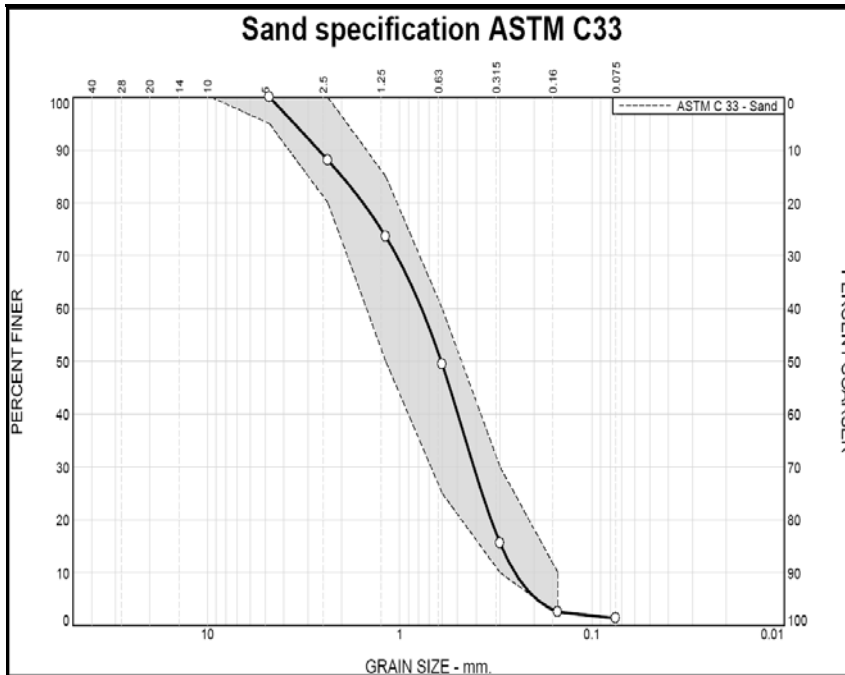


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K0100

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 30 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.9	88.1	80 - 100
No. 16	14.4	73.6	50 - 85
No. 30	24.2	49.5	25 - 60
No. 50	33.9	15.5	10 - 30
No. 100	13.0	2.6	2 - 10
No. 200	1.2	1.3	
Pan	1.3		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 30 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	15.9		
<b>Total Percent Gravel</b>		<b>21.6</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
6 - 10	35.5	8.3	7.0	37.2
10 - 15	27.2	2.8	4.6	21.7
15 - 20	11.6	0.0	2.5	27.4
20 - 25	21.0	0.0	2.7	24.6
25 - 30	15.5	0.0	2.4	24.6

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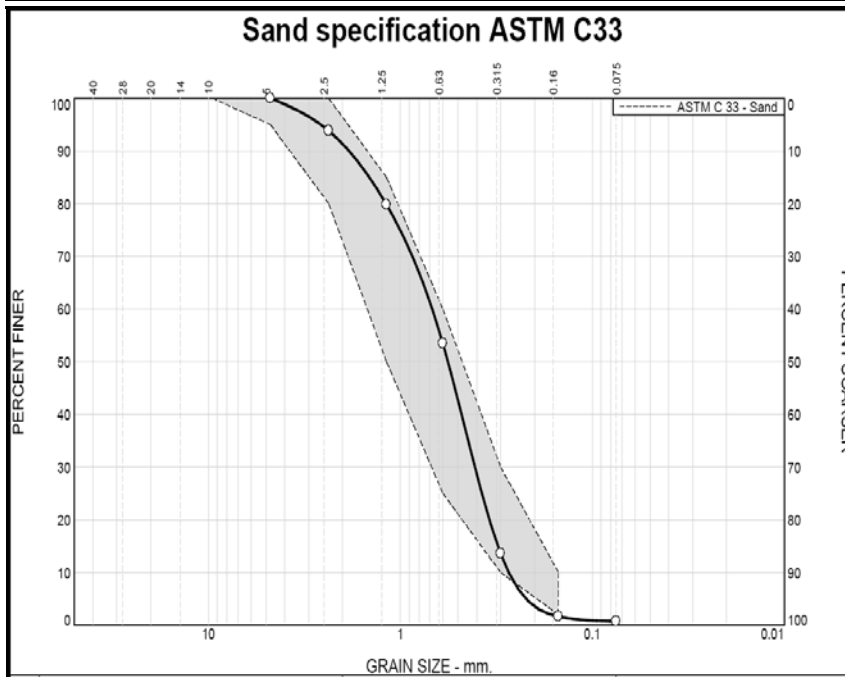
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K0200

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	6.2	93.8	80 - 100
No. 16	14.0	79.8	50 - 85
No. 30	26.4	53.5	25 - 60
No. 50	39.9	13.6	10 - 30
No. 100	11.9	1.7	2 - 10
No. 200	0.9	0.7	
Pan	0.7		

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

Percent Gravel + 1.5 inch	3.0		
Percent Gravel 1.5 to 0.75 inches	5.4		
Percent Gravel 0.75 inch to #4 sieve	13.3		
<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	
4 - 10	23.6	0.7	5.4	17.6	41.8
10 - 15	29.1	10.0	6.2	12.9	36.4
15 - 20	18.1	0.8	7.3	10.1	27.5
20 - 25	15.8	1.2	2.9	11.7	26.6

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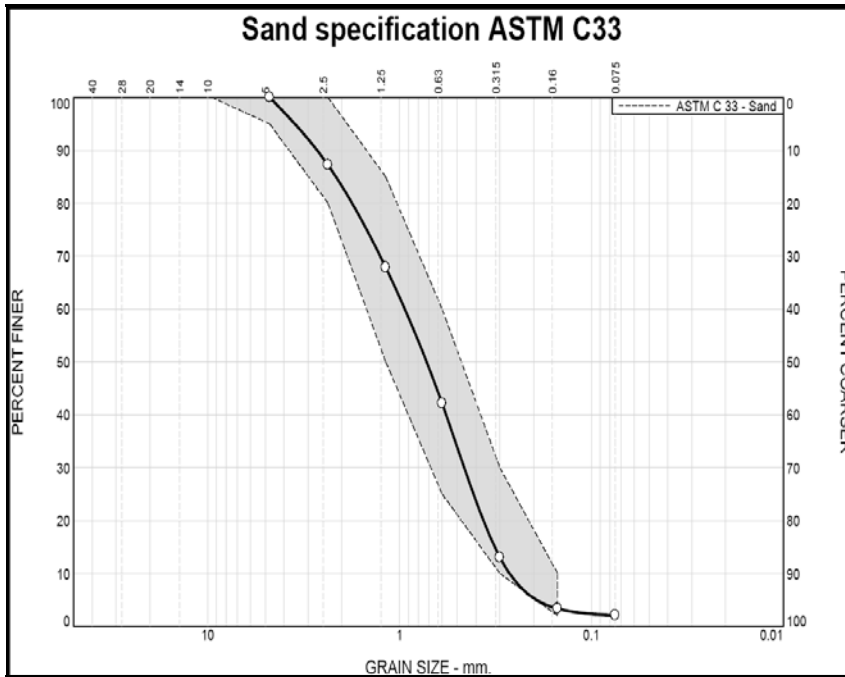
May 30, 2008 ProSource Project No. 1819-00

# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K0300

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 15 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	12.8	87.2	80 - 100
No. 16	19.4	67.9	50 - 85
No. 30	25.7	42.2	25 - 60
No. 50	29.2	13.0	10 - 30
No. 100	9.7	3.3	2 - 10
No. 200	1.3	2.1	
Pan	2.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 15 feet

Percent Gravel + 1.5 inch	4.5		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	16.4		
<b>Total Percent Gravel</b>		<b>24.9</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	31.8	2.8	10.6	28.8
10 - 15	20.8	5.6	0.0	22.0

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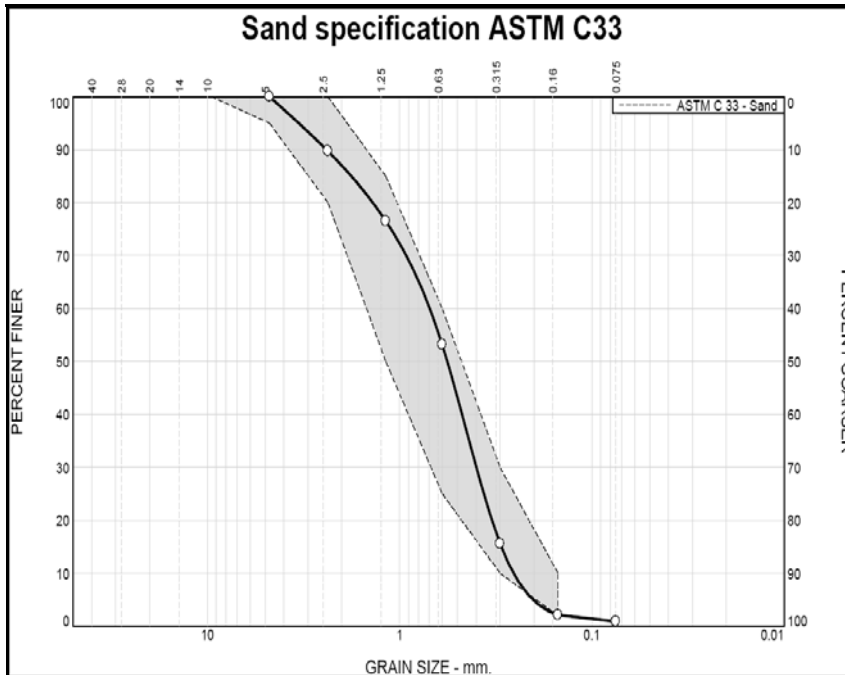
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K0500

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	10.3	89.7	80 - 100
No. 16	13.2	76.5	50 - 85
No. 30	23.3	53.2	25 - 60
No. 50	37.6	15.6	10 - 30
No. 100	13.5	2.1	2 - 10
No. 200	1.2	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	1.1		
Percent Gravel 1.5 to 0.75 inches	5.7	<b>Total Percent Gravel</b>	<b>20.4</b>
Percent Gravel 0.75 inch to #4 sieve	13.6		

### 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	33.8	4.1	11.2	18.4	24.7
10 - 15	23.7	0.0	10.0	13.8	22.2
15 - 20	12.8	0.0	2.4	10.3	17.7
20 - 25	20.8	2.6	4.8	13.4	21.8
25 - 30	12.8	1.0	3.4	8.5	19.3
30 - 35	20.1	0.0	3.4	16.7	14.2
35 - 40	18.8	0.0	4.8	14.0	14.2

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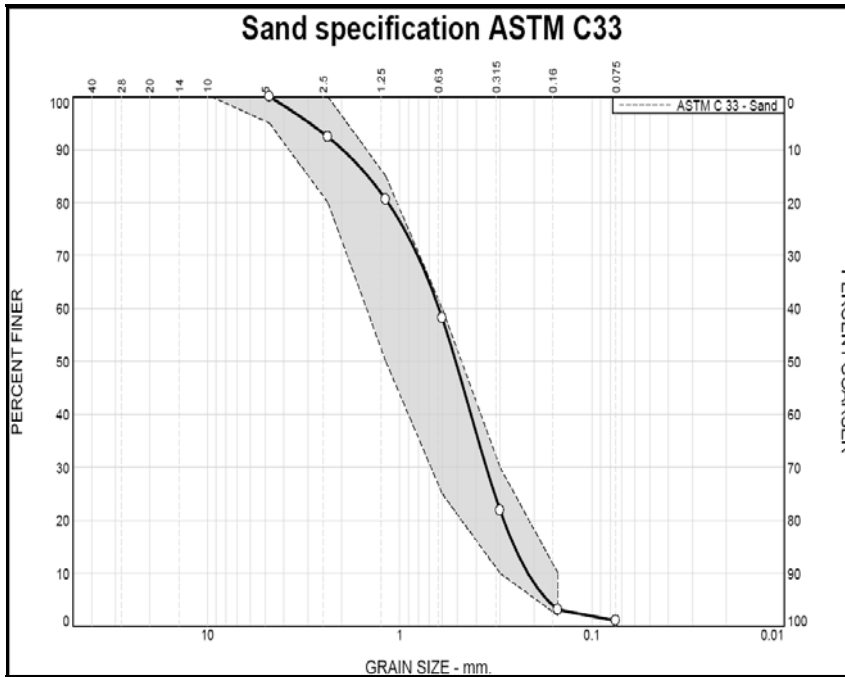
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K0700

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 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	11.8	80.6	50 - 85
No. 30	22.4	58.2	25 - 60
No. 50	36.3	21.9	10 - 30
No. 100	18.7	3.1	2 - 10
No. 200	2.1	1.0	
Pan	1.0		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 40 feet

Percent Gravel + 1.5 inch	3.5		
Percent Gravel 1.5 to 0.75 inches	4.0	<b>Total Percent Gravel</b>	<b>18.2</b>
Percent Gravel 0.75 inch to #4 sieve	10.7		

### 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	
2 - 10	16.7	3.4	5.0	8.3	38.6
10 - 15	36.3	4.1	9.0	23.2	27.1
15 - 20	8.7	0.0	1.2	7.5	24.7
20 - 25	13.7	0.0	3.3	10.4	30.9
25 - 30	21.6	12.1	3.3	6.2	24.4
30 - 35	12.7	0.0	3.0	9.6	20.9
35 - 40	18.4	4.9	2.7	10.8	31.2

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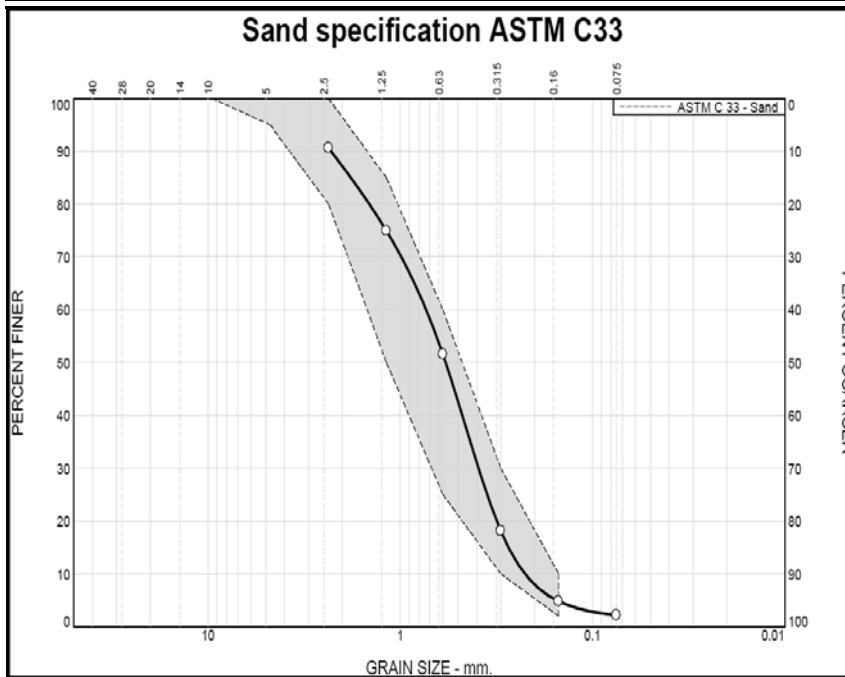


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K1200

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 77 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	15.7	75.0	50 - 85
No. 30	23.4	51.6	25 - 60
No. 50	33.4	18.1	10 - 30
No. 100	13.3	4.8	2 - 10
No. 200	2.7	2.2	
Pan	2.2		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 77 feet

Percent Gravel + 1.5 inch	2.5		
Percent Gravel 1.5 to 0.75 inches	4.1		
Percent Gravel 0.75 inch to #4 sieve	13.4		
<b>Total Percent Gravel</b>		<b>20.0</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	
6 - 10	19.5	5.0	4.5	10.0	34.2
10 - 20	17.7	1.4	3.3	13.0	52.2
20 - 40	16.7	1.9	3.1	11.7	48.7
40 - 45	4.3	0.0	0.4	4.0	31.9
45 - 50	21.5	3.6	4.1	13.7	32.4
50 - 55	20.9	0.7	5.9	14.3	26.5
55 - 60	35.0	6.5	8.0	20.5	34.5
60 - 65	33.0	1.8	7.6	23.6	35.9
65 - 70	31.1	4.3	5.8	20.9	37.4
70 - 77	14.9	3.5	2.8	8.5	34.1

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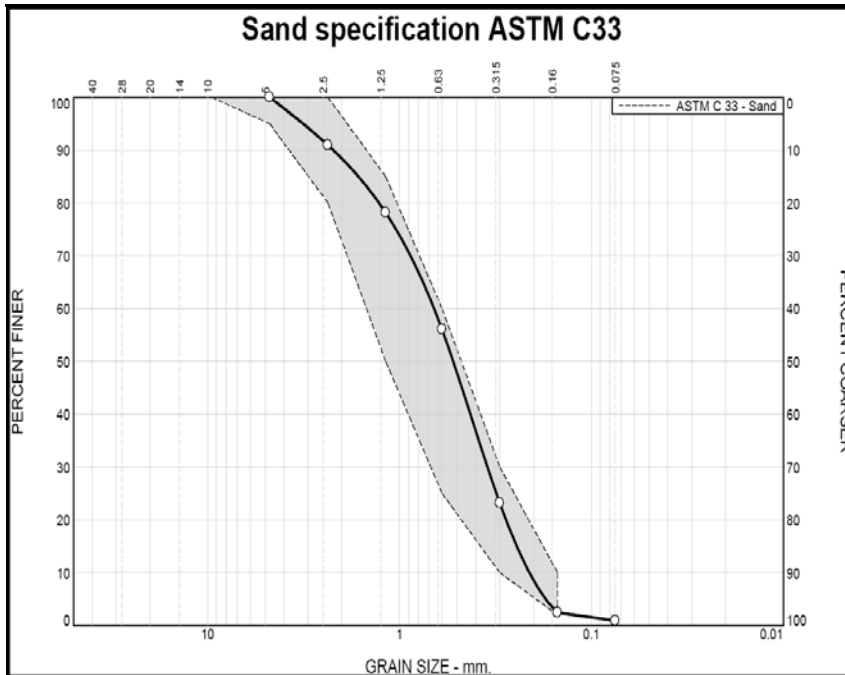
May 30, 2008 ProSource Project No. 1819-00

# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K1300

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.1	90.9	80 - 100
No. 16	12.8	78.2	50 - 85
No. 30	22.1	56.1	25 - 60
No. 50	32.9	23.2	10 - 30
No. 100	20.7	2.4	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	1.3		
Percent Gravel 1.5 to 0.75 inches	2.9		
Percent Gravel 0.75 inch to #4 sieve	10.7		
<b>Total Percent Gravel</b>		<b>14.9</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	
6 - 10	16.7	0.0	4.9	11.8	19.3
10 - 15	19.3	3.6	3.9	11.8	22.3
15 - 20	1.9	0.0	0.3	1.6	15.5
20 - 25	22.6	1.2	8.4	13.1	24.8
25 - 30	28.2	1.7	4.4	22.0	33.1
30 - 35	8.7	0.0	0.9	7.8	21.2
35 - 40	6.9	0.6	1.7	4.5	25.9
40 - 45	15.5	3.1	4.2	8.2	27.3
45 - 50	15.2	0.0	1.6	13.6	15.6
50 - 55	14.6	1.0	1.6	11.9	18.3
55 - 60	14.0	0.0	1.6	12.3	20.1
60 - 65	15.2	3.8	1.5	9.8	19.9

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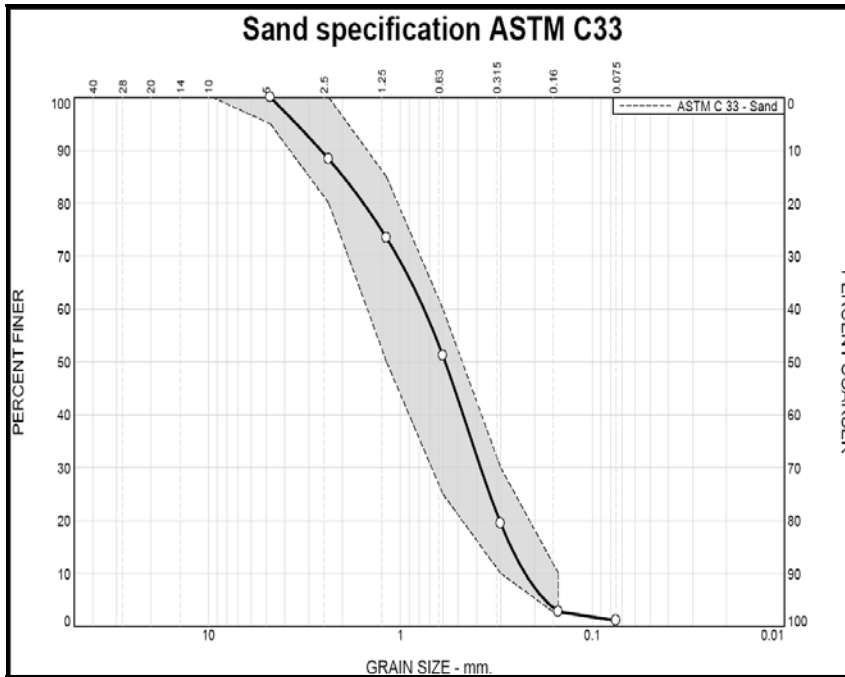


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K1500

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.7	88.3	80 - 100
No. 16	14.9	73.4	50 - 85
No. 30	22.3	51.2	25 - 60
No. 50	31.7	19.4	10 - 30
No. 100	16.7	2.7	2 - 10
No. 200	1.7	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	5.5		
Percent Gravel 1.5 to 0.75 inches	4.6		
Percent Gravel 0.75 inch to #4 sieve	12.9		
<b>Total Percent Gravel</b>		<b>23.0</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	41.8	14.3	14.1	13.4	23.9
10 - 15	2.8	0.0	0.0	2.8	27.3
15 - 20	8.6	0.0	1.7	6.9	22.4
20 - 25	10.4	0.0	2.9	7.5	25.9
25 - 30	15.6	1.3	5.1	9.2	28.9
30 - 35	23.0	0.0	5.0	18.0	22.7
35 - 40	27.1	8.4	2.8	15.9	27.3
40 - 45	35.0	18.8	2.6	13.6	32.9
45 - 50	31.5	12.3	5.0	14.2	28.3
50 - 55	32.5	3.9	7.4	21.1	27.8
55 - 60	34.5	7.1	6.7	20.7	19.6
60 - 65	13.5	0.0	1.8	11.8	21.8

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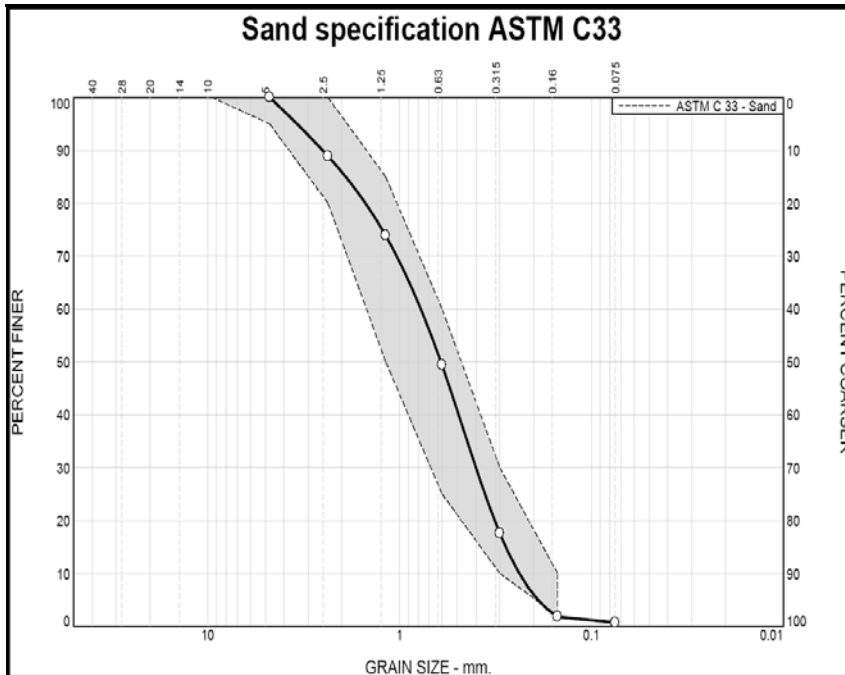
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K1700

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	11.1	88.9	80 - 100
No. 16	15.0	73.9	50 - 85
No. 30	24.5	49.4	25 - 60
No. 50	31.8	17.6	10 - 30
No. 100	15.8	1.8	2 - 10
No. 200	1.1	0.7	
Pan	0.7		

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

Percent Gravel + 1.5 inch	0.7		
Percent Gravel 1.5 to 0.75 inches	2.2	<b>Total Percent Gravel</b>	<b>15.3</b>
Percent Gravel 0.75 inch to #4 sieve	12.4		

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	7.1	1.1	0.6	5.3	30.8
15 - 25	8.4	1.2	2.1	5.1	31.6
25 - 30	18.6	0.7	1.8	16.1	28.4
30 - 35	20.6	2.0	2.5	16.0	33.8
35 - 40	19.9	0.8	3.6	15.5	35.0
40 - 45	21.2	0.0	4.6	16.7	25.0
45 - 50	22.6	0.9	1.0	20.6	26.6
50 - 55	19.6	0.0	0.8	18.7	23.8
55 - 60	14.5	0.0	2.0	12.5	22.0
60 - 65	16.4	0.0	4.7	11.6	22.9

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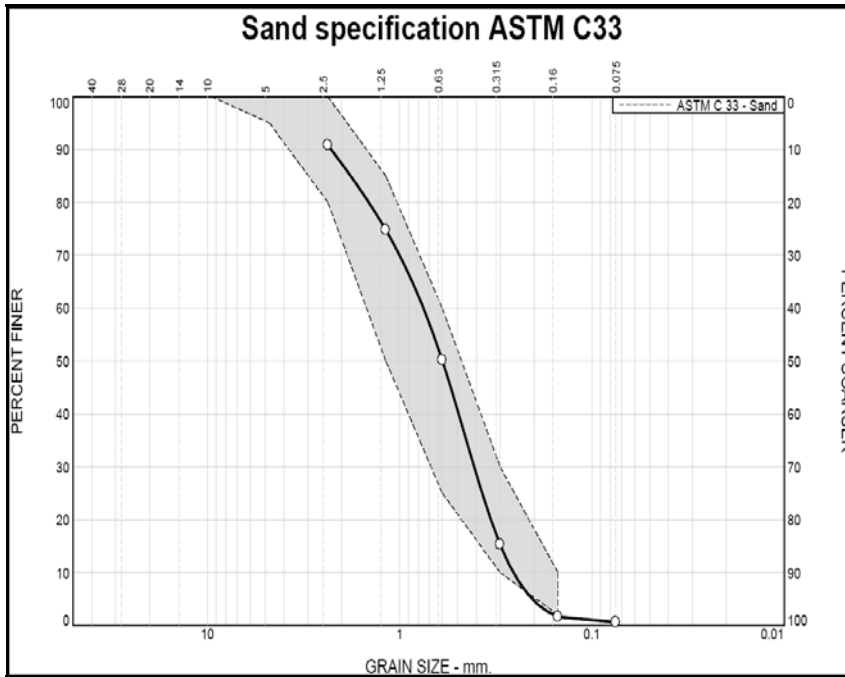
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K1800

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 65 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	16.0	74.8	50 - 85
No. 30	24.6	50.1	25 - 60
No. 50	34.9	15.3	10 - 30
No. 100	13.7	1.6	2 - 10
No. 200	1.0	0.6	
Pan	0.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 65 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	11.5		
		<b>Total Percent Gravel</b>	<b>17.7</b>

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4.5 - 15	4.2	0.0	0.2	3.9	24.8
15 - 25	13.9	5.3	4.6	4.1	27.1
25 - 30	16.9	0.0	4.1	12.9	33.8
30 - 35	18.1	2.7	3.6	11.8	35.0
35 - 40	21.8	2.5	4.6	14.8	38.0
40 - 45	30.9	8.4	6.7	15.8	38.3
45 - 50	24.9	0.0	5.1	19.8	36.1
50 - 55	24.5	5.1	2.0	17.5	30.2
55 - 60	24.4	3.7	3.3	17.4	28.6
60 - 65	15.9	0.0	2.8	13.0	26.0

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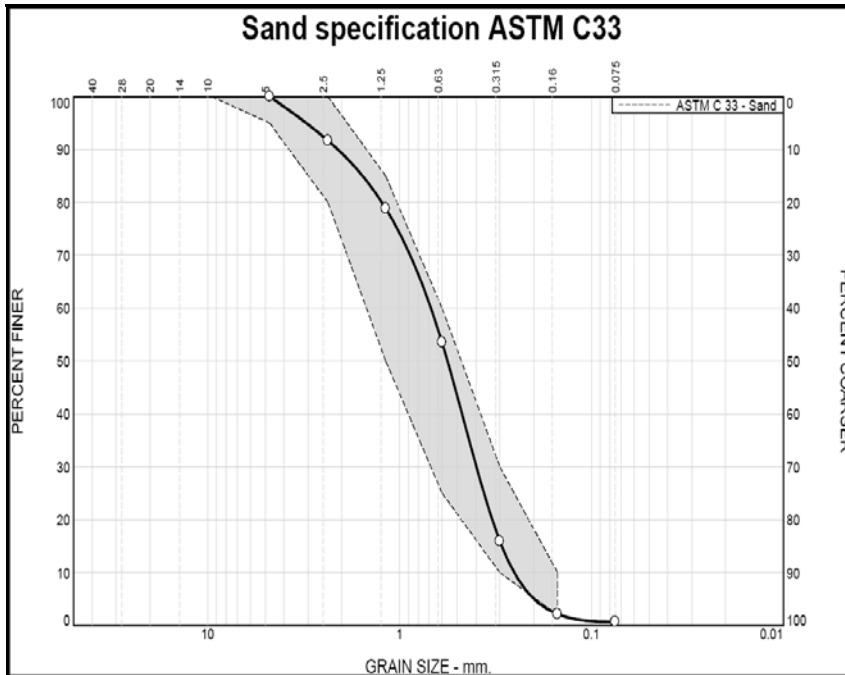
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K2100

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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	8.3	91.7	80 - 100
No. 16	12.8	78.9	50 - 85
No. 30	25.3	53.5	25 - 60
No. 50	37.6	15.9	10 - 30
No. 100	13.7	2.2	2 - 10
No. 200	1.5	0.7	
Pan	0.7		

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

Percent Gravel + 1.5 inch	4.6		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	9.1		
<b>Total Percent Gravel</b>		<b>18.3</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	
3 - 10	22.5	5.0	5.3	12.2	46.8
10 - 15	15.3	5.5	2.8	7.0	28.8
15 - 20	19.9	6.2	6.2	7.5	28.0
20 - 25	14.0	1.4	4.4	8.2	26.3

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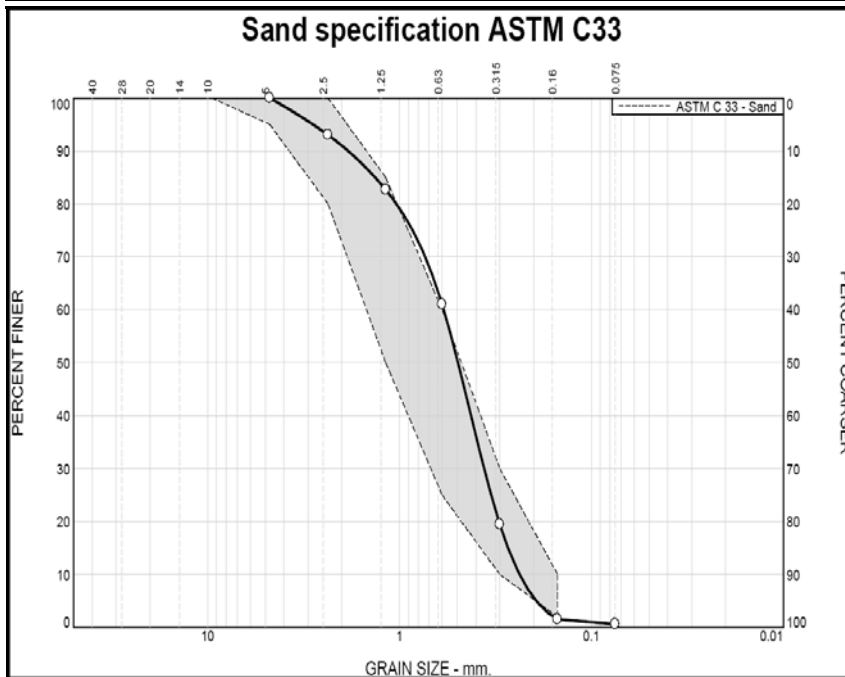
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K2500

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	7.0	93.0	80 - 100
No. 16	10.4	82.6	50 - 85
No. 30	21.6	61.1	25 - 60
No. 50	41.6	19.4	10 - 30
No. 100	17.9	1.5	2 - 10
No. 200	0.9	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	3.0		
Percent Gravel 0.75 inch to #4 sieve	8.8		
<b>Total Percent Gravel</b>		<b>14.6</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	18.4	0.9	5.0	37.4
10 - 15	11.2	0.8	2.3	25.9
15 - 20	10.3	0.8	3.3	25.0
20 - 25	18.5	9.0	2.4	24.9
25 - 35	5.1	0.0	1.0	29.6
35 - 45	12.6	3.8	2.9	30.8
45 - 50	17.7	7.1	3.9	29.9
50 - 55	20.8	6.2	5.0	31.3
55 - 62	23.3	0.0	2.7	46.5

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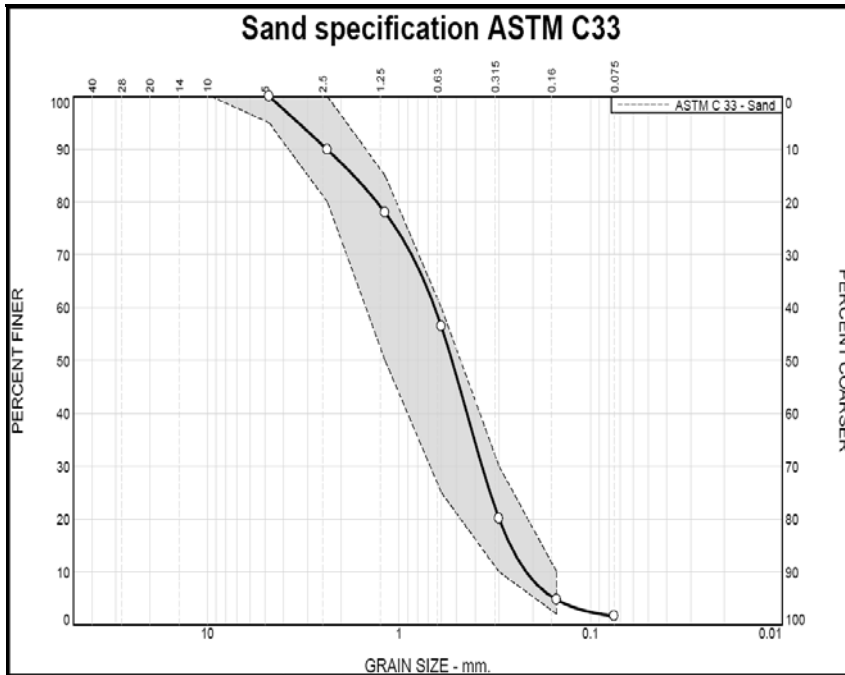
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K2700

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 50 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.1	89.9	80 - 100
No. 16	11.9	78.0	50 - 85
No. 30	21.5	56.5	25 - 60
No. 50	36.4	20.1	10 - 30
No. 100	15.3	4.7	2 - 10
No. 200	3.1	1.6	
Pan	1.6		

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

Percent Gravel + 1.5 inch	3.8		
Percent Gravel 1.5 to 0.75 inches	2.9	<b>Total Percent Gravel</b>	<b>18.7</b>
Percent Gravel 0.75 inch to #4 sieve	12.0		

### 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	
4 - 15	8.0	3.0	1.5	3.5	28.2
15 - 25	15.1	4.4	3.3	7.4	30.0
25 - 30	3.7	0.0	0.3	3.4	24.4
30 - 35	20.1	0.6	3.2	16.3	29.6
35 - 40	33.1	1.0	7.8	24.3	37.3
40 - 45	35.3	0.0	3.2	32.1	35.0
45 - 50	29.7	17.9	1.6	10.2	30.9

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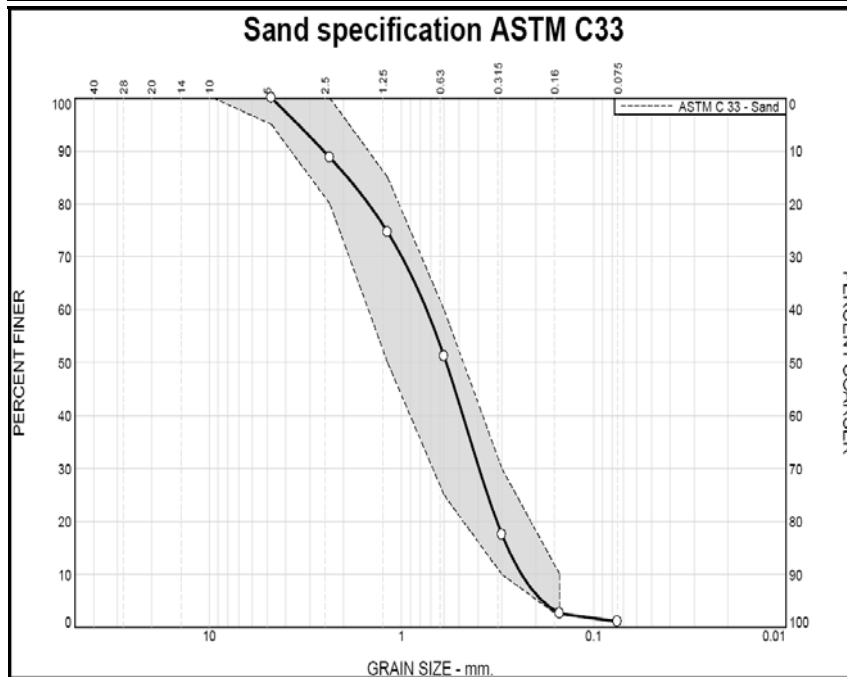
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K2900

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	11.2	88.8	80 - 100
No. 16	14.1	74.7	50 - 85
No. 30	23.4	51.2	25 - 60
No. 50	33.7	17.5	10 - 30
No. 100	14.9	2.6	2 - 10
No. 200	1.5	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	14.2		
<b>Total Percent Gravel</b>		<b>20.5</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 15	13.5	3.5	2.8	29.9
15 - 25	8.7	0.0	2.0	25.6
25 - 30	29.7	2.4	6.6	39.9
30 - 35	26.0	4.4	3.3	40.1
35 - 40	29.0	3.7	6.8	40.1
40 - 45	22.3	3.9	3.9	31.1
50 - 55	32.8	0.0	4.4	38.8

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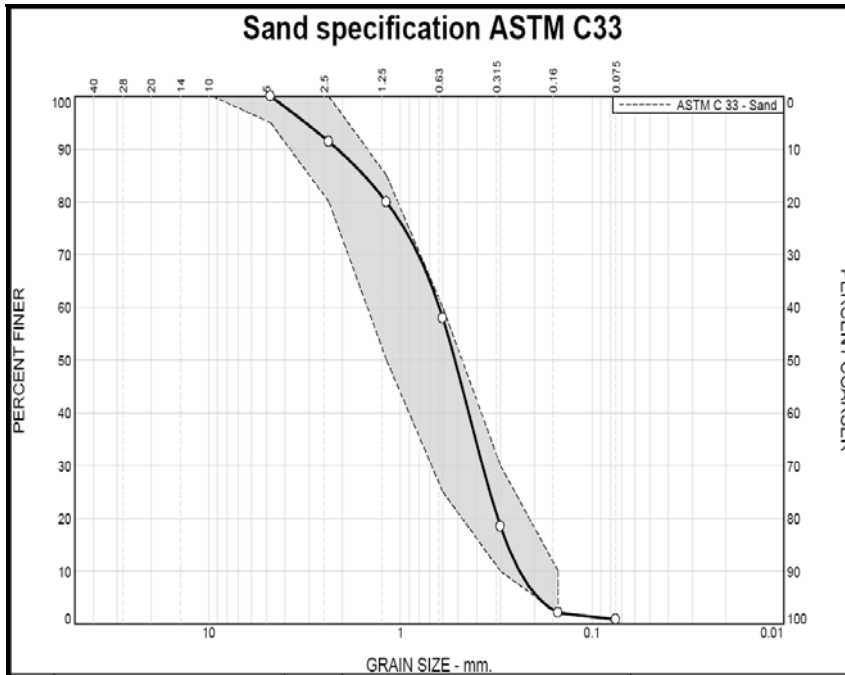
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K3100

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 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	11.5	79.9	50 - 85
No. 30	22.0	57.9	25 - 60
No. 50	39.5	18.4	10 - 30
No. 100	16.3	2.1	2 - 10
No. 200	1.3	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 2 to 65 feet

Percent Gravel + 1.5 inch	2.7		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	11.2		
<b>Total Percent Gravel</b>		<b>17.5</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	
2 - 15	11.7	1.3	1.4	9.0	38.0
15 - 25	9.3	1.0	3.4	4.9	28.8
25 - 30	20.9	3.1	6.0	11.8	27.7
30 - 35	20.1	10.6	1.1	8.5	28.5
35 - 40	27.5	8.3	5.7	13.5	36.8
40 - 45	26.3	5.8	8.5	12.1	27.7
45 - 50	23.0	1.3	5.7	16.1	30.7
50 - 55	14.1	0.0	0.8	13.2	24.5
55 - 60	21.1	0.0	4.8	16.3	29.6
60 - 65	17.7	0.0	1.1	16.6	18.6

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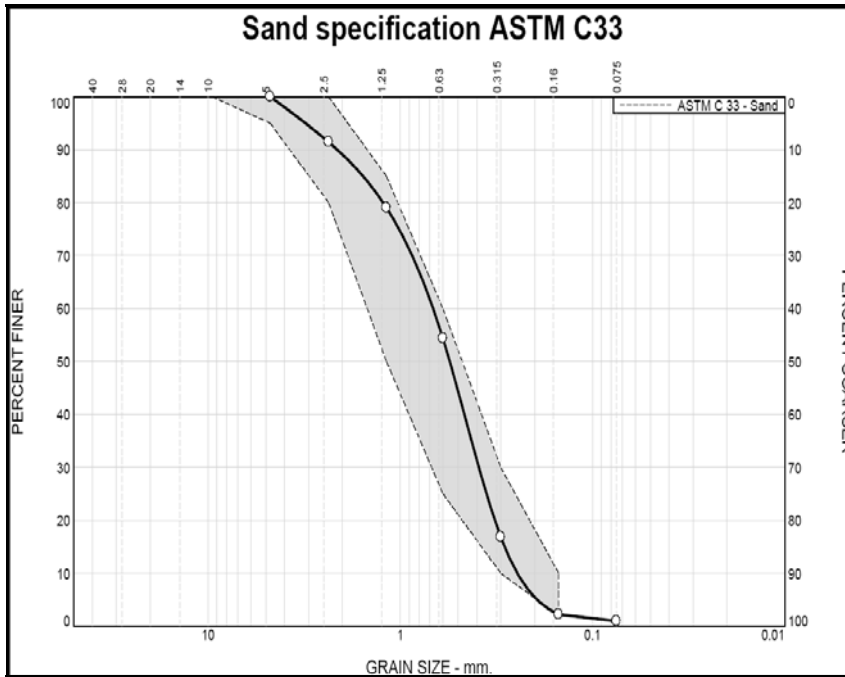


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K3300

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	8.6	91.4	80 - 100
No. 16	12.4	79.0	50 - 85
No. 30	24.7	54.4	25 - 60
No. 50	37.6	16.8	10 - 30
No. 100	14.6	2.2	2 - 10
No. 200	1.3	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	4.6		
Percent Gravel 1.5 to 0.75 inches	3.8		
Percent Gravel 0.75 inch to #4 sieve	10.5		
<b>Total Percent Gravel</b>		<b>19.0</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	
3.5 - 10	13.3	2.4	3.1	7.8	36.6
10 - 15	4.9	0.0	2.0	2.9	28.1
15 - 20	14.2	4.7	3.3	6.2	33.2
20 - 25	20.4	5.4	7.0	7.9	30.0
25 - 30	29.3	2.4	5.5	21.4	35.0
30 - 35	27.8	7.9	6.8	13.0	27.0
35 - 40	30.1	18.4	0.8	10.9	36.1
40 - 45	14.3	2.6	2.4	9.3	27.0
45 - 50	19.1	1.4	4.2	13.5	26.4
50 - 55	14.4	0.7	4.0	9.7	22.7
55 - 60	20.6	7.6	3.7	9.2	25.8
60 - 65	21.3	2.5	3.5	15.4	30.5

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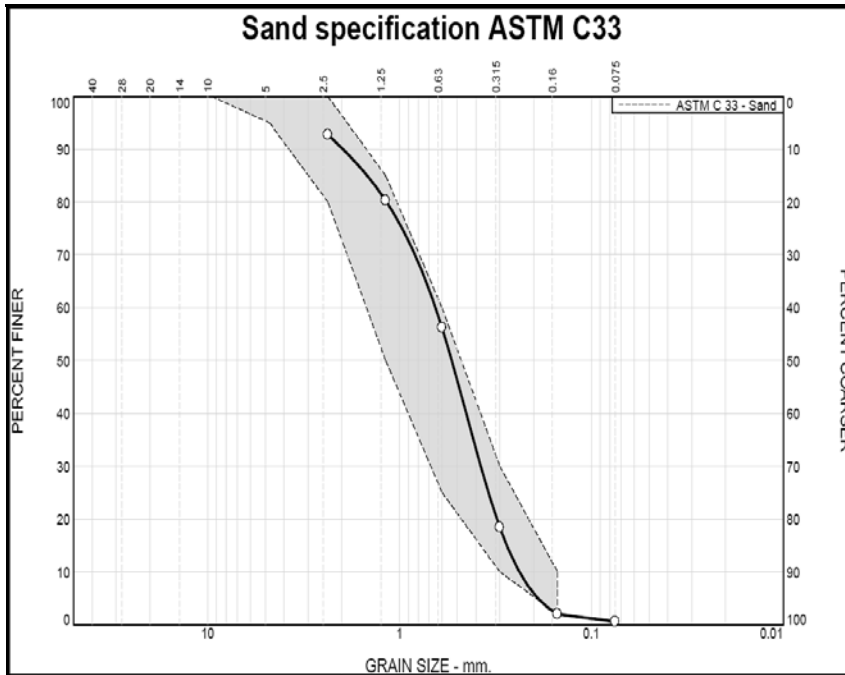
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K3400

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	7.2	92.8	80 - 100
No. 16	12.5	80.3	50 - 85
No. 30	24.1	56.2	25 - 60
No. 50	37.8	18.4	10 - 30
No. 100	16.4	2.0	2 - 10
No. 200	1.4	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	4.6	<b>Total Percent Gravel</b>	<b>17.6</b>
Percent Gravel 0.75 inch to #4 sieve	9.8		

### 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	
2.5 - 15	12.0	4.6	3.3	4.1	35.8
15 - 25	20.0	5.4	6.6	7.9	33.5
25 - 30	27.2	7.8	4.6	14.8	30.5
30 - 35	26.6	3.3	6.4	16.8	26.4
35 - 40	20.1	2.6	5.6	11.8	20.7
40 - 45	17.3	2.9	2.7	11.6	24.0
45 - 50	11.5	0.0	3.2	8.3	22.7
50 - 55	16.9	0.0	4.6	12.3	19.2
55 - 60	18.4	0.0	5.3	13.1	25.5
60 - 65	12.0	0.0	3.8	8.2	22.7

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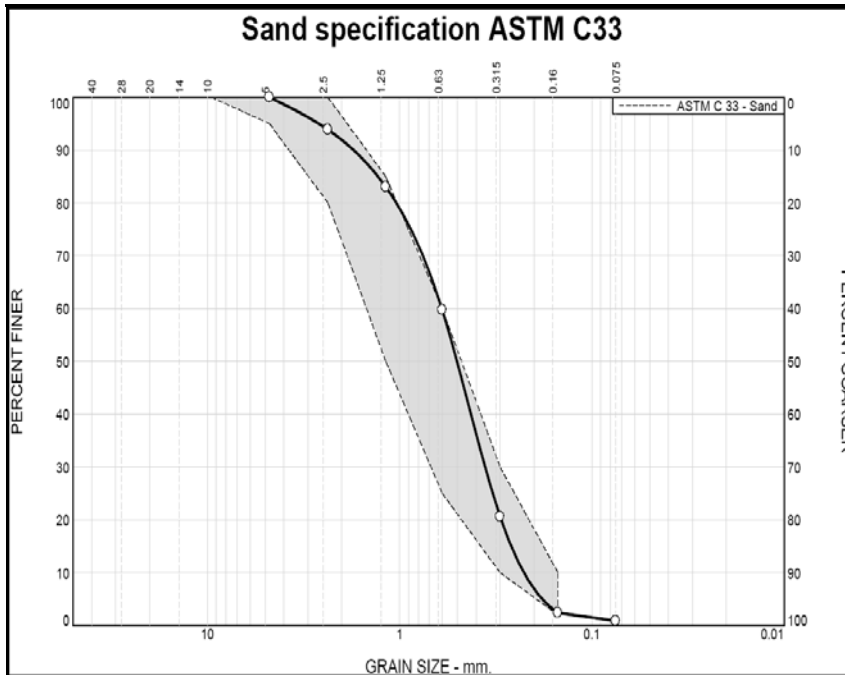
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K3500

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	6.1	93.9	80 - 100
No. 16	10.8	83.0	50 - 85
No. 30	23.3	59.8	25 - 60
No. 50	39.2	20.6	10 - 30
No. 100	18.2	2.4	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	4.7	
Percent Gravel 1.5 to 0.75 inches	4.3	
Percent Gravel 0.75 inch to #4 sieve	7.2	
<b>Total Percent Gravel</b>		<b>16.1</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	
3 - 10	9.5	0.0	4.6	4.9	38.3
10 - 15	17.4	2.9	4.6	9.9	33.0
15 - 20	14.5	0.6	5.7	8.2	36.7
20 - 25	25.8	17.1	2.2	6.5	29.9

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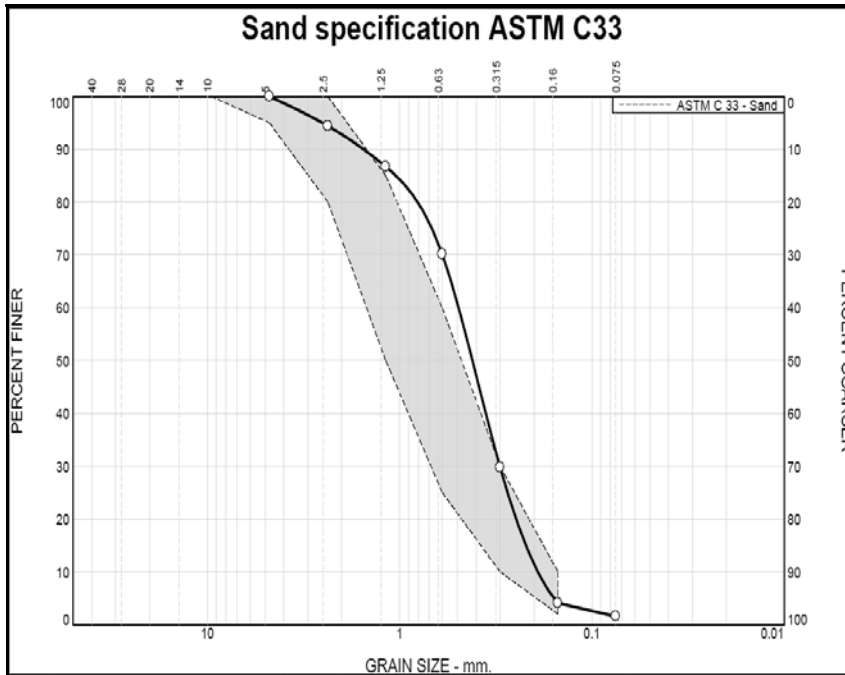
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. K3700

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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	5.6	94.4	80 - 100
No. 16	7.7	86.7	50 - 85
No. 30	16.6	70.1	25 - 60
No. 50	40.4	29.8	10 - 30
No. 100	25.7	4.1	2 - 10
No. 200	2.5	1.6	
Pan	1.6		

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

Percent Gravel + 1.5 inch	2.2		
Percent Gravel 1.5 to 0.75 inches	3.3		
Percent Gravel 0.75 inch to #4 sieve	6.9		
<b>Total Percent Gravel</b>		<b>12.4</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 15	8.5	0.4	2.6	40.5
15 - 25	10.3	2.9	2.3	29.1
25 - 30	26.3	5.3	7.2	32.6

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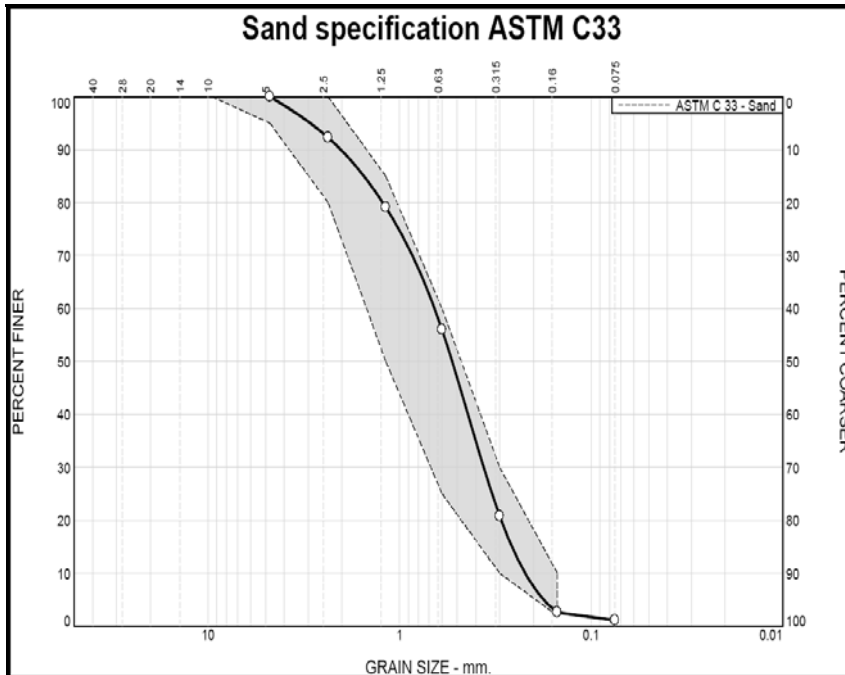
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0000

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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	7.7	92.3	80 - 100
No. 16	13.2	79.1	50 - 85
No. 30	23.1	56.0	25 - 60
No. 50	35.2	20.8	10 - 30
No. 100	18.2	2.6	2 - 10
No. 200	1.5	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	0.9		
Percent Gravel 1.5 to 0.75 inches	2.1	<b>Total Percent Gravel</b>	<b>11.7</b>
Percent Gravel 0.75 inch to #4 sieve	8.7		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 10	6.2	2.0	0.5	29.8
10 - 15	9.1	0.0	4.2	19.7
15 - 20	15.5	1.3	2.3	25.7
20 - 25	18.2	0.0	1.9	24.9

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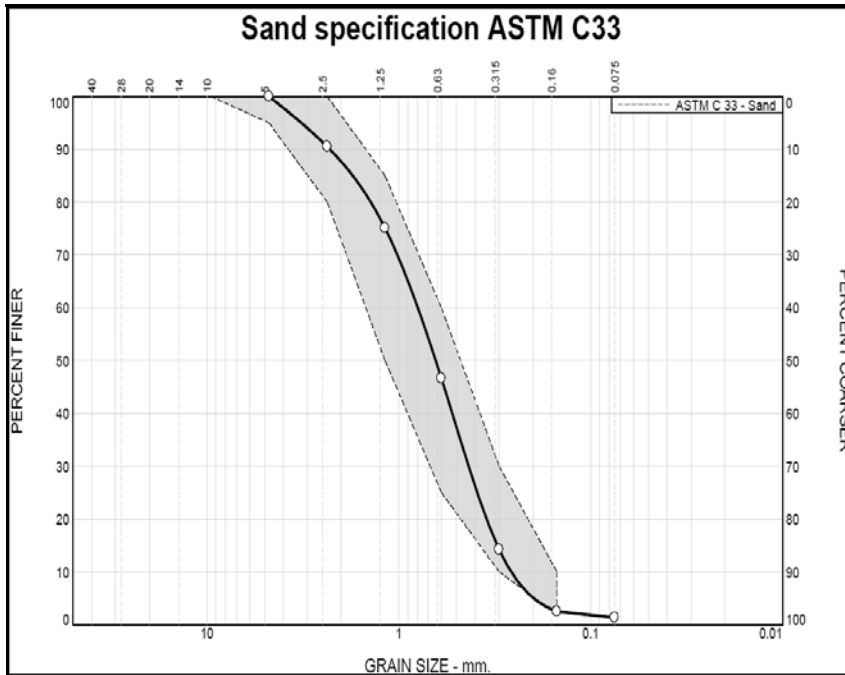
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0200

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### 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	9.5	90.5	80 - 100
No. 16	15.4	75.1	50 - 85
No. 30	28.5	46.6	25 - 60
No. 50	32.4	14.2	10 - 30
No. 100	11.7	2.5	2 - 10
No. 200	1.2	1.3	
Pan	1.3		

### 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	2.7	<b>Total Percent Gravel</b>	<b>14.9</b>
Percent Gravel 0.75 inch to #4 sieve	10.8		

### 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	
3.5 - 10	8.5	0.0	1.6	6.9	32.9
10 - 15	8.8	0.0	1.6	7.1	24.4
15 - 20	29.4	4.5	5.3	19.6	27.7

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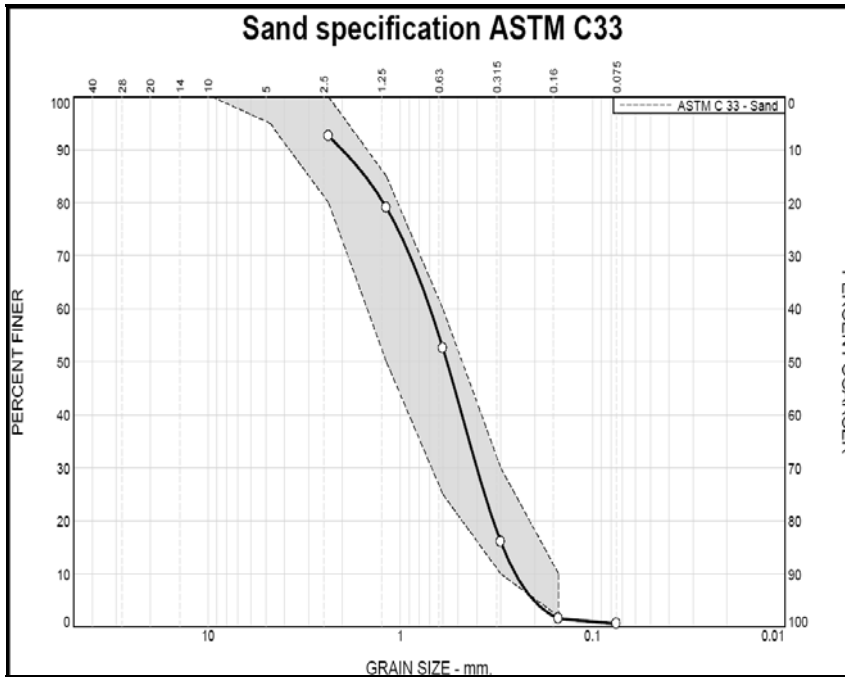
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0300

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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	13.5	79.1	50 - 85
No. 30	26.5	52.6	25 - 60
No. 50	36.5	16.0	10 - 30
No. 100	14.5	1.5	2 - 10
No. 200	1.0	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	1.5		
Percent Gravel 1.5 to 0.75 inches	4.5	<b>Total Percent Gravel</b>	<b>15.6</b>
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	
5 - 15	14.3	1.2	5.2	7.9	30.6
15 - 25	14.2	1.8	5.2	7.2	30.7
25 - 30	10.7	2.0	2.1	6.7	31.4
30 - 35	12.3	0.0	3.0	9.3	25.9
35 - 40	16.7	0.0	3.5	13.1	26.6
40 - 45	28.4	4.0	6.4	17.9	40.2

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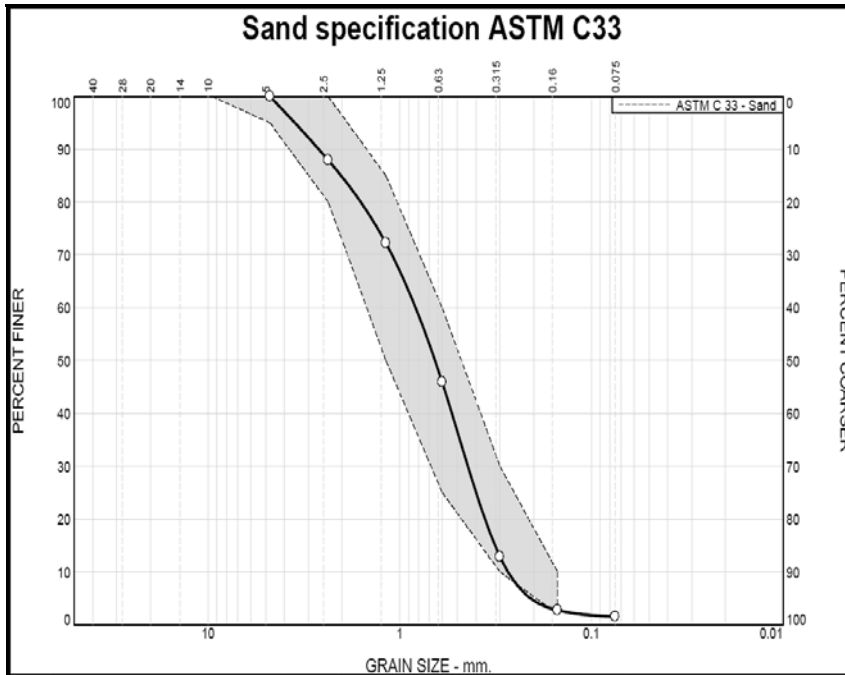
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0400

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	12.1	87.9	80 - 100
No. 16	15.7	72.2	50 - 85
No. 30	26.3	45.9	25 - 60
No. 50	33.1	12.8	10 - 30
No. 100	10.1	2.7	2 - 10
No. 200	1.2	1.5	
Pan	1.5		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 25 feet

Percent Gravel + 1.5 inch	5.9		
Percent Gravel 1.5 to 0.75 inches	4.5	<b>Total Percent Gravel</b>	<b>28.4</b>
Percent Gravel 0.75 inch to #4 sieve	18.0		

### 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	
4.5 - 10	16.5	1.2	4.5	10.8	27.6
10 - 15	27.8	8.2	3.6	16.0	20.9
15 - 20	34.0	4.4	3.8	25.8	25.6
20 - 25	36.7	10.4	5.9	20.3	32.3

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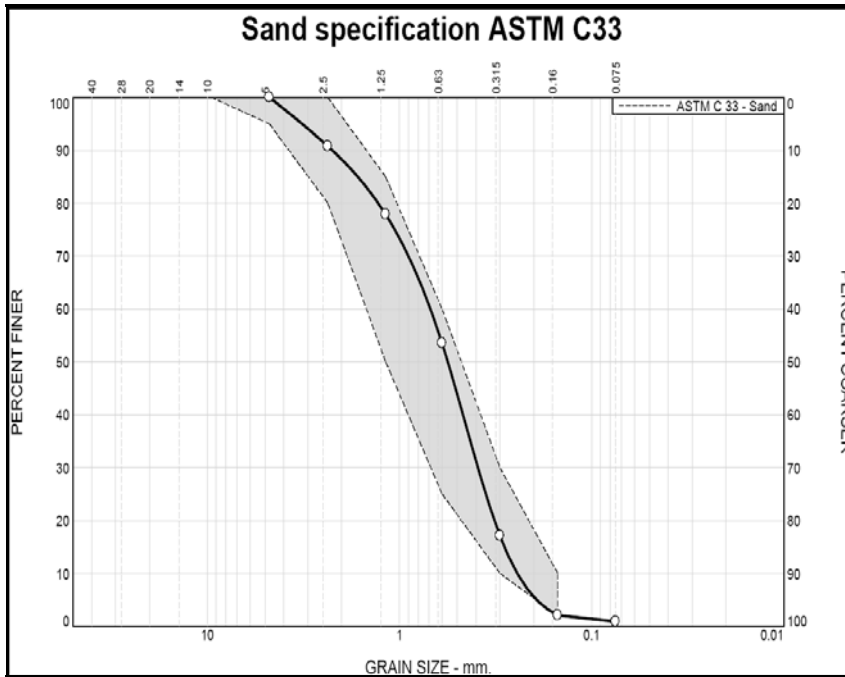


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0600

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	12.9	77.9	50 - 85
No. 30	24.4	53.5	25 - 60
No. 50	36.4	17.1	10 - 30
No. 100	15.0	2.1	2 - 10
No. 200	1.2	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	7.4		
Percent Gravel 1.5 to 0.75 inches	6.4		
Percent Gravel 0.75 inch to #4 sieve	12.2		
		<b>Total Percent Gravel</b>	<b>26.0</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
3 - 10	23.5	8.9	5.9	8.7	42.4
10 - 15	35.6	15.4	9.0	11.2	29.1
15 - 20	25.4	3.5	8.7	13.2	28.6
20 - 25	17.7	4.1	5.3	8.3	23.2
25 - 30	21.9	1.2	3.7	16.9	26.6
30 - 37	32.5	10.5	5.8	16.3	25.3

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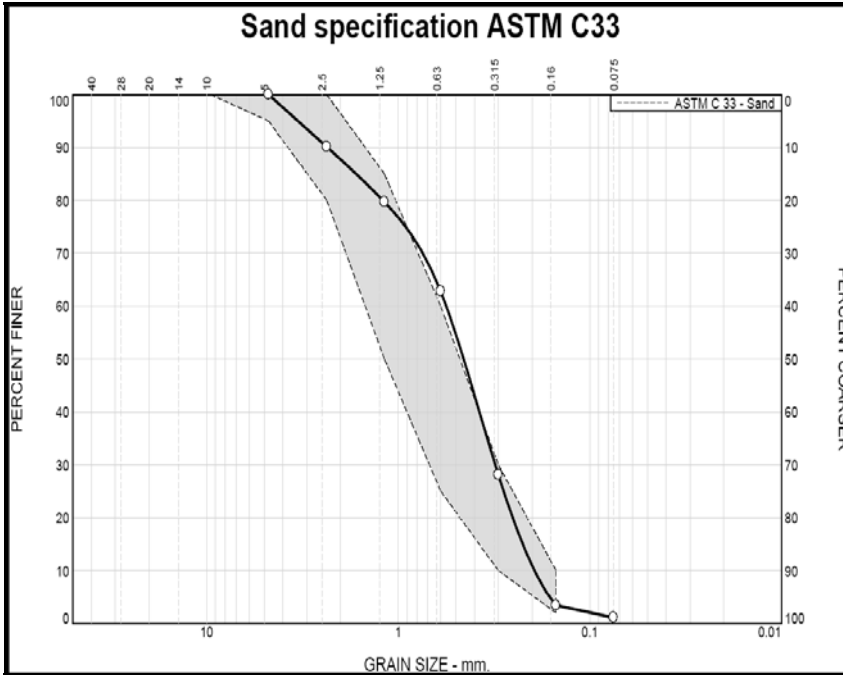
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0800

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 38 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	10.4	79.7	50 - 85
No. 30	16.9	62.8	25 - 60
No. 50	34.7	28.1	10 - 30
No. 100	24.6	3.4	2 - 10
No. 200	2.3	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 38 feet

Percent Gravel + 1.5 inch	4.4		
Percent Gravel 1.5 to 0.75 inches	5.5	<b>Total Percent Gravel</b>	<b>22.1</b>
Percent Gravel 0.75 inch to #4 sieve	12.2		

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	
5 - 10	4.0	1.0	1.0	2.0	22.3
10 - 15	12.4	6.7	4.3	1.3	22.9
15 - 20	25.1	10.4	8.0	6.8	23.8
20 - 25	31.4	7.6	7.2	16.6	26.8
25 - 30	29.0	1.1	7.1	20.8	27.7
30 - 38	27.5	1.3	5.4	20.8	41.9

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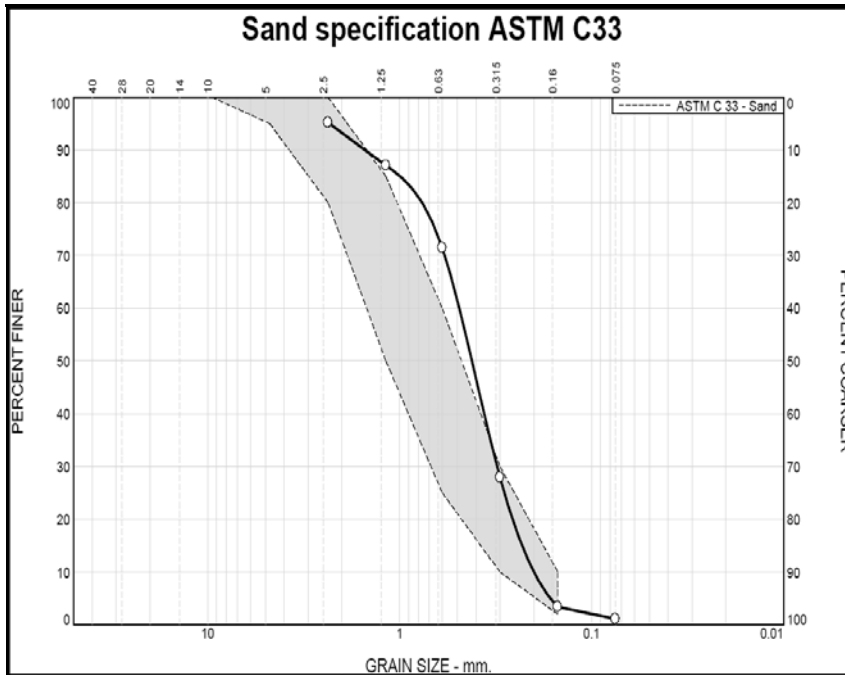
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK0900

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 30 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	8.1	87.1	50 - 85
No. 30	15.6	71.5	25 - 60
No. 50	43.5	27.9	10 - 30
No. 100	24.5	3.4	2 - 10
No. 200	2.3	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 30 feet

Percent Gravel + 1.5 inch	3.6		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	8.3		
<b>Total Percent Gravel</b>		<b>15.9</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	
4 - 15	10.7	1.8	2.4	6.4	31.8
15 - 25	10.9	0.6	4.0	6.2	29.7
25 - 30	37.7	13.8	7.2	16.7	32.7

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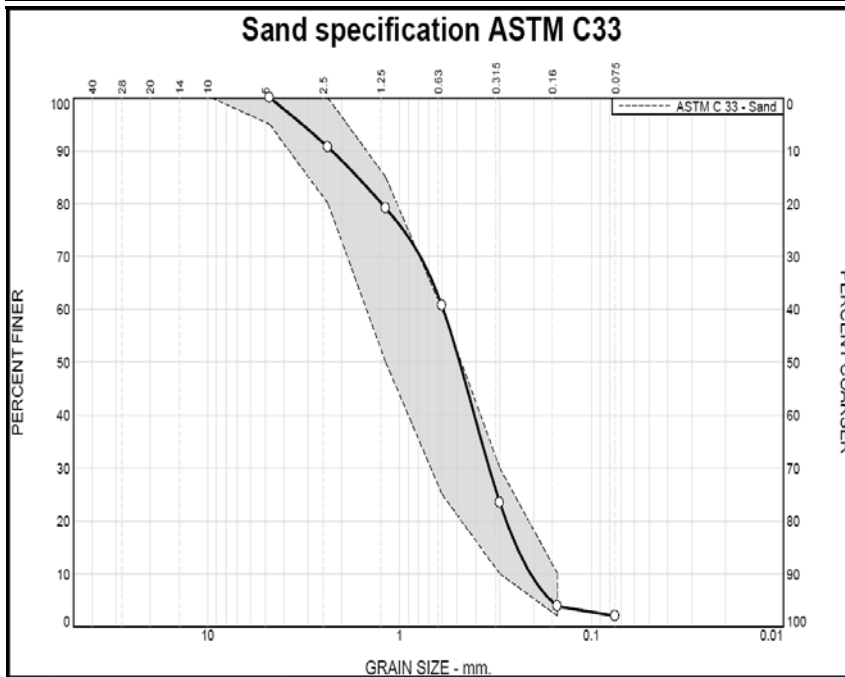
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK1200

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3.5 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.3	90.7	80 - 100
No. 16	11.5	79.1	50 - 85
No. 30	18.4	60.7	25 - 60
No. 50	37.3	23.4	10 - 30
No. 100	19.6	3.8	2 - 10
No. 200	1.8	2.0	
Pan	2.0		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3.5 to 45 feet

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	11.9		
<b>Total Percent Gravel</b>		<b>17.6</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	
3.5 - 10	5.2	0.0	1.1	4.1	31.5
10 - 15	4.6	0.0	0.2	4.4	20.5
15 - 20	5.0	0.0	0.9	4.1	18.4
20 - 25	21.3	9.3	3.1	8.9	22.8
25 - 30	38.1	5.3	7.5	25.3	39.7
30 - 35	29.7	2.7	6.7	20.2	30.1
35 - 45	20.4	0.0	5.3	15.1	26.1

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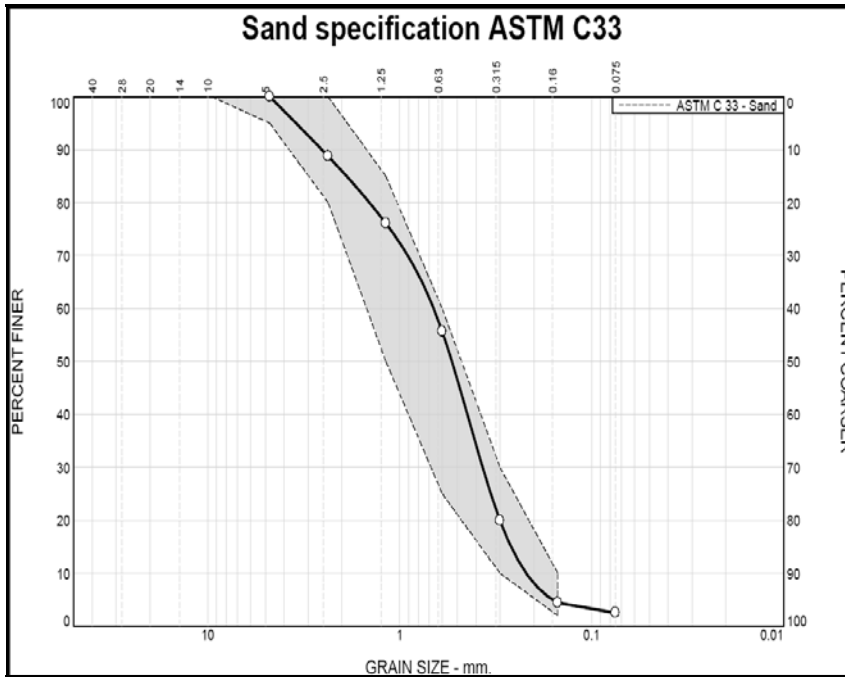
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK1400

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 55 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	12.7	76.1	50 - 85
No. 30	20.4	55.7	25 - 60
No. 50	35.7	19.9	10 - 30
No. 100	15.5	4.4	2 - 10
No. 200	1.9	2.5	
Pan	2.5		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 55 feet

Percent Gravel + 1.5 inch	3.0		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	15.0		
<b>Total Percent Gravel</b>		<b>22.4</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	
3 - 10	11.7	2.6	2.7	6.4	36.9
10 - 15	20.2	9.1	5.3	5.8	28.1
15 - 20	23.8	1.0	6.7	16.1	26.6
20 - 25	15.8	9.9	2.1	3.8	23.6
25 - 30	19.7	1.3	1.6	16.8	24.9
30 - 35	21.2	0.0	2.4	18.7	30.3
35 - 40	28.1	1.1	3.9	23.0	31.7
40 - 45	36.8	1.4	11.7	23.7	29.8
45 - 50	22.8	2.7	2.1	17.9	23.0
50 - 55	28.2	1.3	5.5	21.4	19.0

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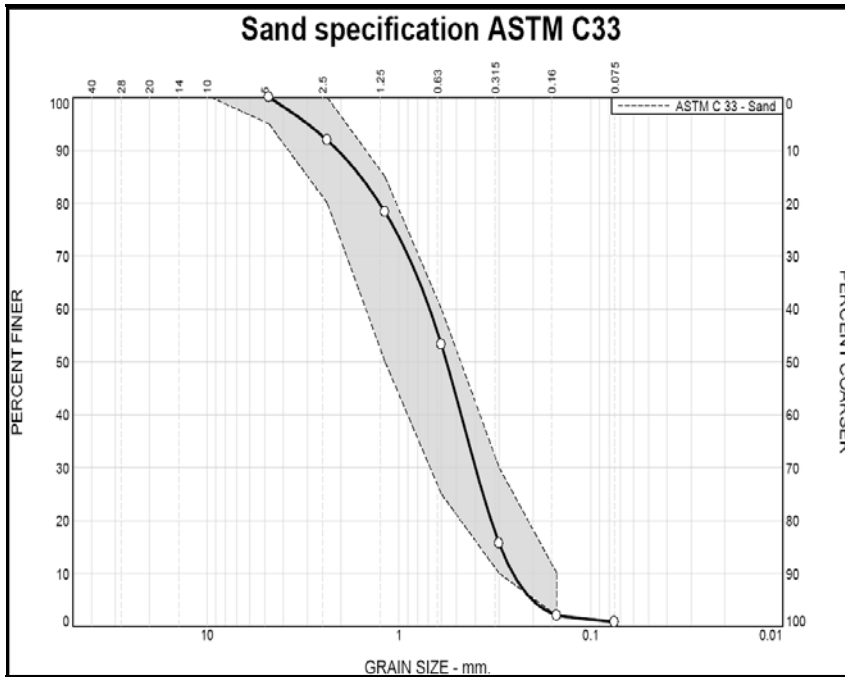
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK1600

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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	8.1	91.9	80 - 100
No. 16	13.6	78.3	50 - 85
No. 30	25.1	53.3	25 - 60
No. 50	37.6	15.7	10 - 30
No. 100	13.6	2.0	2 - 10
No. 200	1.2	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	0.4		
Percent Gravel 1.5 to 0.75 inches	4.2	<b>Total Percent Gravel</b>	<b>22.8</b>
Percent Gravel 0.75 inch to #4 sieve	18.2		

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	
5 - 15	10.1	0.7	4.1	5.2	30.7
15 - 25	6.3	0.0	1.2	5.1	28.2
25 - 30	41.8	1.6	5.2	34.9	37.1
30 - 35	41.5	0.0	9.7	31.8	41.6
35 - 40	37.3	0.0	5.8	31.5	37.0
40 - 45	29.0	0.0	2.4	26.6	25.4

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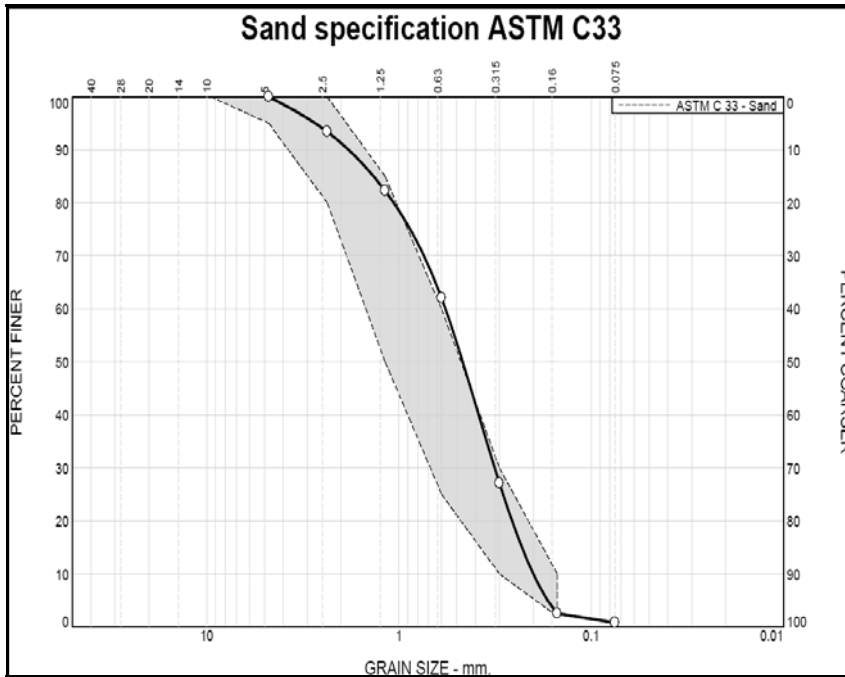
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK1800

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 35 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	11.2	82.3	50 - 85
No. 30	20.2	62.0	25 - 60
No. 50	34.9	27.1	10 - 30
No. 100	24.6	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 35 feet

Percent Gravel + 1.5 inch	2.8		
Percent Gravel 1.5 to 0.75 inches	4.9		
Percent Gravel 0.75 inch to #4 sieve	15.5		
<b>Total Percent Gravel</b>		<b>23.2</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 - 10	8.0	0.0	2.7	5.3	30.3
10 - 15	17.5	6.0	4.7	6.9	30.4
15 - 20	27.9	6.2	6.9	14.9	41.3
20 - 25	28.3	0.8	6.6	20.9	26.9
25 - 30	31.7	2.7	5.1	23.9	44.6
30 - 35	28.9	1.9	4.1	22.9	31.7

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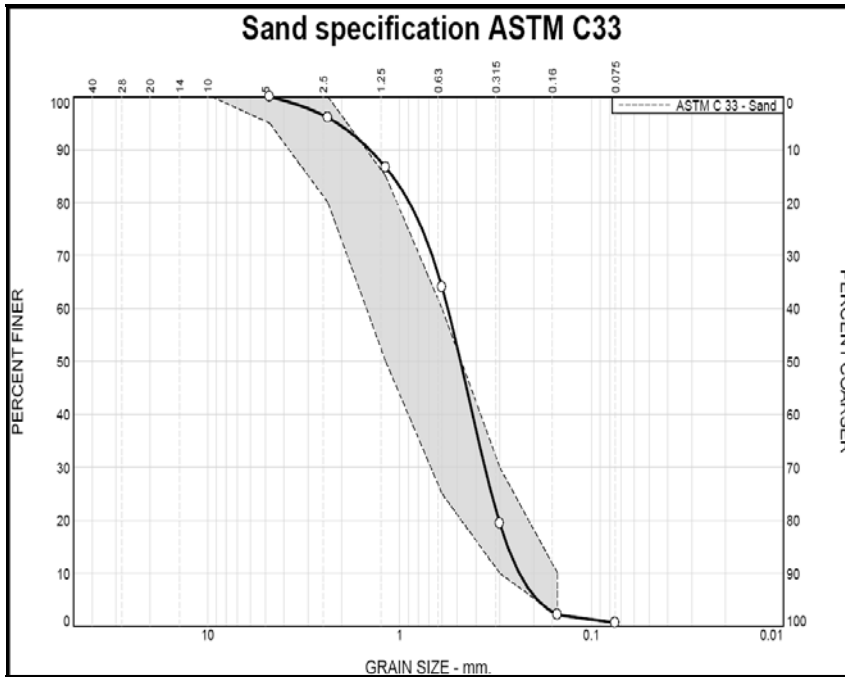
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK2000

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 25 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	9.4	86.6	50 - 85
No. 30	22.6	64.0	25 - 60
No. 50	44.7	19.4	10 - 30
No. 100	17.2	2.1	2 - 10
No. 200	1.5	0.6	
Pan	0.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 25 feet

Percent Gravel + 1.5 inch	3.9		
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>15.5</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	
1 - 5	19.5	3.5	4.2	11.7	29.0
5 - 10	8.3	4.5	1.6	2.3	27.0
10 - 15	14.7	8.7	2.5	3.6	26.2
15 - 20	15.9	1.2	4.8	9.9	26.5
20 - 25	19.9	1.3	4.3	14.3	23.2

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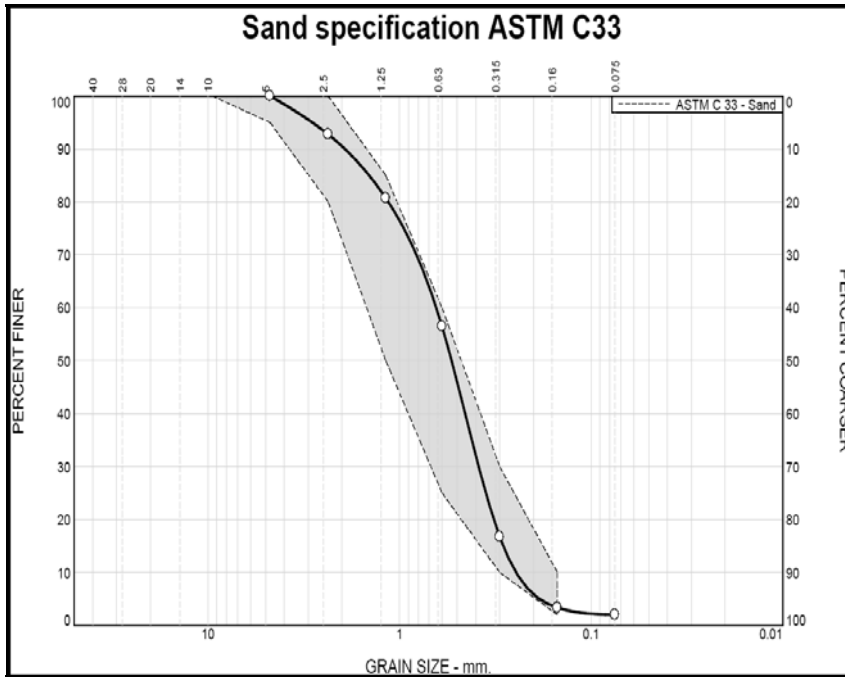


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK2200

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5.5 to 50 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	12.0	80.7	50 - 85
No. 30	24.2	56.5	25 - 60
No. 50	39.8	16.7	10 - 30
No. 100	13.4	3.4	2 - 10
No. 200	1.3	2.0	
Pan	2.0		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5.5 to 50 feet

Percent Gravel + 1.5 inch	2.9		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	14.9		
<b>Total Percent Gravel</b>		<b>23.1</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5.5 - 10	7.5	0.0	2.7	21.3
10 - 15	16.9	0.9	4.4	31.6
15 - 20	29.8	1.2	5.9	32.3
20 - 25	14.2	0.0	3.3	13.7
25 - 30	32.8	4.4	7.3	40.9
30 - 35	35.2	6.8	11.8	35.5
35 - 40	28.9	9.3	5.0	28.2
40 - 45	25.8	0.0	3.2	21.7
45 - 50	15.2	3.2	3.6	26.6

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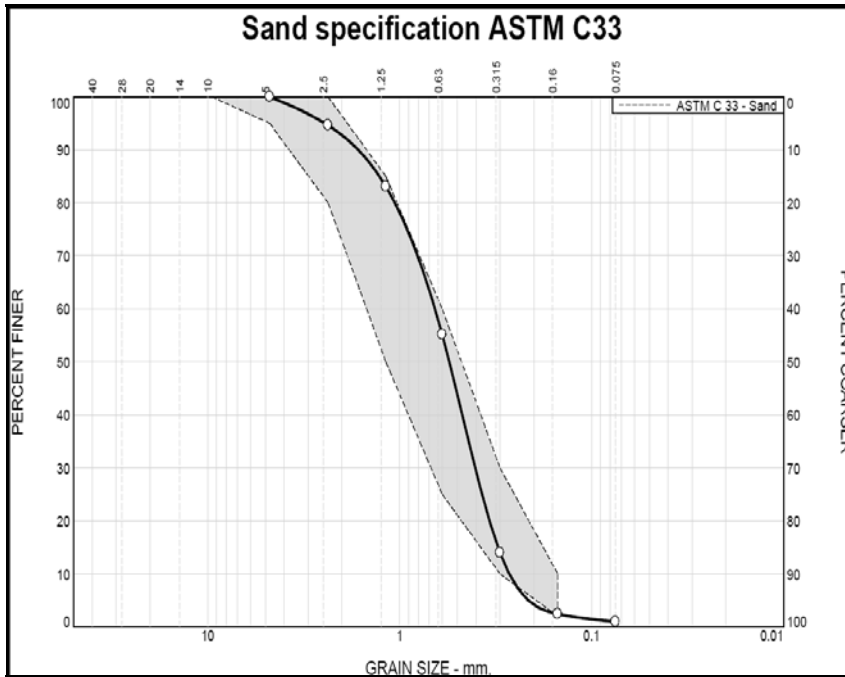
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK2400

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 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	11.6	88.4	50 - 85
No. 30	27.9	72.1	25 - 60
No. 50	41.2	58.8	10 - 30
No. 100	11.5	41.2	2 - 10
No. 200	1.5	1.0	
Pan	1.0		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 65 feet

Percent Gravel + 1.5 inch	3.7		
Percent Gravel 1.5 to 0.75 inches	4.8		
Percent Gravel 0.75 inch to #4 sieve	10.9		
<b>Total Percent Gravel</b>		<b>19.5</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	
1 - 10	12.2	1.7	3.3	7.2	37.4
10 - 15	26.7	14.9	5.4	6.4	29.3
15 - 20	25.0	5.1	10.2	9.7	29.3
20 - 25	24.4	5.2	4.2	15.0	30.2
25 - 30	19.1	5.1	6.6	7.4	31.0
30 - 35	22.0	5.7	7.5	8.8	26.0
35 - 45	13.9	0.7	2.6	10.6	27.0
45 - 60	21.6	1.9	4.6	15.1	40.0
60 - 65	18.0	2.0	3.1	12.8	19.1

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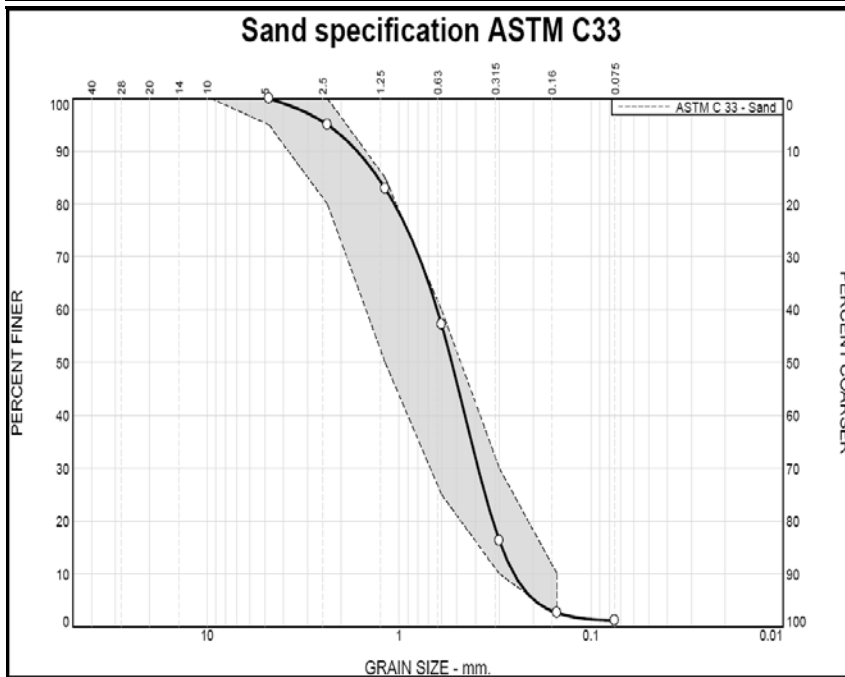
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK2600

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 25 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.0	95.0	80 - 100
No. 16	12.1	82.9	50 - 85
No. 30	25.7	57.2	25 - 60
No. 50	40.9	16.3	10 - 30
No. 100	13.7	2.6	2 - 10
No. 200	1.4	1.2	
Pan	1.2		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 25 to 65 feet

Percent Gravel + 1.5 inch	5.3		
Percent Gravel 1.5 to 0.75 inches	5.0	<b>Total Percent Gravel</b>	<b>20.0</b>
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	
25 - 35	3.1	0.0	0.7	2.4	30.0
35 - 40	13.0	7.0	2.6	3.4	27.6
40 - 45	39.8	15.5	13.5	10.8	40.4
45 - 50	30.5	7.6	6.1	16.8	29.5
50 - 55	25.1	3.2	5.5	16.5	30.8
55 - 60	25.2	3.6	7.8	13.8	30.7
60 - 65	19.8	5.1	3.6	11.1	22.4

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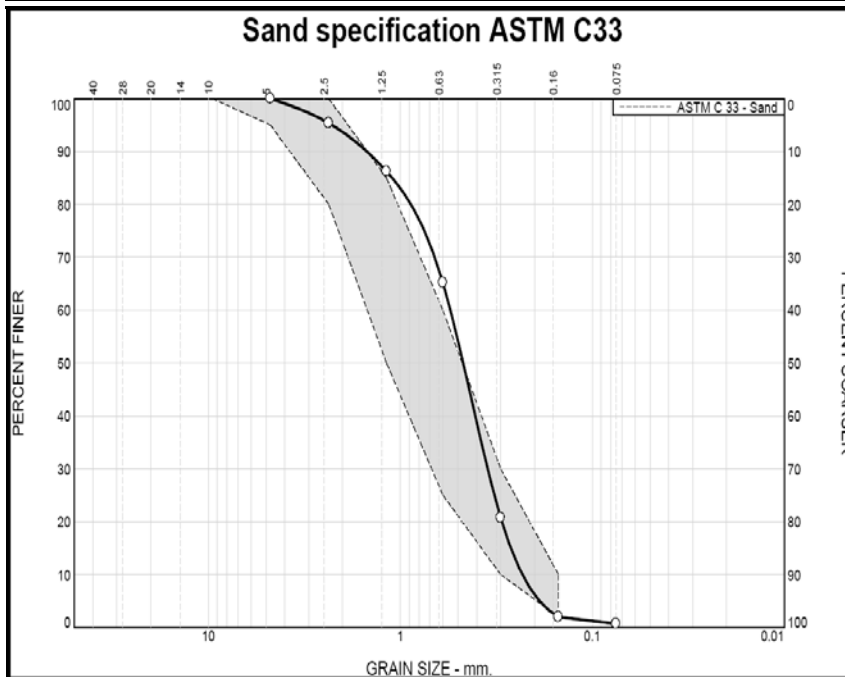
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK2800

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 50 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	4.6	95.4	80 - 100
No. 16	9.1	86.2	50 - 85
No. 30	21.0	65.2	25 - 60
No. 50	44.5	20.7	10 - 30
No. 100	18.8	2.0	2 - 10
No. 200	1.3	0.7	
Pan	0.7		

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

Percent Gravel + 1.5 inch	4.0		
Percent Gravel 1.5 to 0.75 inches	3.6		
Percent Gravel 0.75 inch to #4 sieve	7.5		
<b>Total Percent Gravel</b>		<b>15.1</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 - 15	4.5	0.0	0.4	4.0	27.2
15 - 25	13.0	1.0	4.7	7.3	36.8
25 - 30	18.3	5.3	5.5	7.6	36.1
30 - 35	24.6	11.5	5.6	7.5	31.6
35 - 40	27.4	15.4	4.6	7.4	38.3
40 - 45	11.8	0.7	1.9	9.2	28.8
45 - 50	19.4	1.0	5.1	13.2	19.2

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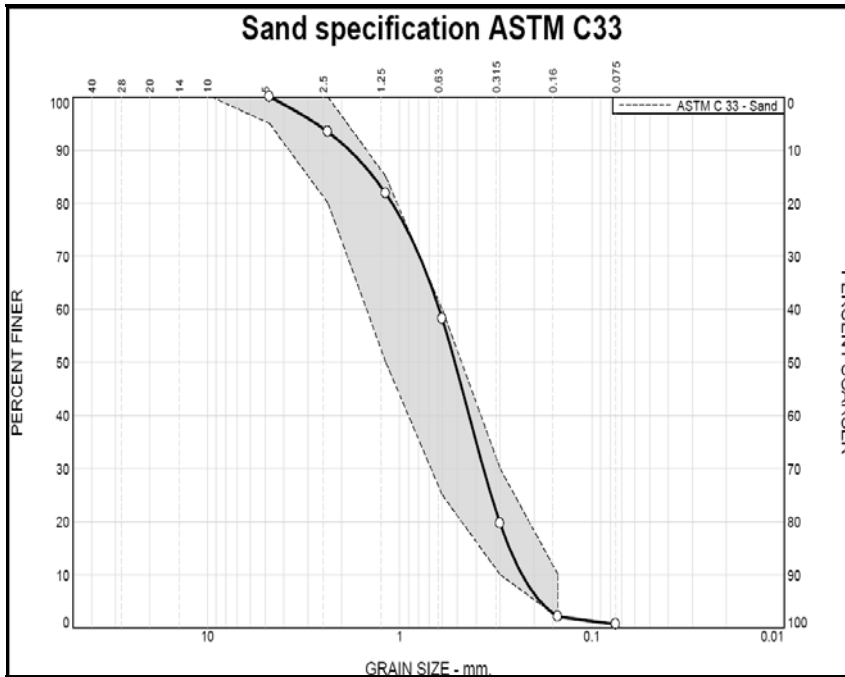
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK3000

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 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	11.6	81.8	50 - 85
No. 30	23.6	58.2	25 - 60
No. 50	38.6	19.6	10 - 30
No. 100	17.6	2.1	2 - 10
No. 200	1.4	0.6	
Pan	0.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 55 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	3.1		
Percent Gravel 0.75 inch to #4 sieve	11.5		
<b>Total Percent Gravel</b>		<b>17.7</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
3 - 10	11.2	4.9	1.7	4.5	34.9
10 - 20	3.6	0.0	1.1	2.5	28.3
20 - 25	21.1	4.2	4.7	12.2	26.7
25 - 30	30.1	2.1	4.0	24.0	37.1
30 - 35	34.5	12.8	5.5	16.2	35.4
35 - 40	20.4	5.8	2.6	11.9	27.5
40 - 45	13.8	0.0	3.0	10.7	20.3
45 - 50	20.8	0.7	3.4	16.7	30.9
50 - 55	20.7	0.0	4.7	16.0	18.6

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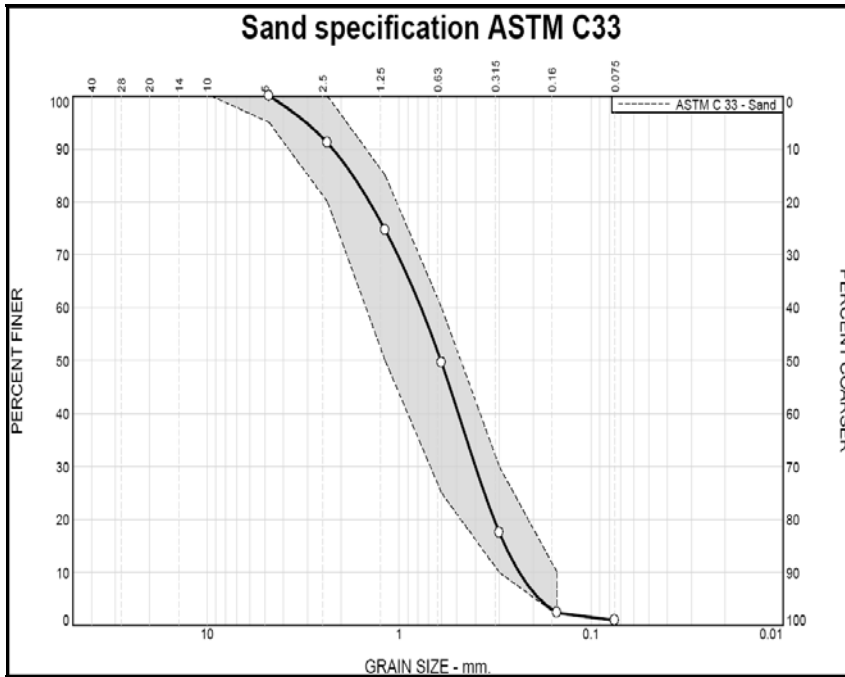
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK3200

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 45 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	16.5	74.7	50 - 85
No. 30	25.0	49.6	25 - 60
No. 50	32.1	17.5	10 - 30
No. 100	15.1	2.4	2 - 10
No. 200	1.5	0.9	
Pan	0.9		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 45 feet

Percent Gravel + 1.5 inch	5.6		
Percent Gravel 1.5 to 0.75 inches	7.4	<b>Total Percent Gravel</b>	<b>28.9</b>
Percent Gravel 0.75 inch to #4 sieve	15.8		

### 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	
8 - 15	27.6	11.3	6.3	10.0	43.8
15 - 20	49.1	14.1	14.2	20.9	45.0
20 - 25	34.5	6.0	9.1	19.4	35.1
25 - 30	23.3	3.3	5.7	14.3	39.6
30 - 35	21.1	1.6	4.9	14.6	29.7
35 - 40	19.9	0.0	4.4	15.5	27.2
40 - 45	27.2	1.0	8.0	18.1	22.5

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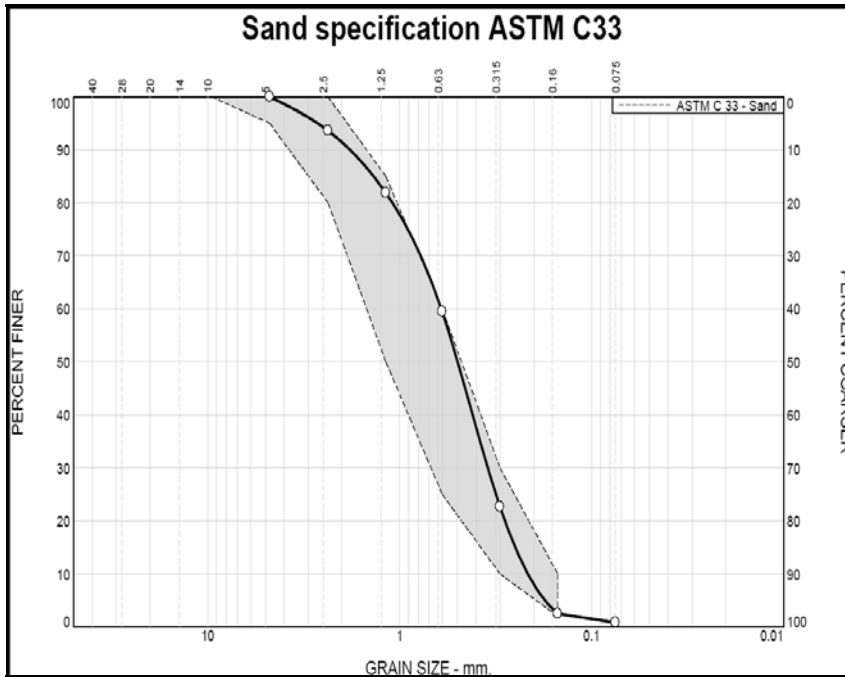
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK3400

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 58 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.4	93.6	80 - 100
No. 16	11.7	81.9	50 - 85
No. 30	22.4	59.5	25 - 60
No. 50	36.8	22.6	10 - 30
No. 100	20.2	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 58 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	13.2		
<b>Total Percent Gravel</b>		<b>20.3</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	
3 - 15	2.6	0.0	0.2	2.4	33.0
15 - 20	9.0	2.7	3.3	3.0	23.8
20 - 25	32.1	6.8	10.0	15.3	37.7
25 - 30	31.1	2.0	9.0	20.1	44.3
30 - 35	26.3	4.8	3.8	17.7	29.2
35 - 40	21.9	0.0	5.7	16.2	27.6
40 - 45	19.2	0.9	3.9	14.4	23.5
45 - 50	33.4	8.0	7.5	17.9	36.3
50 - 58	27.5	0.6	5.0	21.8	43.4

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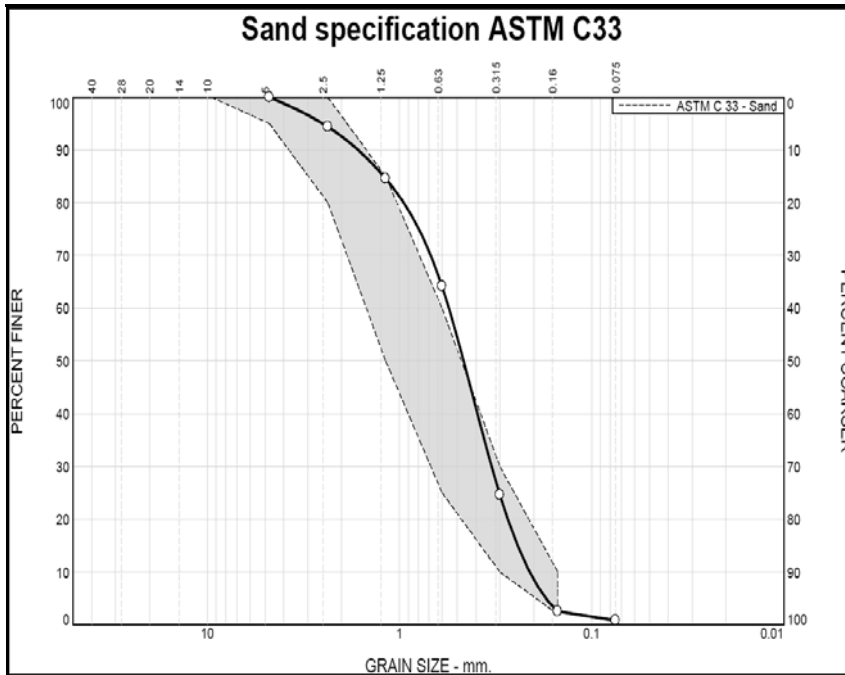
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK3600

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 65 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.6	94.4	80 - 100
No. 16	9.8	84.6	50 - 85
No. 30	20.4	64.2	25 - 60
No. 50	39.6	24.6	10 - 30
No. 100	22.1	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	1.1		
Percent Gravel 1.5 to 0.75 inches	2.8		
Percent Gravel 0.75 inch to #4 sieve	9.5		
<b>Total Percent Gravel</b>		<b>13.4</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
3 - 15	3.4	0.0	1.3	33.9
15 - 25	5.2	0.0	1.0	28.7
25 - 30	19.3	0.6	2.5	34.7
30 - 35	18.3	2.4	4.0	30.8
35 - 40	17.7	0.0	3.6	36.0
40 - 45	12.4	0.9	2.1	23.0
45 - 50	10.2	0.0	2.6	18.0
50 - 55	26.7	5.0	5.9	31.5
55 - 60	29.6	4.9	5.7	33.1
60 - 65	14.0	0.0	3.1	25.6

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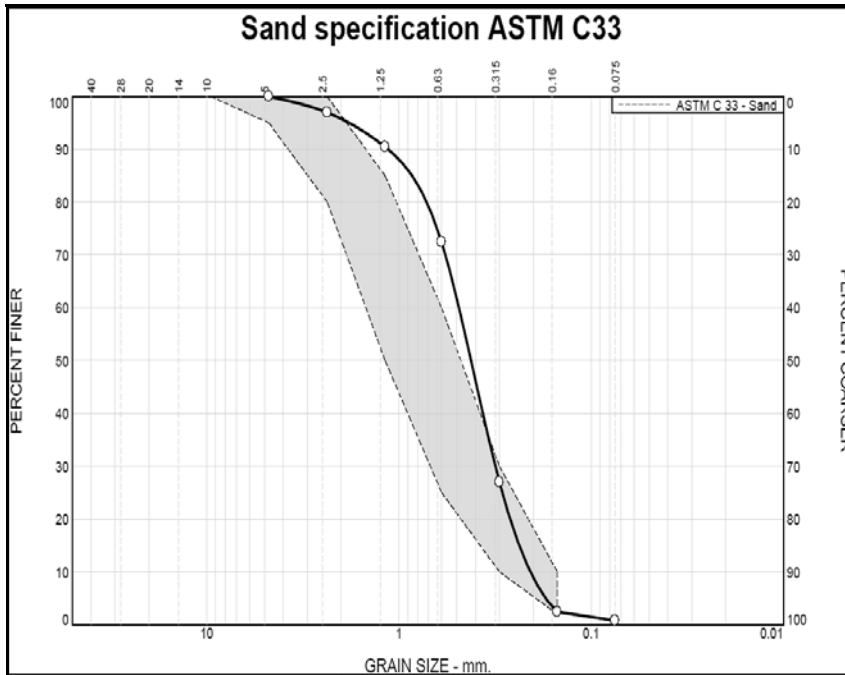


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. KK3800

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	3.0	97.0	80 - 100
No. 16	6.5	90.4	50 - 85
No. 30	18.0	72.5	25 - 60
No. 50	45.5	27.0	10 - 30
No. 100	24.6	2.4	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 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	4.8		
<b>Total Percent Gravel</b>		<b>9.2</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 - 15	2.1	0.0	0.3	1.8	34.3
15 - 25	5.5	0.8	1.8	3.0	34.4
25 - 30	18.8	3.4	6.3	9.0	40.9
30 - 35	13.5	4.8	3.1	5.6	30.7
35 - 40	13.0	2.0	4.2	6.8	32.2
40 - 45	16.1	1.1	7.0	8.0	24.2

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