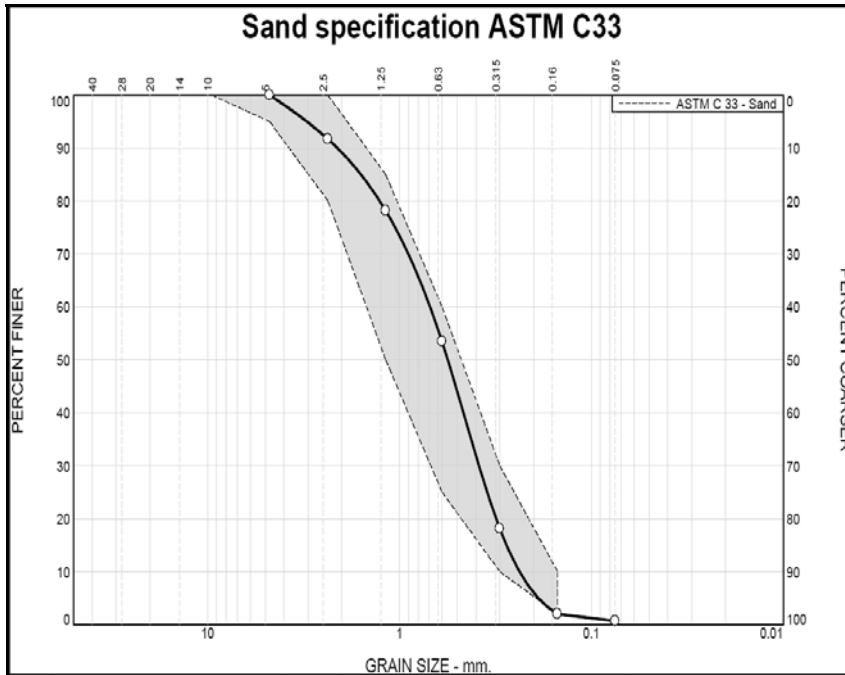


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HOLE NO. S0900

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 56.5 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	13.5	78.2	50 - 85
No. 30	24.7	53.4	25 - 60
No. 50	35.4	18.1	10 - 30
No. 100	16.1	2.0	2 - 10
No. 200	1.3	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 56.5 feet

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	11.5		
Total Percent Gravel		17.1	

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	
3 - 5	23.4	0.0	9.5	13.9	21.7
5 - 10	19.9	4.5	3.5	12.0	23.2
10 - 15	19.5	3.6	3.7	12.2	29.3
15 - 20	22.5	10.7	4.3	7.5	24.5
20 - 25	2.2	0.0	0.5	1.7	26.1
25 - 30	7.7	0.0	0.8	6.9	25.7
30 - 35	9.1	0.0	1.3	7.8	25.9
35 - 40	11.4	0.0	1.3	10.0	25.8
40 - 45	32.6	3.0	4.5	25.2	33.7
45 - 50	19.8	0.0	5.7	14.1	25.9
50 - 57	20.9	0.8	5.2	14.9	27.1

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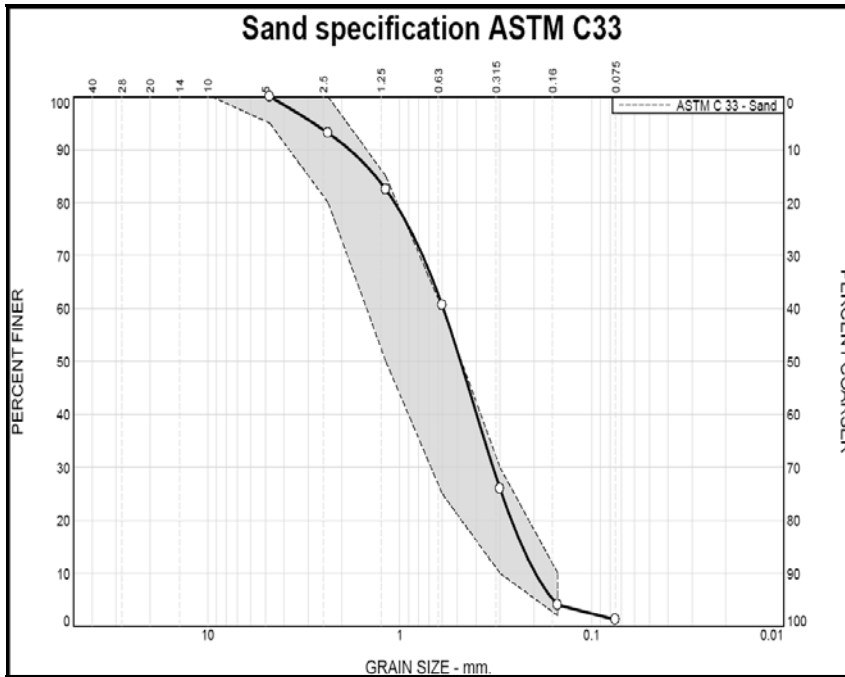
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.9	93.1	80 - 100
No. 16	10.7	82.5	50 - 85
No. 30	21.9	60.6	25 - 60
No. 50	34.7	26.0	10 - 30
No. 100	22.0	4.0	2 - 10
No. 200	2.8	1.2	
Pan	1.2		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 60 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	10.0		
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	7.0	0.0	1.1	5.9	38.3
10 - 15	29.1	1.4	6.5	21.1	36.3
15 - 20	21.4	4.2	7.4	9.8	32.1
20 - 25	11.0	5.5	1.4	4.2	25.5
25 - 30	14.5	0.0	4.4	10.2	27.8
30 - 35	13.4	1.3	2.7	9.4	23.7
35 - 40	17.6	0.0	5.2	12.4	26.6
40 - 45	14.1	2.9	2.4	8.8	21.9
45 - 50	17.1	4.2	4.1	8.8	40.7
50 - 55	19.1	9.7	2.7	6.7	27.6
55 - 60	18.9	0.0	5.0	13.9	34.0

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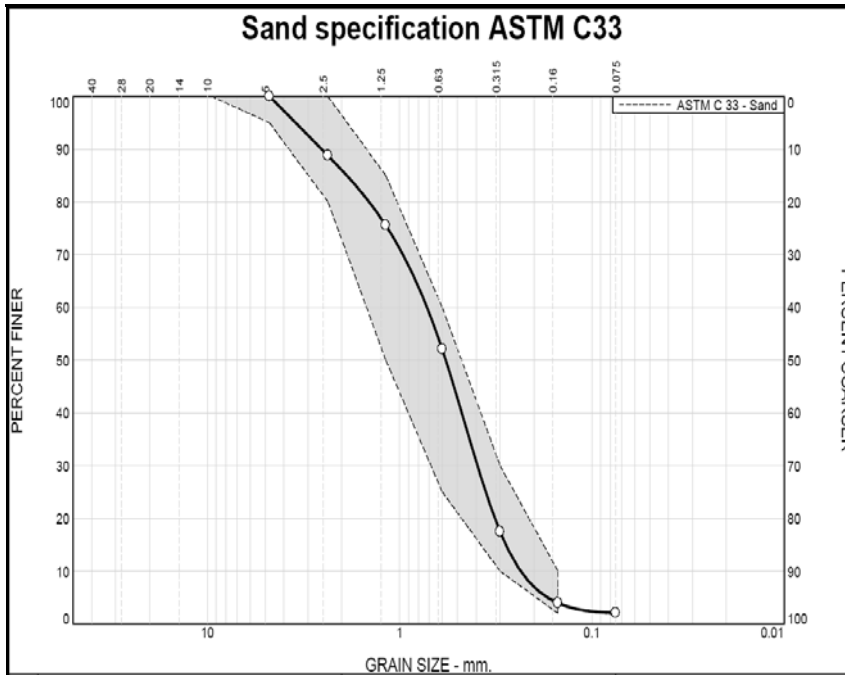
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.2	88.8	80 - 100
No. 16	13.2	75.5	50 - 85
No. 30	23.5	52.1	25 - 60
No. 50	34.6	17.5	10 - 30
No. 100	13.5	4.0	2 - 10
No. 200	1.9	2.1	
Pan	2.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 60 feet

Percent Gravel + 1.5 inch	3.4		
Percent Gravel 1.5 to 0.75 inches	6.1		
Percent Gravel 0.75 inch to #4 sieve	15.1		
Total Percent Gravel		24.6	

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	11.4	0.0	2.0	9.3	29.0
10 - 15	10.3	0.0	1.8	8.5	24.6
15 - 20	30.4	6.7	8.1	15.6	34.0
20 - 25	31.8	4.2	4.6	22.9	38.0
25 - 30	28.0	0.5	10.2	17.3	37.2
30 - 35	34.9	9.4	11.1	14.4	40.0
35 - 40	27.3	6.3	6.2	14.8	27.0
40 - 45	28.9	4.1	7.2	17.6	27.5
45 - 50	19.9	3.7	3.3	12.9	21.3
50 - 55	22.8	2.8	4.1	16.0	35.0
55 - 60	25.5	0.0	8.6	16.9	32.0

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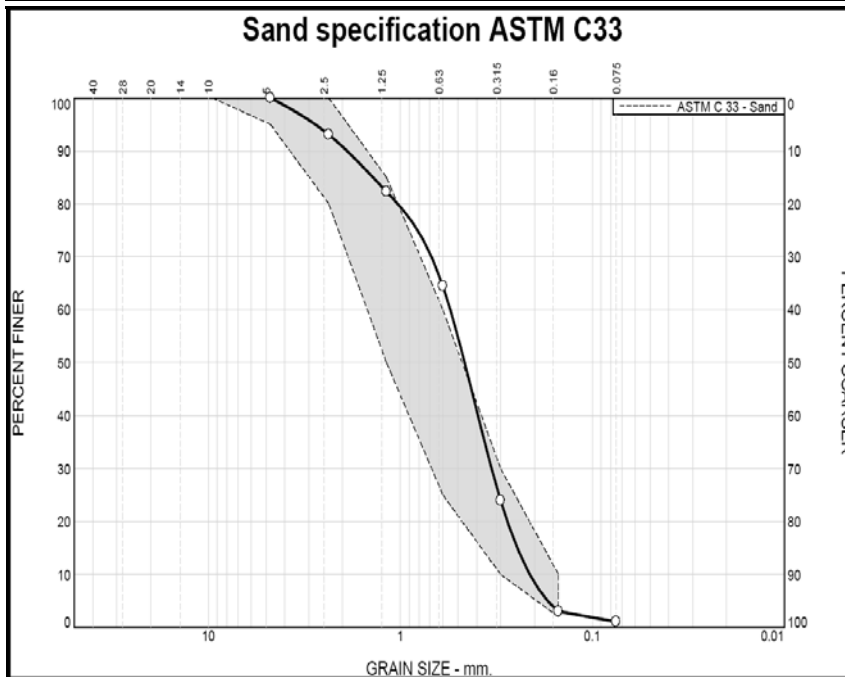
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.9	93.1	80 - 100
No. 16	10.8	82.3	50 - 85
No. 30	17.8	64.5	25 - 60
No. 50	40.5	23.9	10 - 30
No. 100	20.9	3.0	2 - 10
No. 200	2.0	1.1	
Pan	1.1		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 25 feet

Percent Gravel + 1.5 inch	4.0	
Percent Gravel 1.5 to 0.75 inches	4.6	Total Percent Gravel 18.2
Percent Gravel 0.75 inch to #4 sieve	9.6	

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	
6 - 10	14.7	1.5	5.3	8.0	23.9
10 - 15	21.7	7.4	5.2	9.1	32.2
15 - 20	14.1	2.8	3.2	8.1	30.0
20 - 25	21.6	4.0	4.9	12.7	32.5

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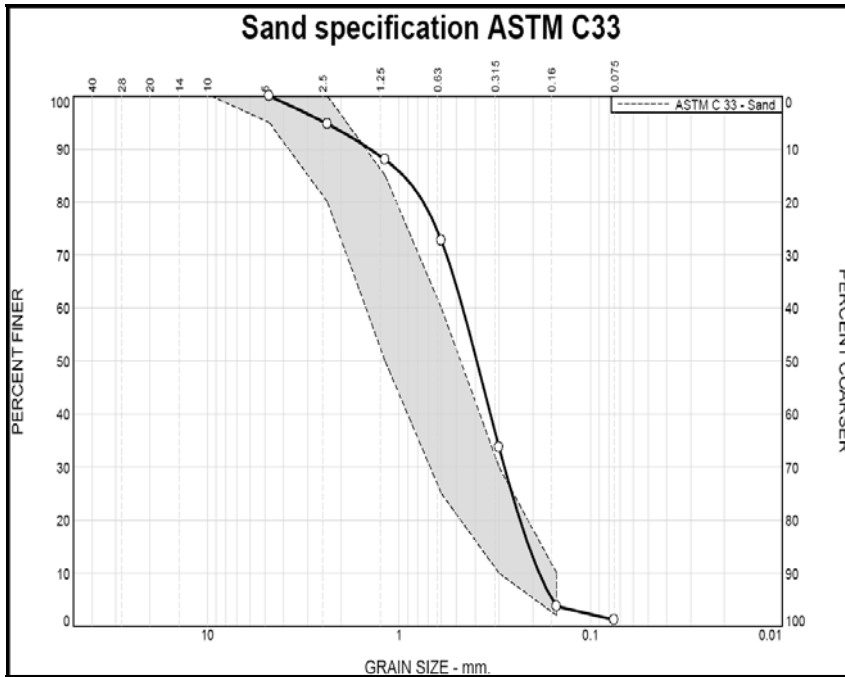
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.3	94.7	80 - 100
No. 16	6.8	88.0	50 - 85
No. 30	15.2	72.8	25 - 60
No. 50	39.0	33.7	10 - 30
No. 100	30.0	3.7	2 - 10
No. 200	2.6	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	5.9		
Percent Gravel 1.5 to 0.75 inches	4.6	Total Percent Gravel	17.4
Percent Gravel 0.75 inch to #4 sieve	6.9		

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	
3 - 10	17.6	5.3	6.3	6.0	21.4
10 - 20	7.4	0.0	3.6	3.7	27.2
20 - 25	37.3	18.4	4.4	14.5	29.6

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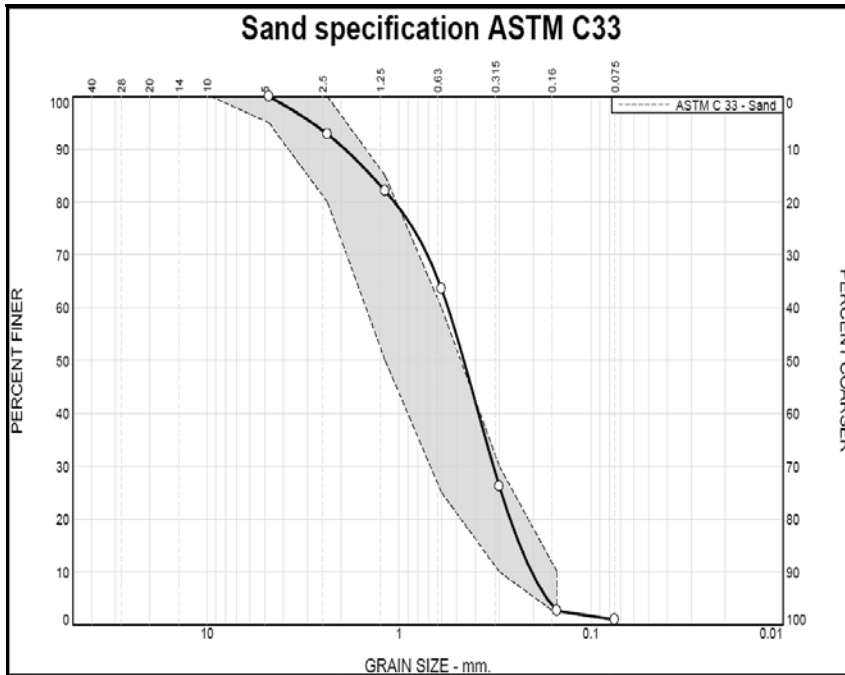
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.1	92.9	80 - 100
No. 16	10.8	82.1	50 - 85
No. 30	18.5	63.6	25 - 60
No. 50	37.4	26.2	10 - 30
No. 100	23.6	2.6	2 - 10
No. 200	1.7	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	1.7		
Percent Gravel 1.5 to 0.75 inches	4.6	Total Percent Gravel	13.7
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	14.5	2.8	4.6	7.0	40.6
10 - 15	16.2	2.2	5.2	8.8	28.3
15 - 20	12.6	1.2	3.5	7.9	25.6
20 - 25	11.3	0.0	5.0	6.3	20.0

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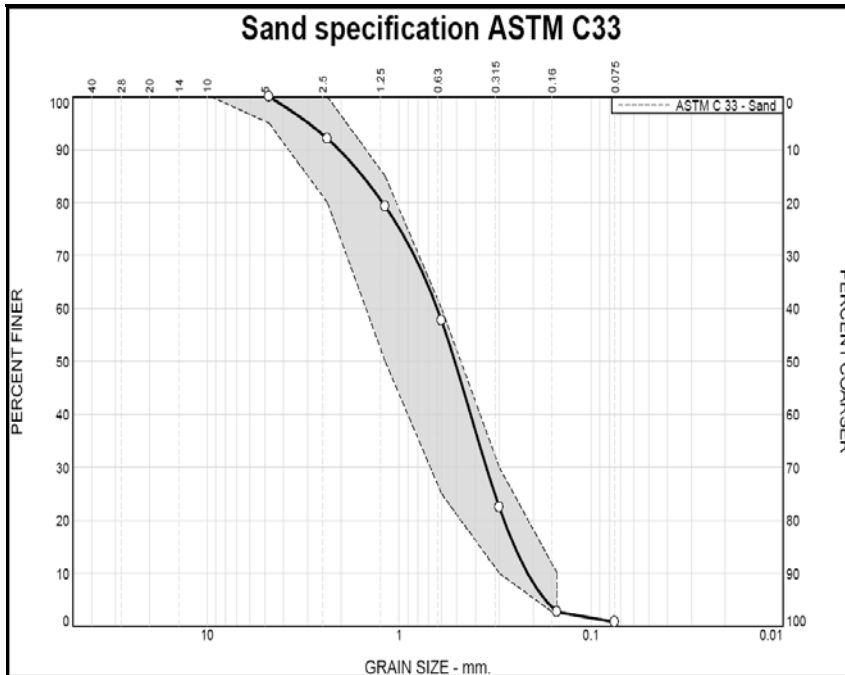
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.9	92.1	80 - 100
No. 16	12.8	79.3	50 - 85
No. 30	21.6	57.7	25 - 60
No. 50	35.3	22.4	10 - 30
No. 100	19.7	2.7	2 - 10
No. 200	1.9	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 30 feet

Percent Gravel + 1.5 inch	1.2		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	8.9		
Total Percent Gravel		14.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
2 - 10	9.1	0.5	2.4	32.9
10 - 15	12.5	5.1	1.7	26.4
15 - 20	21.4	0.0	8.1	34.0
20 - 25	18.4	0.0	4.8	30.8
25 - 30	11.8	1.1	3.2	29.6

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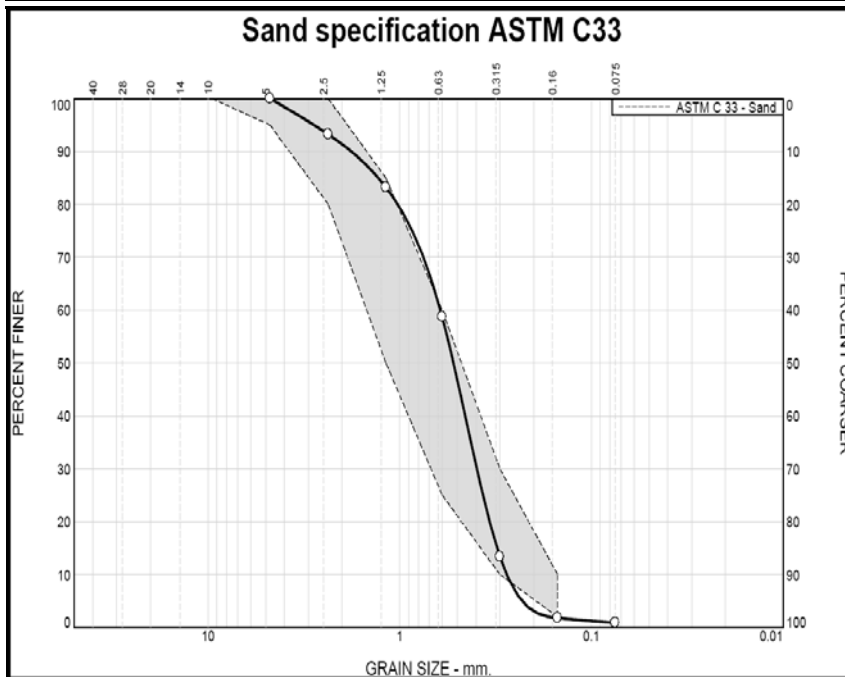
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 25 feet



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	24.5	58.7	25 - 60
No. 50	45.4	13.4	10 - 30
No. 100	11.6	1.8	2 - 10
No. 200	0.9	0.9	
Pan	0.9		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 25 feet

Percent Gravel + 1.5 inch	1.2	
Percent Gravel 1.5 to 0.75 inches	3.0	Total Percent Gravel 13.0
Percent Gravel 0.75 inch to #4 sieve	8.8	

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	
5 - 10	14.9	0.8	3.7	10.4	24.4
10 - 15	13.6	4.0	3.3	6.3	30.0
15 - 20	9.0	0.0	2.7	6.2	19.7
20 - 25	14.4	0.0	2.1	12.3	18.7

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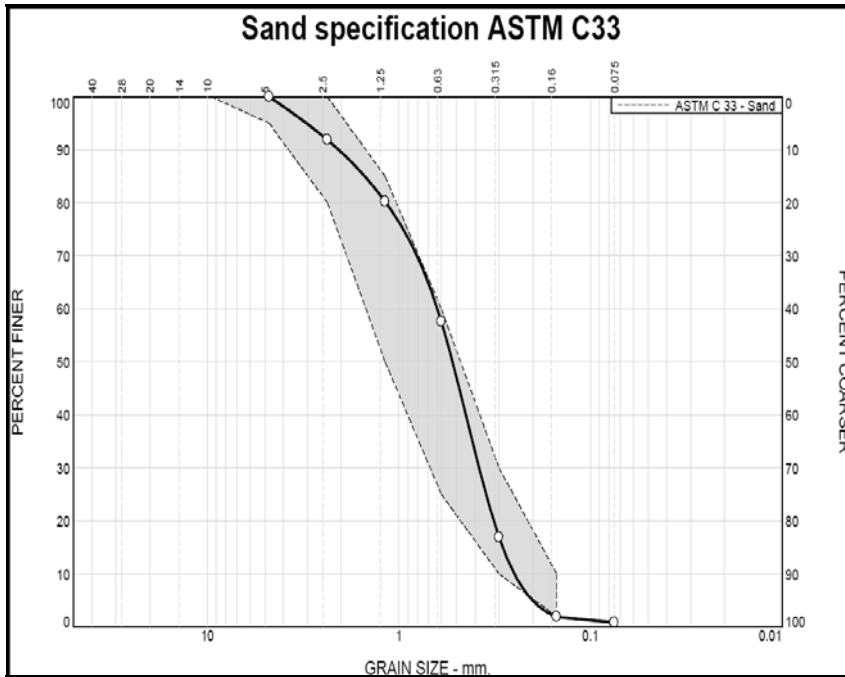
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.1	91.9	80 - 100
No. 16	11.6	80.2	50 - 85
No. 30	22.6	57.6	25 - 60
No. 50	40.7	16.9	10 - 30
No. 100	15.0	1.9	2 - 10
No. 200	1.1	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	11.6		
		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	3.7	0.0	1.0	2.7	33.6
10 - 15	6.4	0.0	1.8	4.7	25.7
15 - 20	26.8	4.2	7.8	14.8	39.4
20 - 25	25.9	1.7	5.4	18.8	41.4
25 - 30	32.6	9.2	3.0	20.3	31.2

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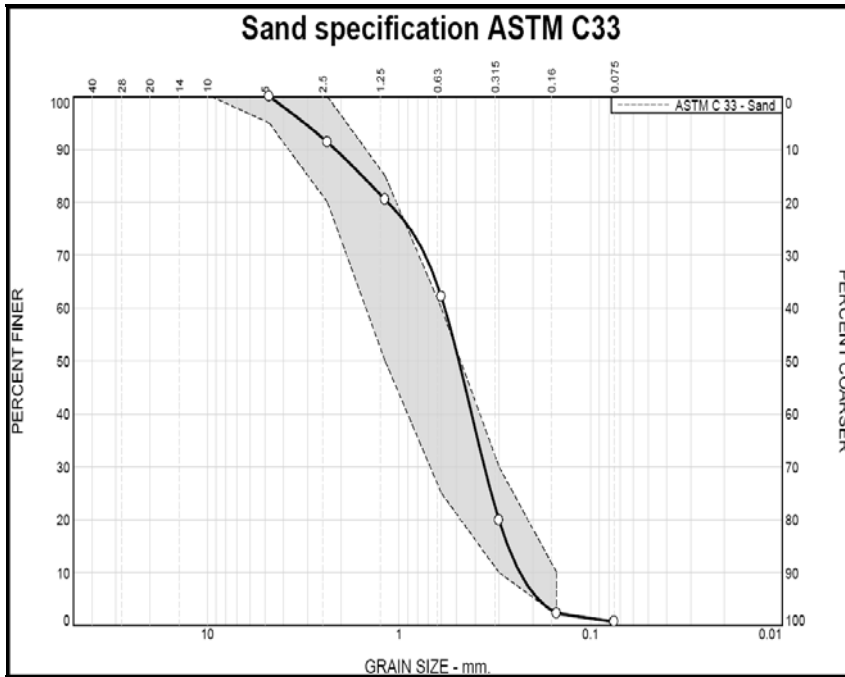
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 33 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.6	91.4	80 - 100
No. 16	10.8	80.5	50 - 85
No. 30	18.4	62.1	25 - 60
No. 50	42.3	19.9	10 - 30
No. 100	17.6	2.3	2 - 10
No. 200	1.6	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 33 feet

Percent Gravel + 1.5 inch	1.2		
Percent Gravel 1.5 to 0.75 inches	5.5	Total Percent Gravel	22.1
Percent Gravel 0.75 inch to #4 sieve	15.4		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 10	3.8	1.3	0.1	22.6
10 - 15	1.4	0.0	0.0	22.0
15 - 20	20.1	2.6	7.1	26.6
20 - 25	31.0	2.8	6.4	37.8
25 - 33	42.0	0.0	10.6	60.7

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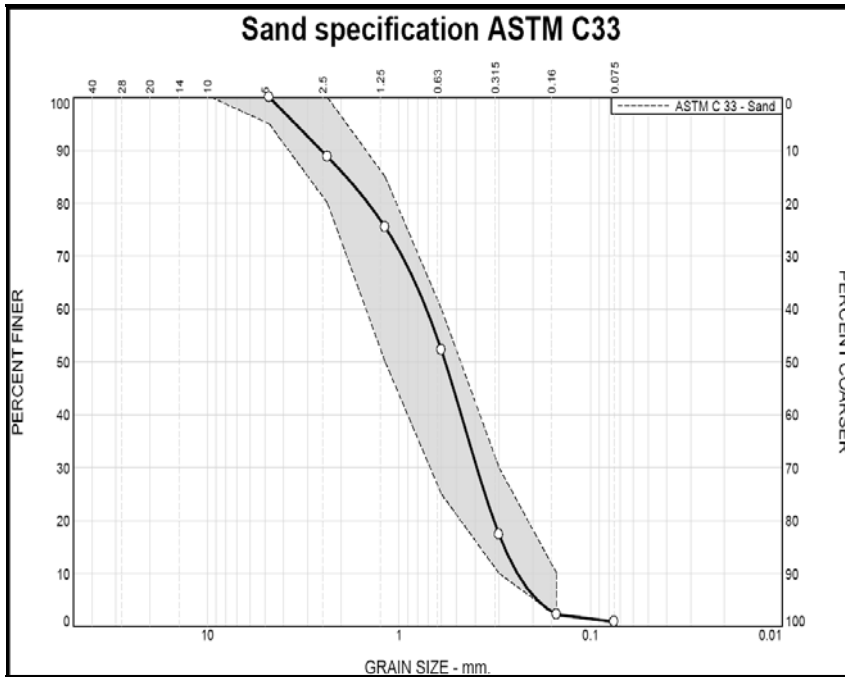
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.2	88.8	80 - 100
No. 16	13.3	75.5	50 - 85
No. 30	23.2	52.2	25 - 60
No. 50	34.9	17.3	10 - 30
No. 100	15.1	2.2	2 - 10
No. 200	1.4	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 25 feet

Percent Gravel + 1.5 inch	5.1		
Percent Gravel 1.5 to 0.75 inches	10.1		
Percent Gravel 0.75 inch to #4 sieve	23.6		
Total Percent Gravel		38.8	

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	
5 - 10	36.6	7.5	13.3	15.8	22.2
10 - 15	44.3	5.2	10.7	28.4	32.1
15 - 20	41.2	3.2	10.5	27.5	31.9
20 - 25	33.0	4.5	5.9	22.6	32.2

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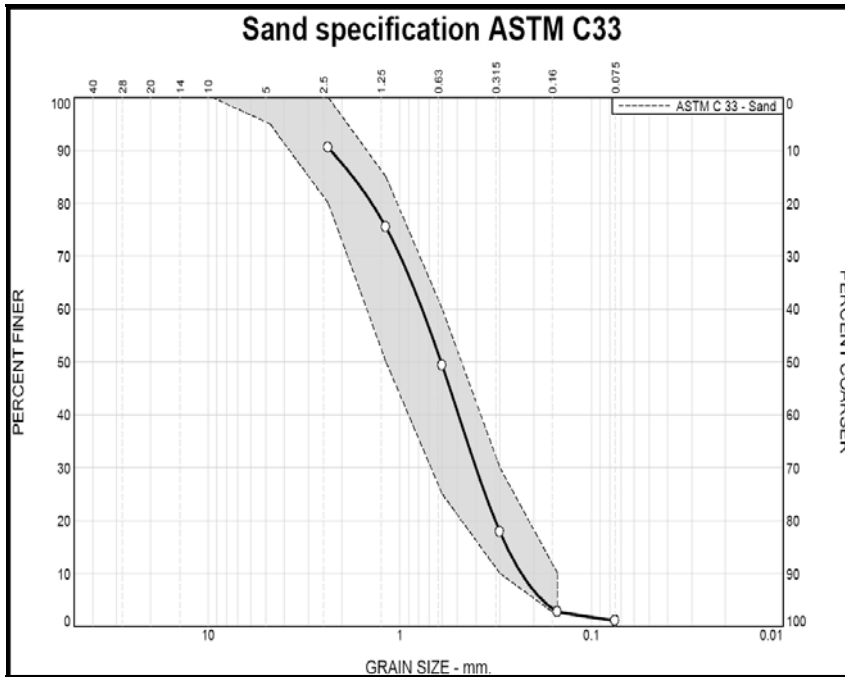
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.5	90.5	80 - 100
No. 16	15.0	75.5	50 - 85
No. 30	26.1	49.3	25 - 60
No. 50	31.5	17.8	10 - 30
No. 100	15.2	2.7	2 - 10
No. 200	1.6	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	4.1		
Percent Gravel 1.5 to 0.75 inches	5.5	Total Percent Gravel	22.8
Percent Gravel 0.75 inch to #4 sieve	13.2		

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	
7 - 15	13.2	0.0	3.1	10.1	33.1
15 - 20	25.0	3.3	9.0	12.8	26.5
20 - 25	25.3	1.2	5.2	18.9	23.3
25 - 30	29.3	8.9	5.2	15.3	22.3
30 - 35	19.5	3.8	5.7	10.1	23.8
35 - 45	26.5	7.1	6.0	13.5	30.2

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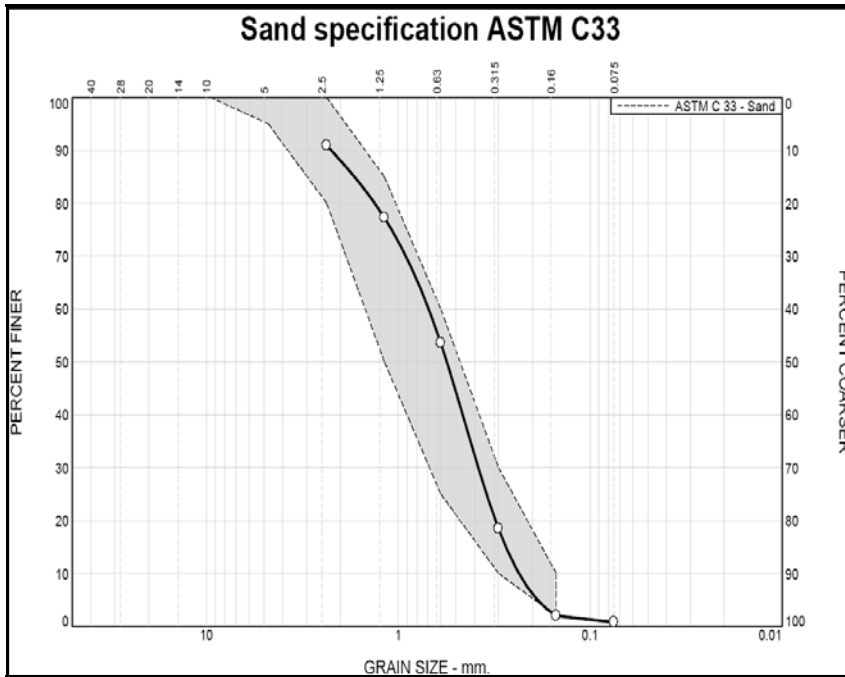
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. SS1800

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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	9.1	90.9	80 - 100
No. 16	13.7	77.2	50 - 85
No. 30	23.7	53.6	25 - 60
No. 50	35.1	18.5	10 - 30
No. 100	16.5	2.0	2 - 10
No. 200	1.2	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	5.7		
Percent Gravel 0.75 inch to #4 sieve	15.9		
Total Percent Gravel		25.2	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
2.5 - 15	11.9	2.4	2.3	31.5
15 - 25	13.5	1.1	4.7	28.3
25 - 30	30.9	3.1	7.0	37.0
30 - 35	42.2	15.6	10.6	42.7
35 - 40	34.3	4.7	9.5	32.5
40 - 45	29.3	2.8	4.7	26.1
45 - 50	35.3	0.0	4.9	26.1
50 - 55	35.5	2.4	8.3	46.8

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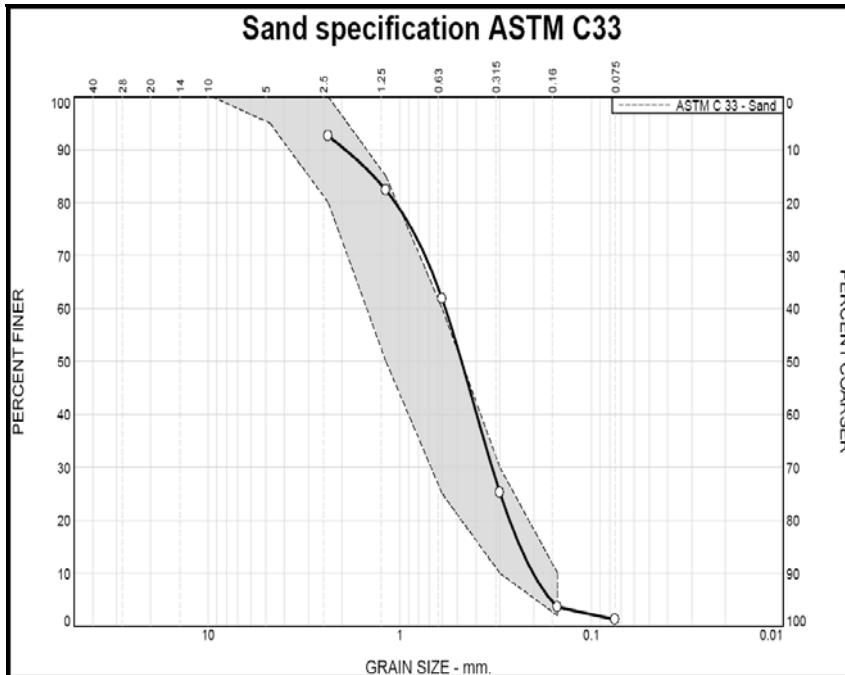
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LABORATORY TEST DATA SUMMARY SHEET

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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	7.4	92.6	80 - 100
No. 16	10.2	82.3	50 - 85
No. 30	20.5	61.8	25 - 60
No. 50	36.6	25.2	10 - 30
No. 100	21.6	3.6	2 - 10
No. 200	2.4	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	4.5		
Percent Gravel 1.5 to 0.75 inches	7.4		
Percent Gravel 0.75 inch to #4 sieve	18.5		
Total Percent Gravel		30.4	

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	
5 - 10	18.1	4.7	6.2	7.3	31.9
10 - 15	21.0	2.5	8.5	10.0	36.6
15 - 20	32.7	11.6	7.9	13.1	33.8
20 - 25	25.4	1.8	5.0	18.5	27.4
25 - 30	45.9	4.2	8.7	33.0	42.6
30 - 35	41.9	3.6	9.7	28.6	39.0
35 - 40	35.6	4.5	7.6	23.5	30.8
40 - 45	23.0	3.3	5.7	14.0	25.7

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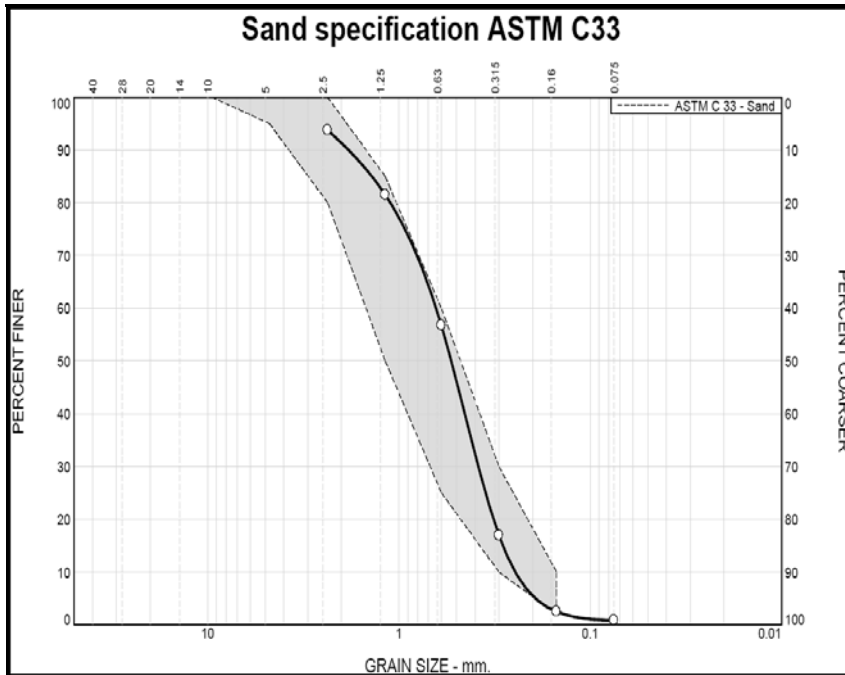
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 11 to 35 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.2	93.8	80 - 100
No. 16	12.3	81.5	50 - 85
No. 30	24.8	56.7	25 - 60
No. 50	39.8	16.9	10 - 30
No. 100	14.5	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 11 to 35 feet

Percent Gravel + 1.5 inch	7.5		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	8.9		
Total Percent Gravel		20.1	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
11 - 20	11.9	1.4	3.6	29.1
20 - 25	18.5	2.6	4.2	36.8
25 - 30	27.7	15.8	3.6	26.8
30 - 35	29.0	15.2	3.7	25.9

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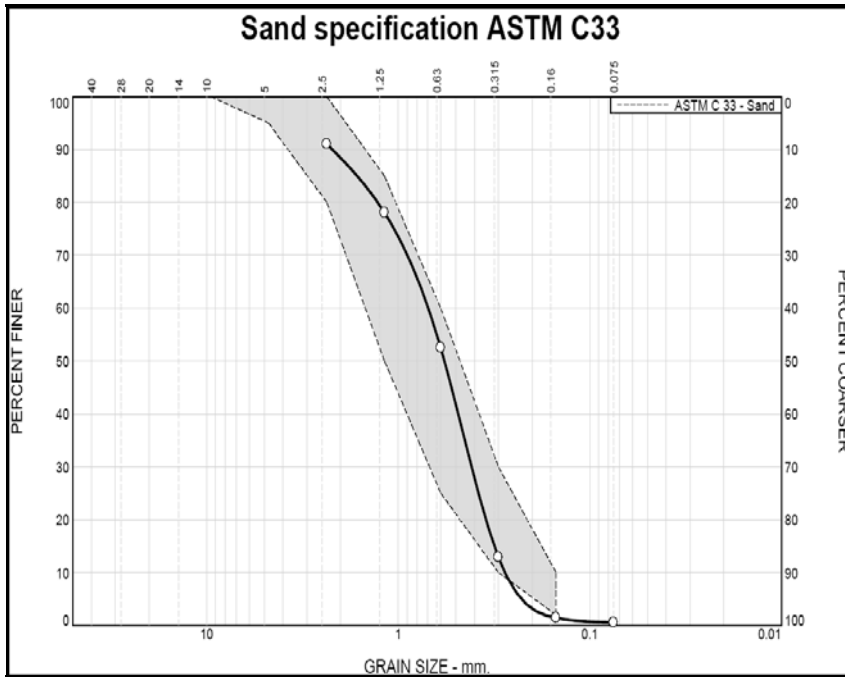
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SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.0	91.0	80 - 100
No. 16	13.0	78.1	50 - 85
No. 30	25.6	52.5	25 - 60
No. 50	39.6	12.9	10 - 30
No. 100	11.5	1.4	2 - 10
No. 200	0.9	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	14.9		
Total Percent Gravel		22.3	

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
2.5 - 10	9.6	0.0	3.7	31.0
10 - 15	18.0	7.5	3.7	23.0
15 - 20	22.3	3.9	7.4	34.3
20 - 25	22.8	2.9	5.8	29.5
25 - 30	23.7	0.4	5.1	28.9
30 - 35	28.8	3.2	7.7	31.4
35 - 40	35.6	0.0	6.2	23.4
40 - 45	31.1	4.6	4.9	25.9
45 - 55	18.6	0.0	4.6	33.1

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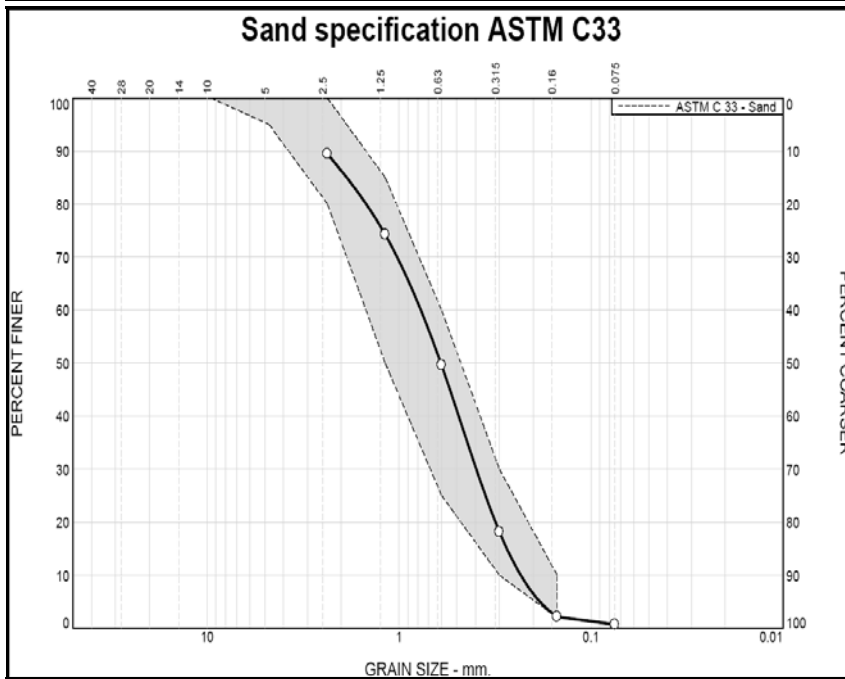
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HOLE NO. SS2600

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.5	89.5	80 - 100
No. 16	15.2	74.3	50 - 85
No. 30	24.6	49.6	25 - 60
No. 50	31.5	18.1	10 - 30
No. 100	16.0	2.1	2 - 10
No. 200	1.5	0.7	
Pan	0.7		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 60 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	5.4		
Percent Gravel 0.75 inch to #4 sieve	14.3		
Total Percent Gravel		22.3	

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	
6 - 10	9.5	1.6	2.2	5.6	22.6
10 - 15	21.3	5.4	8.7	7.2	30.0
15 - 20	27.9	3.8	7.1	17.0	32.2
20 - 25	21.2	0.9	2.7	17.5	24.5
25 - 30	19.2	3.3	4.6	11.3	40.5
30 - 35	28.4	7.9	9.3	11.3	30.0
35 - 40	26.9	1.1	5.9	19.8	28.7
40 - 45	23.4	3.2	3.0	17.2	25.9
45 - 50	28.7	0.0	3.5	25.2	21.2
50 - 60	18.4	0.8	5.7	11.8	35.0

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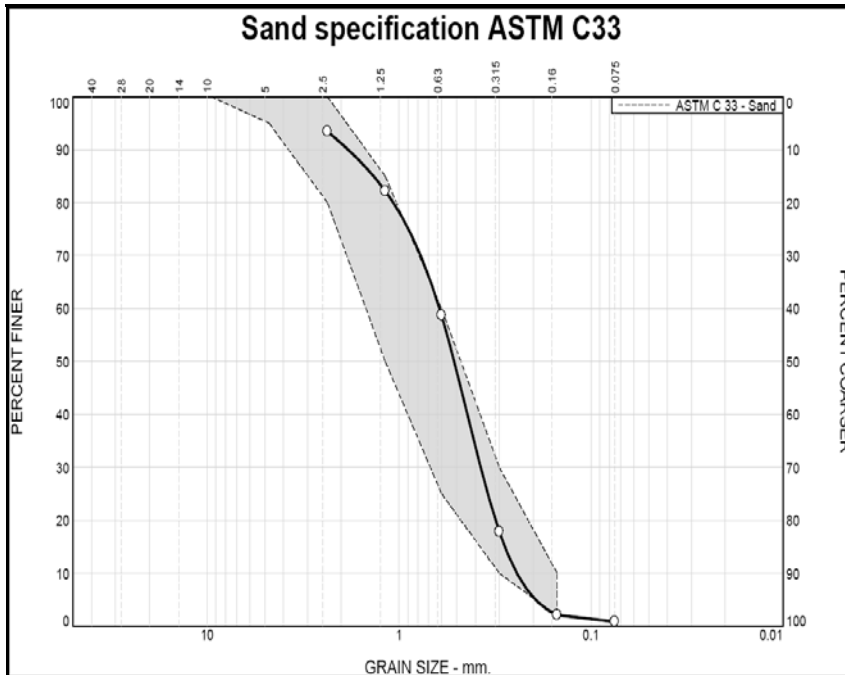
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. SS2800

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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	6.6	93.4	80 - 100
No. 16	11.3	82.2	50 - 85
No. 30	23.5	58.7	25 - 60
No. 50	40.9	17.8	10 - 30
No. 100	15.7	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	5.1		
Percent Gravel 1.5 to 0.75 inches	5.5	Total Percent Gravel	22.1
Percent Gravel 0.75 inch to #4 sieve	11.4		

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 - 15	8.7	0.6	2.7	5.4	29.1
15 - 20	32.1	2.2	13.4	16.5	37.1
20 - 25	31.0	8.5	10.0	12.5	25.1
25 - 30	34.0	17.9	7.2	8.9	33.6
30 - 35	35.9	23.8	2.6	9.5	31.5
35 - 40	11.4	0.0	4.5	6.9	31.2
40 - 45	12.9	0.0	2.5	10.4	23.4
45 - 50	30.5	2.7	6.6	21.2	38.1
50 - 55	15.9	0.0	5.3	10.6	20.2
55 - 60	19.8	0.9	2.4	16.5	29.5
60 - 65	24.2	4.3	6.2	13.7	19.3

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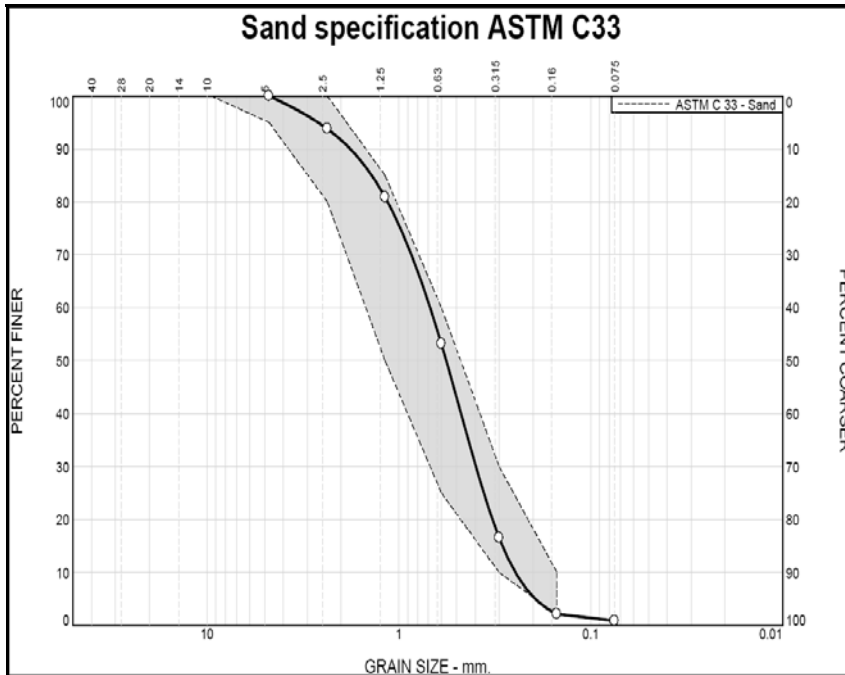
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HOLE NO. SS3000

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SUMMARY OF SAND GRADATION FOR THE INTERVAL 0 to 56 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	13.1	79.4	50 - 85
No. 30	22.8	56.6	25 - 60
No. 50	35.5	21.1	10 - 30
No. 100	17.7	3.4	2 - 10
No. 200	2.4	1.0	
Pan	1.0		

SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 0 to 56 feet

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	4.2		
Percent Gravel 0.75 inch to #4 sieve	10.7		
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	
0 - 5	30.1	18.3	4.7	7.1	16.8
5 - 15	14.6	1.8	5.2	7.6	36.0
15 - 25	10.1	2.0	2.0	6.1	36.4
25 - 30	15.7	0.0	3.0	12.7	29.3
30 - 35	17.0	0.0	5.1	11.9	28.9
35 - 40	24.0	1.1	5.3	17.6	39.2
40 - 45	20.3	2.7	2.7	14.9	28.1
45 - 50	21.6	2.6	4.3	14.6	41.6
50 - 56	30.4	12.8	5.9	11.6	41.9

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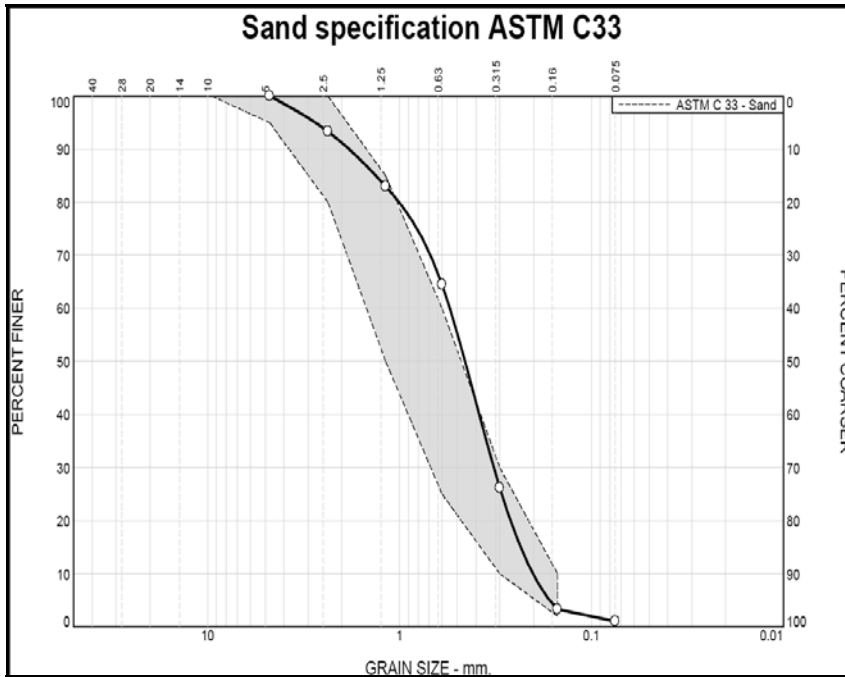
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LABORATORY TEST DATA SUMMARY SHEET

HOLE NO. SS3200

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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	6.7	93.3	80 - 100
No. 16	10.3	83.0	50 - 85
No. 30	18.5	64.5	25 - 60
No. 50	38.3	26.2	10 - 30
No. 100	22.9	3.3	2 - 10
No. 200	2.3	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	1.0		
Percent Gravel 1.5 to 0.75 inches	4.5	Total Percent Gravel	16.6
Percent Gravel 0.75 inch to #4 sieve	11.1		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 20	12.6	0.0	3.5	27.9
20 - 25	25.6	3.1	8.4	42.7
25 - 30	19.4	1.9	3.6	32.5

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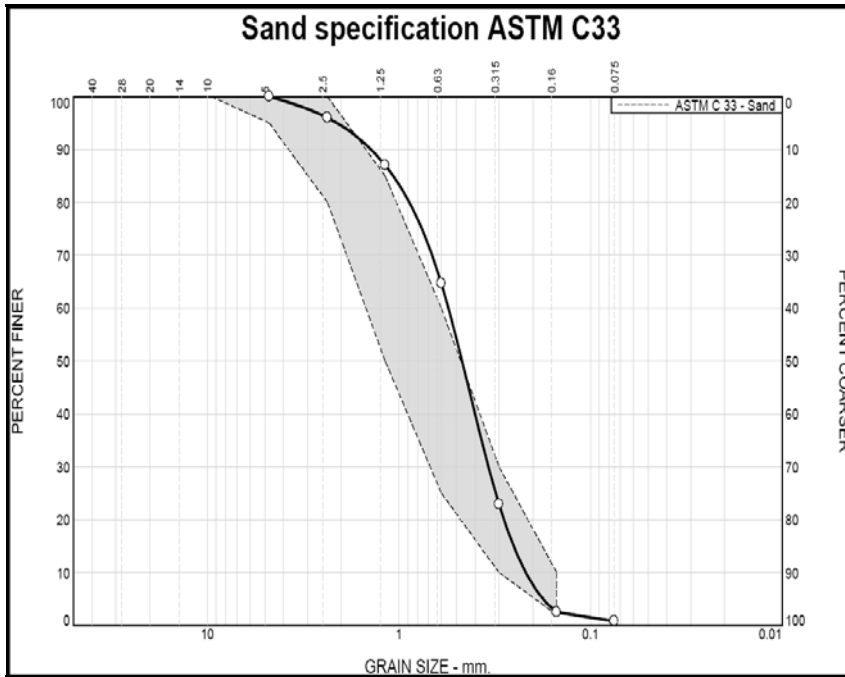
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LABORATORY TEST DATA SUMMARY SHEET

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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	4.0	96.0	80 - 100
No. 16	9.0	87.0	50 - 85
No. 30	22.3	64.7	25 - 60
No. 50	41.8	22.9	10 - 30
No. 100	20.4	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	5.5		
Percent Gravel 1.5 to 0.75 inches	2.8		
Percent Gravel 0.75 inch to #4 sieve	6.9		
Total Percent Gravel		15.2	

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	
3 - 15	8.6	2.1	2.1	4.4	29.5
15 - 25	4.8	0.0	1.0	3.7	26.9
25 - 30	29.2	15.8	4.7	8.6	50.9
30 - 35	32.4	17.4	5.5	9.5	33.0
35 - 40	20.9	2.5	3.5	14.9	40.6

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