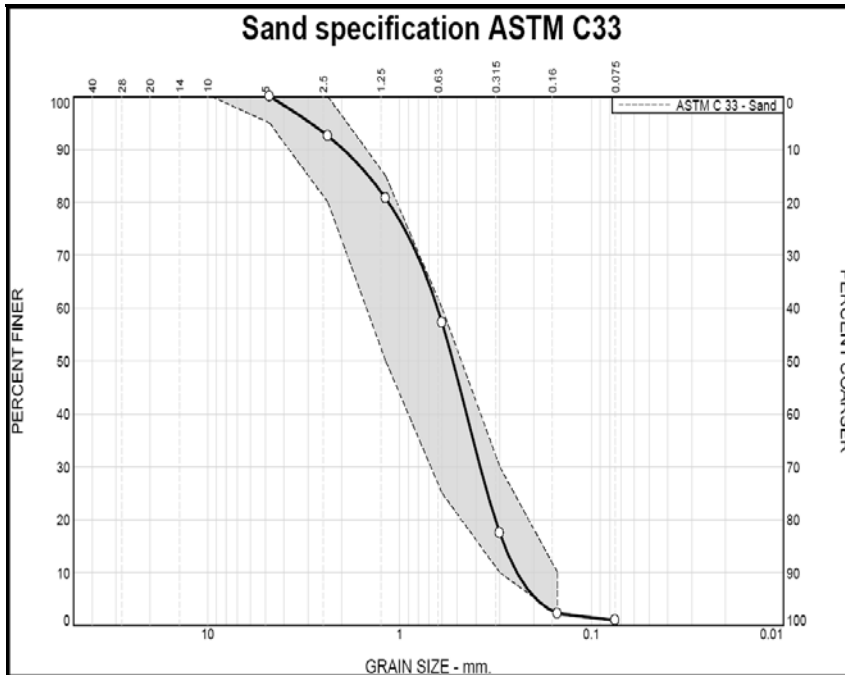
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HOLE NO. M1000

Page 1 of 1

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	7.5	92.5	80 - 100
No. 16	11.8	80.8	50 - 85
No. 30	23.5	57.2	25 - 60
No. 50	39.8	17.5	10 - 30
No. 100	15.2	2.2	2 - 10
No. 200	1.3	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	1.3		
Percent Gravel 1.5 to 0.75 inches	2.7	Total Percent Gravel	13.9
Percent Gravel 0.75 inch to #4 sieve	9.9		

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	19.1	0.0	5.6	13.5	32.9
10 - 15	11.9	0.0	3.0	8.8	27.0
15 - 20	18.0	0.8	4.2	13.0	28.6
20 - 25	18.0	0.0	1.3	16.7	26.2
25 - 30	8.8	0.0	1.9	6.8	20.3
30 - 35	19.9	0.0	5.6	14.3	26.5
35 - 40	23.4	9.9	3.5	10.0	27.4
40 - 45	3.7	0.0	0.7	3.1	21.7
45 - 50	9.8	0.0	2.1	7.7	21.6
50 - 55	9.9	3.6	1.7	4.6	29.3
55 - 60	12.9	0.0	1.7	11.2	22.2
60 - 65	12.7	0.8	2.2	9.7	26.1

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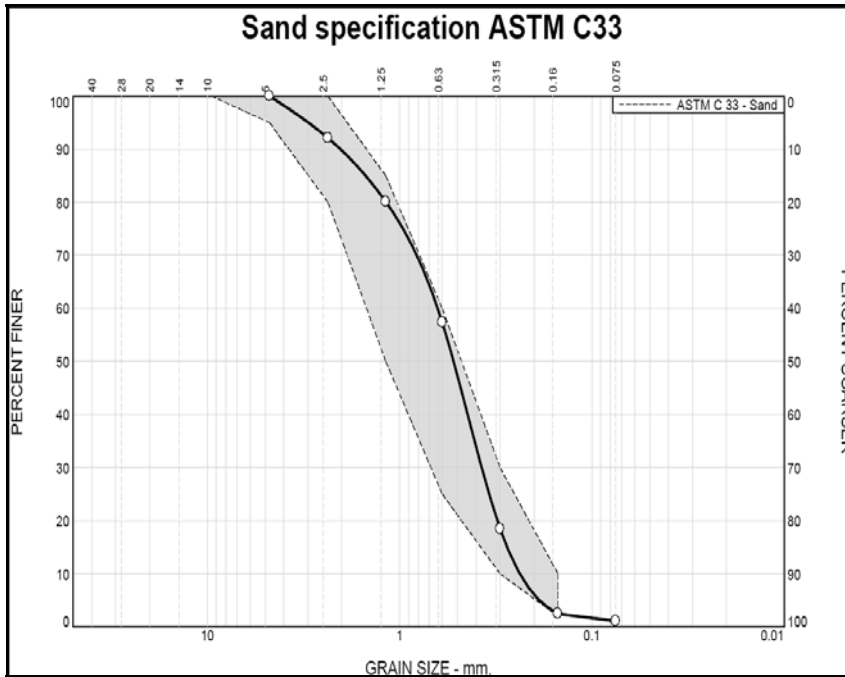
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Page 1 of 1

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	7.9	92.1	80 - 100
No. 16	12.0	88.0	50 - 85
No. 30	22.7	77.3	25 - 60
No. 50	38.9	61.1	10 - 30
No. 100	16.0	84.0	2 - 10
No. 200	1.4	98.6	
Pan	1.1		

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

Percent Gravel + 1.5 inch	1.9		
Percent Gravel 1.5 to 0.75 inches	3.3		
Percent Gravel 0.75 inch to #4 sieve	11.0		
		Total Percent Gravel	16.1

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	
5 - 10	25.1	0.0	4.5	20.6	28.9
10 - 15	7.3	1.0	1.2	5.0	26.7
15 - 20	4.4	0.0	0.7	3.7	21.9
20 - 25	3.1	0.0	0.4	2.8	20.7
25 - 30	11.4	1.8	1.6	7.9	25.1
30 - 35	19.1	3.1	5.1	10.9	30.6
35 - 40	25.2	6.0	6.0	13.2	26.9
40 - 45	24.5	4.9	5.0	14.6	27.9
45 - 50	21.4	1.8	3.8	15.8	24.5
50 - 55	20.0	0.0	4.6	15.4	22.8

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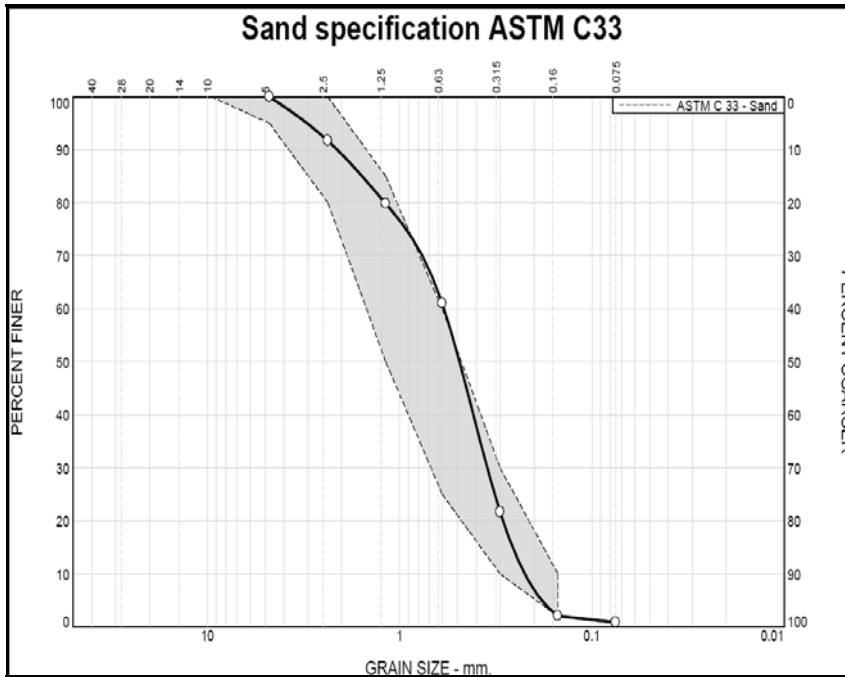
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Page 1 of 1

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	8.3	91.7	80 - 100
No. 16	11.9	79.8	50 - 85
No. 30	18.8	61.0	25 - 60
No. 50	39.4	21.7	10 - 30
No. 100	19.6	2.1	2 - 10
No. 200	1.2	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	10.3		
		Total Percent Gravel	15.8

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	
7 - 10	3.7	0.0	0.6	3.1	23.6
10 - 15	20.7	2.5	7.1	11.1	27.9
15 - 20	16.4	0.0	3.7	12.8	24.0
20 - 25	12.5	0.0	4.7	7.8	27.2
25 - 30	15.5	1.3	4.6	9.6	24.8
30 - 35	3.4	0.0	1.3	2.0	23.3
35 - 40	1.0	0.0	0.0	1.0	22.8
40 - 45	0.1	0.0	0.0	0.1	20.8
45 - 50	31.9	4.9	4.3	22.7	27.1
50 - 55	34.0	11.5	5.6	16.9	36.0
55 - 60	27.2	2.6	6.6	18.0	23.2
60 - 65	18.5	0.8	2.4	15.3	23.8

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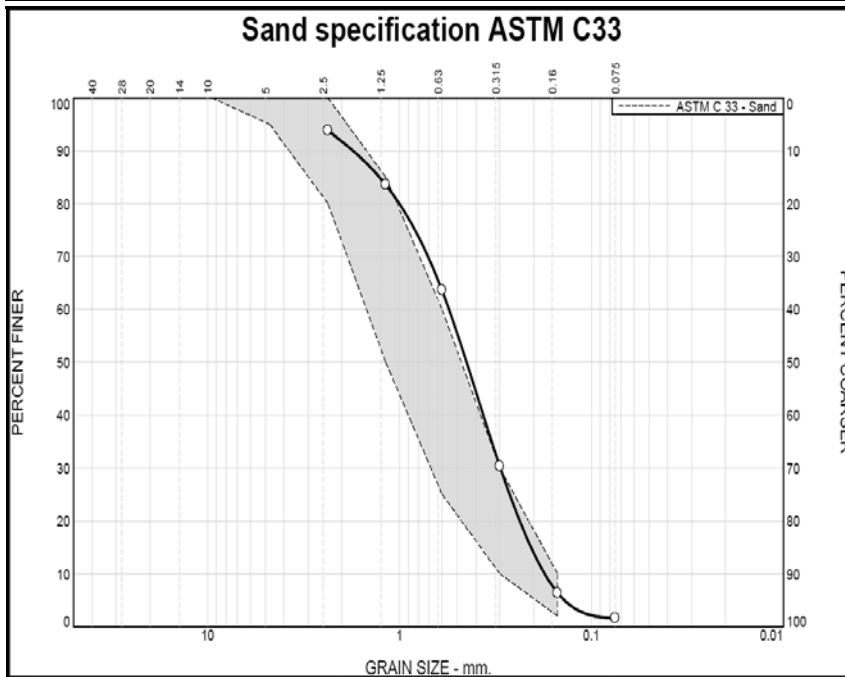
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. M1500

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 35 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	10.3	83.6	50 - 85
No. 30	20.0	63.6	25 - 60
No. 50	33.3	30.3	10 - 30
No. 100	24.0	6.3	2 - 10
No. 200	4.7	1.6	
Pan	1.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 35 feet

Percent Gravel + 1.5 inch	2.5		
Percent Gravel 1.5 to 0.75 inches	2.5		
Percent Gravel 0.75 inch to #4 sieve	9.6		
Total Percent Gravel		14.6	

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	17.1	3.6	4.1	9.4	35.6
10 - 15	21.3	2.3	3.5	15.5	32.1
15 - 20	6.0	0.0	0.5	5.5	16.0
20 - 25	15.1	2.0	2.8	10.4	27.2
25 - 30	17.7	4.8	1.7	11.3	28.1
30 - 35	10.2	2.3	2.7	5.3	23.2

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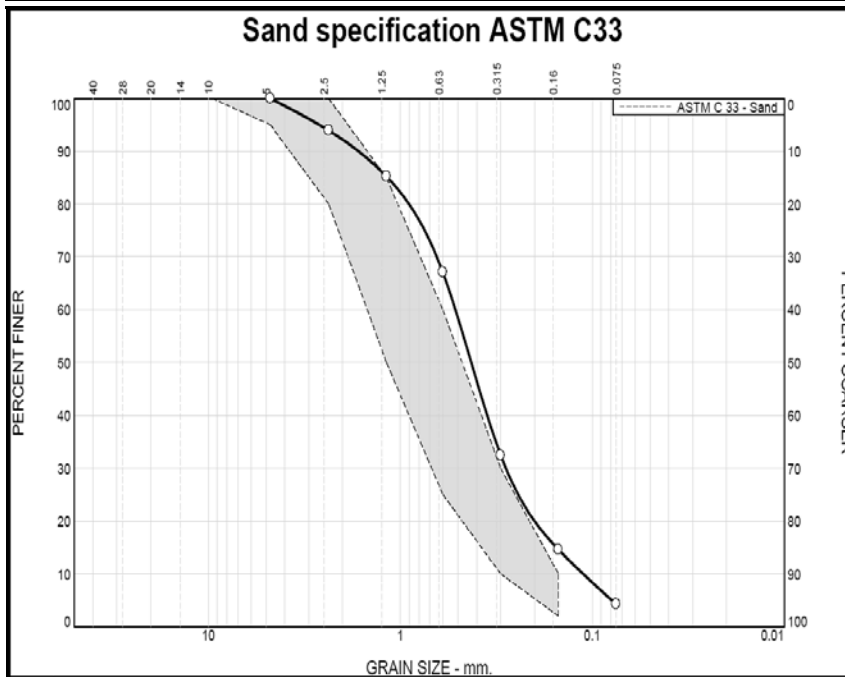
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. M1600

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.1	93.9	80 - 100
No. 16	8.7	85.2	50 - 85
No. 30	18.1	67.1	25 - 60
No. 50	34.7	32.4	10 - 30
No. 100	17.8	14.6	2 - 10
No. 200	10.4	4.2	
Pan	4.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 30 feet

Percent Gravel + 1.5 inch	1.1		
Percent Gravel 1.5 to 0.75 inches	1.3		
Percent Gravel 0.75 inch to #4 sieve	7.5		
Total Percent Gravel		10.0	

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	
5 - 10	12.2	0.0	1.3	10.9	39.3
10 - 15	13.8	4.5	3.1	6.2	27.1
15 - 25	3.6	0.0	0.0	3.6	24.0
25 - 30	10.3	0.0	0.9	9.4	25.9

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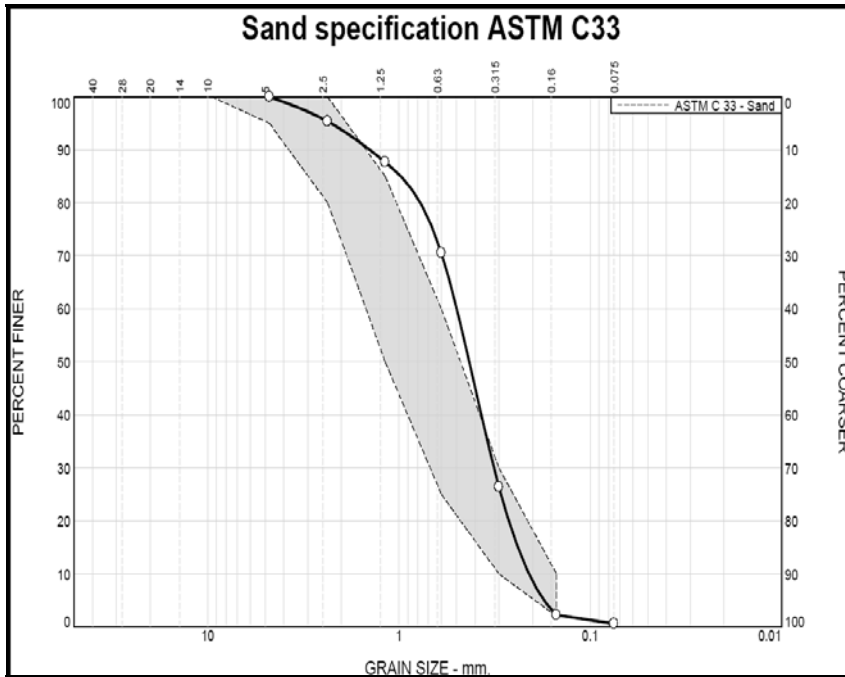
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.6	95.4	80 - 100
No. 16	7.7	87.7	50 - 85
No. 30	17.1	70.5	25 - 60
No. 50	44.2	26.4	10 - 30
No. 100	24.1	2.2	2 - 10
No. 200	1.7	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 45 feet

Percent Gravel + 1.5 inch	0.8		
Percent Gravel 1.5 to 0.75 inches	2.0		
Percent Gravel 0.75 inch to #4 sieve	5.3		
		Total Percent Gravel	8.1

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	
7 - 15	5.9	0.0	1.3	4.6	25.1
15 - 25	4.9	0.0	0.8	4.1	29.1
25 - 35	2.7	0.0	0.8	1.9	28.4
35 - 40	17.8	1.3	5.1	11.4	28.3
40 - 45	19.1	4.7	5.1	9.2	29.0

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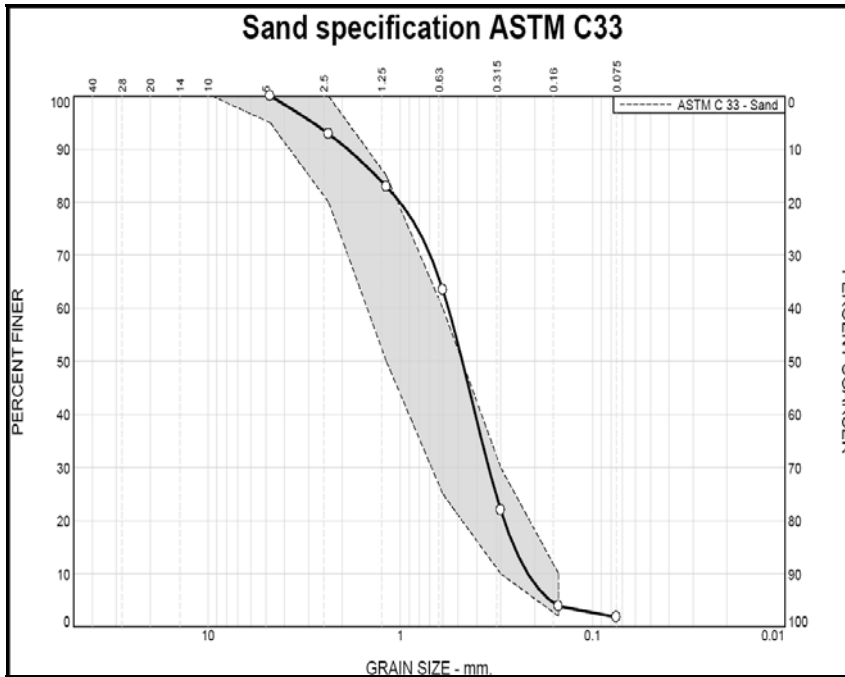
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Page 1 of 1

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	7.1	92.9	80 - 100
No. 16	10.0	82.9	50 - 85
No. 30	19.5	63.5	25 - 60
No. 50	41.5	22.0	10 - 30
No. 100	18.1	3.9	2 - 10
No. 200	2.0	1.8	
Pan	1.8		

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

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	2.6		
Percent Gravel 0.75 inch to #4 sieve	8.1		
Total Percent Gravel		12.7	

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	
7 - 15	6.0	0.0	1.7	4.3	23.2
15 - 25	12.0	1.8	1.8	8.5	27.8
25 - 35	3.8	0.0	0.5	3.3	27.2
35 - 45	8.6	3.0	2.7	2.9	28.6
45 - 50	17.1	2.3	3.5	11.3	27.7
50 - 55	26.0	3.5	3.7	18.7	35.5
55 - 60	27.1	4.5	6.5	16.1	36.3
60 - 65	18.8	2.9	3.8	12.1	26.5

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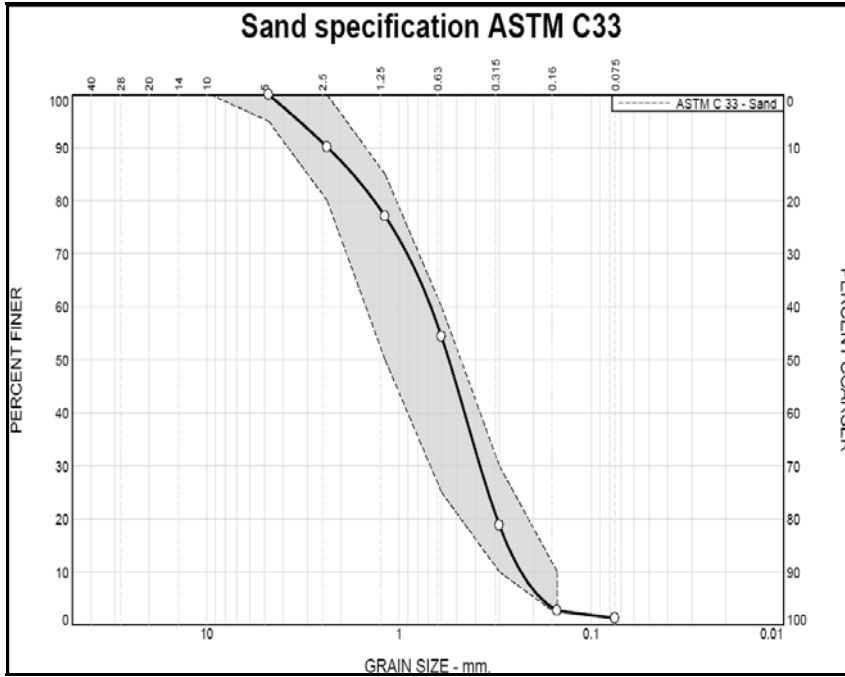
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. M2400

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 35 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	13.0	77.1	50 - 85
No. 30	22.7	54.4	25 - 60
No. 50	35.6	18.7	10 - 30
No. 100	16.1	2.6	2 - 10
No. 200	1.4	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 35 feet

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	6.1	Total Percent Gravel	25.6
Percent Gravel 0.75 inch to #4 sieve	16.7		

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	
2 - 10	28.0	4.0	6.8	17.2	53.0
10 - 15	44.4	1.2	12.1	31.0	36.8
15 - 20	38.1	5.8	6.6	25.7	38.9
20 - 25	17.3	0.0	4.6	12.7	27.2
25 - 30	9.8	1.1	2.3	6.3	29.5
30 - 35	14.3	3.8	3.4	7.1	28.0

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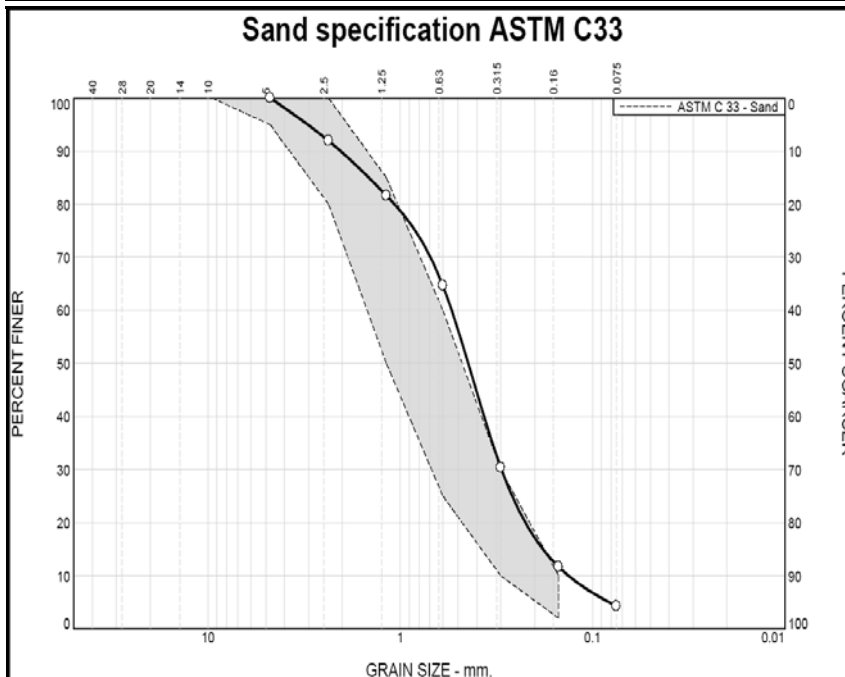
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HOLE NO. M2600

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.0	92.0	80 - 100
No. 16	10.3	81.6	50 - 85
No. 30	16.9	64.7	25 - 60
No. 50	34.3	30.4	10 - 30
No. 100	18.7	11.7	2 - 10
No. 200	7.4	4.3	
Pan	4.3		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 45 feet

Percent Gravel + 1.5 inch	4.9		
Percent Gravel 1.5 to 0.75 inches	5.7		
Percent Gravel 0.75 inch to #4 sieve	12.4		
Total Percent Gravel		23.0	

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 - 10	28.9	0.6	4.9	23.4	37.3
10 - 15	21.7	8.1	4.5	9.1	29.7
15 - 20	11.4	4.1	1.9	5.4	28.9
20 - 25	8.7	0.0	3.5	5.2	23.0
25 - 30	15.8	0.0	5.4	10.4	25.6
30 - 35	32.5	16.7	4.9	11.0	33.6
35 - 40	39.4	6.7	16.1	16.6	35.5
40 - 45	25.4	3.3	4.2	17.9	25.3

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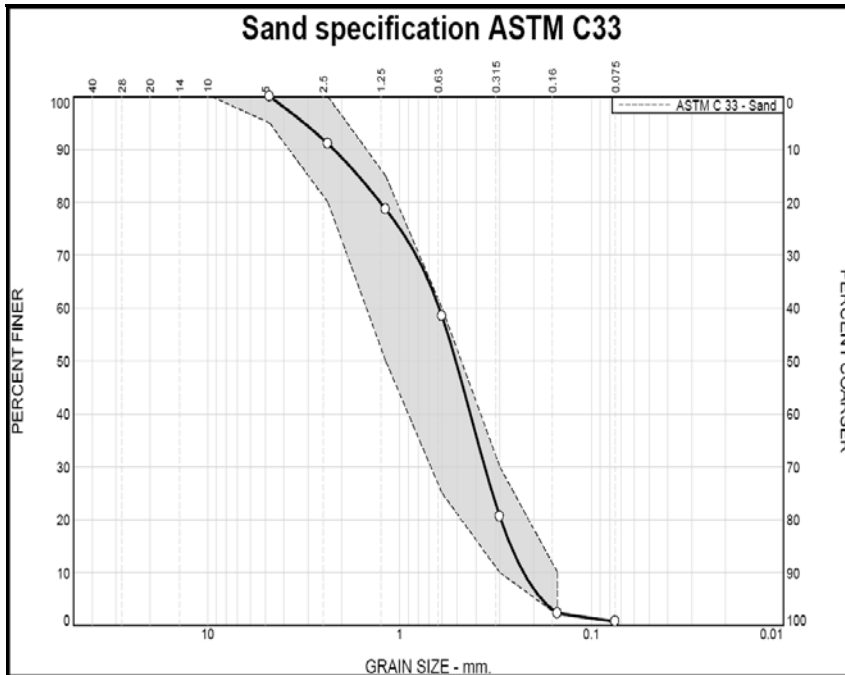
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 52 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	12.4	78.7	50 - 85
No. 30	20.2	58.5	25 - 60
No. 50	37.9	20.6	10 - 30
No. 100	18.3	2.3	2 - 10
No. 200	1.6	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 52 feet

Percent Gravel + 1.5 inch	3.7		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	11.0		
Total Percent Gravel		18.5	

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	15.0	0.0	3.8	11.2	39.8
10 - 15	10.1	0.0	3.3	6.9	30.8
15 - 20	5.3	0.0	1.6	3.7	24.4
20 - 25	15.9	5.3	2.8	7.9	25.5
25 - 30	17.8	5.8	6.4	5.5	32.2
30 - 35	30.4	12.4	6.4	11.6	32.7
35 - 40	26.5	3.0	7.0	16.6	33.4
40 - 45	25.2	3.2	3.1	18.9	22.8
45 - 52	21.1	4.3	1.7	15.1	28.1

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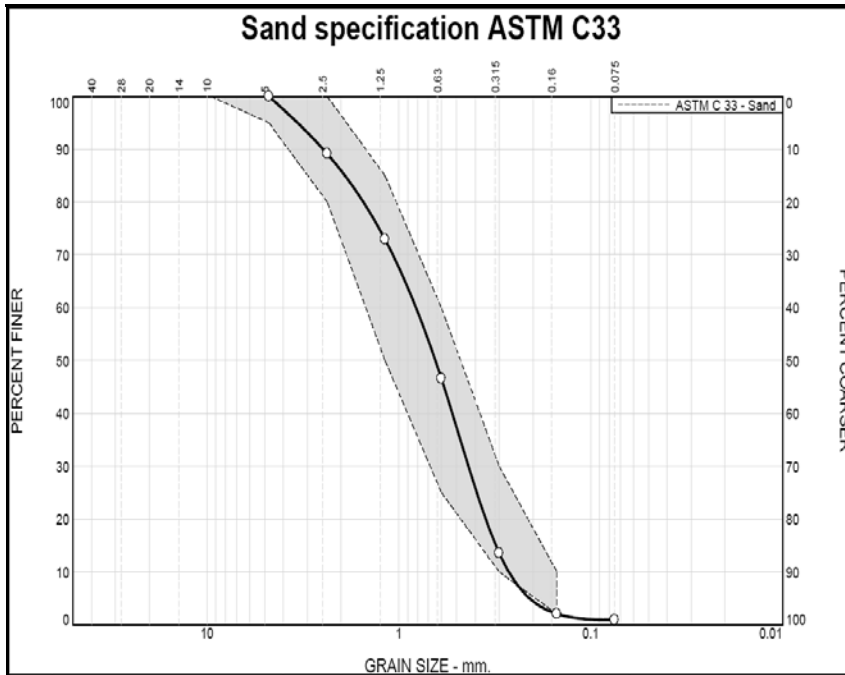
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 62 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.9	89.1	80 - 100
No. 16	16.2	73.0	50 - 85
No. 30	26.3	46.6	25 - 60
No. 50	33.1	13.5	10 - 30
No. 100	11.5	2.0	2 - 10
No. 200	1.2	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 62 feet

Percent Gravel + 1.5 inch	3.8		
Percent Gravel 1.5 to 0.75 inches	3.0		
Percent Gravel 0.75 inch to #4 sieve	11.1		
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	0.75 inch to #4	
3 - 10	10.4	0.5	2.7	7.1	38.9
10 - 15	10.4	1.4	4.4	4.7	26.7
15 - 20	10.3	0.0	3.7	6.6	28.9
20 - 25	23.0	14.7	1.6	6.7	27.1
25 - 30	22.3	9.3	3.9	9.1	33.7
30 - 35	23.9	10.4	3.7	9.8	29.1
35 - 40	18.2	5.8	5.3	7.0	29.0
40 - 45	18.2	0.0	3.1	15.1	20.2
45 - 50	29.6	0.0	1.1	28.4	24.0
50 - 55	17.8	0.0	2.3	15.5	20.6
55 - 60	16.5	1.8	1.8	12.8	27.4

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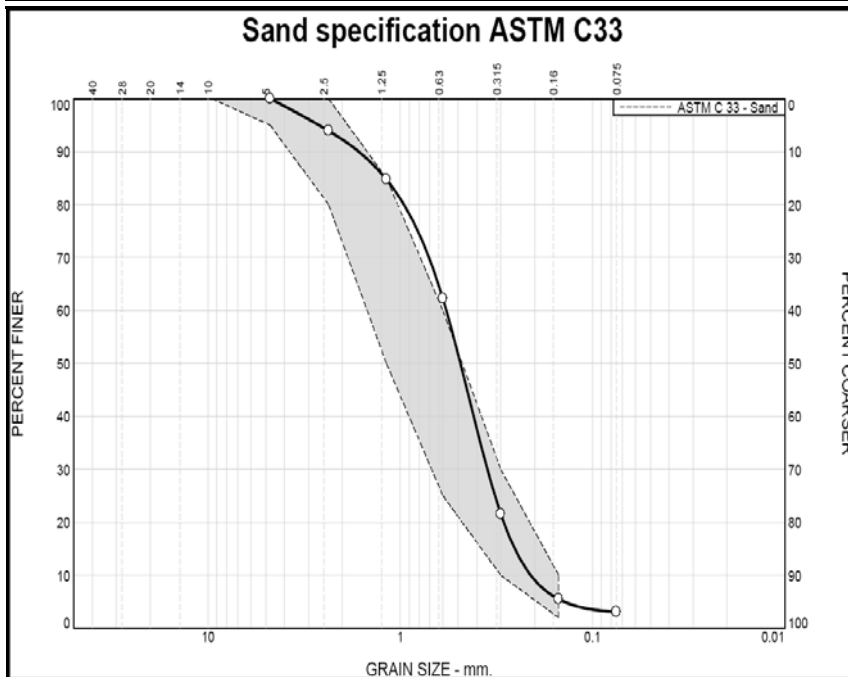
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HOLE NO. M3400

Page 1 of 1

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	6.1	93.9	80 - 100
No. 16	9.2	84.8	50 - 85
No. 30	22.5	62.3	25 - 60
No. 50	40.7	21.5	10 - 30
No. 100	16.1	5.5	2 - 10
No. 200	2.4	3.1	
Pan	3.1		

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

Percent Gravel + 1.5 inch	0.2		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	9.1		
Total Percent Gravel		13.0	

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	
5 - 15	6.6	0.0	1.3	5.3	26.4
15 - 25	4.8	0.0	0.5	4.3	23.0
25 - 30	22.4	0.0	5.2	17.2	33.8
30 - 35	18.9	0.0	7.0	11.9	21.9
35 - 40	26.7	1.6	9.8	15.2	22.8

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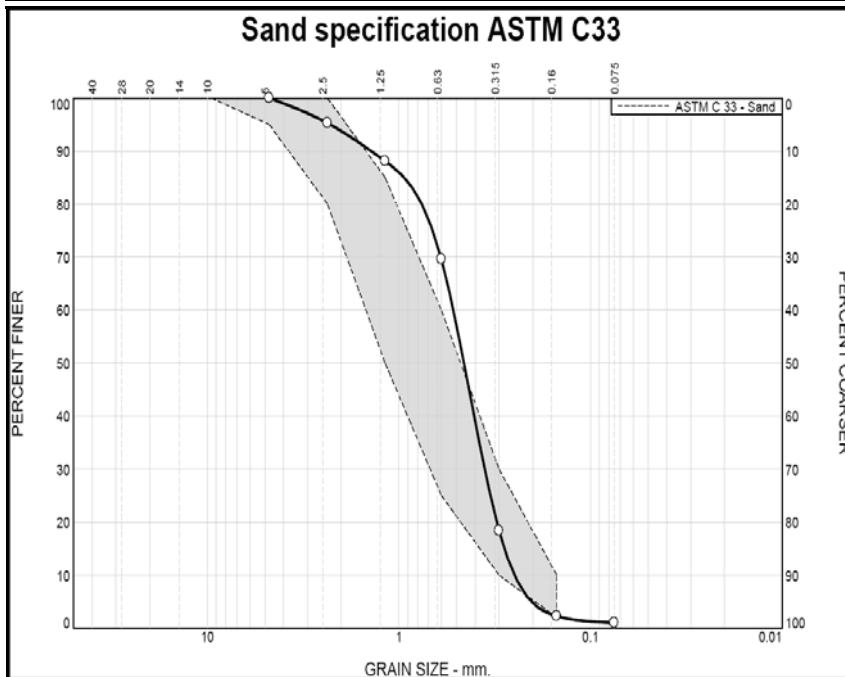
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HOLE NO. M3600

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.7	95.3	80 - 100
No. 16	7.2	88.1	50 - 85
No. 30	18.5	69.6	25 - 60
No. 50	51.2	18.4	10 - 30
No. 100	16.1	2.3	2 - 10
No. 200	1.2	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 25 feet

Percent Gravel + 1.5 inch	4.2		
Percent Gravel 1.5 to 0.75 inches	6.3		
Percent Gravel 0.75 inch to #4 sieve	7.1		
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	
3 - 10	13.4	0.0	5.2	8.1	21.8
10 - 20	8.8	0.9	3.4	4.6	26.4
20 - 25	41.0	17.0	13.5	10.5	34.9

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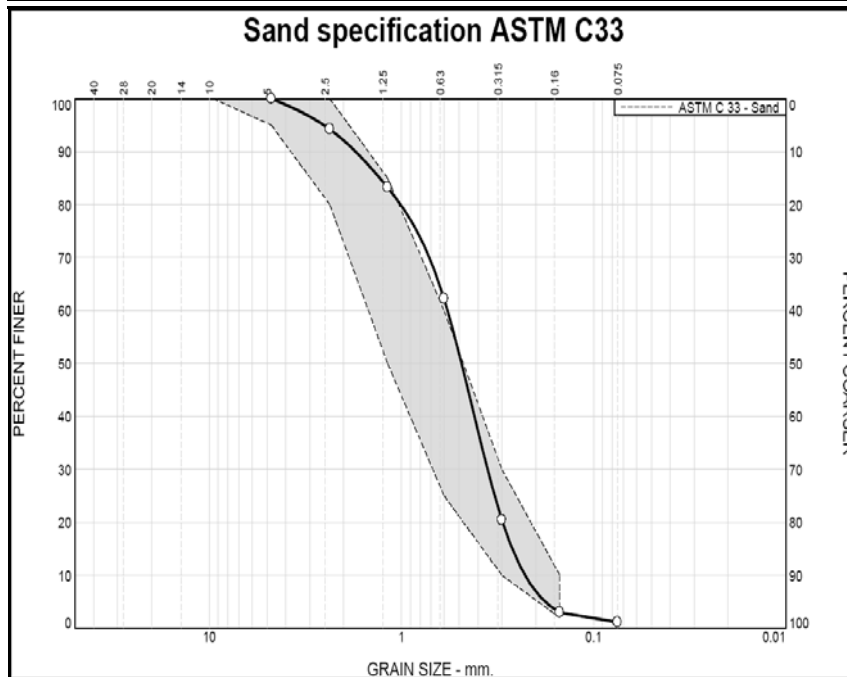
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HOLE NO. M3800

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 25 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	11.0	83.2	50 - 85
No. 30	21.0	62.2	25 - 60
No. 50	41.8	20.4	10 - 30
No. 100	17.4	3.0	2 - 10
No. 200	1.8	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 25 feet

Percent Gravel + 1.5 inch	1.8		
Percent Gravel 1.5 to 0.75 inches	2.5	Total Percent Gravel	11.8
Percent Gravel 0.75 inch to #4 sieve	7.5		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	Total	PERCENT GRAVEL			Sample Wt. (lbs.)
		+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	8.5	0.0	1.6	6.8	30.6
10 - 15	6.1	0.0	1.1	5.1	27.8
15 - 20	11.6	0.8	2.4	8.4	28.6
20 - 25	21.7	6.6	5.3	9.8	28.6

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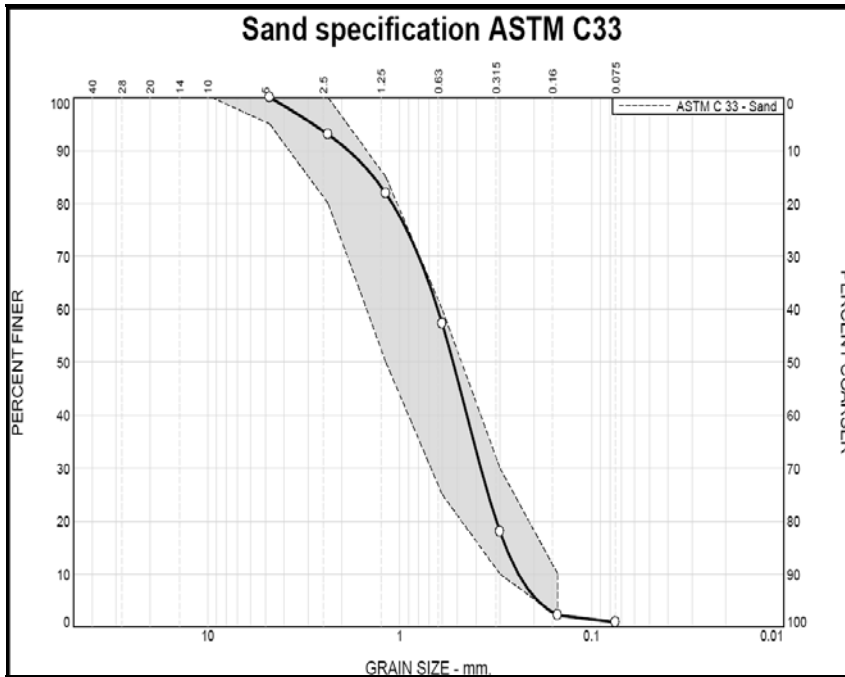
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 20 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.0	93.0	80 - 100
No. 16	11.1	81.9	50 - 85
No. 30	24.6	57.3	25 - 60
No. 50	39.3	18.0	10 - 30
No. 100	15.7	2.2	2 - 10
No. 200	1.3	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 20 feet

Percent Gravel + 1.5 inch	1.4		
Percent Gravel 1.5 to 0.75 inches	6.8		
Percent Gravel 0.75 inch to #4 sieve	11.6		
Total Percent Gravel		19.7	

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	
3.5 - 10	19.6	0.8	8.1	10.8	32.3
10 - 15	21.7	0.0	6.3	15.5	24.3
15 - 20	17.8	3.5	5.6	8.7	27.6

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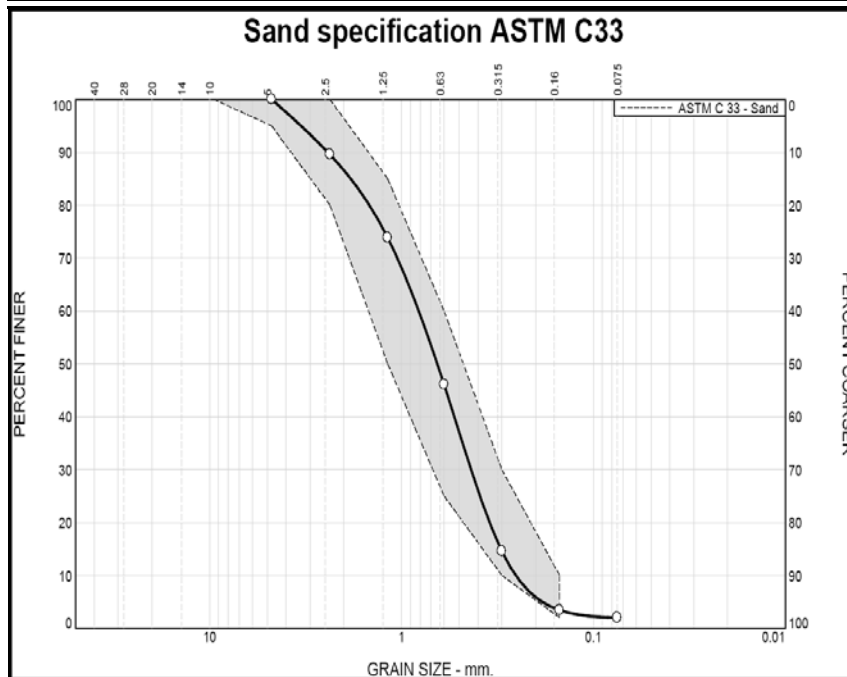
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.4	89.6	80 - 100
No. 16	15.7	73.8	50 - 85
No. 30	27.8	46.1	25 - 60
No. 50	31.5	14.6	10 - 30
No. 100	11.1	3.4	2 - 10
No. 200	1.4	2.0	
Pan	2.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 25 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	5.7	Total Percent Gravel	20.3
Percent Gravel 0.75 inch to #4 sieve	12.6		

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	
7 - 10	12.9	1.3	1.4	10.2	21.6
10 - 15	15.5	0.0	6.6	8.9	24.3
15 - 20	22.6	2.1	6.3	14.2	25.4
20 - 25	27.3	4.4	6.8	16.1	37.0

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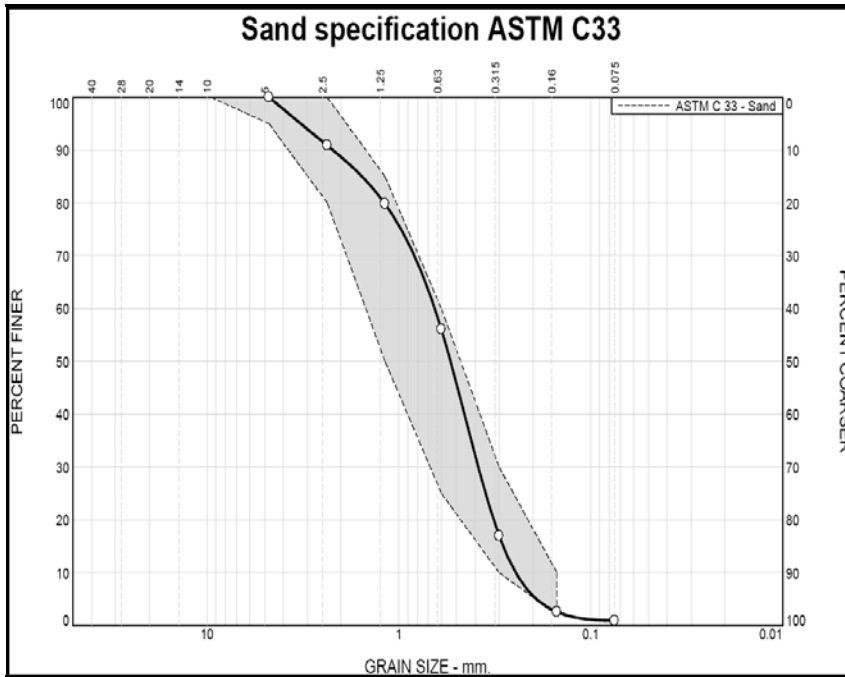
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.1	90.9	80 - 100
No. 16	11.0	79.8	50 - 85
No. 30	23.7	56.1	25 - 60
No. 50	39.1	17.0	10 - 30
No. 100	14.4	2.6	2 - 10
No. 200	1.7	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 30 feet

Percent Gravel + 1.5 inch	6.0		
Percent Gravel 1.5 to 0.75 inches	7.4	Total Percent Gravel	29.9
Percent Gravel 0.75 inch to #4 sieve	16.5		

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
3 - 5	28.6	1.3	11.0	16.3	16.2
5 - 10	18.8	4.7	4.4	9.7	22.1
10 - 15	23.5	3.7	6.8	13.1	27.7
15 - 20	36.9	5.7	11.8	19.4	27.7
20 - 25	25.8	4.3	6.6	14.9	27.3
25 - 32	40.5	11.4	6.4	22.7	42.0

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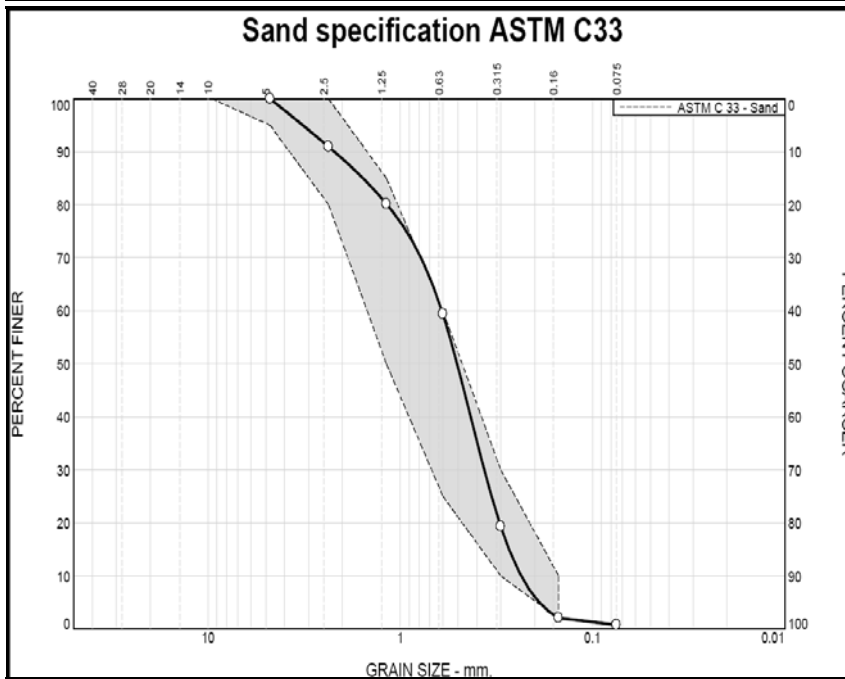
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 35 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	10.8	80.2	50 - 85
No. 30	20.8	59.4	25 - 60
No. 50	40.1	19.3	10 - 30
No. 100	17.2	2.0	2 - 10
No. 200	1.3	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 35 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	2.2	Total Percent Gravel	17.1
Percent Gravel 0.75 inch to #4 sieve	11.8		

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	
5 - 10	6.8	1.5	0.7	4.6	24.9
10 - 15	17.1	11.5	1.6	4.0	23.5
15 - 20	15.8	4.4	3.6	7.8	21.7
20 - 25	25.1	0.0	5.2	19.9	25.6
25 - 30	18.5	1.2	0.9	16.4	21.5
30 - 35	19.5	0.0	1.5	18.0	20.8

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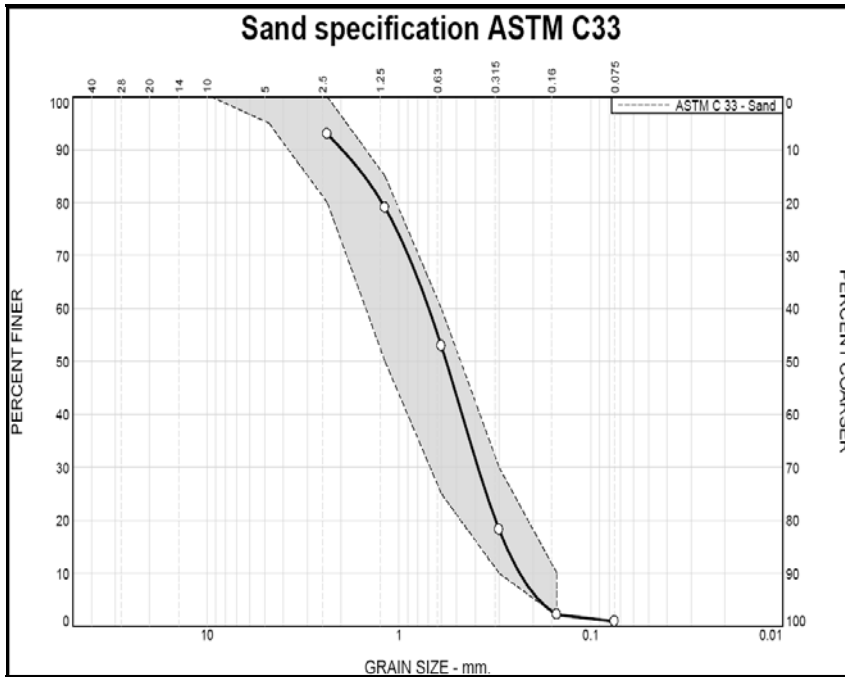
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM0800

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 27 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	13.9	79.0	50 - 85
No. 30	26.1	52.9	25 - 60
No. 50	34.7	18.2	10 - 30
No. 100	16.0	2.2	2 - 10
No. 200	1.3	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 27 feet

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	4.0	Total Percent Gravel	17.2
Percent Gravel 0.75 inch to #4 sieve	10.3		

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 - 15	10.6	1.3	2.6	6.7	34.0
15 - 20	14.4	2.7	3.0	8.7	26.2
20 - 27	30.6	5.6	7.2	17.8	46.6

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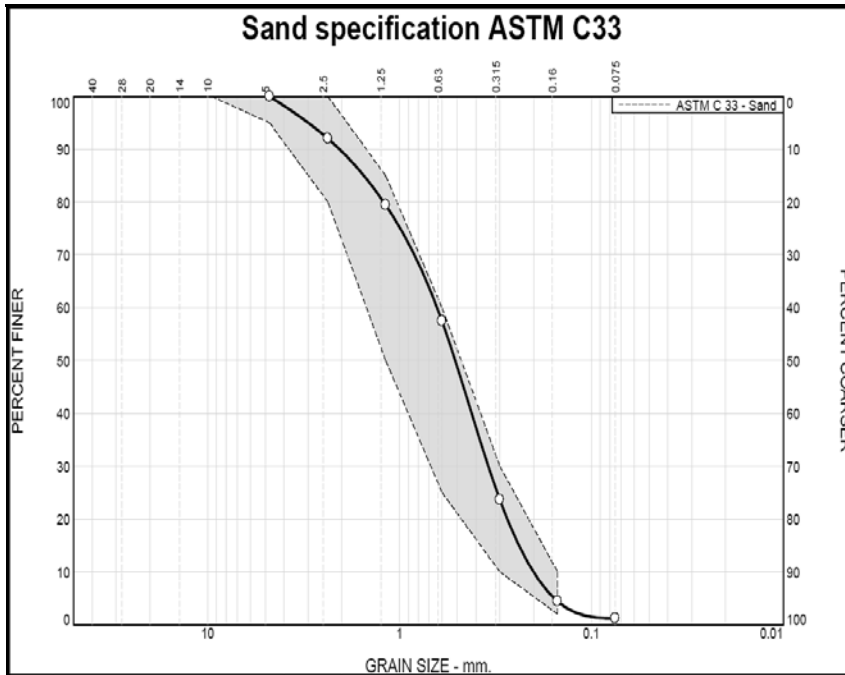
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM0900

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 23.5 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.0	92.0	80 - 100
No. 16	12.6	79.5	50 - 85
No. 30	22.0	57.5	25 - 60
No. 50	33.8	23.6	10 - 30
No. 100	19.3	4.4	2 - 10
No. 200	3.2	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 23.5 feet

Percent Gravel + 1.5 inch	5.3		
Percent Gravel 1.5 to 0.75 inches	2.8	Total Percent Gravel	15.6
Percent Gravel 0.75 inch to #4 sieve	7.5		

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	6.7	1.9	1.0	3.7	30.1
10 - 15	18.9	12.4	2.3	4.1	22.0
15 - 24	21.0	3.9	4.5	12.6	37.1

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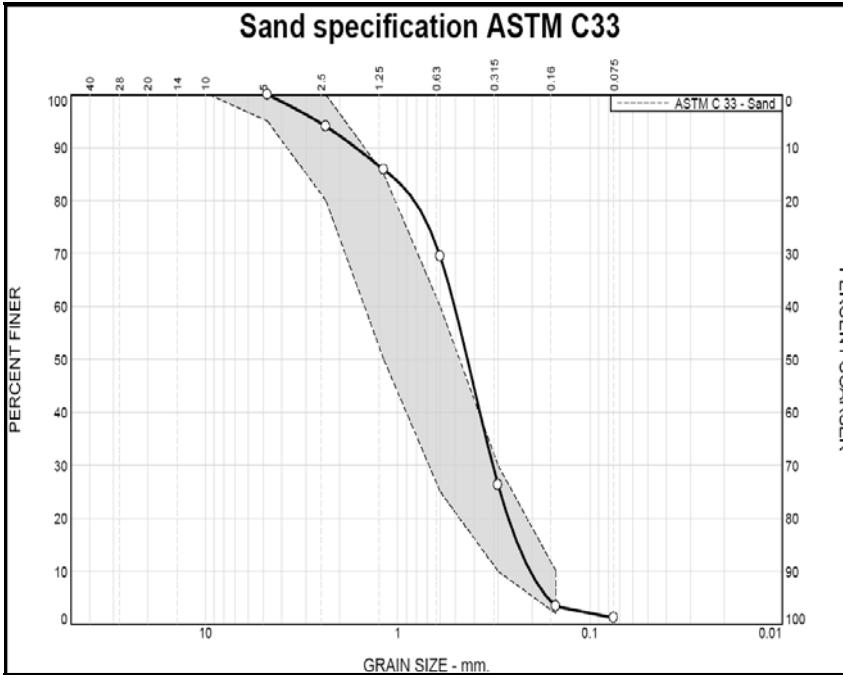
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM1100

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 30 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	8.2	85.9	50 - 85
No. 30	16.4	69.5	25 - 60
No. 50	43.2	26.3	10 - 30
No. 100	22.9	3.4	2 - 10
No. 200	2.2	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 30 feet

Percent Gravel + 1.5 inch	0.4		
Percent Gravel 1.5 to 0.75 inches	2.3	Total Percent Gravel	11.8
Percent Gravel 0.75 inch to #4 sieve	9.0		

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	
5 - 10	1.2	0.0	0.0	1.2	22.0
10 - 15	8.2	0.0	2.1	6.1	24.2
15 - 20	16.1	0.0	2.4	13.8	19.6
20 - 25	5.5	0.0	1.8	3.6	19.1
25 - 30	27.7	2.0	5.4	20.4	30.5

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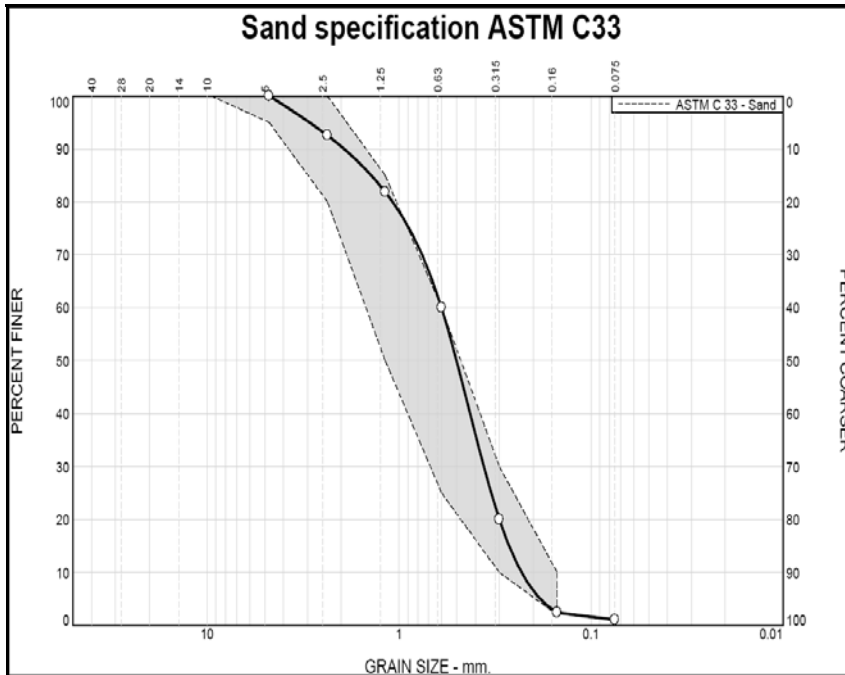
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM1300

Page 1 of 1

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	7.5	92.5	80 - 100
No. 16	10.7	81.9	50 - 85
No. 30	21.9	60.0	25 - 60
No. 50	40.0	20.0	10 - 30
No. 100	17.6	2.4	2 - 10
No. 200	1.4	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	11.2		
Total Percent Gravel		18.9	

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	7.9	0.8	1.6	5.4	28.6
10 - 15	7.3	0.0	1.1	6.2	20.9
15 - 20	16.0	3.9	4.9	7.2	29.0
20 - 25	9.8	1.6	2.8	5.4	22.8
25 - 30	30.4	2.1	6.3	21.9	25.1
30 - 35	32.1	3.0	8.9	20.2	30.0
35 - 40	21.3	0.0	7.4	13.9	19.6
40 - 45	28.7	12.0	6.3	10.5	25.3

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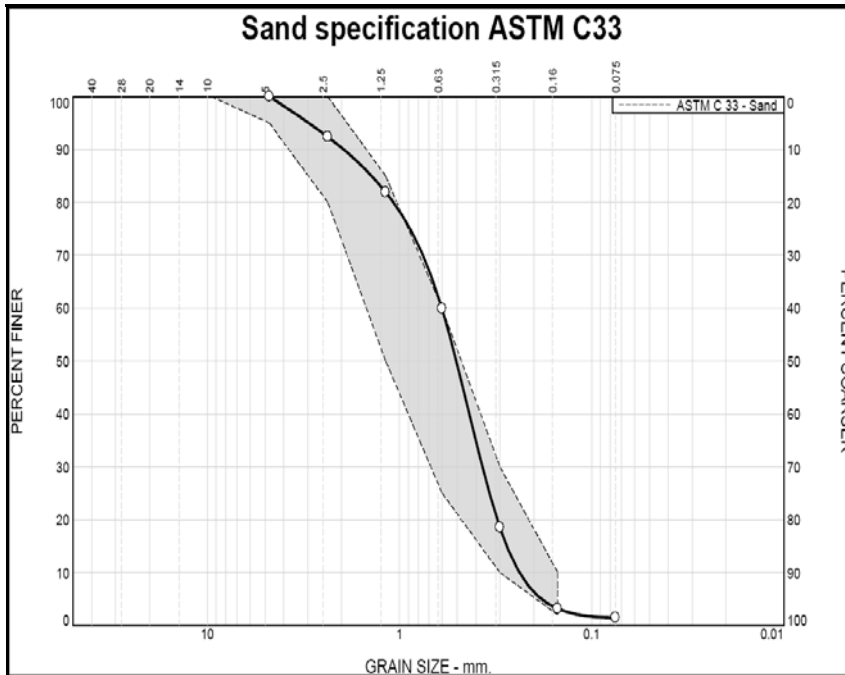
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HOLE NO. MM1500

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.6	92.4	80 - 100
No. 16	10.5	81.9	50 - 85
No. 30	22.0	59.9	25 - 60
No. 50	41.4	18.5	10 - 30
No. 100	15.3	3.2	2 - 10
No. 200	1.7	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 30 feet

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	5.6	Total Percent Gravel	21.1
Percent Gravel 0.75 inch to #4 sieve	11.6		

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	
5 - 10	9.6	0.0	3.3	6.3	22.3
10 - 15	6.7	0.0	1.1	5.5	21.3
15 - 20	21.3	5.9	7.4	8.0	17.7
20 - 25	36.1	6.8	7.4	21.9	28.1
25 - 30	31.6	6.9	8.6	16.1	33.0

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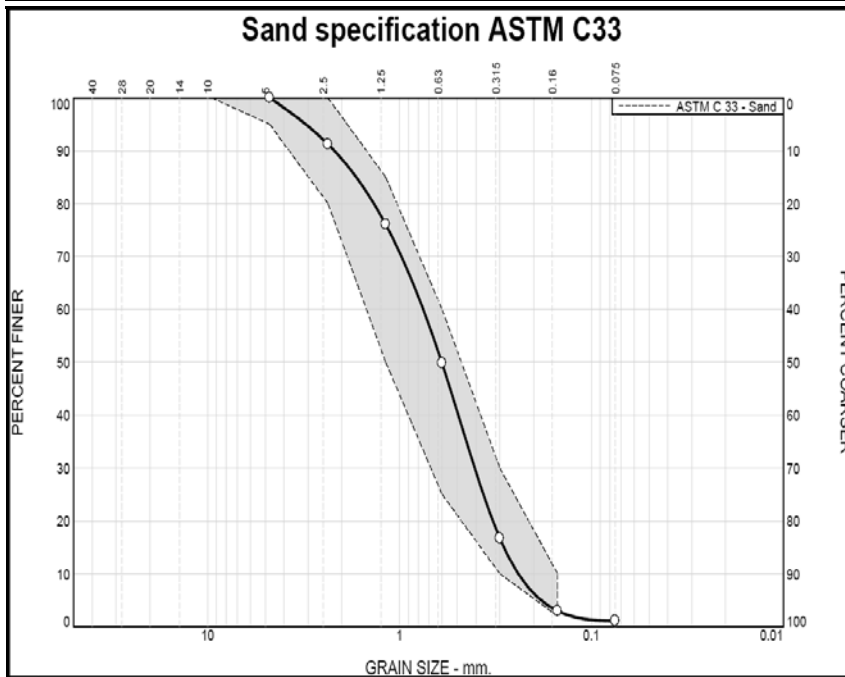
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HOLE NO. MM1700

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 55 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	15.2	76.1	50 - 85
No. 30	26.3	49.8	25 - 60
No. 50	33.1	16.7	10 - 30
No. 100	13.7	3.0	2 - 10
No. 200	1.9	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 55 feet

Percent Gravel + 1.5 inch	4.1		
Percent Gravel 1.5 to 0.75 inches	6.1		
Percent Gravel 0.75 inch to #4 sieve	13.9		
		Total Percent Gravel	24.1

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	
6 - 10	11.9	1.7	3.3	6.9	28.5
10 - 15	18.9	11.1	1.4	6.4	24.9
15 - 20	12.9	2.3	4.8	5.8	24.8
20 - 25	23.8	0.0	4.2	19.5	24.6
25 - 30	24.7	3.3	8.7	12.7	33.2
30 - 35	29.4	3.7	10.0	15.7	33.4
35 - 40	23.8	2.3	8.8	12.6	32.0
40 - 45	28.9	2.4	6.6	19.8	20.9
45 - 50	28.3	9.1	5.9	13.2	43.3
50 - 55	26.8	2.6	4.6	19.5	42.0

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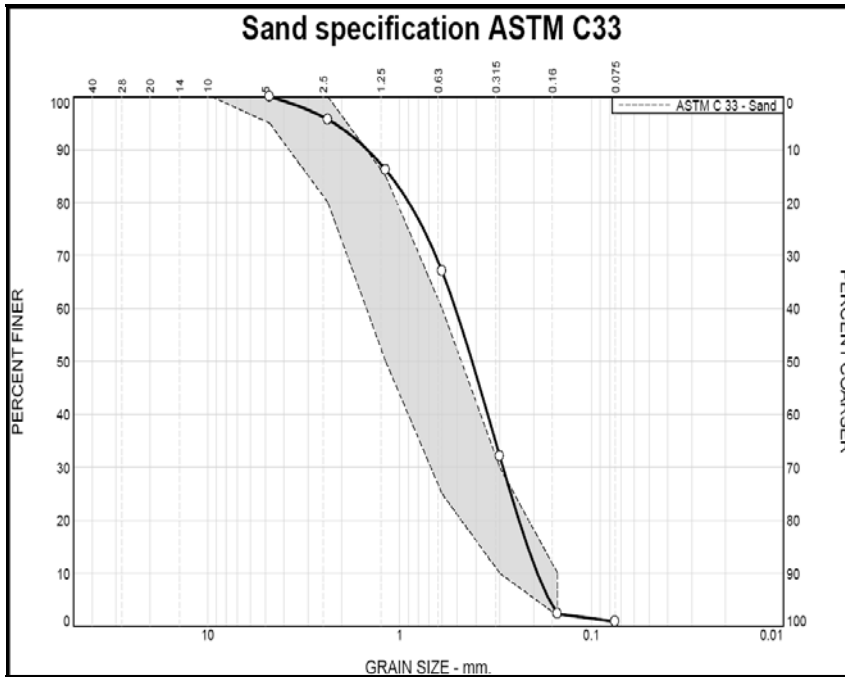
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Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 15 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.3	95.7	80 - 100
No. 16	9.5	86.2	50 - 85
No. 30	19.1	67.0	25 - 60
No. 50	35.0	32.1	10 - 30
No. 100	29.7	2.3	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 15 to 45 feet

Percent Gravel + 1.5 inch	9.0		
Percent Gravel 1.5 to 0.75 inches	2.6	Total Percent Gravel	18.1
Percent Gravel 0.75 inch to #4 sieve	6.5		

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	
15 - 25	28.0	11.5	5.9	10.6	55.1
25 - 35	14.6	11.9	0.4	2.3	35.0
35 - 45	11.8	3.5	1.6	6.7	43.9

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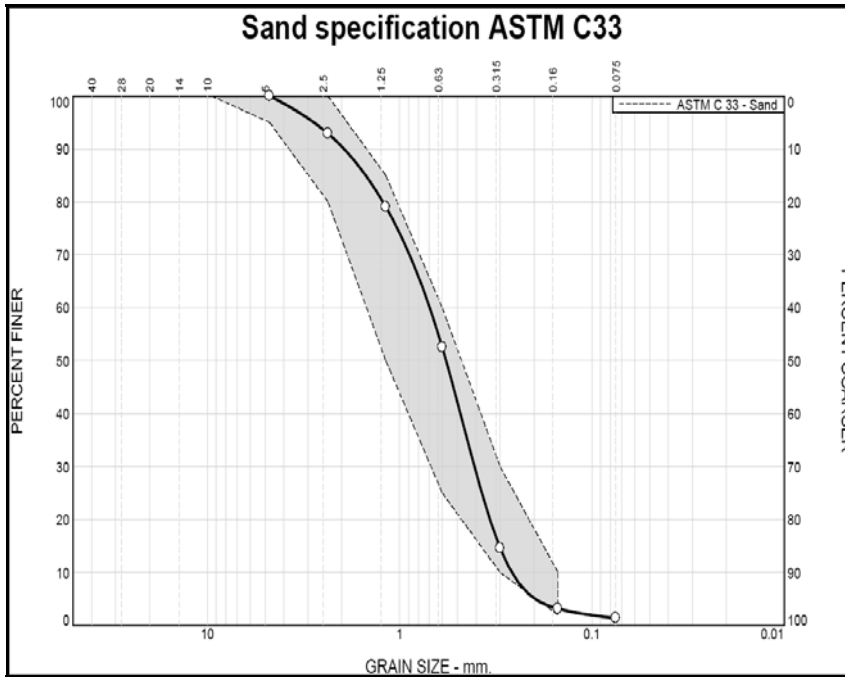
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HOLE NO. MM2100

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 45 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	13.9	79.1	50 - 85
No. 30	26.5	52.5	25 - 60
No. 50	38.0	14.6	10 - 30
No. 100	11.4	3.2	2 - 10
No. 200	1.8	1.4	
Pan	1.4		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 45 feet

Percent Gravel + 1.5 inch	1.9		
Percent Gravel 1.5 to 0.75 inches	2.9		
Percent Gravel 0.75 inch to #4 sieve	10.1		
Total Percent Gravel		14.9	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
7 - 10	16.6	2.5	4.8	19.2
10 - 15	19.0	3.3	2.8	32.8
15 - 20	24.2	2.9	6.0	34.3
20 - 25	12.0	1.6	3.0	22.3
25 - 30	9.8	0.0	2.7	31.2
30 - 35	10.2	0.7	2.0	28.0
35 - 45	14.0	2.2	1.4	22.5

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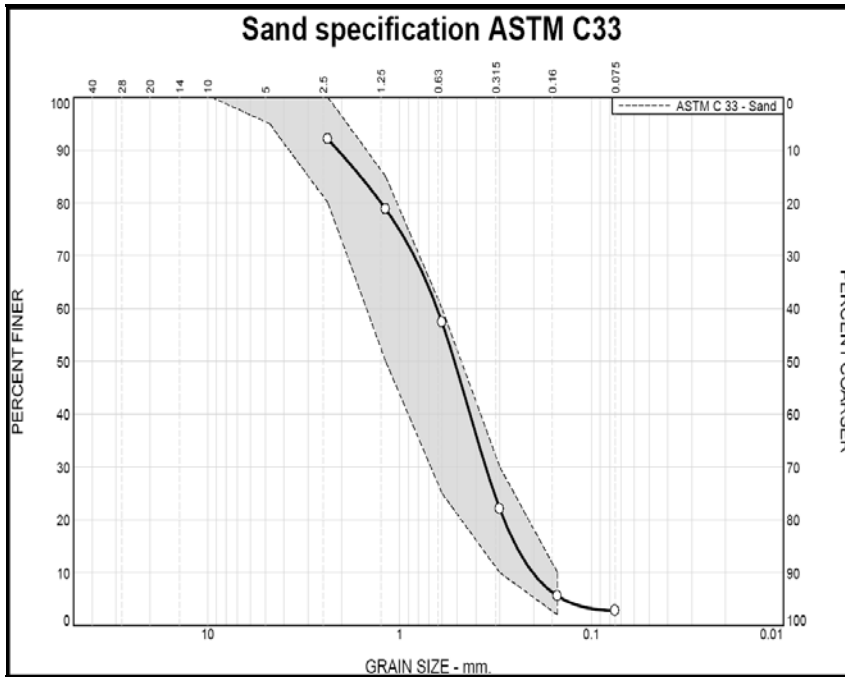
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HOLE NO. MM2120

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 100 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.9	92.1	80 - 100
No. 16	13.3	78.8	50 - 85
No. 30	21.4	57.4	25 - 60
No. 50	35.3	22.1	10 - 30
No. 100	16.5	5.5	2 - 10
No. 200	2.8	2.8	
Pan	2.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 100 feet

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	4.4		
Percent Gravel 0.75 inch to #4 sieve	10.8		
Total Percent Gravel		17.3	

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	
8 - 20	11.0	0.0	4.8	6.3	26.2
20 - 30	7.6	0.0	1.2	6.5	31.1
30 - 40	21.7	0.5	5.4	15.8	45.2
40 - 45	39.3	8.2	8.5	22.6	37.6
45 - 50	44.2	9.8	11.4	23.0	43.7
50 - 60	0.7	0.0	0.3	0.4	21.8
60 - 80	2.7	0.0	0.8	1.9	32.5
80 - 85	43.6	6.9	13.0	23.7	35.4
85 - 90	12.5	0.0	2.6	9.9	34.3
90 - 95	23.6	0.0	4.2	19.4	32.1
95 - 100	57.9	13.4	12.5	32.0	53.6

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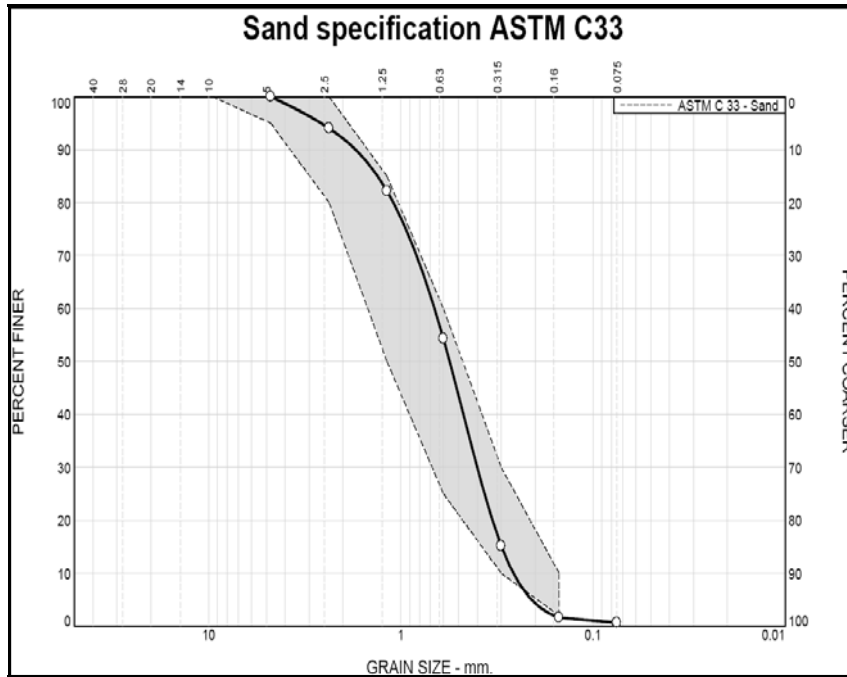
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Page 1 of 1

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	6.0	94.0	80 - 100
No. 16	11.8	82.2	50 - 85
No. 30	27.9	54.3	25 - 60
No. 50	39.2	15.2	10 - 30
No. 100	13.5	1.6	2 - 10
No. 200	1.0	0.6	
Pan	0.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 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	9.4		
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	
3 - 10	19.6	7.6	5.8	6.2	37.1
10 - 15	23.9	11.3	7.0	5.6	29.8
15 - 20	23.3	2.6	6.9	13.8	30.7
20 - 25	18.6	1.4	4.6	12.5	31.0
25 - 30	16.0	2.9	4.0	9.0	33.8
30 - 35	22.2	4.9	7.6	9.6	32.8
35 - 40	18.4	7.0	4.3	7.0	24.8
40 - 45	20.9	3.4	5.0	12.5	27.5
45 - 50	18.5	5.1	5.0	8.4	27.4
50 - 55	9.9	0.0	2.7	7.2	24.6
55 - 60	15.9	2.6	3.1	10.2	24.9
60 - 65	17.1	1.2	3.8	12.0	20.3

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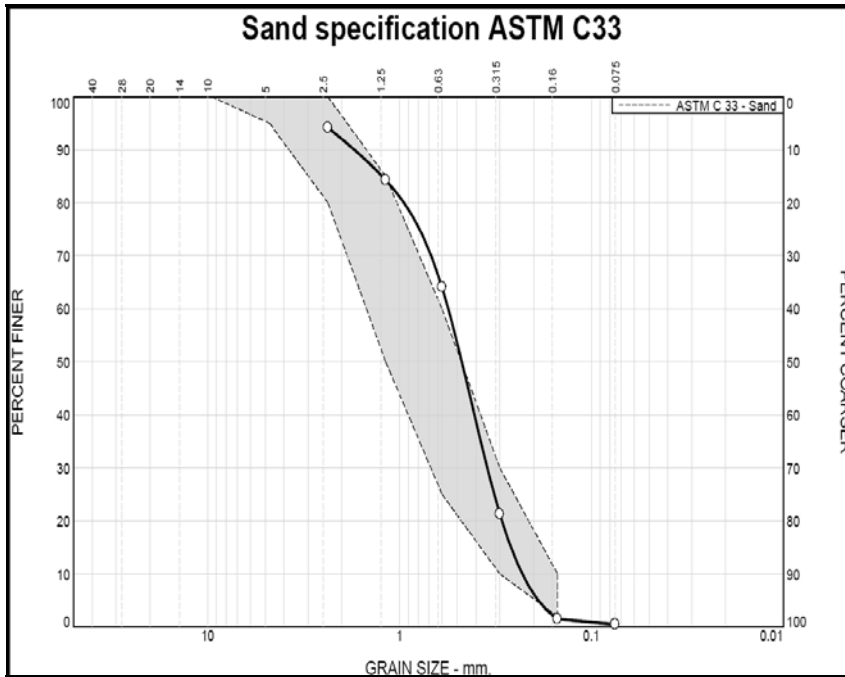
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LABORATORY TEST DATA SUMMARY SHEET

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Page 1 of 1

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	5.8	94.2	80 - 100
No. 16	9.9	84.3	50 - 85
No. 30	20.2	64.1	25 - 60
No. 50	42.8	21.3	10 - 30
No. 100	19.8	1.5	2 - 10
No. 200	1.0	0.5	
Pan	0.5		

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

Percent Gravel + 1.5 inch	5.2		
Percent Gravel 1.5 to 0.75 inches	5.7		
Percent Gravel 0.75 inch to #4 sieve	11.2		
Total Percent Gravel		22.0	

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 - 10	11.1	5.2	2.8	3.2	39.3
10 - 15	16.1	2.3	8.4	5.5	25.8
15 - 20	30.4	5.9	11.4	13.0	36.3
20 - 25	35.2	2.7	11.0	21.5	35.1
25 - 30	21.6	0.0	6.1	15.5	34.2
30 - 35	28.3	15.5	4.6	8.2	44.0
35 - 40	23.6	7.3	3.1	13.2	29.3
40 - 45	30.2	4.6	5.9	19.6	28.8
45 - 50	9.8	0.0	2.7	7.2	21.9
50 - 55	19.6	6.9	4.1	8.6	23.0
55 - 60	20.7	7.3	4.3	9.1	26.8
60 - 65	22.0	4.8	4.7	12.5	30.0

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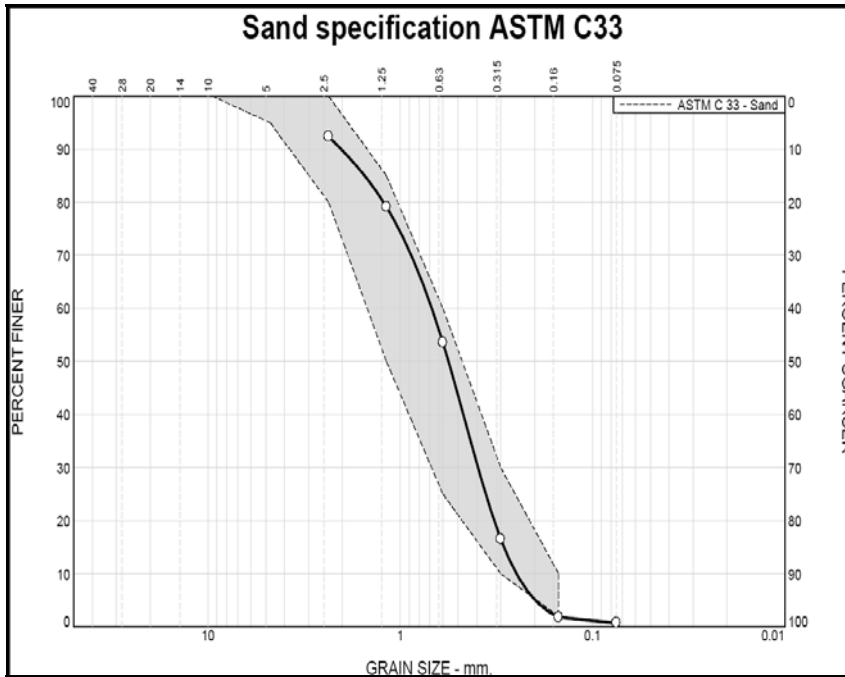
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HOLE NO. MM2700

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.6	92.4	80 - 100
No. 16	13.3	79.1	50 - 85
No. 30	25.6	53.6	25 - 60
No. 50	37.1	16.5	10 - 30
No. 100	14.7	1.8	2 - 10
No. 200	1.1	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 55 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	4.5		
Percent Gravel 0.75 inch to #4 sieve	11.1		
Total Percent Gravel		18.3	

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	
6 - 10	3.0	0.0	1.0	2.0	25.0
10 - 15	15.1	0.0	7.1	8.0	30.1
15 - 20	21.1	3.4	8.9	8.8	30.7
20 - 25	5.4	0.0	1.4	3.9	25.4
25 - 30	27.4	8.7	5.9	12.8	39.4
30 - 35	26.0	8.1	5.7	12.2	38.3
35 - 40	25.2	0.0	4.2	21.0	45.4
40 - 45	20.9	3.2	2.5	15.2	43.9
45 - 50	22.1	2.8	4.6	14.6	32.5
50 - 55	13.7	0.0	2.8	10.9	21.1

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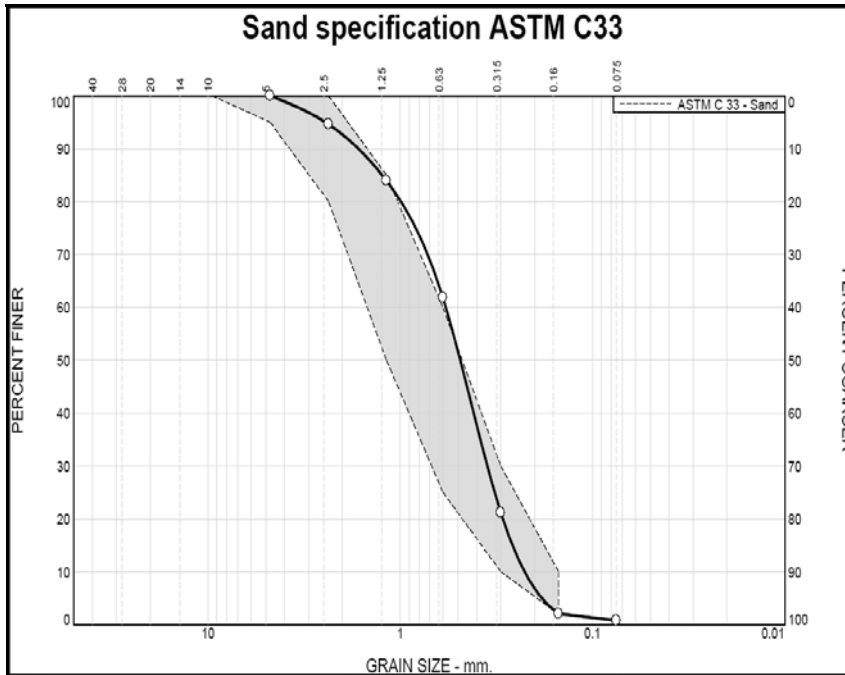
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM2900

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 57 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.4	94.6	80 - 100
No. 16	10.7	83.9	50 - 85
No. 30	22.1	61.8	25 - 60
No. 50	40.7	21.2	10 - 30
No. 100	19.1	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 57 feet

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	9.2		
Total Percent Gravel		16.8	

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	3.2	0.0	0.4	2.8	19.1
10 - 15	7.9	4.4	0.5	3.0	26.5
15 - 20	12.7	6.4	1.7	4.6	25.8
20 - 25	34.1	14.6	9.0	10.6	30.3
25 - 30	21.1	1.8	2.3	16.9	30.9
30 - 35	19.7	2.3	4.7	12.7	29.0
35 - 40	9.0	0.0	1.4	7.7	21.5
40 - 45	21.3	7.9	5.6	7.8	22.6
45 - 50	18.7	1.7	4.6	12.4	34.5
50 - 57	19.7	1.3	6.3	12.1	42.5

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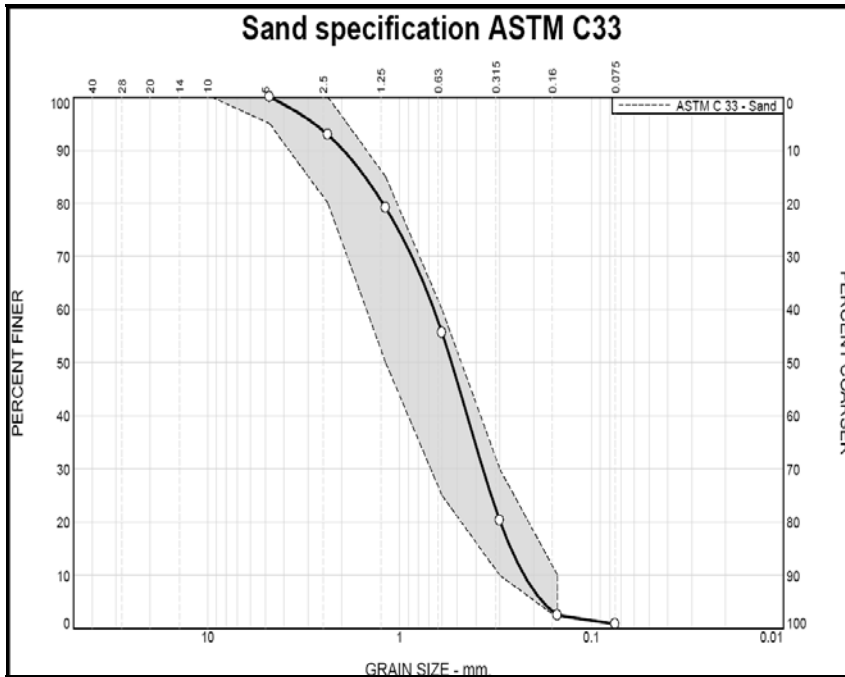
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM3100

Page 1 of 1

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	7.1	92.9	80 - 100
No. 16	13.8	79.1	50 - 85
No. 30	23.5	55.6	25 - 60
No. 50	35.4	20.3	10 - 30
No. 100	17.8	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	2.5		
Percent Gravel 1.5 to 0.75 inches	4.6		
Percent Gravel 0.75 inch to #4 sieve	12.1		
Total Percent Gravel		19.2	

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	
4 - 15	10.2	4.5	1.2	4.6	29.5
15 - 25	9.1	0.0	3.9	5.2	27.0
25 - 30	31.4	3.1	6.6	21.7	46.7
30 - 35	27.7	2.1	5.3	20.3	43.2
35 - 40	32.1	1.8	9.6	20.7	37.7
40 - 45	13.8	0.0	3.6	10.1	22.7
45 - 50	22.3	4.5	5.8	12.0	36.5
50 - 55	25.2	4.8	6.5	14.0	35.5
55 - 60	24.5	4.8	6.4	13.4	31.8
60 - 65	16.8	0.0	1.7	15.1	18.6

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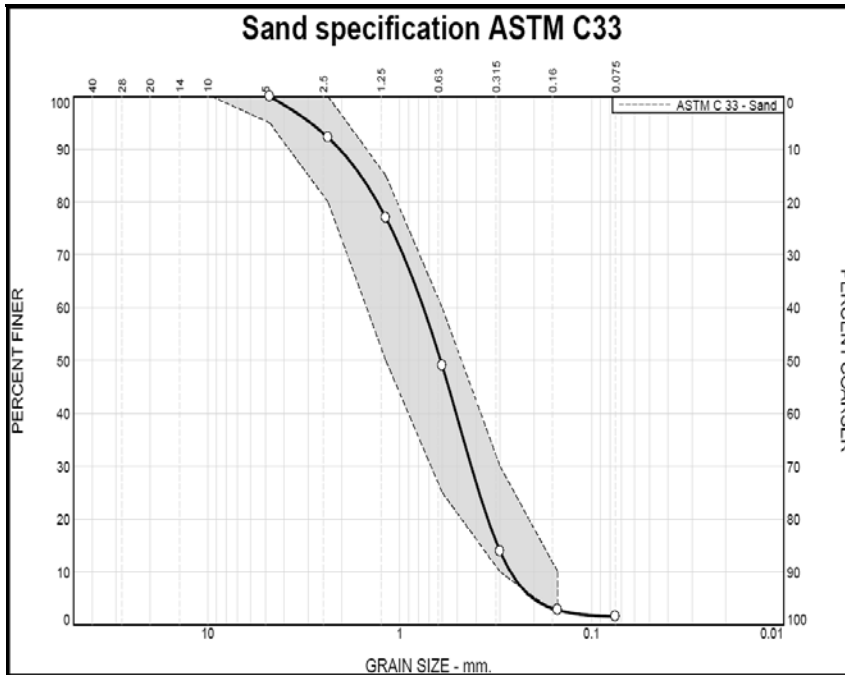
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM3300

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 53 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	15.2	77.1	50 - 85
No. 30	28.0	49.1	25 - 60
No. 50	35.2	13.9	10 - 30
No. 100	11.1	2.8	2 - 10
No. 200	1.2	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 53 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	5.8		
Percent Gravel 0.75 inch to #4 sieve	15.3		
		Total Percent Gravel	23.7

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	
5 - 10	18.7	7.4	4.1	7.2	25.7
10 - 15	22.4	4.6	7.0	10.8	34.7
15 - 20	33.3	2.8	12.0	18.5	36.2
20 - 25	25.3	0.0	6.5	18.8	25.6
25 - 30	13.8	0.7	2.0	11.1	34.2
30 - 35	15.0	0.8	5.7	8.6	33.1
35 - 40	32.7	6.5	7.8	18.3	39.2
40 - 45	26.3	1.8	8.0	16.5	35.6
45 - 53	25.2	0.0	1.9	23.2	51.3

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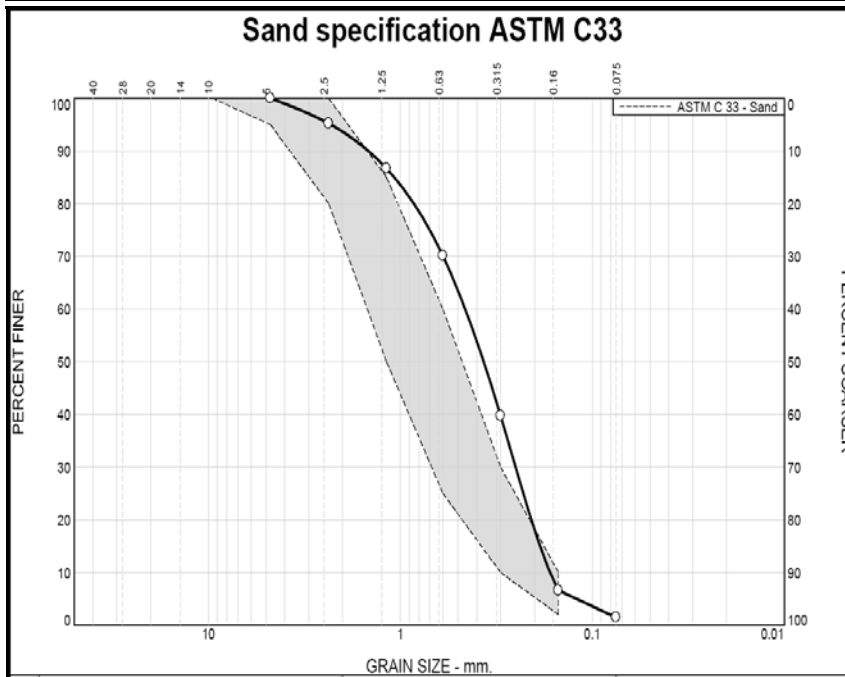
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. MM3500

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.8	95.2	80 - 100
No. 16	8.6	86.7	50 - 85
No. 30	16.6	70.1	25 - 60
No. 50	30.4	39.7	10 - 30
No. 100	33.1	6.6	2 - 10
No. 200	5.1	1.5	
Pan	1.5		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 45 feet

Percent Gravel + 1.5 inch	1.9		
Percent Gravel 1.5 to 0.75 inches	3.1		
Percent Gravel 0.75 inch to #4 sieve	8.0		
Total Percent Gravel		13.0	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
6 - 20	3.4	0.0	0.4	31.0
20 - 25	33.6	5.7	8.3	28.1
25 - 30	29.1	6.0	5.8	33.8
30 - 40	6.1	0.0	1.9	23.1
40 - 45	16.8	3.3	4.9	20.6

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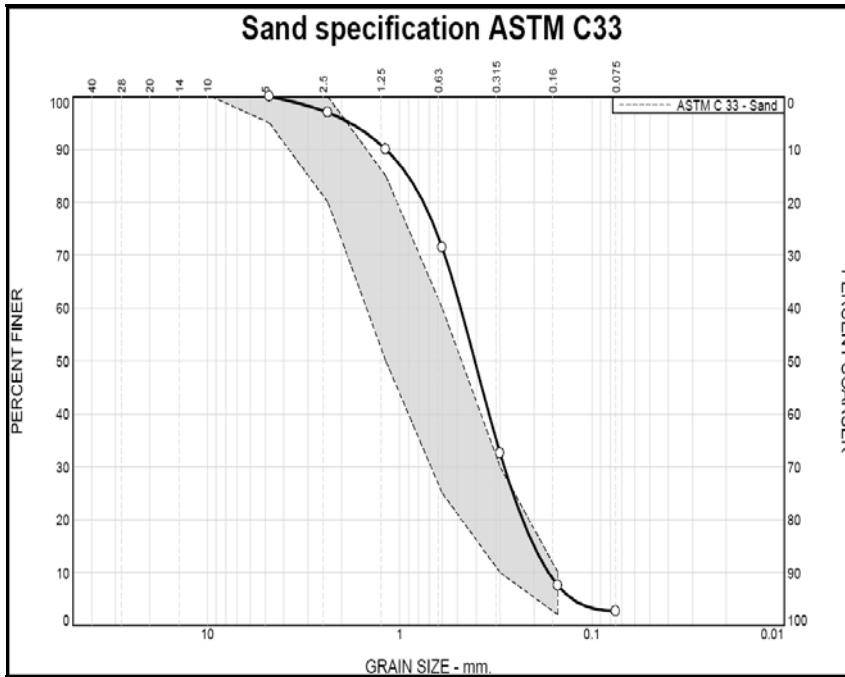
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HOLE NO. MM3700

Page 1 of 1

SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	3.0	97.0	80 - 100
No. 16	7.0	90.0	50 - 85
No. 30	18.6	71.4	25 - 60
No. 50	38.9	32.5	10 - 30
No. 100	25.0	7.5	2 - 10
No. 200	4.9	2.6	
Pan	2.6		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 25 feet

Percent Gravel + 1.5 inch	4.0		
Percent Gravel 1.5 to 0.75 inches	5.1	Total Percent Gravel	15.6
Percent Gravel 0.75 inch to #4 sieve	6.6		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	Total	PERCENT GRAVEL			Sample Wt. (lbs.)
		+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
2 - 15	4.4	0.0	1.7	2.7	37.7
15 - 20	27.0	5.7	10.5	10.9	32.2
20 - 25	33.4	12.6	8.4	12.4	35.3

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