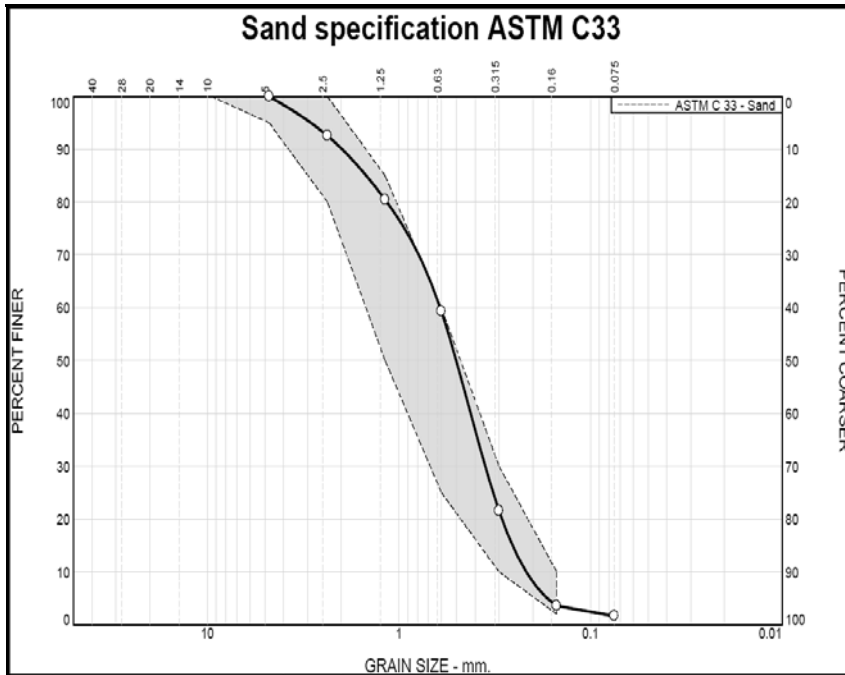


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0100

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	7.4	92.6	80 - 100
No. 16	12.1	80.5	50 - 85
No. 30	21.1	59.3	25 - 60
No. 50	37.8	21.5	10 - 30
No. 100	18.0	3.6	2 - 10
No. 200	1.9	1.6	
Pan	1.6		

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

Percent Gravel + 1.5 inch	1.5		
Percent Gravel 1.5 to 0.75 inches	2.7	<b>Total Percent Gravel</b>	<b>14.1</b>
Percent Gravel 0.75 inch to #4 sieve	9.8		

### 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	
3 - 10	7.9	0.0	1.4	6.5	36.9
10 - 15	35.7	7.7	6.2	21.8	31.0
15 - 20	9.3	0.0	3.0	6.4	26.4
20 - 25	4.7	0.0	0.8	4.0	24.6
25 - 30	15.1	0.5	2.9	11.7	30.4

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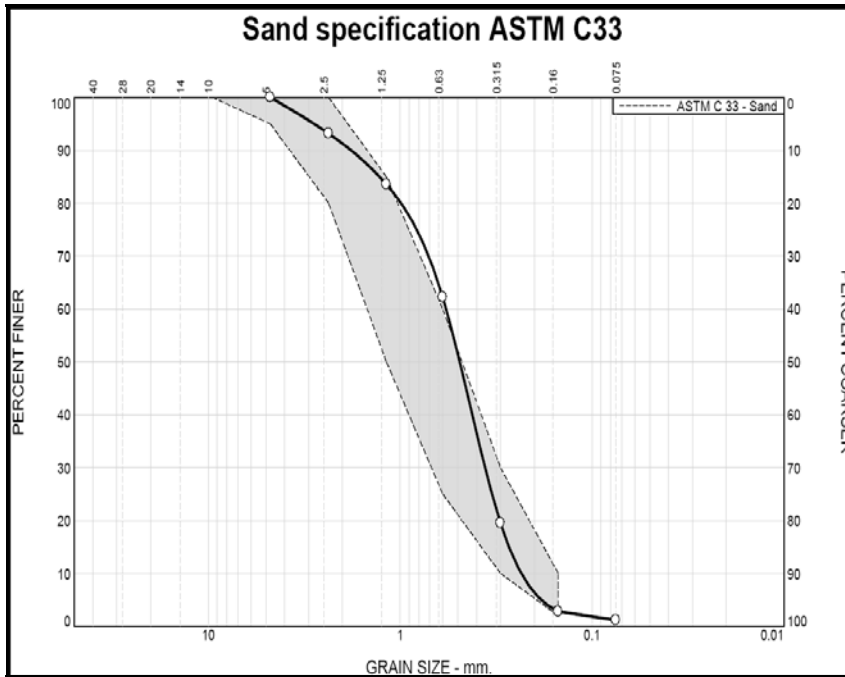
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0300

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	6.8	93.2	80 - 100
No. 16	9.6	83.6	50 - 85
No. 30	21.3	62.2	25 - 60
No. 50	42.7	19.5	10 - 30
No. 100	16.7	2.8	2 - 10
No. 200	1.6	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	0.3		
Percent Gravel 1.5 to 0.75 inches	2.0		
Percent Gravel 0.75 inch to #4 sieve	8.6		
<b>Total Percent Gravel</b>		<b>10.9</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
7 - 10	12.5	0.0	2.5	25.8
10 - 15	14.0	2.5	1.4	26.1
15 - 20	6.7	0.0	1.9	26.3
20 - 25	5.0	0.0	1.0	26.1
25 - 30	8.3	0.0	1.7	26.7
30 - 35	21.8	0.0	4.2	28.0
35 - 40	10.9	0.0	1.1	21.1
40 - 45	8.4	0.0	2.1	17.5

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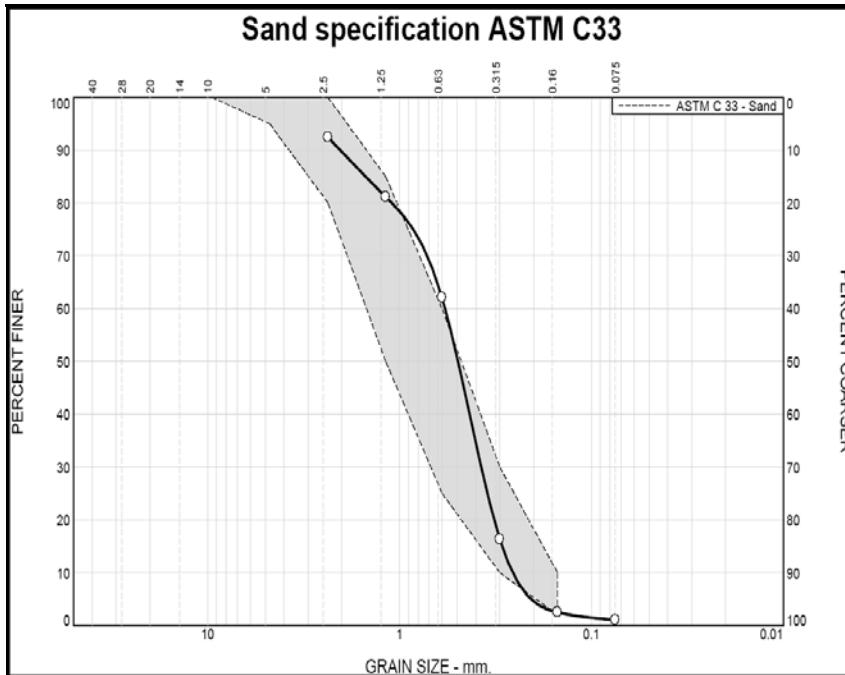
May 30, 2008 ProSource Project No. 1819-00

# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0400

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	7.6	92.4	80 - 100
No. 16	11.3	81.1	50 - 85
No. 30	19.1	62.1	25 - 60
No. 50	45.7	16.3	10 - 30
No. 100	13.8	2.5	2 - 10
No. 200	1.4	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	10.9		
Percent Gravel 1.5 to 0.75 inches	5.0	<b>Total Percent Gravel</b>	<b>26.4</b>
Percent Gravel 0.75 inch to #4 sieve	10.5		

### 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	12.6	1.6	4.6	6.4	38.3
10 - 15	25.4	10.9	5.3	9.1	33.8
15 - 20	31.9	12.8	4.7	14.3	40.9
20 - 25	33.4	7.9	6.7	18.8	37.4
25 - 30	34.2	20.4	6.2	7.6	42.1
30 - 35	18.0	6.8	3.5	7.6	26.0
35 - 40	29.6	15.7	4.2	9.7	24.4

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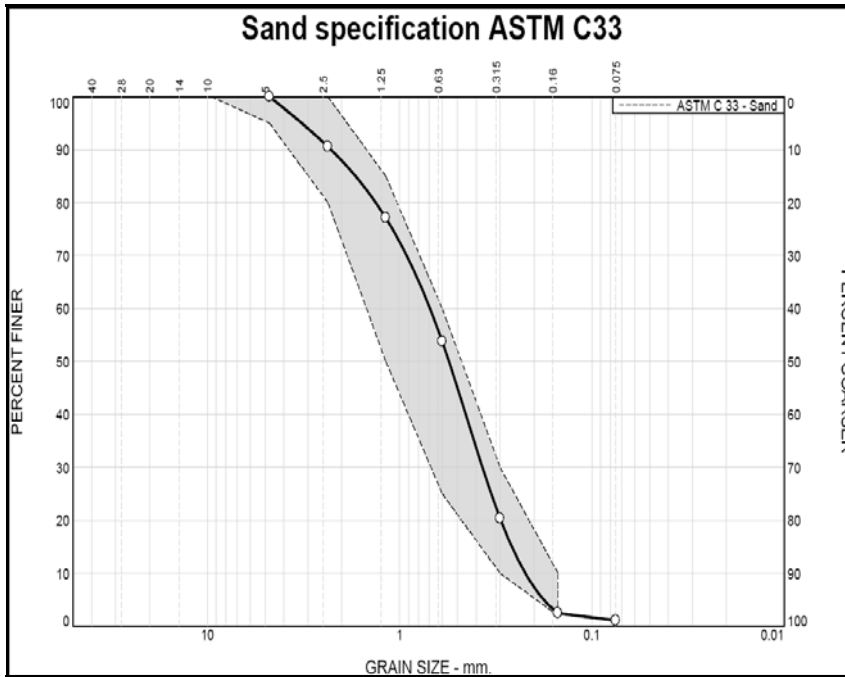
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0500

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.4	90.6	80 - 100
No. 16	13.4	77.1	50 - 85
No. 30	23.3	53.8	25 - 60
No. 50	33.4	20.3	10 - 30
No. 100	17.9	2.5	2 - 10
No. 200	1.4	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	14.1		
<b>Total Percent Gravel</b>		<b>22.9</b>	

### 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	21.6	1.9	6.9	12.7	32.5
10 - 15	29.7	8.2	3.3	18.2	19.3
15 - 20	8.6	1.3	1.1	6.3	24.7
20 - 25	16.0	4.7	4.1	7.2	25.2
25 - 30	17.8	6.0	3.2	8.5	22.4
30 - 35	35.5	2.9	9.5	23.0	27.9
35 - 40	31.6	0.0	8.6	23.0	24.0

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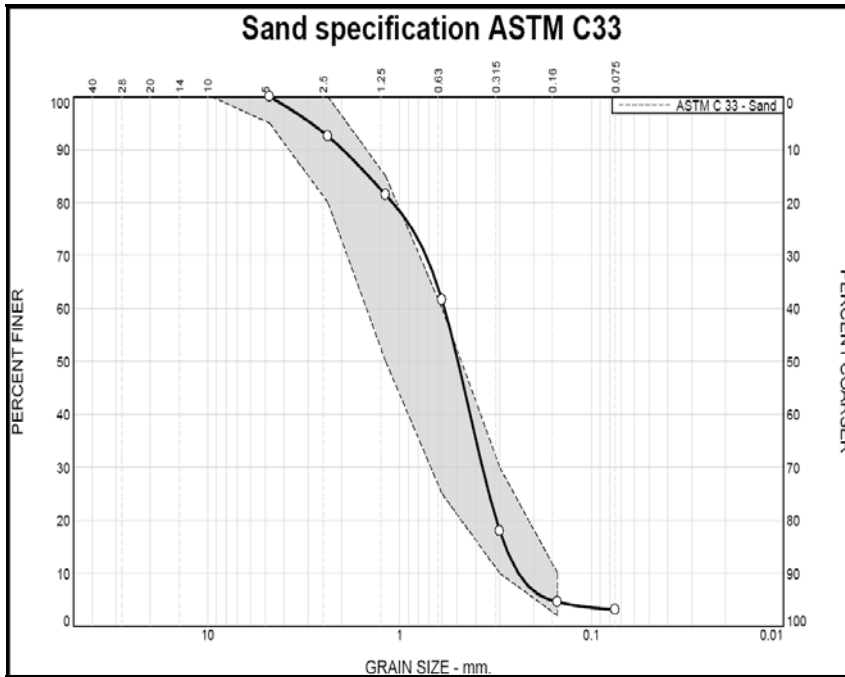
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0700

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 15 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	11.1	81.4	50 - 85
No. 30	19.9	61.6	25 - 60
No. 50	43.6	18.0	10 - 30
No. 100	13.4	4.6	2 - 10
No. 200	1.5	3.1	
Pan	3.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 15 feet

Percent Gravel + 1.5 inch	0.7		
Percent Gravel 1.5 to 0.75 inches	4.6	<b>Total Percent Gravel</b>	<b>14.0</b>
Percent Gravel 0.75 inch to #4 sieve	8.7		

### 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	
3.5 - 10	12.4	1.2	3.4	7.7	34.5
10 - 15	16.0	0.0	6.2	9.8	27.2

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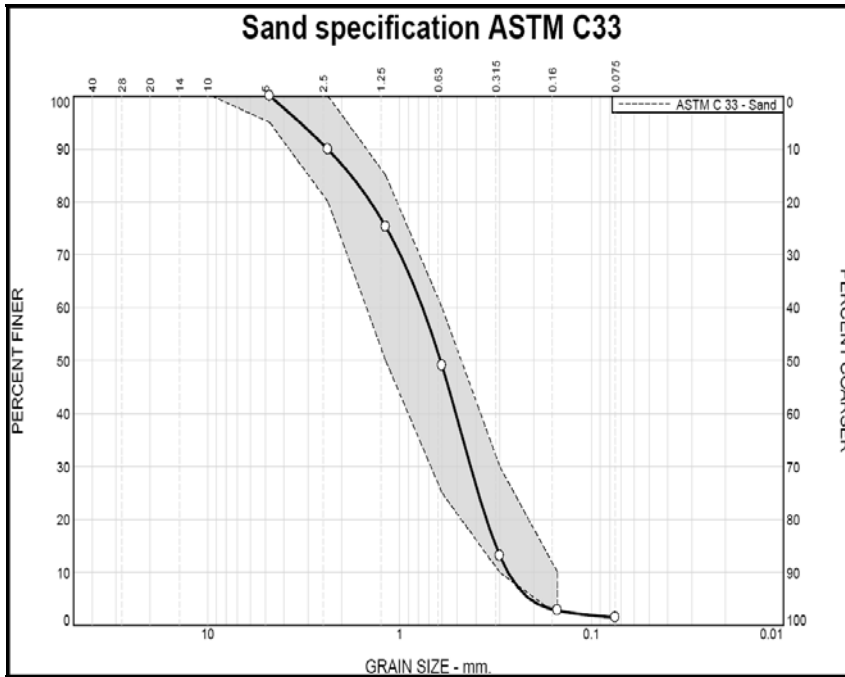
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G0900

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	10.1	89.9	80 - 100
No. 16	14.6	75.3	50 - 85
No. 30	26.2	49.1	25 - 60
No. 50	35.9	13.1	10 - 30
No. 100	10.3	2.8	2 - 10
No. 200	1.3	1.5	
Pan	1.5		

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

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	5.0	<b>Total Percent Gravel</b>	<b>20.6</b>
Percent Gravel 0.75 inch to #4 sieve	12.5		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 10	15.0	0.0	5.8	24.1
10 - 15	33.8	17.0	5.4	27.9
15 - 20	20.5	4.3	5.7	24.0
20 - 25	19.0	0.0	4.7	21.7
25 - 30	20.8	0.6	5.2	28.3
30 - 40	17.6	0.0	4.1	14.3

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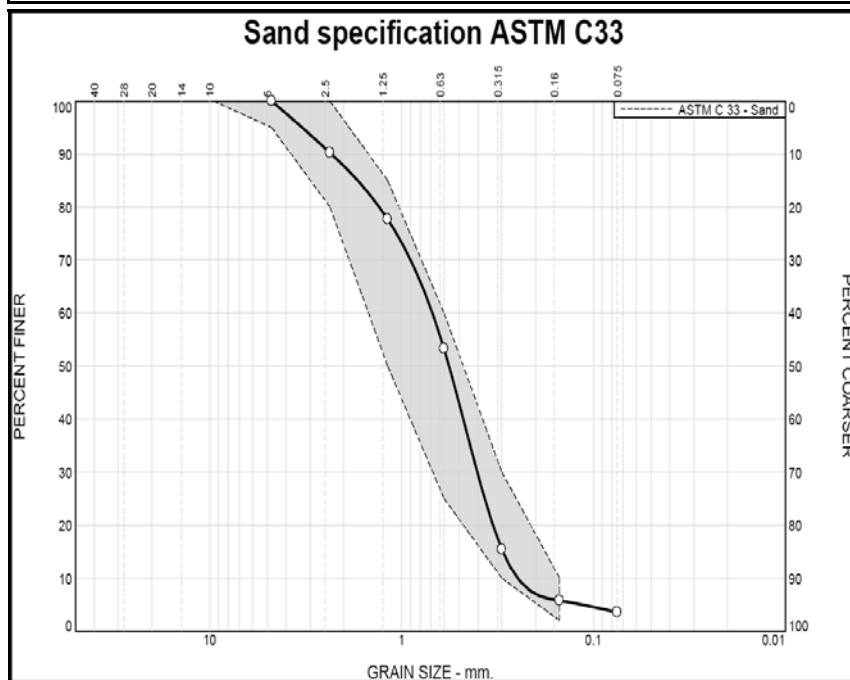
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G1300

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 2.5 to 5 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.7	90.3	80 - 100
No. 16	12.6	77.7	50 - 85
No. 30	24.4	53.3	25 - 60
No. 50	37.9	15.4	10 - 30
No. 100	9.7	5.8	2 - 10
No. 200	2.2	3.5	
Pan	3.5		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2.5 to 5 feet

Percent Gravel + 1.5 inch	9.4		
Percent Gravel 1.5 to 0.75 inches	8.5	<b>Total Percent Gravel</b>	<b>31.4</b>
Percent Gravel 0.75 inch to #4 sieve	13.4		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
2.5 - 5	31.4	9.4	8.5	13.4

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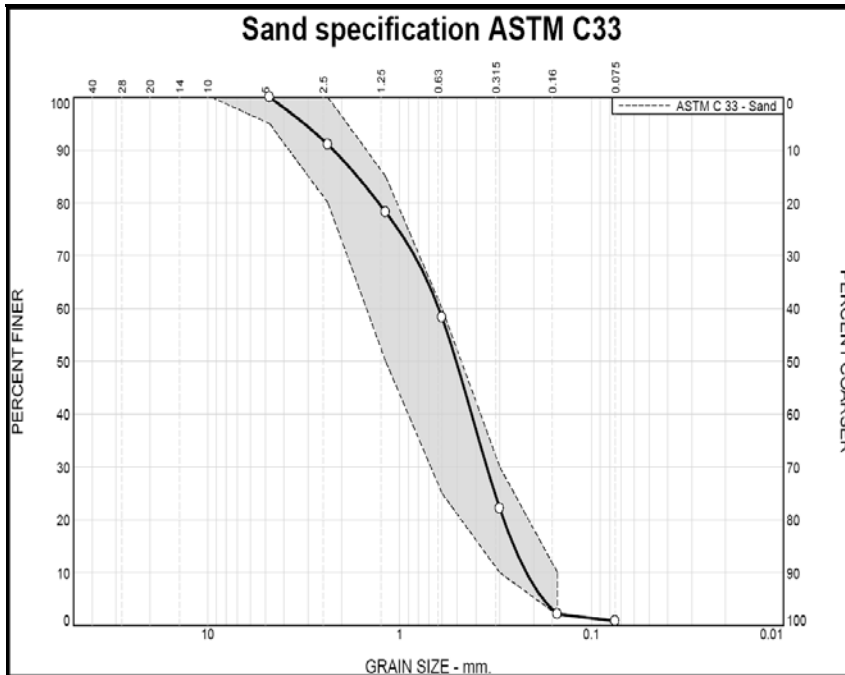


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G1700

Page 1 of 1

### 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	9.0	91.0	80 - 100
No. 16	12.8	78.3	50 - 85
No. 30	19.9	58.3	25 - 60
No. 50	36.2	22.1	10 - 30
No. 100	20.0	2.2	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	3.1		
Percent Gravel 0.75 inch to #4 sieve	11.0		
<b>Total Percent Gravel</b>		<b>18.1</b>	

### 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	2.1	0.0	0.2	1.8	24.4
10 - 15	8.5	2.4	1.6	4.4	26.1
15 - 20	16.2	0.0	4.9	11.3	30.1
20 - 25	4.9	0.7	0.7	3.5	26.8
25 - 30	21.5	8.8	4.5	8.3	39.4
30 - 35	19.3	5.0	4.2	10.1	29.6
35 - 40	24.0	4.1	3.9	16.0	39.5
40 - 45	27.4	13.4	3.1	10.9	36.0
45 - 50	28.5	1.3	5.3	22.0	37.0
50 - 55	26.4	2.1	3.5	20.7	33.4
55 - 60	20.3	5.2	2.7	12.5	31.9

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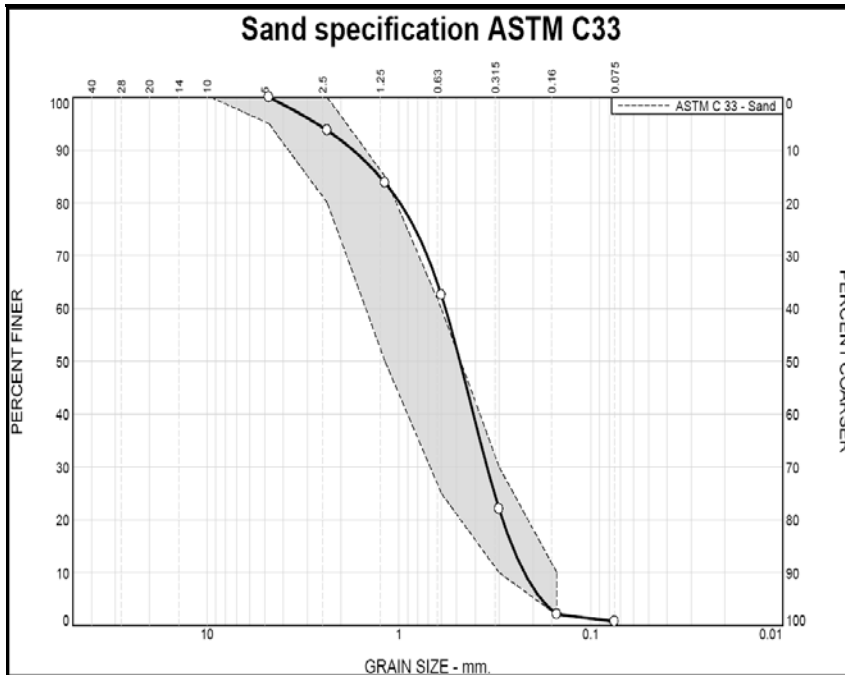
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G1900

Page 1 of 1

### 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	6.3	93.7	80 - 100
No. 16	9.9	83.8	50 - 85
No. 30	21.2	62.6	25 - 60
No. 50	40.5	22.0	10 - 30
No. 100	19.9	2.1	2 - 10
No. 200	1.4	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	4.9		
Percent Gravel 1.5 to 0.75 inches	3.4		
Percent Gravel 0.75 inch to #4 sieve	8.2		
<b>Total Percent Gravel</b>		<b>16.5</b>	

### 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	18.6	1.7	5.5	11.5	30.7
10 - 15	10.0	1.8	1.6	6.6	26.9
15 - 20	10.1	0.0	3.3	6.7	26.3
20 - 25	8.2	1.6	1.9	4.6	25.6
25 - 30	12.0	2.4	3.3	6.3	32.7
30 - 35	8.5	1.8	1.3	5.5	29.3
35 - 40	14.8	7.9	2.3	4.6	31.1
40 - 45	20.1	7.9	3.8	8.3	26.4
45 - 50	18.7	0.0	8.3	10.3	28.6
50 - 55	33.9	23.1	2.7	8.1	43.9
55 - 60	26.5	5.4	3.8	17.3	32.5

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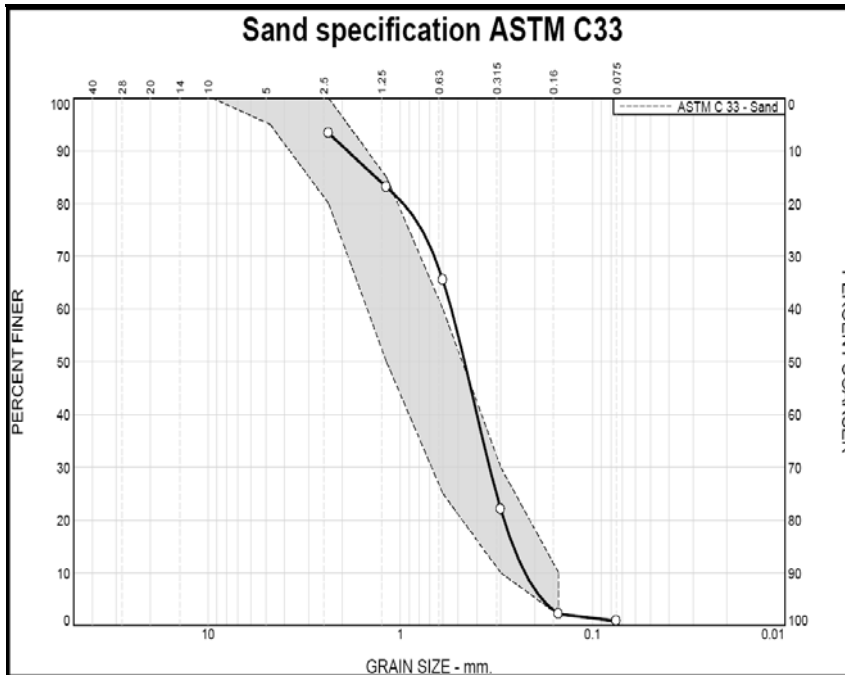
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G2000

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	6.7	93.3	80 - 100
No. 16	10.2	83.1	50 - 85
No. 30	17.6	65.5	25 - 60
No. 50	43.5	22.0	10 - 30
No. 100	19.8	2.2	2 - 10
No. 200	1.3	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	5.9		
Percent Gravel 0.75 inch to #4 sieve	13.6		
		<b>Total Percent Gravel</b>	<b>22.0</b>

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	
4 - 15	11.3	0.9	4.1	6.3	33.6
15 - 25	19.8	7.2	4.0	8.6	32.4
25 - 35	9.7	0.0	3.7	6.0	30.0
35 - 40	29.9	1.8	14.0	14.1	34.2
40 - 45	33.1	5.2	8.3	19.6	41.4
45 - 50	44.6	1.1	10.2	33.3	34.5
50 - 55	28.7	0.0	5.3	23.4	40.6
55 - 60	38.1	6.3	8.2	23.6	44.0
60 - 65	10.2	0.0	1.8	8.4	28.3

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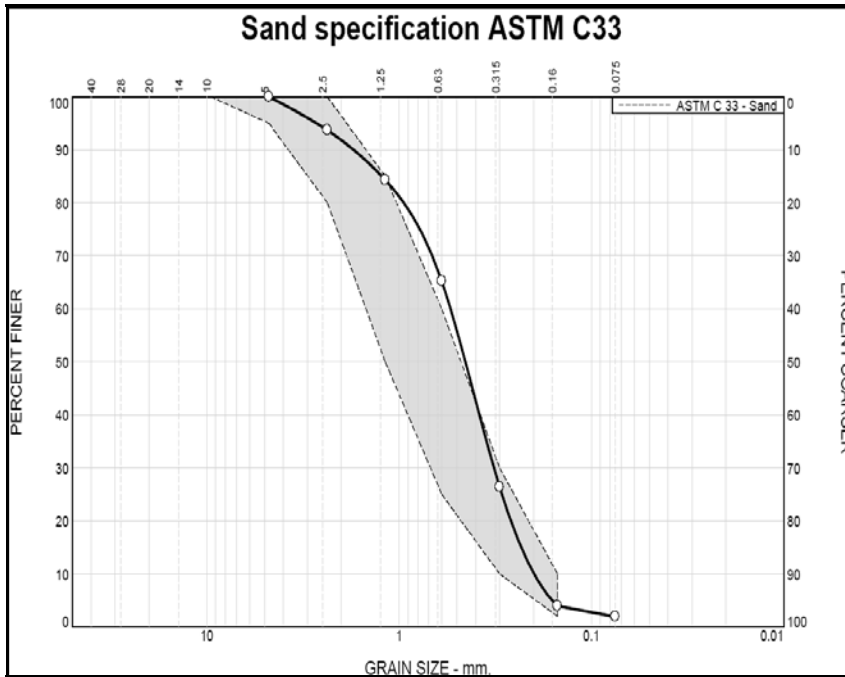
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G2300

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	6.3	93.7	80 - 100
No. 16	9.4	84.3	50 - 85
No. 30	19.1	65.2	25 - 60
No. 50	38.9	26.4	10 - 30
No. 100	22.4	4.0	2 - 10
No. 200	2.0	1.9	
Pan	1.9		

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

Percent Gravel + 1.5 inch	6.1		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	9.0		
<b>Total Percent Gravel</b>		<b>19.9</b>	

### 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	5.7	0.0	1.0	4.7	23.1
15 - 20	8.5	2.2	1.6	4.6	24.9
20 - 25	30.1	7.1	7.3	15.7	32.8
25 - 30	4.3	0.0	0.3	4.0	21.1
30 - 35	10.0	3.1	2.1	4.8	25.5
35 - 40	29.9	5.7	7.8	16.4	33.2
40 - 45	44.6	5.1	15.5	23.9	42.5
45 - 50	25.1	12.3	6.1	6.8	25.2
50 - 55	23.2	11.9	4.3	7.0	32.7
55 - 60	24.5	11.2	5.8	7.6	30.2
60 - 65	27.8	14.5	5.3	8.0	32.0

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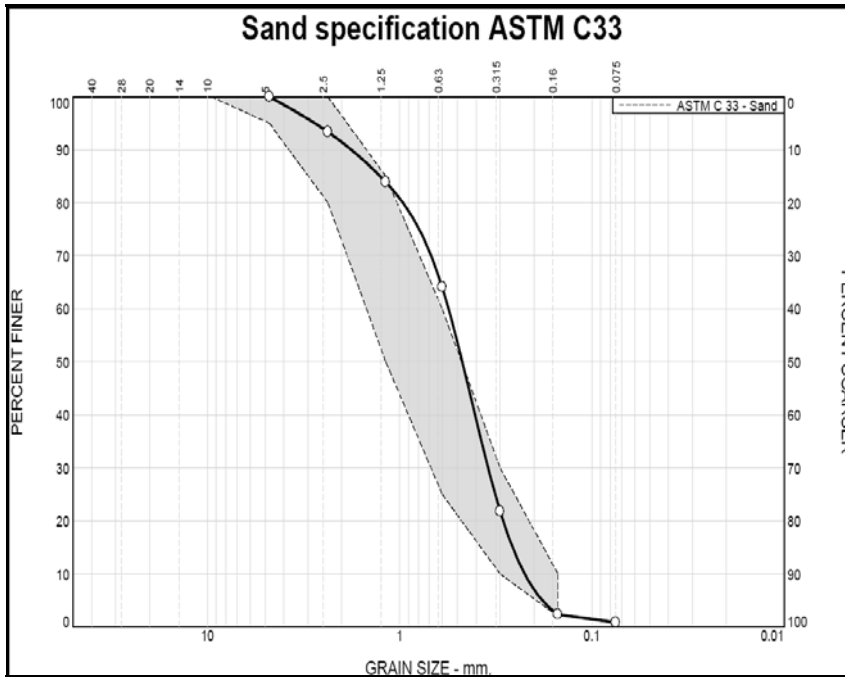
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G2500

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	6.6	93.4	80 - 100
No. 16	9.5	83.9	50 - 85
No. 30	19.8	64.1	25 - 60
No. 50	42.3	21.8	10 - 30
No. 100	19.4	2.4	2 - 10
No. 200	1.5	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	9.6		
		<b>Total Percent Gravel</b>	<b>17.8</b>

### 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	3.6	6.1	7.9	36.7
10 - 15	13.5	4.2	3.7	5.5	25.9
15 - 20	13.2	3.5	3.1	6.6	25.6
20 - 25	31.7	9.5	10.2	12.0	33.6
25 - 30	12.3	2.7	3.0	6.6	23.6
30 - 35	1.4	0.0	0.2	1.2	22.0
35 - 40	6.2	0.0	1.6	4.6	22.9
40 - 45	21.8	6.2	3.4	12.2	20.6
45 - 50	21.8	0.5	5.2	16.0	31.2
50 - 55	27.0	1.0	7.0	19.1	35.4
55 - 60	29.9	6.3	7.5	16.2	36.4
60 - 65	17.4	4.3	5.6	7.5	31.4

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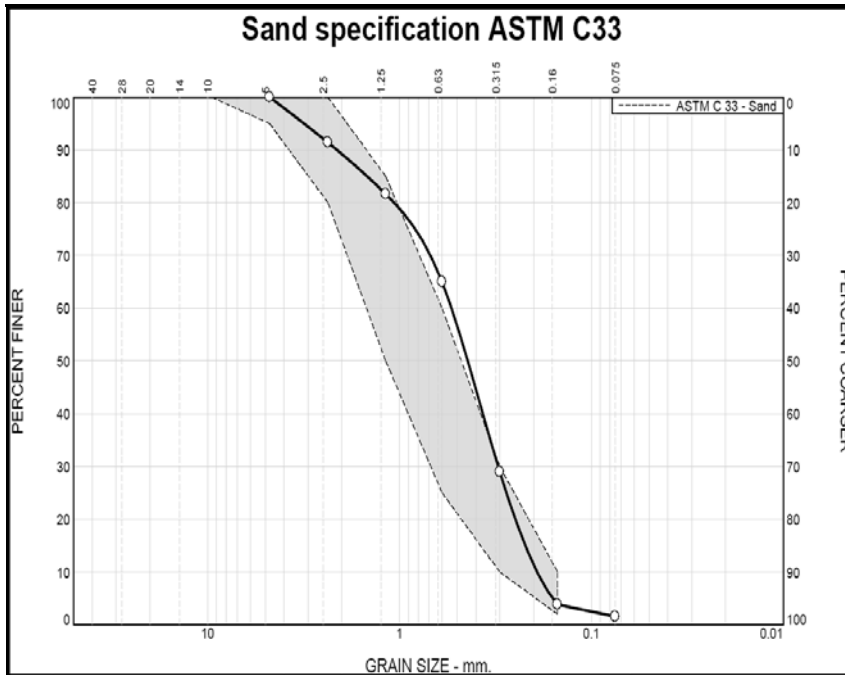
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G2700

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	8.6	91.4	80 - 100
No. 16	9.8	81.6	50 - 85
No. 30	16.7	65.0	25 - 60
No. 50	36.0	29.0	10 - 30
No. 100	25.1	3.8	2 - 10
No. 200	2.3	1.6	
Pan	1.6		

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

Percent Gravel + 1.5 inch	1.5		
Percent Gravel 1.5 to 0.75 inches	2.9		
Percent Gravel 0.75 inch to #4 sieve	8.9		
<b>Total Percent Gravel</b>		<b>13.4</b>	

### 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	25.2	1.5	5.9	17.8	25.2
10 - 15	14.4	3.8	3.1	7.5	27.0
15 - 20	14.2	7.3	1.0	5.9	27.1
20 - 25	7.5	0.0	3.6	4.0	23.8
25 - 35	6.1	0.0	1.1	5.0	28.6
35 - 45	3.2	0.0	0.2	3.0	23.3
45 - 50	9.3	0.0	1.8	7.6	17.3
50 - 55	27.8	1.0	9.0	17.8	24.8
55 - 60	28.0	2.8	5.0	20.2	27.6
60 - 65	20.3	2.1	4.5	13.6	24.4

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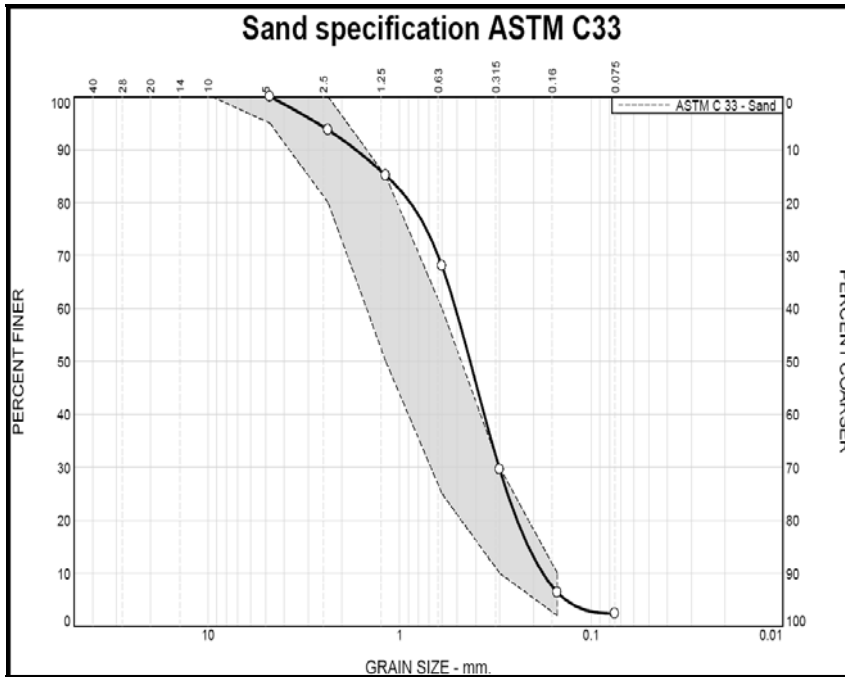
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G2900

Page 1 of 1

### 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	6.3	93.7	80 - 100
No. 16	8.6	85.1	50 - 85
No. 30	17.1	68.0	25 - 60
No. 50	38.4	29.6	10 - 30
No. 100	23.2	6.4	2 - 10
No. 200	4.0	2.4	
Pan	2.4		

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

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	8.2		
<b>Total Percent Gravel</b>		<b>16.0</b>	

### 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	
2.5 - 5	29.4	3.5	12.3	13.6	22.2
5 - 10	13.3	1.6	3.6	8.2	33.0
10 - 15	16.6	7.5	2.5	6.6	29.1
15 - 20	8.0	1.9	2.3	3.8	25.7
20 - 25	21.6	2.6	8.4	10.6	35.7
25 - 30	7.2	0.0	1.6	5.6	23.9
30 - 35	27.4	10.3	8.5	8.6	23.8
35 - 45	6.3	2.6	0.8	2.9	27.2
45 - 50	6.1	0.0	0.5	5.6	22.1
50 - 55	14.1	0.9	2.3	10.9	25.5
55 - 60	19.4	2.7	4.9	11.9	25.4
60 - 65	38.7	14.8	5.8	18.2	41.7

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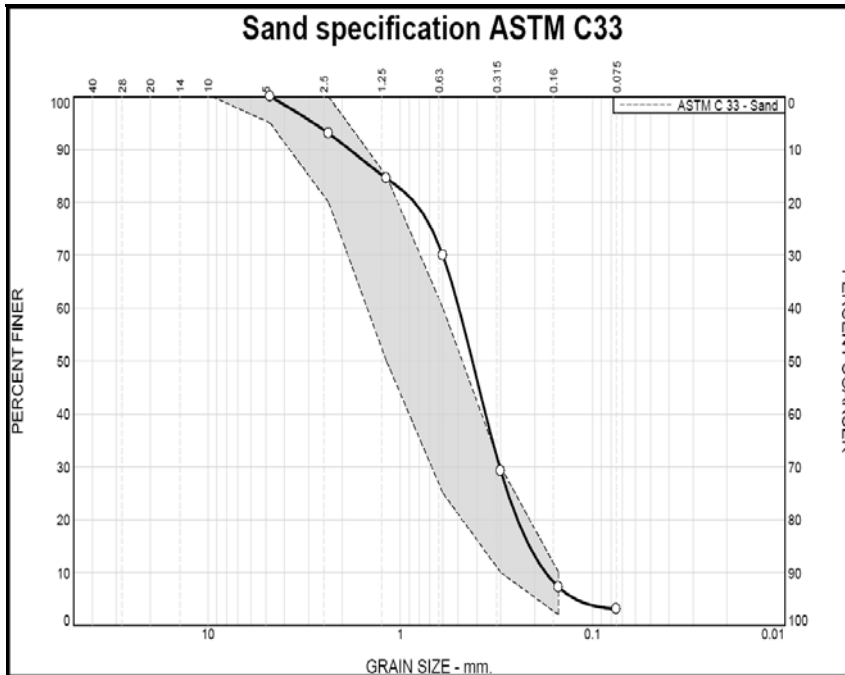
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G3100

Page 1 of 1

### 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	7.0	93.0	80 - 100
No. 16	8.5	84.5	50 - 85
No. 30	14.6	70.0	25 - 60
No. 50	40.8	29.2	10 - 30
No. 100	22.0	7.2	2 - 10
No. 200	4.1	3.1	
Pan	3.1		

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

Percent Gravel + 1.5 inch	4.3		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	11.7		
		<b>Total Percent Gravel</b>	<b>20.8</b>

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3.5 - 10	14.7	2.0	4.4	8.2	35.9
10 - 15	13.5	5.2	2.8	5.5	34.9
15 - 20	19.1	4.9	4.3	9.9	39.1
20 - 25	22.0	4.9	5.8	11.2	36.2
25 - 30	26.9	7.9	8.5	10.5	34.4
30 - 35	23.6	0.0	6.0	17.6	32.3
35 - 40	29.6	3.1	5.5	21.1	15.1
40 - 45	2.9	0.0	0.4	2.6	21.4
45 - 50	16.0	0.0	2.3	13.7	20.8
50 - 55	20.8	6.3	3.0	11.5	27.8
55 - 60	25.5	10.5	4.1	10.9	32.1
60 - 65	36.5	7.7	10.4	18.4	26.3

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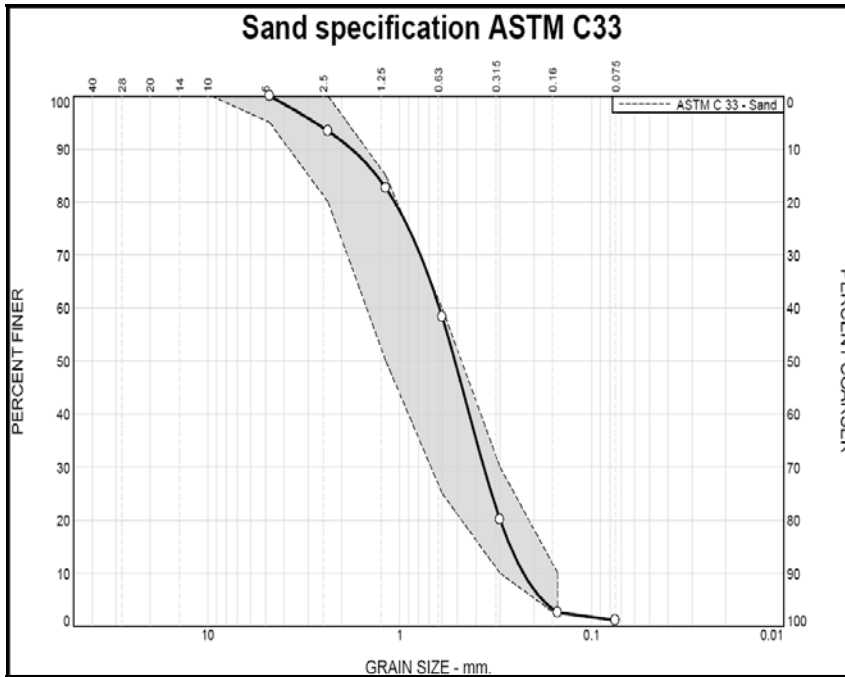


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G3300

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 55 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	10.7	82.6	50 - 85
No. 30	24.3	58.3	25 - 60
No. 50	38.2	20.1	10 - 30
No. 100	17.5	2.5	2 - 10
No. 200	1.5	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 55 feet

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	10.0		
		<b>Total Percent Gravel</b>	<b>17.2</b>

### 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	
3.5 - 10	16.3	0.9	6.5	8.9	36.0
10 - 15	14.1	2.9	5.9	5.4	25.6
15 - 20	11.4	2.9	2.7	5.8	32.4
20 - 25	4.1	0.0	0.6	3.4	25.4
25 - 30	18.0	0.0	4.1	13.9	32.1
30 - 35	25.2	3.0	6.5	15.6	36.3
35 - 40	32.4	8.6	6.9	16.9	38.4
40 - 45	17.1	1.7	3.5	12.0	35.2
45 - 50	15.3	0.0	3.3	12.0	21.3
50 - 55	18.4	9.8	2.7	5.9	22.3

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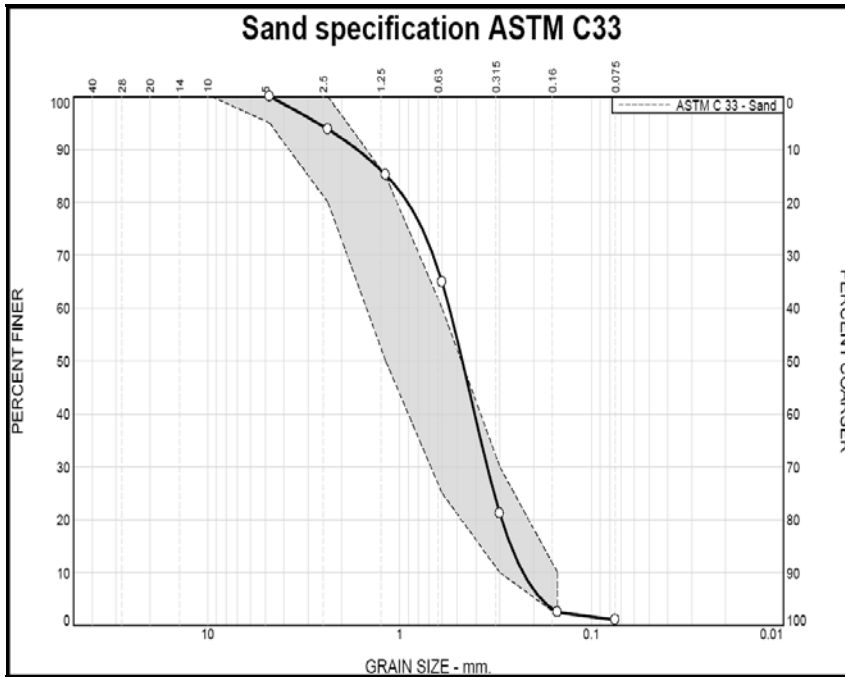
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G3500

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	6.2	93.8	80 - 100
No. 16	8.6	85.2	50 - 85
No. 30	20.3	64.9	25 - 60
No. 50	43.7	21.2	10 - 30
No. 100	18.7	2.5	2 - 10
No. 200	1.4	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	3.8		
Percent Gravel 1.5 to 0.75 inches	4.5		
Percent Gravel 0.75 inch to #4 sieve	10.3		
<b>Total Percent Gravel</b>		<b>18.7</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	8.6	1.4	2.0	33.4
10 - 15	14.5	7.5	1.4	30.2
15 - 20	22.9	8.3	5.5	32.9
20 - 25	12.3	0.9	5.2	29.9
25 - 30	17.9	3.2	5.1	33.3
30 - 35	20.1	0.0	8.3	32.0
35 - 40	27.3	8.4	5.8	33.1
40 - 45	33.5	2.6	6.5	32.4
45 - 50	15.3	1.6	5.1	25.3
50 - 55	11.4	4.8	1.8	26.0
55 - 60	17.1	3.2	3.1	24.1
60 - 65	25.4	4.4	5.0	31.2

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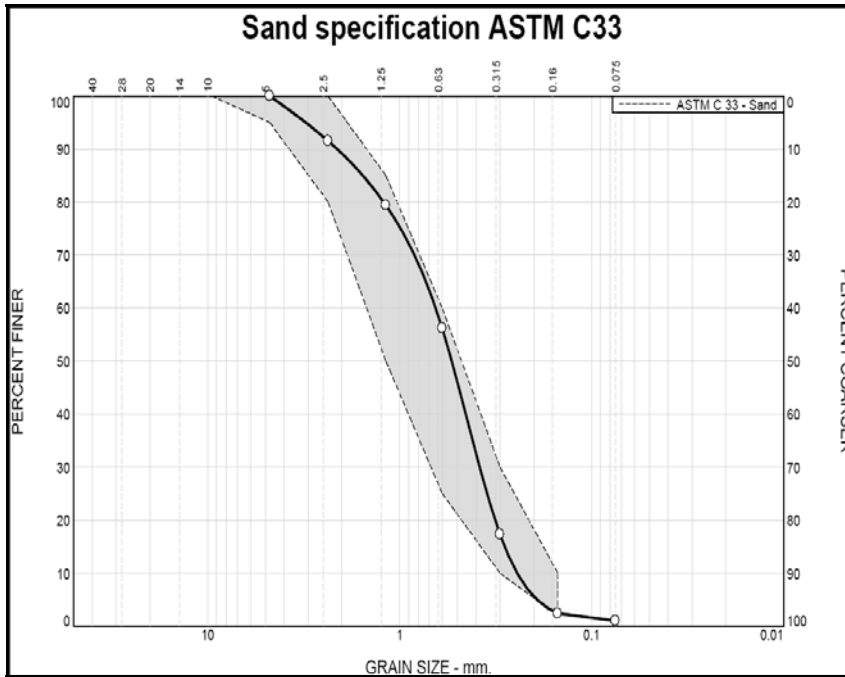
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. G3700

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	8.5	91.5	80 - 100
No. 16	12.2	79.4	50 - 85
No. 30	23.2	56.2	25 - 60
No. 50	38.9	17.3	10 - 30
No. 100	14.9	2.4	2 - 10
No. 200	1.4	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	4.8		
Percent Gravel 1.5 to 0.75 inches	4.4		
Percent Gravel 0.75 inch to #4 sieve	12.7		
<b>Total Percent Gravel</b>		<b>21.8</b>	

### 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	15.1	0.9	3.0	11.2	45.2
10 - 15	11.5	0.0	1.7	9.8	31.1
15 - 20	4.1	0.0	0.2	3.9	22.6
20 - 25	9.5	1.3	2.2	6.1	30.9
25 - 30	37.1	2.1	10.0	25.0	41.0
30 - 35	40.3	17.9	6.4	16.1	37.6
35 - 40	33.8	10.3	5.1	18.4	30.7
40 - 45	17.9	5.3	4.8	7.8	28.0
45 - 50	34.6	12.1	6.4	16.1	40.0
50 - 55	14.2	1.0	3.3	9.9	24.0
55 - 60	19.9	2.7	4.3	12.9	22.5
60 - 65	26.8	5.6	5.5	15.7	25.3

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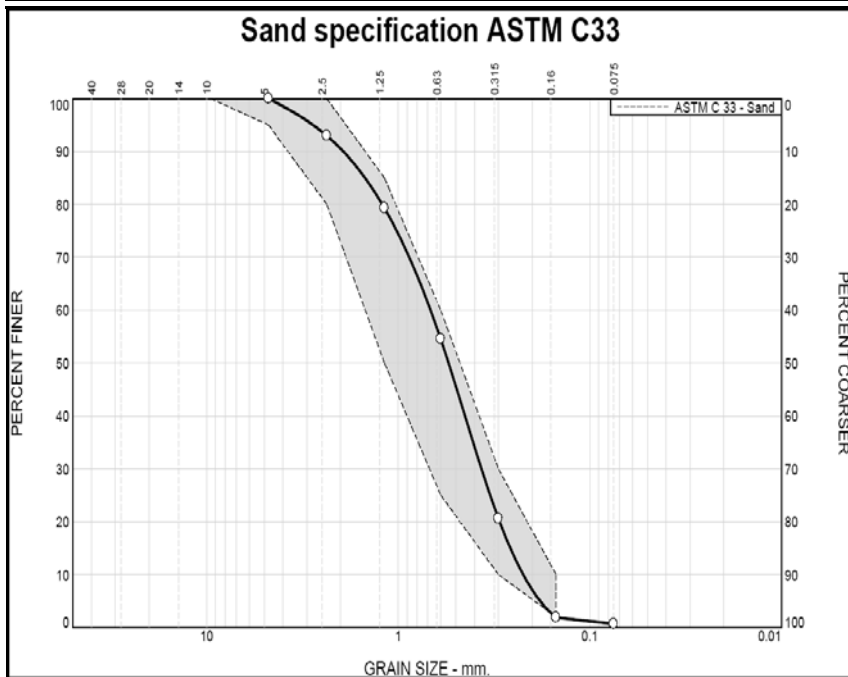
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0000

Page 1 of 1

### 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	7.0	93.0	80 - 100
No. 16	13.7	79.3	50 - 85
No. 30	24.8	54.5	25 - 60
No. 50	34.0	20.6	10 - 30
No. 100	18.7	1.8	2 - 10
No. 200	1.2	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	0.3		
Percent Gravel 1.5 to 0.75 inches	1.6		
Percent Gravel 0.75 inch to #4 sieve	8.4	<b>Total Percent Gravel</b>	<b>10.3</b>

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	4.0	0.0	0.6	26.1
10 - 15	3.5	0.0	0.8	18.6
15 - 20	7.8	0.0	1.1	20.3
20 - 25	17.1	1.6	3.4	27.2
25 - 30	16.6	0.0	4.0	26.1
30 - 35	15.0	0.0	0.3	23.0

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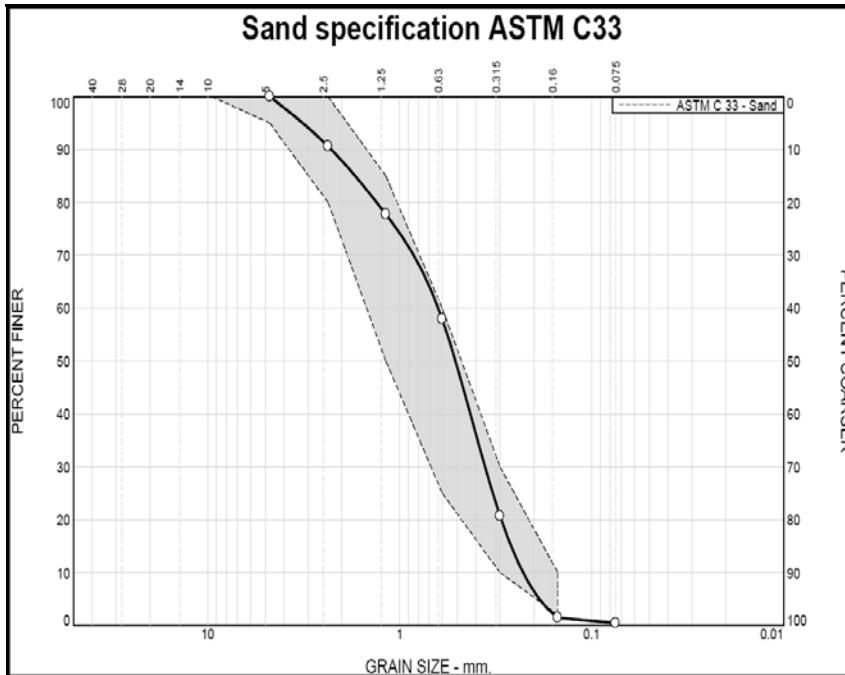
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0200

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	9.4	90.6	80 - 100
No. 16	12.9	77.7	50 - 85
No. 30	19.8	57.9	25 - 60
No. 50	37.2	20.7	10 - 30
No. 100	19.2	1.5	2 - 10
No. 200	1.0	0.4	
Pan	0.4		

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

Percent Gravel + 1.5 inch	0.4		
Percent Gravel 1.5 to 0.75 inches	2.1	<b>Total Percent Gravel</b>	<b>13.5</b>
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	0.75 inch to #4	
3.5 - 10	12.2	2.3	3.3	6.6	32.9
10 - 15	8.7	0.0	2.1	6.6	20.3
15 - 20	5.1	0.0	1.8	3.3	19.5
20 - 25	5.1	0.0	0.8	4.3	20.9
25 - 30	21.6	0.0	2.5	19.1	26.4
30 - 35	28.6	0.0	1.9	26.7	35.1

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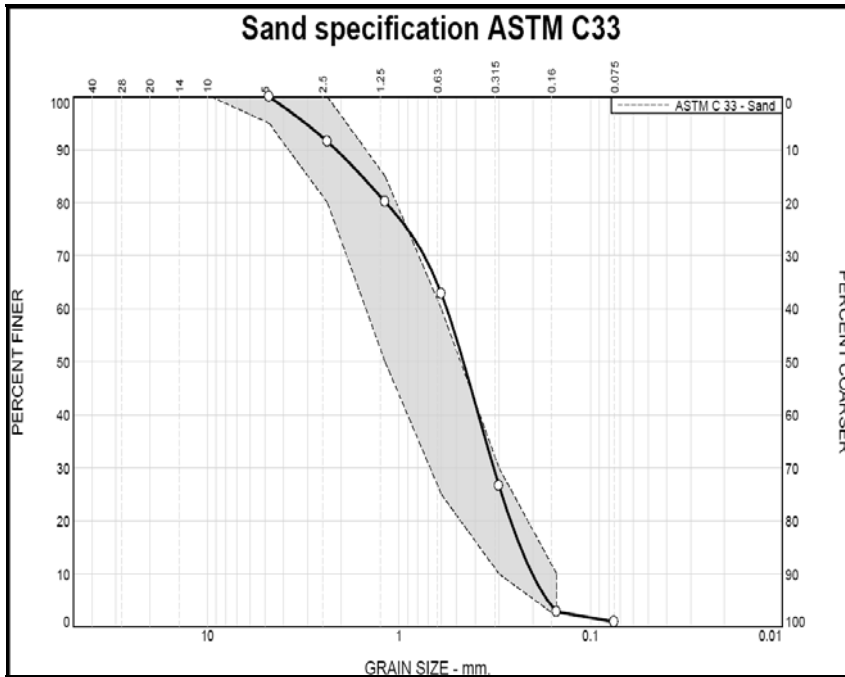
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0400

Page 1 of 1

### 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	8.4	91.6	80 - 100
No. 16	11.4	80.2	50 - 85
No. 30	17.3	62.9	25 - 60
No. 50	36.2	26.6	10 - 30
No. 100	23.8	2.8	2 - 10
No. 200	1.9	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	1.1		
Percent Gravel 1.5 to 0.75 inches	2.4		
Percent Gravel 0.75 inch to #4 sieve	7.8		
<b>Total Percent Gravel</b>		<b>11.3</b>	

### 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	11.0	5.3	0.8	4.9	27.0
10 - 15	1.4	0.0	0.0	1.4	22.6
15 - 20	1.0	0.0	0.0	1.0	20.2
20 - 25	11.2	1.8	1.1	8.2	23.1
25 - 30	15.5	0.0	3.1	12.5	24.9
30 - 35	13.5	0.0	3.1	10.4	28.0
35 - 40	16.1	0.0	3.4	12.7	24.0
40 - 45	7.7	1.3	2.3	4.0	25.0
45 - 50	24.3	1.5	7.8	15.0	18.8

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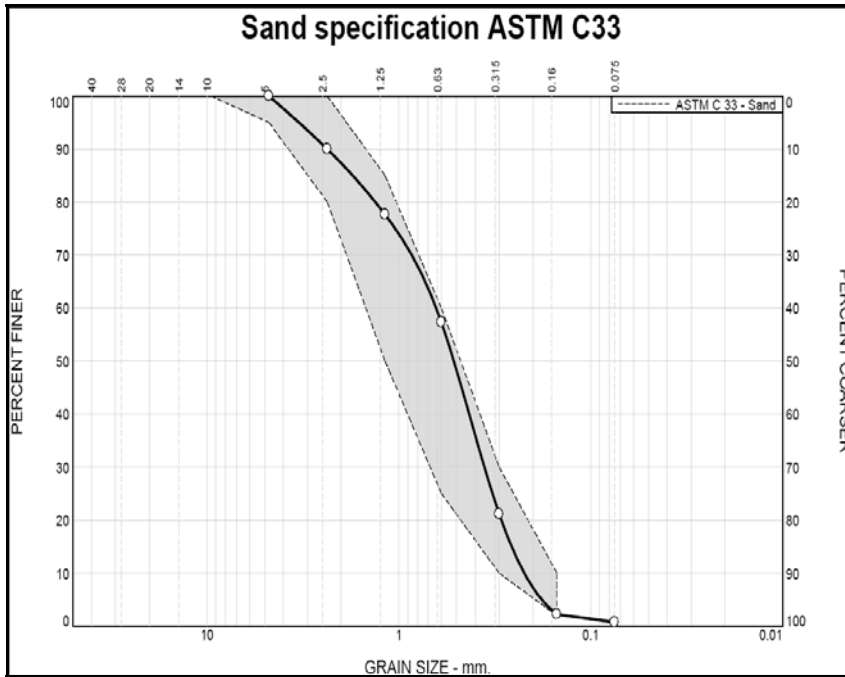
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0600

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 57 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	12.3	77.6	50 - 85
No. 30	20.3	57.3	25 - 60
No. 50	36.2	21.1	10 - 30
No. 100	18.9	2.2	2 - 10
No. 200	1.5	0.7	
Pan	0.7		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 57 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	2.8		
Percent Gravel 0.75 inch to #4 sieve	15.5		
<b>Total Percent Gravel</b>		<b>20.9</b>	

### 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	
3 - 5	14.8	0.0	2.4	12.4	13.3
5 - 10	2.6	0.0	0.4	2.2	26.5
10 - 15	3.4	0.0	0.7	2.7	18.2
15 - 20	3.4	0.0	1.2	2.2	21.6
20 - 25	18.0	4.1	3.9	10.0	25.8
25 - 30	28.5	10.0	3.1	15.4	25.9
30 - 35	27.3	6.2	3.6	17.5	25.1
35 - 40	20.4	5.7	2.5	12.3	25.0
40 - 45	24.1	0.7	4.3	19.1	25.2
45 - 50	27.2	0.0	2.0	25.1	22.4
50 - 57	46.7	1.2	5.6	39.9	40.0

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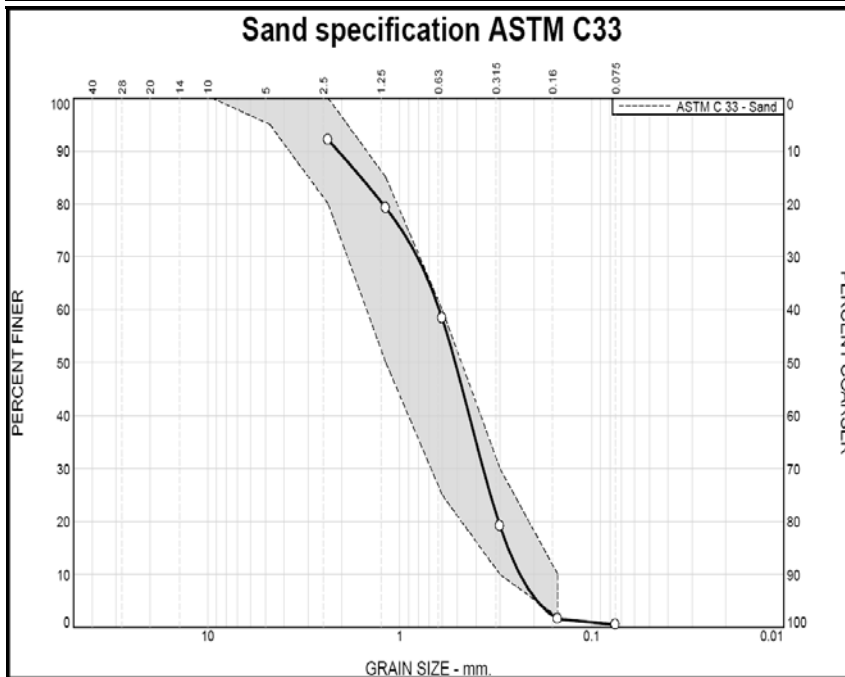
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0700

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 41 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	12.9	79.2	50 - 85
No. 30	20.8	58.4	25 - 60
No. 50	39.2	19.1	10 - 30
No. 100	17.5	1.6	2 - 10
No. 200	1.1	0.5	
Pan	0.5		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 41 feet

Percent Gravel + 1.5 inch	5.2		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	11.2		
<b>Total Percent Gravel</b>		<b>20.4</b>	

### 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	15.5	2.1	5.0	48.9
10 - 15	16.7	3.1	4.8	31.8
15 - 20	15.4	10.6	1.1	26.1
20 - 25	21.3	3.6	5.3	32.9
25 - 30	24.2	5.1	5.7	29.1
30 - 35	28.4	8.0	3.2	29.0
35 - 41	23.2	5.4	1.8	22.7

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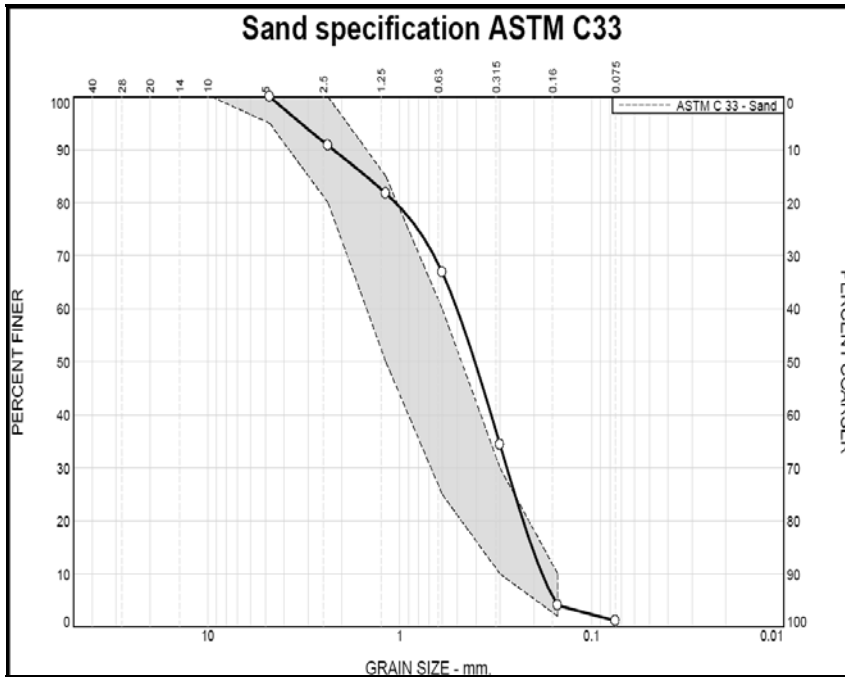


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG0800

Page 1 of 1

### 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	9.2	90.8	80 - 100
No. 16	9.0	81.8	50 - 85
No. 30	14.9	66.8	25 - 60
No. 50	32.5	34.3	10 - 30
No. 100	30.4	3.9	2 - 10
No. 200	2.9	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	0.2		
Percent Gravel 1.5 to 0.75 inches	1.9	<b>Total Percent Gravel</b>	<b>12.5</b>
Percent Gravel 0.75 inch to #4 sieve	10.4		

### 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	
3 - 10	13.9	0.0	2.4	11.4	35.0
10 - 15	4.9	0.0	0.7	4.2	20.7
15 - 20	2.4	0.0	0.4	1.9	20.5
20 - 25	1.9	0.0	0.0	1.9	17.1
25 - 30	24.7	0.0	4.8	19.9	28.6
30 - 35	26.4	1.2	2.6	22.6	26.9

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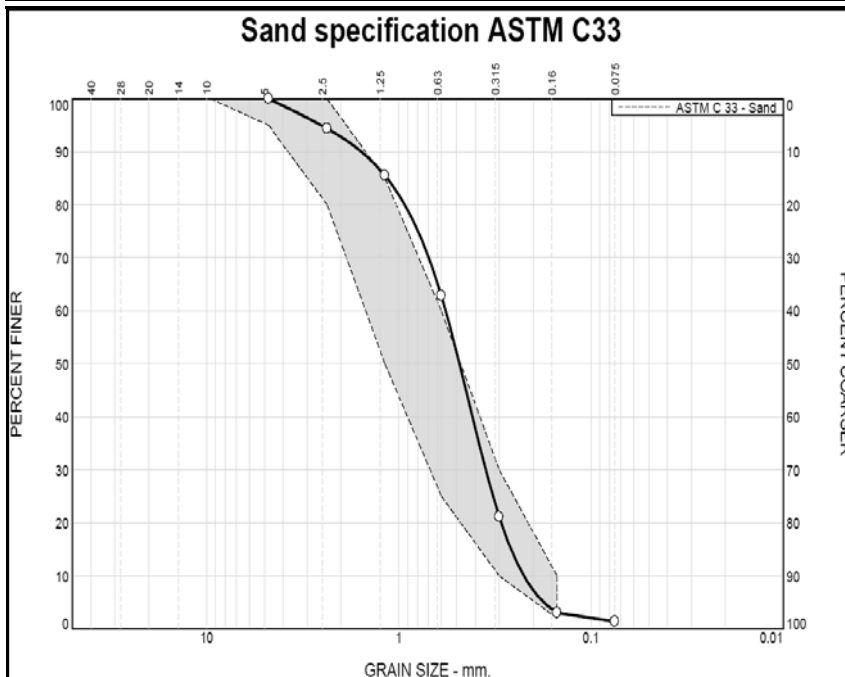
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG1000

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	5.6	94.4	80 - 100
No. 16	8.9	85.5	50 - 85
No. 30	22.7	62.8	25 - 60
No. 50	41.8	20.9	10 - 30
No. 100	18.1	2.8	2 - 10
No. 200	1.7	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	6.5		
Percent Gravel 1.5 to 0.75 inches	5.8	<b>Total Percent Gravel</b>	<b>20.6</b>
Percent Gravel 0.75 inch to #4 sieve	8.3		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	10.8	1.4	3.7	23.7
10 - 15	20.6	2.7	7.0	29.7
15 - 20	26.2	6.0	9.7	28.9
20 - 25	28.5	17.8	3.6	29.3

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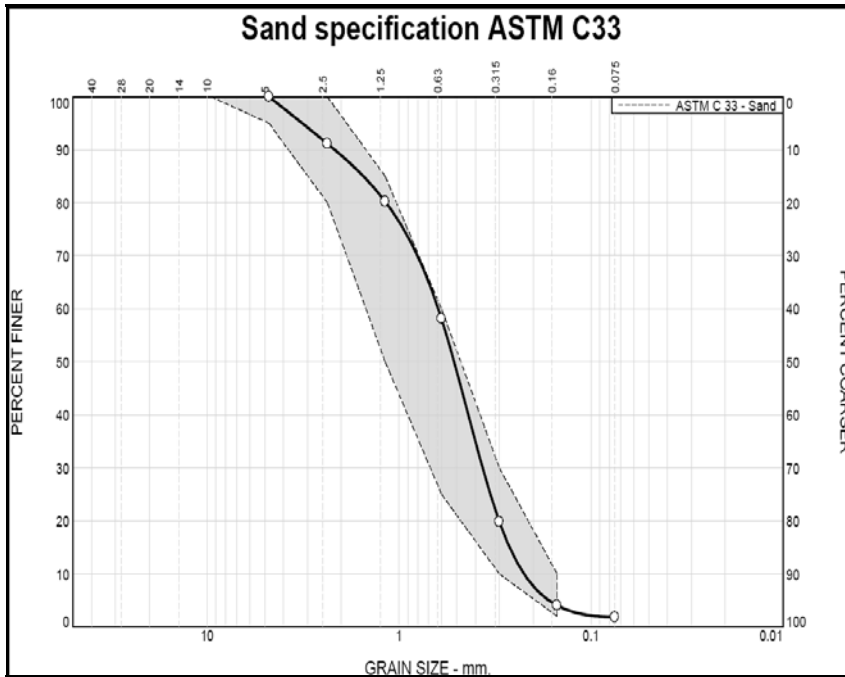
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG1200

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 38 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	10.9	80.2	50 - 85
No. 30	22.1	58.1	25 - 60
No. 50	38.3	19.8	10 - 30
No. 100	15.8	4.0	2 - 10
No. 200	2.2	1.8	
Pan	1.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 38 feet

Percent Gravel + 1.5 inch	6.5		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	11.5		
		<b>Total Percent Gravel</b>	<b>23.3</b>

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 - 10	10.0	1.7	2.5	5.7	21.8
10 - 15	17.6	5.7	5.3	6.6	25.8
15 - 20	27.9	5.4	9.0	13.5	29.1
20 - 25	23.5	6.7	5.5	11.2	22.2
25 - 30	28.4	5.2	3.4	19.8	31.4
30 - 38	25.7	10.3	5.2	10.2	41.1

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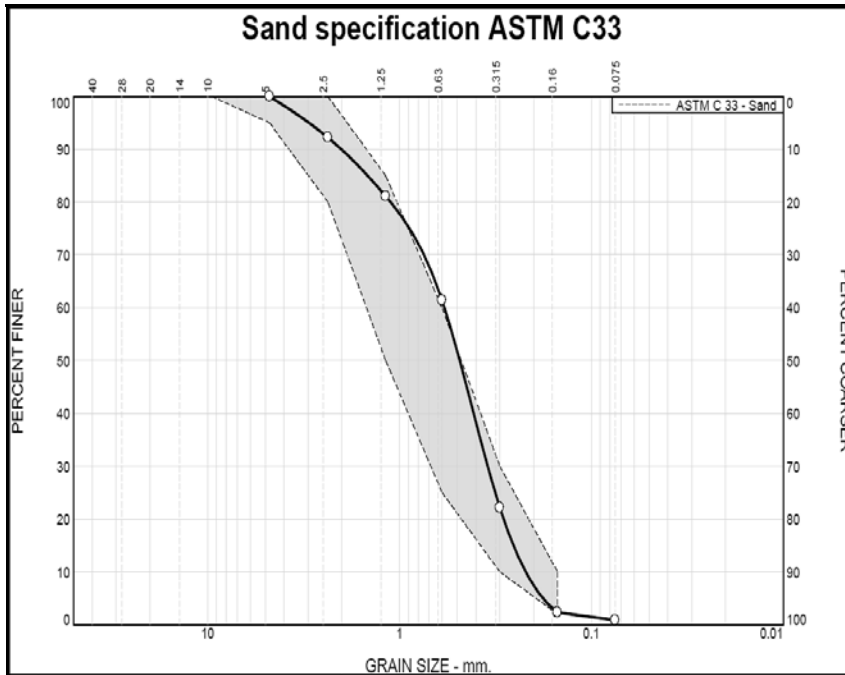
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG1600

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	7.8	92.2	80 - 100
No. 16	11.1	81.1	50 - 85
No. 30	19.7	61.4	25 - 60
No. 50	39.3	22.1	10 - 30
No. 100	19.8	2.3	2 - 10
No. 200	1.5	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	11.2		
<b>Total Percent Gravel</b>		<b>19.3</b>	

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	
4 - 15	7.9	0.0	3.3	4.6	30.5
15 - 20	8.4	0.0	3.1	5.2	32.8
20 - 25	24.6	1.0	3.3	20.3	31.5
25 - 30	21.5	7.1	5.7	8.8	40.7
30 - 35	25.6	0.5	5.2	19.9	32.5
35 - 40	28.7	12.6	5.1	11.0	32.1
40 - 45	13.1	0.0	2.9	10.2	27.0
45 - 50	18.6	1.6	7.2	9.7	30.1
50 - 55	29.1	13.3	4.8	10.9	33.6
55 - 60	22.5	2.2	4.4	16.0	28.9
60 - 65	26.5	9.1	3.1	14.3	30.7

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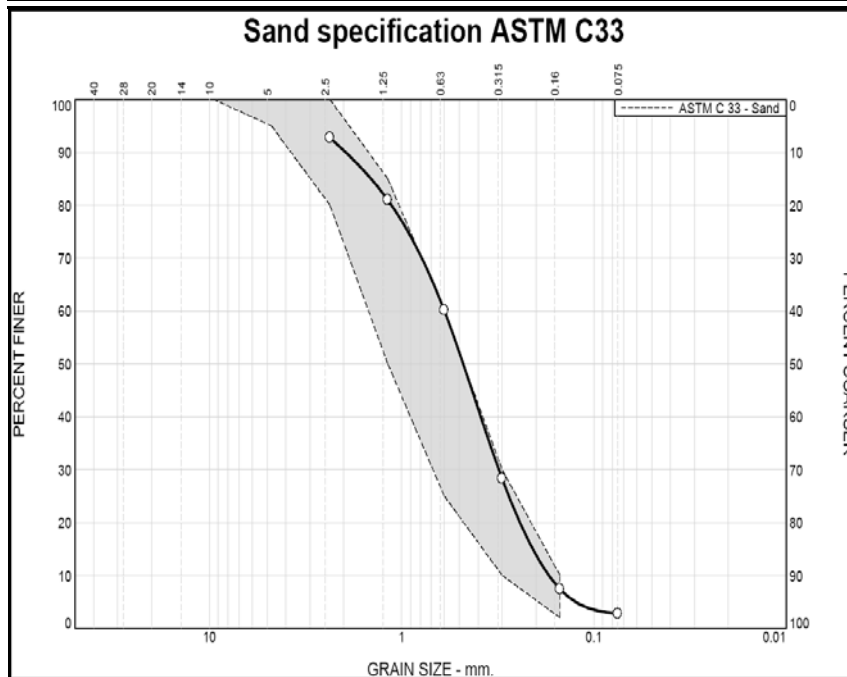
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG1700

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 85.5 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.2	92.8	80 - 100
No. 16	11.8	81.0	50 - 85
No. 30	20.9	60.1	25 - 60
No. 50	31.8	28.3	10 - 30
No. 100	20.9	7.4	2 - 10
No. 200	4.6	2.7	
Pan	2.7		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 85.5 feet

Percent Gravel + 1.5 inch	3.2		
Percent Gravel 1.5 to 0.75 inches	2.4		
Percent Gravel 0.75 inch to #4 sieve	7.8		
		<b>Total Percent Gravel</b>	<b>13.4</b>

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 - 20	11.6	3.5	3.1	5.0	33.9
20 - 30	10.6	1.8	2.9	5.8	29.6
30 - 40	20.4	6.3	2.2	11.9	46.7
40 - 50	16.0	4.1	2.9	9.0	32.6
50 - 60	10.7	3.2	0.8	6.7	37.4
60 - 70	3.2	0.0	0.5	2.7	37.2
70 - 80	6.4	0.0	0.7	5.8	38.4
80 - 86	41.6	9.5	8.8	23.3	65.0

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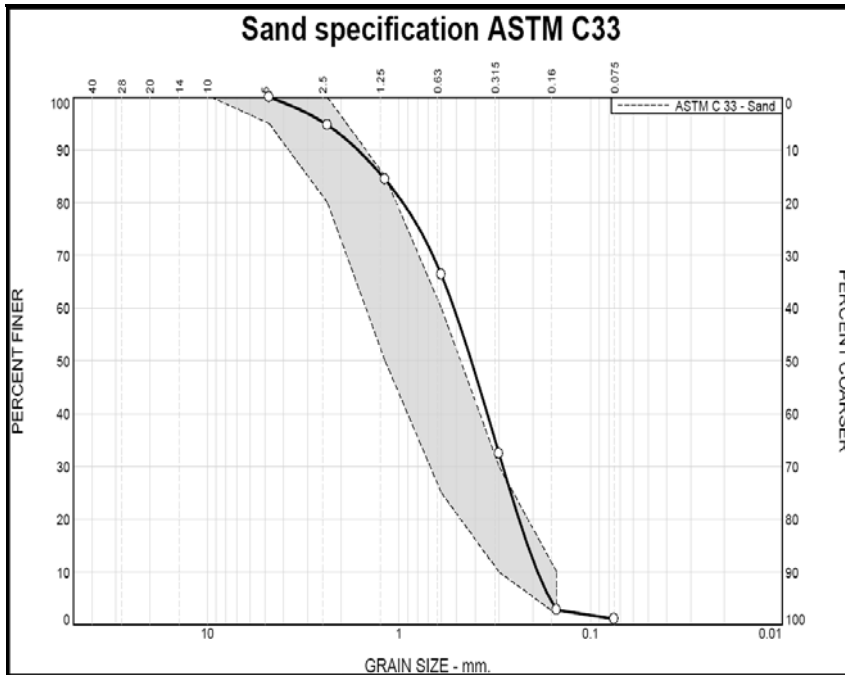
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG2400

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 8.5 to 65 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	10.3	84.4	50 - 85
No. 30	18.1	66.3	25 - 60
No. 50	33.9	32.4	10 - 30
No. 100	29.6	2.8	2 - 10
No. 200	1.7	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8.5 to 65 feet

Percent Gravel + 1.5 inch	3.6		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	9.9		
<b>Total Percent Gravel</b>		<b>17.1</b>	

### 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	
8.5 - 15	15.1	5.6	4.7	4.8	28.3
15 - 20	13.5	3.3	3.3	6.8	30.1
20 - 25	16.7	2.4	5.4	8.9	29.7
25 - 30	22.4	1.3	5.8	15.3	37.0
30 - 35	13.9	0.7	1.7	11.5	35.9
35 - 40	7.8	0.8	1.4	5.6	22.9
40 - 45	27.4	13.0	4.1	10.3	32.1
45 - 55	17.0	1.1	3.7	12.2	40.8
55 - 65	18.9	4.6	2.8	11.5	39.2

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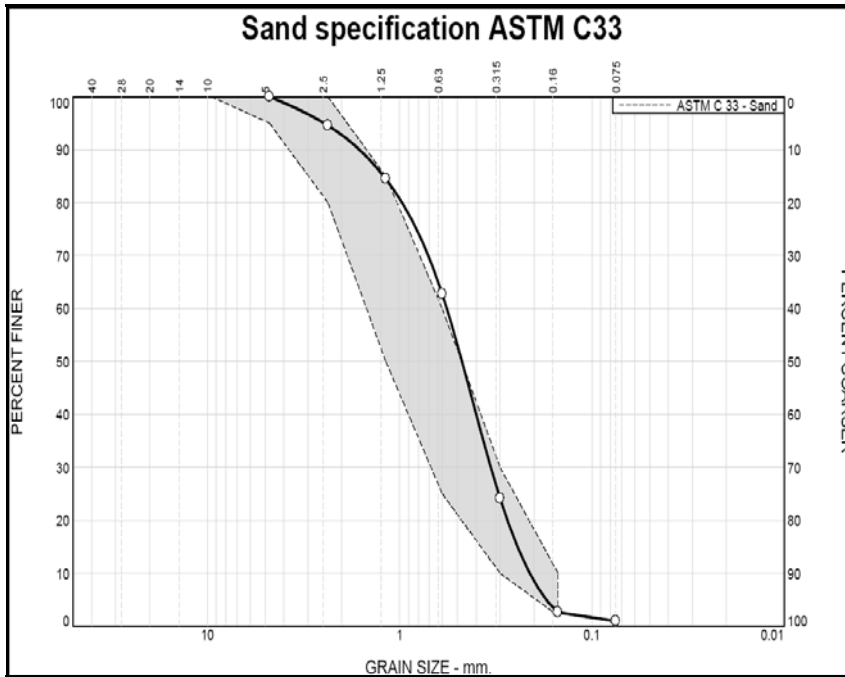
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG2600

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	5.4	94.6	80 - 100
No. 16	10.1	84.5	50 - 85
No. 30	21.7	62.7	25 - 60
No. 50	38.6	24.1	10 - 30
No. 100	21.5	2.6	2 - 10
No. 200	1.7	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	2.5		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	10.4		
		<b>Total Percent Gravel</b>	<b>16.4</b>

### 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 - 15	6.5	0.5	3.1	2.8	28.9
15 - 25	10.0	0.0	3.4	6.6	28.6
25 - 30	29.9	0.0	6.6	23.2	29.5
30 - 35	20.9	0.9	2.9	17.2	37.6
35 - 40	28.0	10.0	4.3	13.8	41.4
40 - 45	16.2	0.7	3.2	12.2	33.4
45 - 50	27.2	15.1	2.2	10.0	33.8
50 - 55	15.0	0.8	3.4	10.9	27.4
55 - 60	17.1	1.0	4.9	11.1	24.9
60 - 65	13.5	1.3	2.2	10.0	21.0

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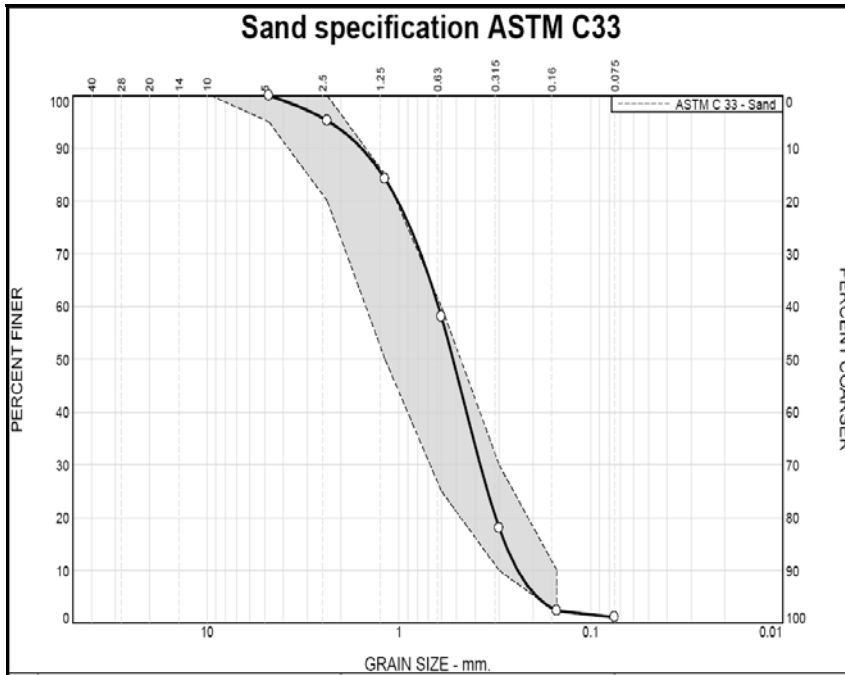
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG3000

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 10 to 45 feet



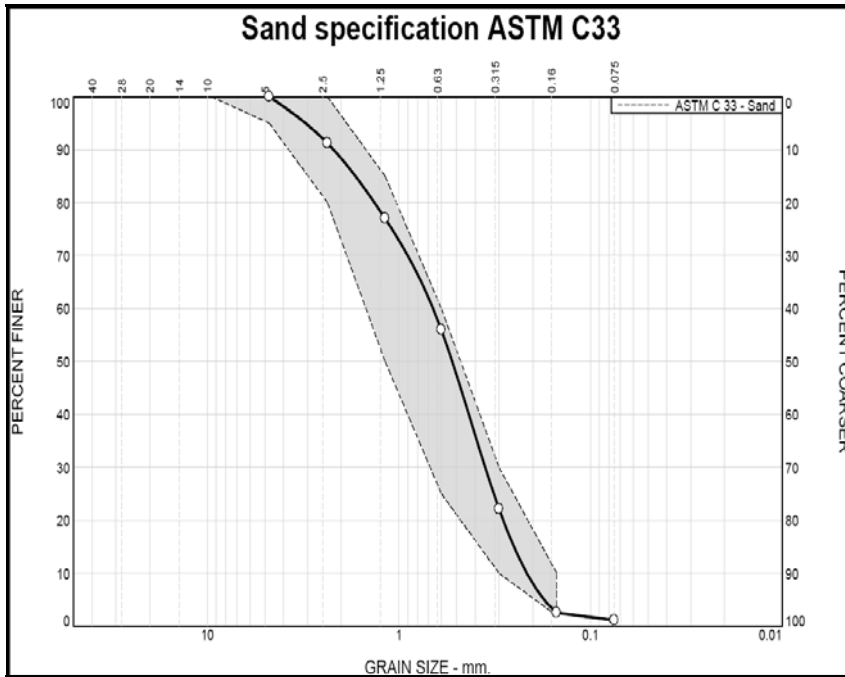


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG3200

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	8.8	91.2	80 - 100
No. 16	14.2	77.0	50 - 85
No. 30	21.0	56.0	25 - 60
No. 50	33.8	22.1	10 - 30
No. 100	19.6	2.5	2 - 10
No. 200	1.4	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	6.5		
Percent Gravel 1.5 to 0.75 inches	8.1		
Percent Gravel 0.75 inch to #4 sieve	15.9		
<b>Total Percent Gravel</b>		<b>30.5</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	7.5	0.0	5.2	27.6
10 - 15	38.4	18.4	10.5	36.2
15 - 20	45.5	11.7	14.3	38.4
20 - 25	31.2	2.9	8.8	28.1
25 - 30	37.3	5.9	5.6	47.5
30 - 35	30.7	5.1	7.7	40.7
35 - 40	32.2	3.9	5.8	27.5

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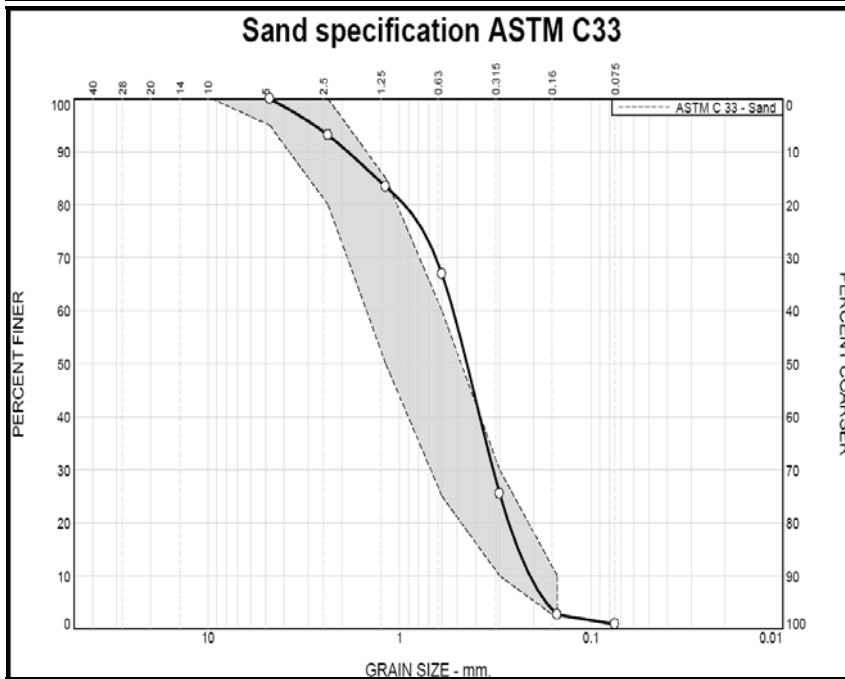
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. GG3400

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 11 to 40 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	9.7	83.4	50 - 85
No. 30	16.5	67.0	25 - 60
No. 50	41.5	25.5	10 - 30
No. 100	22.8	2.7	2 - 10
No. 200	1.8	0.9	
Pan	0.9		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 11 to 40 feet

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	12.6		
<b>Total Percent Gravel</b>		<b>19.9</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
11 - 25	3.8	0.0	1.1	38.3
25 - 30	35.2	2.4	7.9	34.9
30 - 40	34.8	6.2	8.2	39.7

## ProSource

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Geological Assessment, UMore Park

Prepared for the Board of Regents  
of the University of Minnesota

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