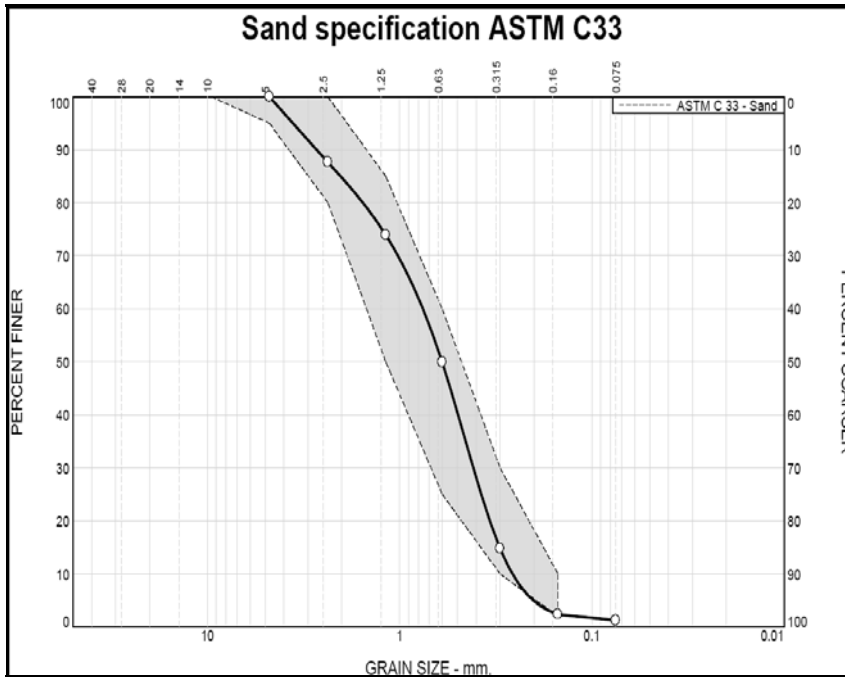


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00100

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	12.4	87.6	80 - 100
No. 16	13.7	73.9	50 - 85
No. 30	24.0	49.9	25 - 60
No. 50	35.2	14.8	10 - 30
No. 100	12.4	2.4	2 - 10
No. 200	1.1	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	2.2		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	18.7		
<b>Total Percent Gravel</b>		<b>25.2</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	18.9	0.0	2.6	16.3	33.9
10 - 15	19.7	1.0	3.7	15.0	23.7
15 - 20	16.7	0.0	2.1	14.6	16.5
20 - 25	18.6	2.5	3.0	13.2	20.4
25 - 30	34.6	0.8	7.7	26.0	27.8
30 - 35	38.4	6.2	6.9	25.2	26.4
35 - 40	32.4	6.0	5.0	21.5	22.2

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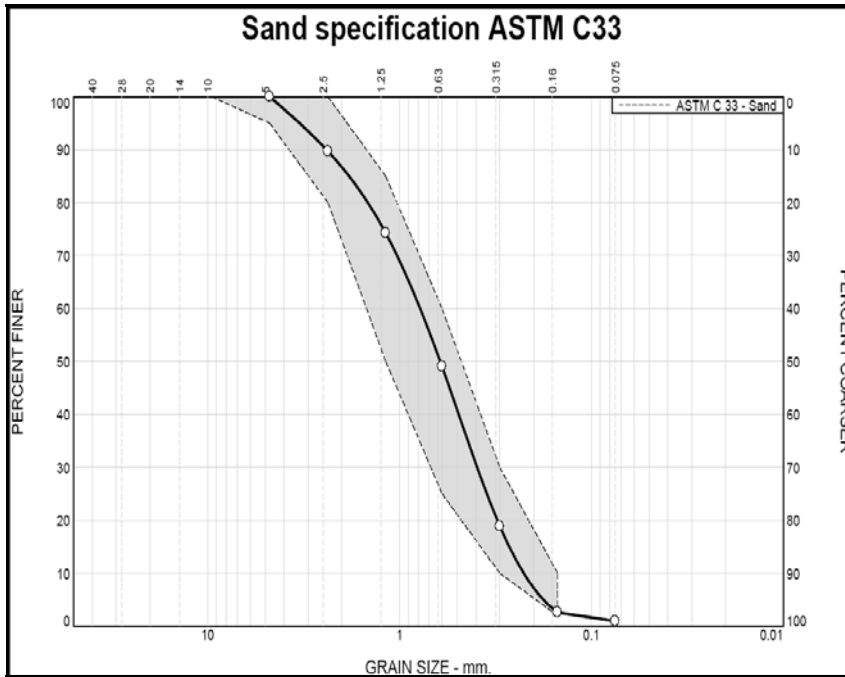
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00300

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 45 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.3	89.7	80 - 100
No. 16	15.4	74.3	50 - 85
No. 30	25.2	49.1	25 - 60
No. 50	30.2	18.9	10 - 30
No. 100	16.3	2.6	2 - 10
No. 200	1.7	0.9	
Pan	0.9		

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

Percent Gravel + 1.5 inch	1.0		
Percent Gravel 1.5 to 0.75 inches	3.3	<b>Total Percent Gravel</b>	<b>17.9</b>
Percent Gravel 0.75 inch to #4 sieve	13.5		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 10	24.6	3.9	6.1	14.5	35.8
10 - 15	21.4	2.1	8.5	10.8	22.5
15 - 20	13.6	0.0	2.2	11.4	23.9
20 - 25	7.0	0.0	0.8	6.2	24.0
25 - 30	22.9	0.9	5.5	16.6	30.4
30 - 35	20.2	0.0	1.8	18.3	29.6
35 - 40	15.9	0.9	0.5	14.5	22.7
40 - 45	16.4	0.0	0.6	15.8	30.3

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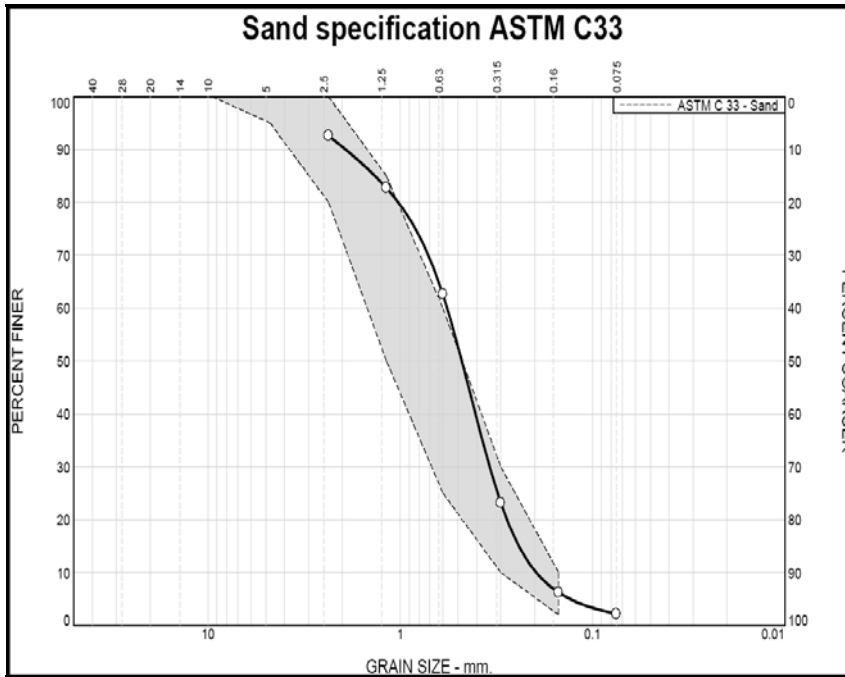
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00450

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 127 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	9.9	82.7	50 - 85
No. 30	20.1	62.6	25 - 60
No. 50	39.4	23.2	10 - 30
No. 100	17.0	6.2	2 - 10
No. 200	4.1	2.2	
Pan	2.2		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 127 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	4.3		
Percent Gravel 0.75 inch to #4 sieve	11.8		
<b>Total Percent Gravel</b>		<b>19.2</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	
1 - 5	40.1	12.1	11.5	16.5	28.8
5 - 10	22.7	4.0	5.4	13.2	40.2
10 - 20	17.5	0.6	2.6	14.4	49.2
20 - 40	10.8	1.9	2.6	6.3	29.8
40 - 45	26.3	0.0	10.8	15.5	30.6
45 - 50	31.6	8.6	7.1	15.9	42.1
50 - 60	8.1	0.6	1.8	5.6	37.5
60 - 65	6.3	0.0	2.1	4.1	26.1
65 - 70	39.9	17.3	5.9	16.7	44.9
70 - 75	58.7	13.1	14.1	31.5	34.0
75 - 80	21.4	2.1	3.1	16.2	37.6
80 - 95	1.4	0.0	0.0	1.4	35.5
95 - 100	22.9	4.1	3.2	15.7	45.4
100 - 105	8.2	0.0	1.0	7.2	42.9
105 - 110	30.2	1.3	8.2	20.7	43.4
110 - 110	23.8	0.6	4.1	19.0	36.2
116 - 120	21.6	1.7	3.3	16.6	39.3
120 - 127	28.1	3.0	8.3	16.8	47.6

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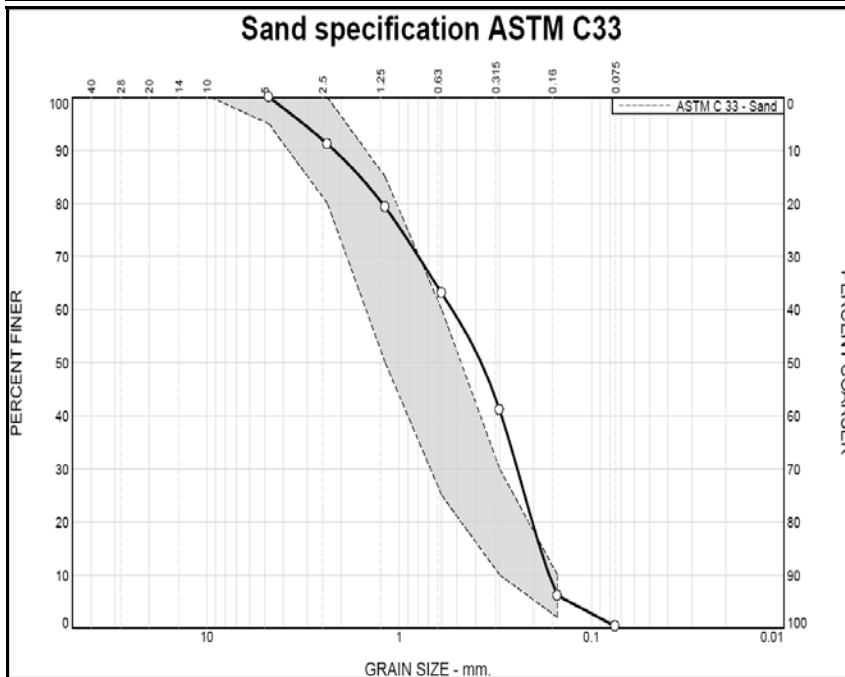
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00500

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 12 to 20 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.7	91.3	80 - 100
No. 16	11.8	79.4	50 - 85
No. 30	16.1	63.4	25 - 60
No. 50	21.8	41.6	10 - 30
No. 100	34.7	6.9	2 - 10
No. 200	5.7	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 12 to 20 feet

Percent Gravel + 1.5 inch	1.7		
Percent Gravel 1.5 to 0.75 inches	5.3	<b>Total Percent Gravel</b>	<b>19.9</b>
Percent Gravel 0.75 inch to #4 sieve	12.9		

### 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	
12 - 15	24.2	4.4	5.6	14.2	25.9
15 - 20	17.4	0.0	5.2	12.2	21.2

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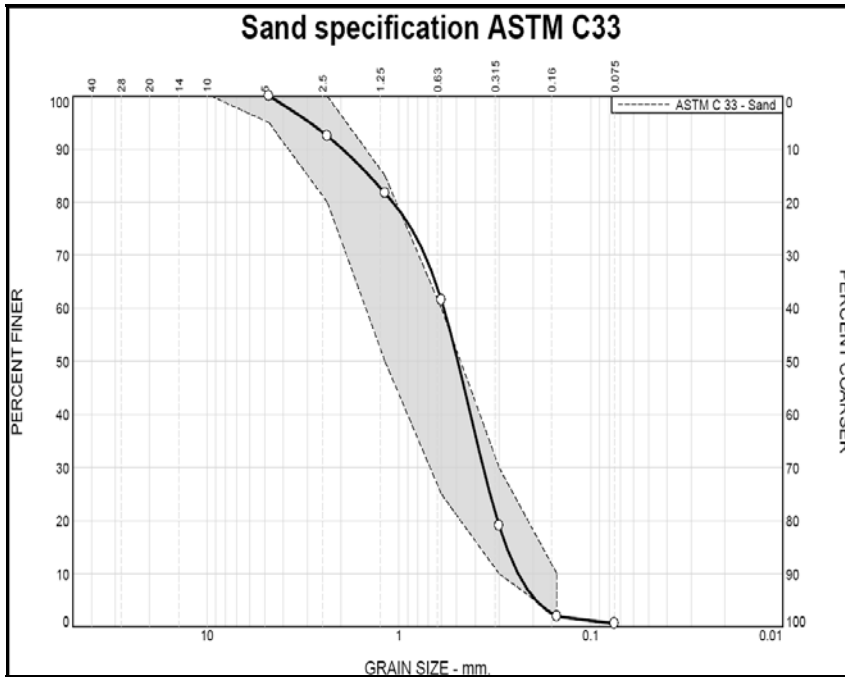
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00700

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	7.5	92.5	80 - 100
No. 16	10.8	81.7	50 - 85
No. 30	20.2	61.6	25 - 60
No. 50	42.5	19.1	10 - 30
No. 100	17.1	2.0	2 - 10
No. 200	1.3	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	2.1		
Percent Gravel 1.5 to 0.75 inches	2.1		
Percent Gravel 0.75 inch to #4 sieve	8.8		
		<b>Total Percent Gravel</b>	<b>13.0</b>

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	14.8	0.0	2.0	34.5
10 - 15	14.7	4.0	1.0	21.6
15 - 20	4.7	0.0	1.5	18.5
20 - 25	6.2	0.0	0.7	25.9
25 - 30	15.8	1.1	3.7	22.5
30 - 35	21.4	7.7	4.0	24.8

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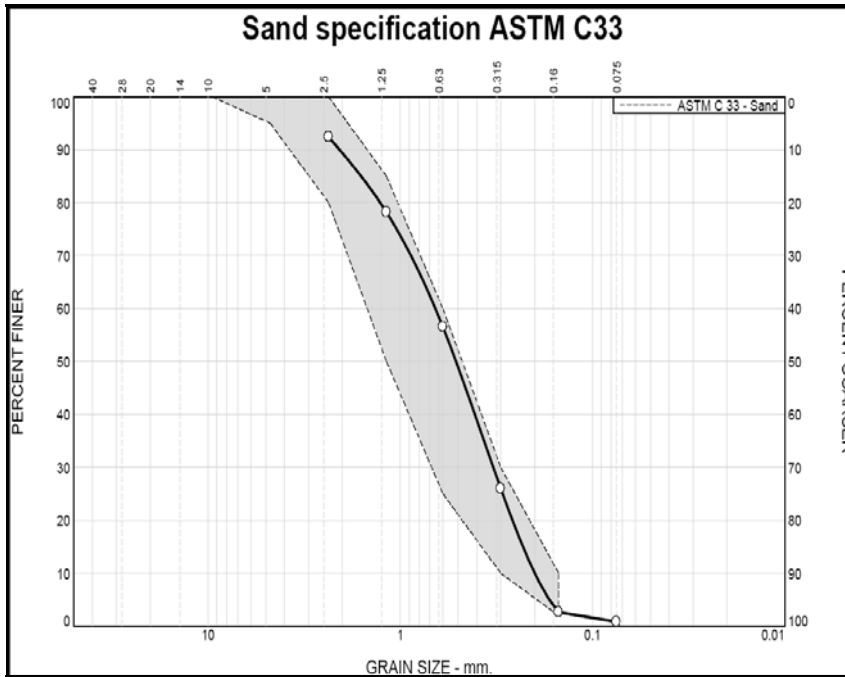
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00800

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	7.6	92.4	80 - 100
No. 16	14.2	78.2	50 - 85
No. 30	21.7	56.5	25 - 60
No. 50	30.5	26.0	10 - 30
No. 100	23.3	2.7	2 - 10
No. 200	1.8	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	5.4		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	11.8		
<b>Total Percent Gravel</b>		<b>21.9</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	
3 - 15	22.1	5.9	6.8	9.4	36.9
15 - 25	11.2	5.4	1.5	4.3	29.3
25 - 30	20.4	2.4	6.0	12.0	25.9
30 - 35	22.6	2.1	5.1	15.4	27.1
35 - 40	24.4	5.1	6.5	12.7	33.3
40 - 45	24.2	10.5	4.2	9.5	30.3
45 - 50	27.0	5.5	6.2	15.4	30.9
50 - 55	30.1	10.0	4.5	15.6	27.0
55 - 60	23.4	2.9	2.4	18.1	20.2
60 - 65	23.4	3.0	3.7	16.7	24.3

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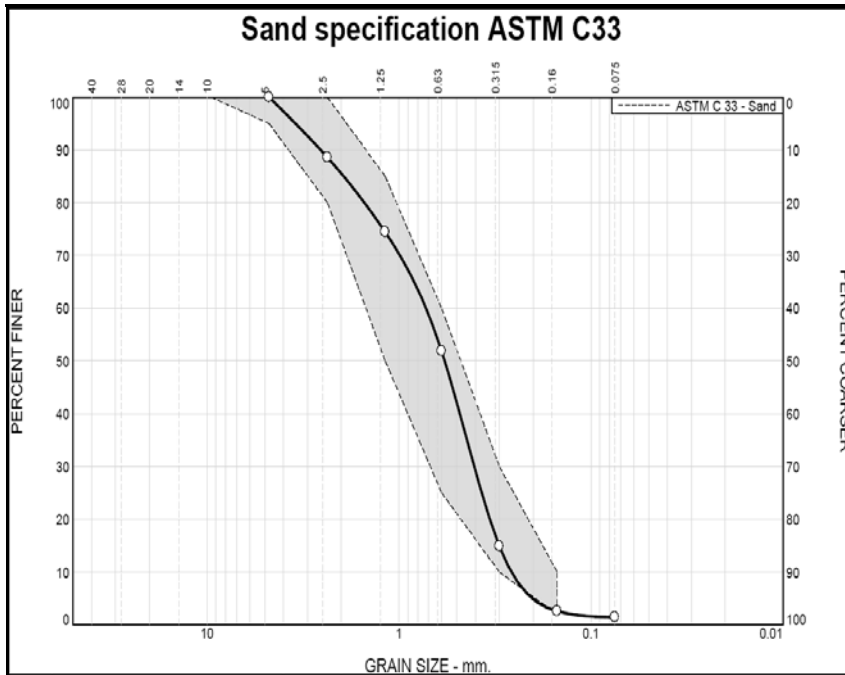
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 00900

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	11.4	88.6	80 - 100
No. 16	14.1	74.4	50 - 85
No. 30	22.5	51.9	25 - 60
No. 50	37.0	14.9	10 - 30
No. 100	12.3	2.6	2 - 10
No. 200	1.2	1.4	
Pan	1.4		

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

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	4.4		
Percent Gravel 0.75 inch to #4 sieve	14.6		
<b>Total Percent Gravel</b>		<b>21.0</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
5 - 10	9.1	0.0	2.5	17.4
10 - 15	8.9	0.0	3.2	25.0
15 - 20	4.8	0.0	1.0	24.9
20 - 25	7.0	0.0	1.6	27.2
25 - 30	23.0	1.2	7.5	22.3
30 - 35	22.5	0.0	7.1	21.0
35 - 40	20.4	0.0	4.8	27.6
40 - 45	37.3	13.8	6.7	29.8
45 - 50	37.4	9.6	5.4	28.7
50 - 55	24.4	0.0	3.7	17.2
55 - 60	26.2	0.0	2.4	22.7
60 - 65	31.1	0.0	6.4	24.9

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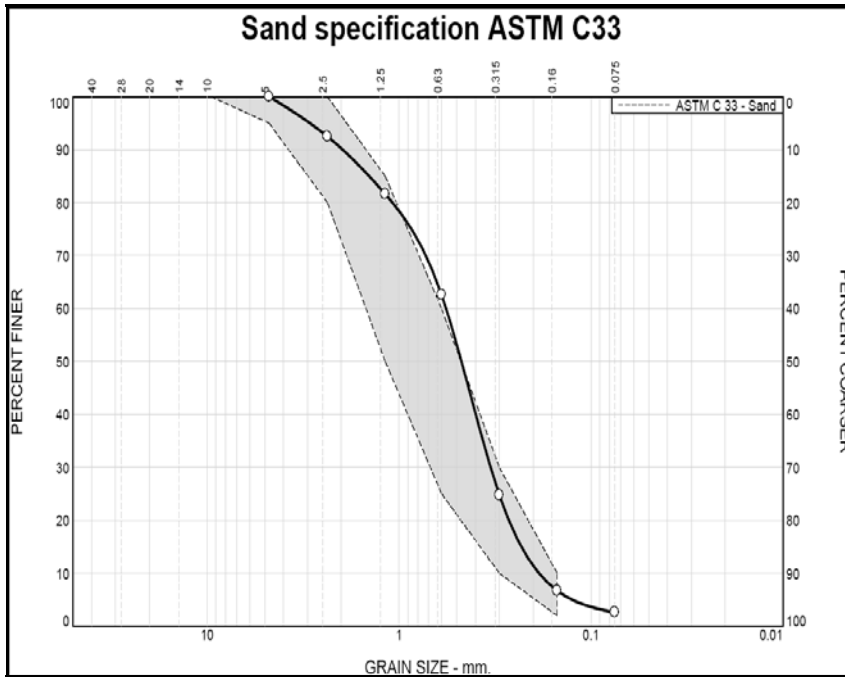
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O1000

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 78 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.5	92.5	80 - 100
No. 16	10.9	81.6	50 - 85
No. 30	19.0	62.6	25 - 60
No. 50	37.8	24.8	10 - 30
No. 100	18.0	6.7	2 - 10
No. 200	4.1	2.6	
Pan	2.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 78 feet

Percent Gravel + 1.5 inch	3.4		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	13.0		
<b>Total Percent Gravel</b>		<b>20.1</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	22.7	7.9	4.8	10.0	46.5
10 - 20	11.4	0.7	2.1	8.6	57.3
20 - 30	17.7	3.8	3.2	10.7	32.0
30 - 40	6.6	1.4	1.6	3.6	41.2
40 - 50	14.6	1.6	2.7	10.3	47.0
50 - 60	4.9	0.0	0.8	4.1	41.3
60 - 65	40.9	4.1	6.6	30.1	45.3
65 - 70	51.4	11.4	11.0	29.1	44.9
70 - 75	45.0	9.0	8.4	27.6	55.0
75 - 78	38.5	1.9	4.2	32.4	40.4

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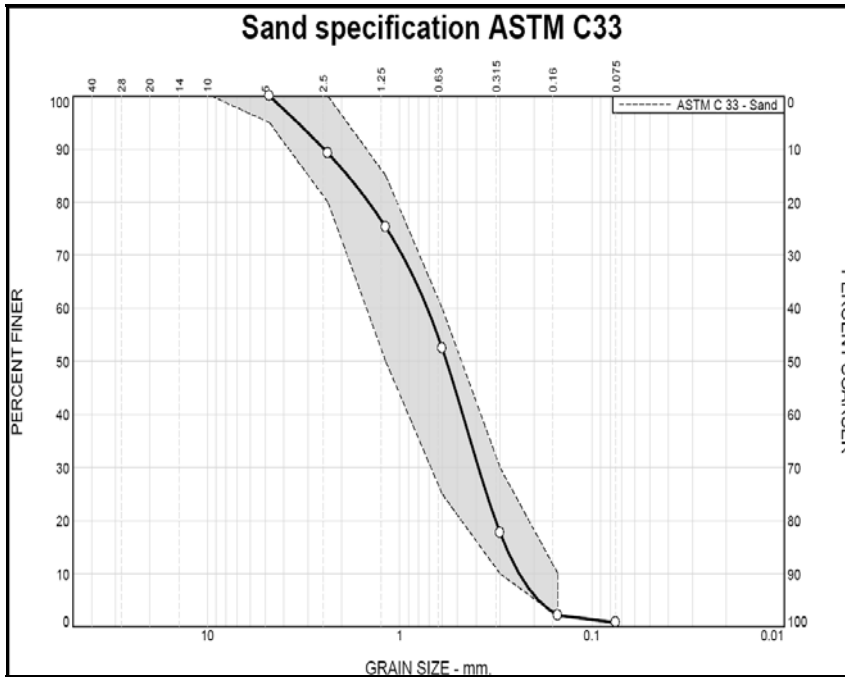


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O1100

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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	10.7	89.3	80 - 100
No. 16	14.0	75.3	50 - 85
No. 30	22.8	52.5	25 - 60
No. 50	34.8	17.7	10 - 30
No. 100	15.5	2.2	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	1.2		
Percent Gravel 1.5 to 0.75 inches	2.4		
Percent Gravel 0.75 inch to #4 sieve	15.4		
		<b>Total Percent Gravel</b>	<b>19.1</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	
5 - 10	25.3	1.7	2.2	21.4	25.7
10 - 15	6.4	0.0	1.8	4.5	15.9
15 - 20	8.1	0.0	1.9	6.1	23.0
20 - 25	7.5	0.0	1.2	6.2	19.7
25 - 30	10.2	0.0	2.0	8.1	28.5
30 - 35	10.1	0.0	1.7	8.5	16.9
35 - 40	16.5	3.2	1.0	12.2	28.7
40 - 45	18.0	0.0	3.8	14.2	22.1
45 - 50	38.9	10.0	4.4	24.5	23.7
50 - 55	31.9	0.0	1.7	30.2	15.3
55 - 60	32.0	0.0	4.3	27.7	26.6
60 - 65	24.1	0.0	2.5	21.6	20.2

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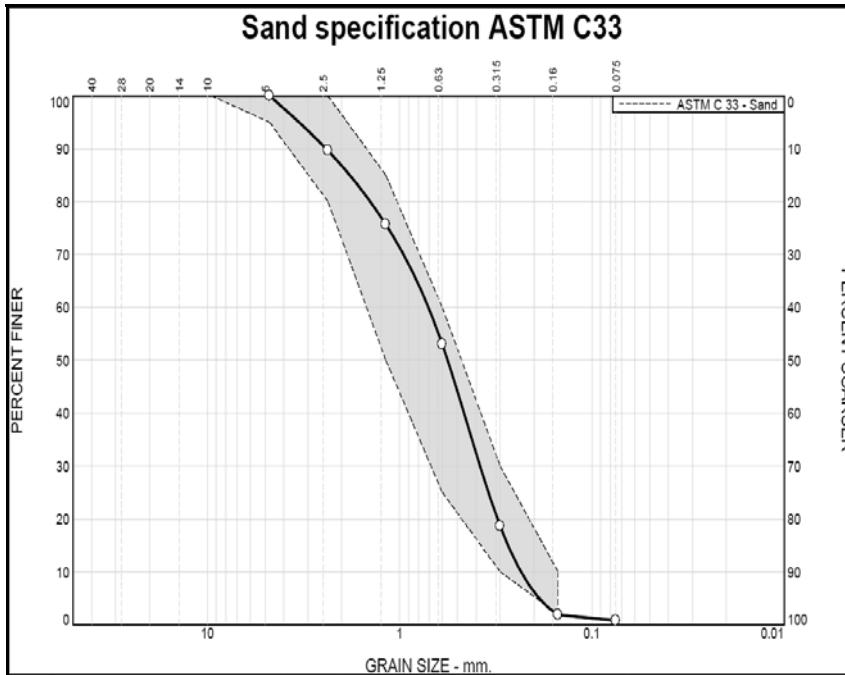
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 01300

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 40 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	10.4	89.6	80 - 100
No. 16	14.0	75.7	50 - 85
No. 30	22.6	53.0	25 - 60
No. 50	34.4	18.6	10 - 30
No. 100	16.8	1.9	2 - 10
No. 200	1.1	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 40 feet

Percent Gravel + 1.5 inch	1.0		
Percent Gravel 1.5 to 0.75 inches	4.6	<b>Total Percent Gravel</b>	<b>17.3</b>
Percent Gravel 0.75 inch to #4 sieve	11.8		

### 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	
4.5 - 10	14.5	0.0	3.7	10.8	18.8
10 - 15	15.8	4.3	4.5	7.0	24.4
15 - 20	9.5	0.0	1.6	7.9	23.1
20 - 25	10.9	0.0	2.4	8.5	28.4
25 - 30	23.4	1.8	7.7	13.8	25.3
30 - 35	25.1	0.9	9.9	14.2	27.1
35 - 40	22.4	0.0	2.1	20.4	25.8

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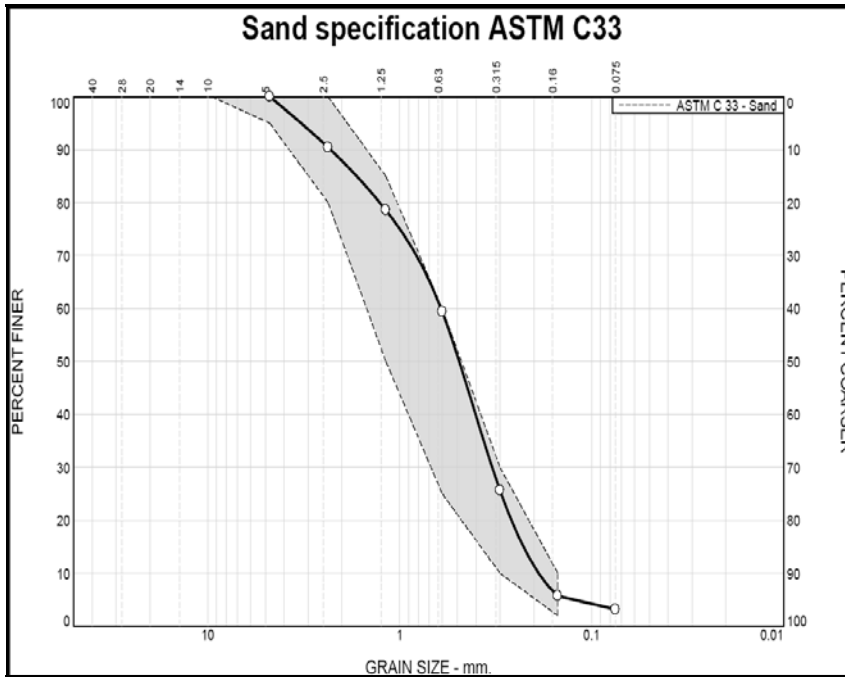
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O1500

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 19 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.6	90.4	80 - 100
No. 16	11.9	78.6	50 - 85
No. 30	19.2	59.4	25 - 60
No. 50	33.8	25.6	10 - 30
No. 100	19.9	5.7	2 - 10
No. 200	2.6	3.2	
Pan	3.2		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 19 feet

Percent Gravel + 1.5 inch	3.1		
Percent Gravel 1.5 to 0.75 inches	5.3		
Percent Gravel 0.75 inch to #4 sieve	13.9		
<b>Total Percent Gravel</b>		<b>22.4</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
6 - 9	10.5	0.0	2.4	27.1
9 - 14	23.9	1.3	4.7	20.6
14 - 19	27.9	6.9	7.7	15.8

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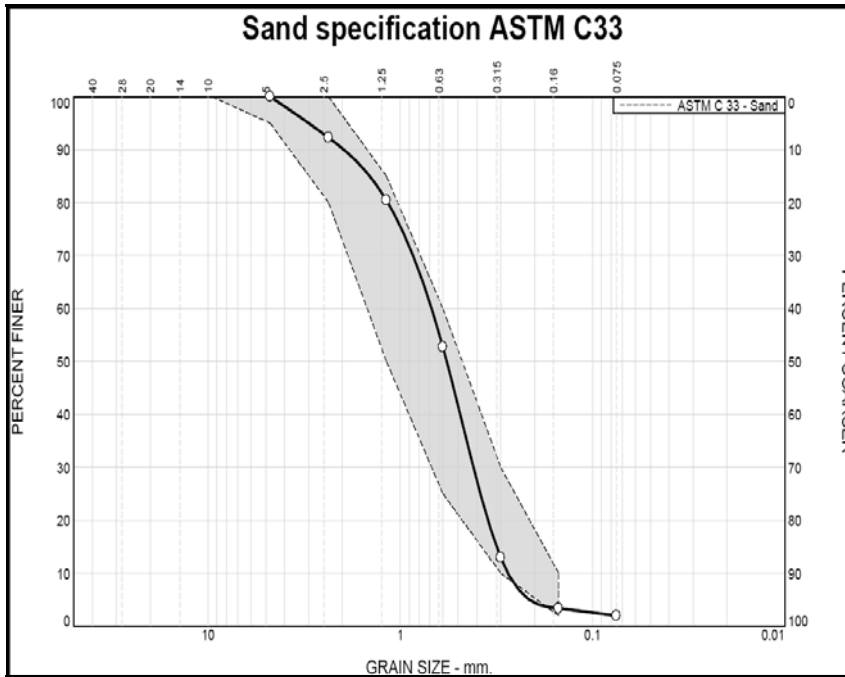
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 01700

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 10 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.7	92.3	80 - 100
No. 16	11.8	80.4	50 - 85
No. 30	27.7	52.7	25 - 60
No. 50	39.8	12.9	10 - 30
No. 100	9.6	3.4	2 - 10
No. 200	1.4	2.0	
Pan	2.0		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 10 feet

Percent Gravel + 1.5 inch	5.7		
Percent Gravel 1.5 to 0.75 inches	7.3		
Percent Gravel 0.75 inch to #4 sieve	13.5		
		<b>Total Percent Gravel</b>	<b>26.5</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	26.5	5.7	7.3	13.5	35.9

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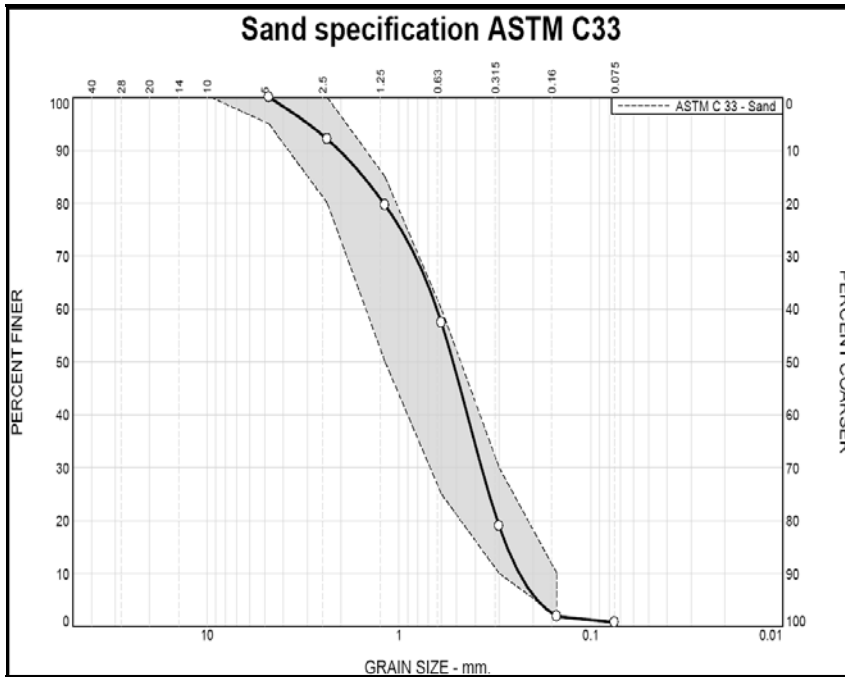
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O2100

Page 1 of 1

### 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	7.9	92.1	80 - 100
No. 16	12.5	79.6	50 - 85
No. 30	22.2	57.4	25 - 60
No. 50	38.5	18.9	10 - 30
No. 100	17.1	1.9	2 - 10
No. 200	1.1	0.7	
Pan	0.7		

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

Percent Gravel + 1.5 inch	3.4		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	12.5		
<b>Total Percent Gravel</b>		<b>19.8</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	
5 - 10	26.8	0.0	5.5	21.3	35.2
10 - 15	21.8	1.3	6.4	14.1	25.2
15 - 20	8.5	0.0	1.6	6.8	25.0
20 - 25	22.0	12.2	2.2	7.7	25.7

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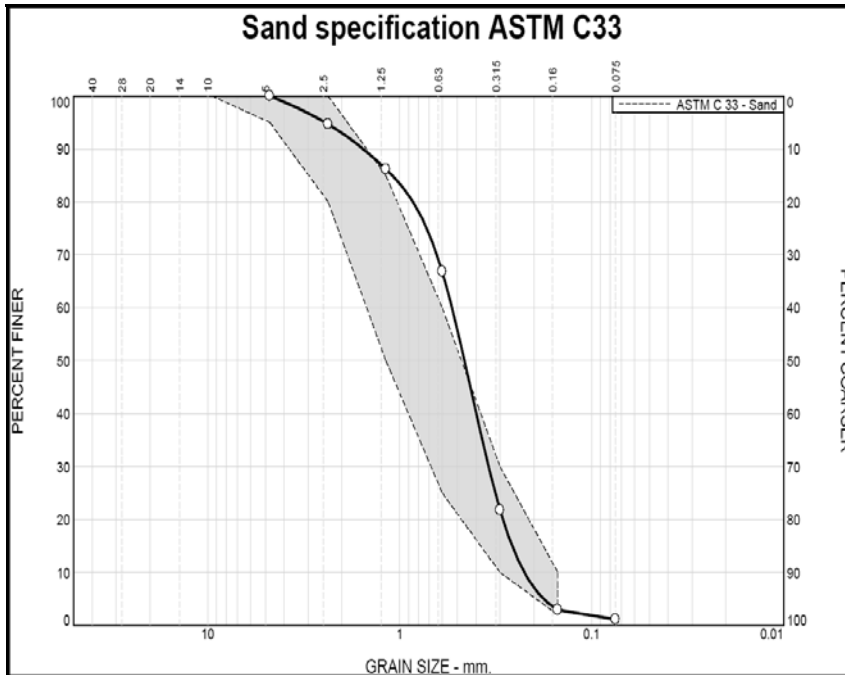
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O2900

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 55 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	8.5	86.2	50 - 85
No. 30	19.3	66.8	25 - 60
No. 50	45.1	21.8	10 - 30
No. 100	18.8	2.9	2 - 10
No. 200	1.8	1.1	
Pan	1.1		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 55 feet

Percent Gravel + 1.5 inch	4.2		
Percent Gravel 1.5 to 0.75 inches	4.0		
Percent Gravel 0.75 inch to #4 sieve	7.3		
<b>Total Percent Gravel</b>		<b>15.4</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	
4 - 15	4.2	0.0	1.2	3.0	27.8
15 - 25	13.6	2.6	3.0	8.0	26.5
25 - 30	25.6	11.9	5.2	8.5	27.3
30 - 35	26.1	12.0	3.3	10.8	27.9
35 - 40	18.5	4.2	6.9	7.4	17.2
40 - 45	20.6	0.0	8.8	11.7	24.3
45 - 50	7.2	0.0	1.5	5.7	20.0
50 - 55	22.8	9.3	5.9	7.5	21.5

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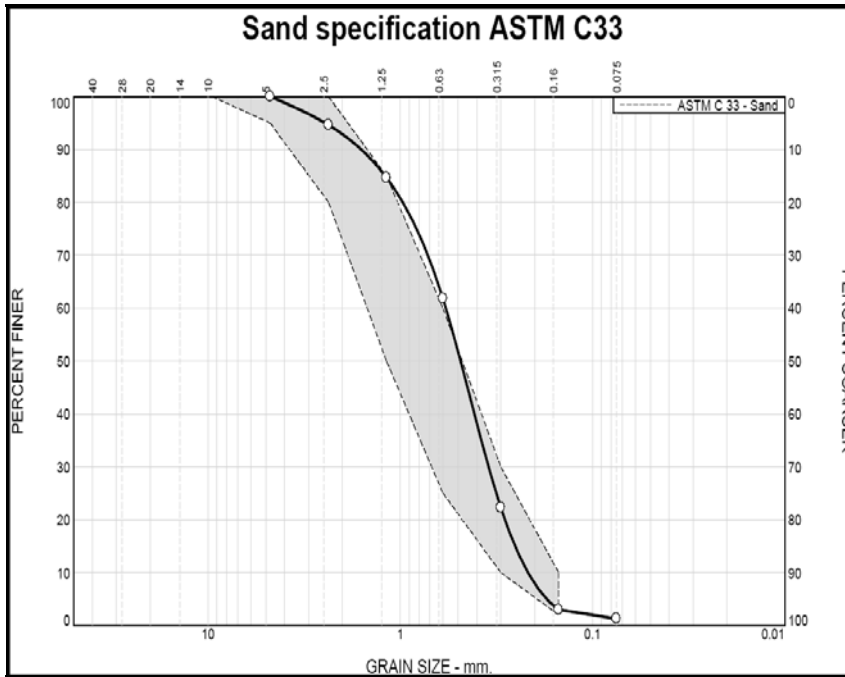
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O3300

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 33 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	9.9	84.7	50 - 85
No. 30	22.8	61.8	25 - 60
No. 50	39.6	22.3	10 - 30
No. 100	19.3	3.0	2 - 10
No. 200	1.7	1.3	
Pan	1.3		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 33 feet

Percent Gravel + 1.5 inch	3.3		
Percent Gravel 1.5 to 0.75 inches	4.2		
Percent Gravel 0.75 inch to #4 sieve	8.9		
<b>Total Percent Gravel</b>		<b>16.3</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	
4 - 10	15.2	3.8	5.2	6.2	33.3
10 - 15	10.9	2.9	1.2	6.8	26.3
15 - 20	17.3	1.7	5.1	10.5	28.8
20 - 25	20.7	5.7	4.1	10.9	24.8

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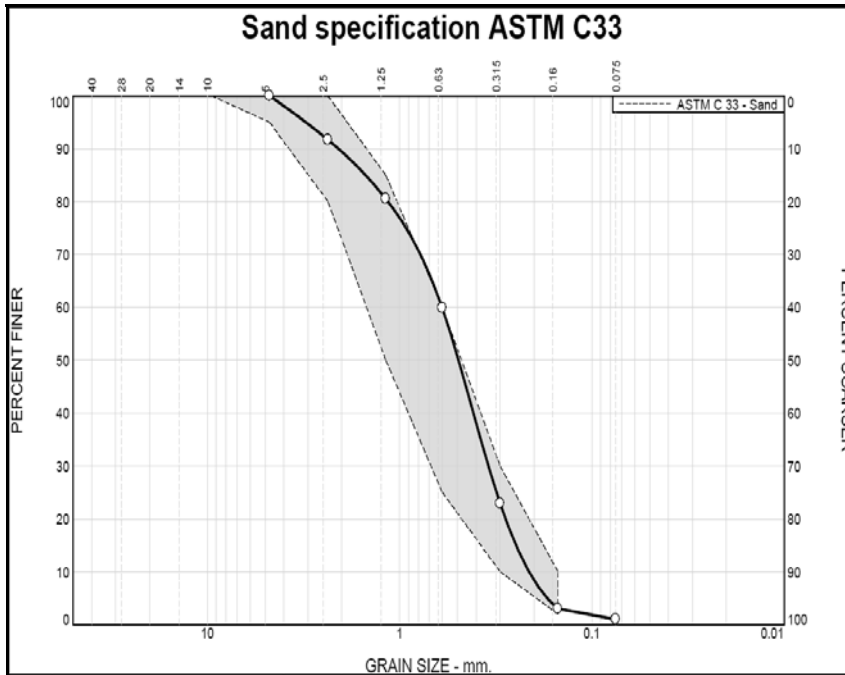
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. O3500

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### 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	8.3	91.7	80 - 100
No. 16	11.2	80.5	50 - 85
No. 30	20.6	59.9	25 - 60
No. 50	37.0	22.9	10 - 30
No. 100	19.9	3.0	2 - 10
No. 200	2.0	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	3.6		
Percent Gravel 1.5 to 0.75 inches	3.9		
Percent Gravel 0.75 inch to #4 sieve	8.5		
<b>Total Percent Gravel</b>		<b>16.0</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	18.1	0.0	2.4	15.6	32.0
10 - 15	13.3	0.8	5.8	6.7	33.2
15 - 20	7.0	3.2	0.3	3.5	28.5
20 - 25	11.7	3.5	3.2	5.0	26.3
25 - 33	25.7	7.3	7.5	10.9	30.7

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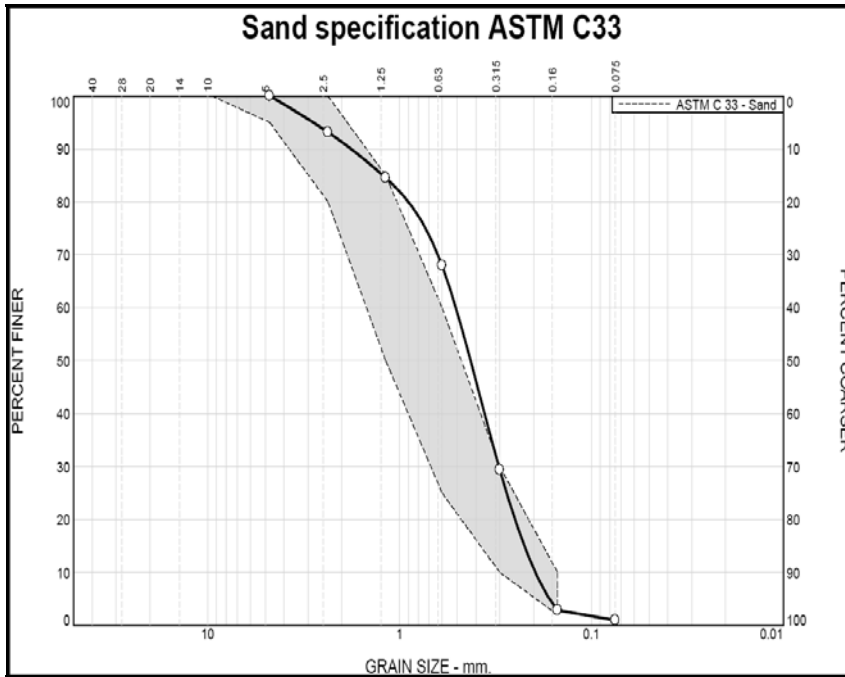


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. 000800

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 2 to 25 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	6.8	93.2	80 - 100
No. 16	8.6	84.5	50 - 85
No. 30	16.5	68.0	25 - 60
No. 50	38.6	29.4	10 - 30
No. 100	26.5	2.9	2 - 10
No. 200	1.9	1.0	
Pan	1.0		

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

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	3.7		
Percent Gravel 0.75 inch to #4 sieve	9.4		
<b>Total Percent Gravel</b>		<b>17.0</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	
2 - 10	13.9	5.3	2.6	6.0	32.1
10 - 15	6.6	0.0	1.7	4.9	23.9
15 - 20	15.4	2.8	3.1	9.5	24.1
20 - 25	34.3	6.4	8.3	19.5	26.5

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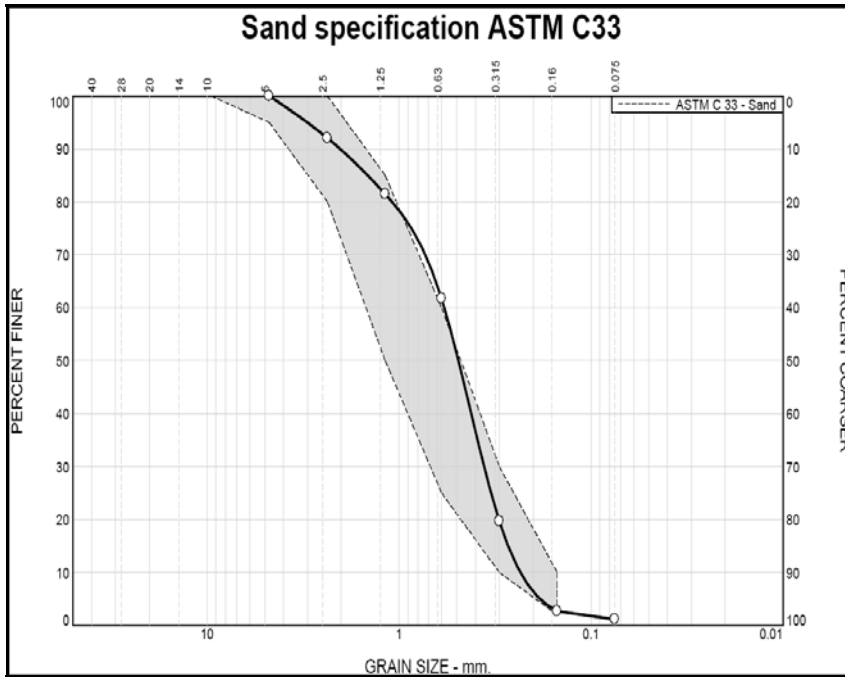
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO1200

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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	8.0	92.0	80 - 100
No. 16	10.6	81.5	50 - 85
No. 30	19.7	61.7	25 - 60
No. 50	42.1	19.7	10 - 30
No. 100	17.0	2.7	2 - 10
No. 200	1.5	1.1	
Pan	1.1		

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

Percent Gravel + 1.5 inch	0.7		
Percent Gravel 1.5 to 0.75 inches	2.5		
Percent Gravel 0.75 inch to #4 sieve	8.1	<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	7.5	0.0	1.0	6.5	25.7
10 - 15	7.8	3.0	1.2	3.6	24.7
15 - 20	5.0	0.0	2.0	3.0	24.6
20 - 25	5.7	0.0	0.8	4.9	23.8
25 - 30	15.3	0.0	6.8	8.5	24.2
30 - 35	15.7	1.1	3.4	11.2	25.1
35 - 40	22.8	1.5	2.5	18.7	19.5
40 - 45	10.9	0.0	2.1	8.8	14.3

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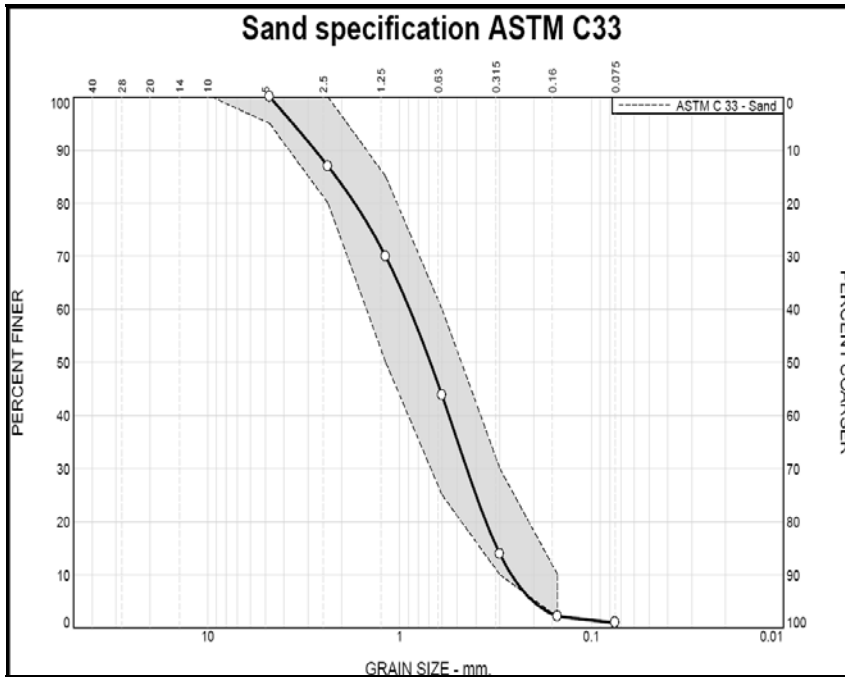
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO1400

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 42 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	13.0	87.0	80 - 100
No. 16	17.0	69.9	50 - 85
No. 30	26.2	43.8	25 - 60
No. 50	29.9	13.9	10 - 30
No. 100	11.8	2.1	2 - 10
No. 200	1.2	0.9	
Pan	0.9		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 42 feet

Percent Gravel + 1.5 inch	2.4		
Percent Gravel 1.5 to 0.75 inches	4.5		
Percent Gravel 0.75 inch to #4 sieve	16.9		
<b>Total Percent Gravel</b>		<b>23.9</b>	

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Individual Intervals	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	16.2	0.0	2.7	31.8
10 - 15	30.2	3.6	4.1	25.9
15 - 20	28.4	9.5	2.3	21.5
20 - 25	21.4	1.6	4.6	17.7
25 - 30	26.3	0.0	7.8	25.8
30 - 35	25.7	1.0	5.1	21.2
35 - 42	21.6	2.0	5.3	25.0

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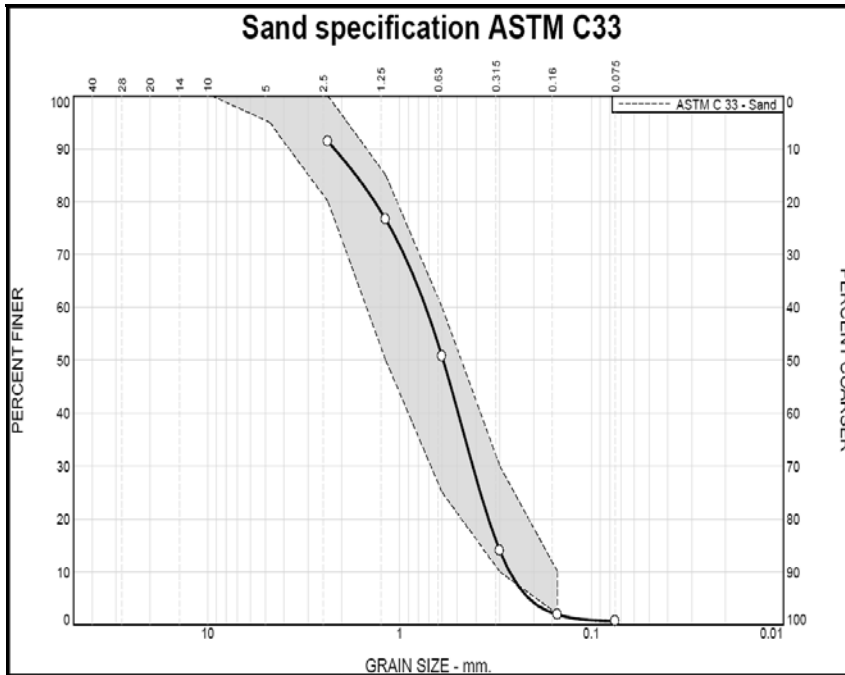
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO1600

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 48 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	14.8	76.6	50 - 85
No. 30	25.9	50.7	25 - 60
No. 50	36.8	13.9	10 - 30
No. 100	12.1	1.9	2 - 10
No. 200	1.2	0.7	
Pan	0.7		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 6 to 48 feet

Percent Gravel + 1.5 inch	3.9		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	13.6		
<b>Total Percent Gravel</b>		<b>22.2</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	
6 - 15	15.7	8.2	4.3	3.2	26.3
15 - 20	37.4	8.3	12.9	16.2	41.0
20 - 25	26.1	12.2	4.2	9.7	26.4
25 - 30	25.2	1.6	5.3	18.3	42.0
30 - 35	25.4	4.2	3.1	18.1	34.4
35 - 40	20.0	0.0	2.1	18.0	24.2
40 - 45	21.2	0.0	6.1	15.1	31.1
45 - 58	18.2	0.0	2.9	15.3	42.2

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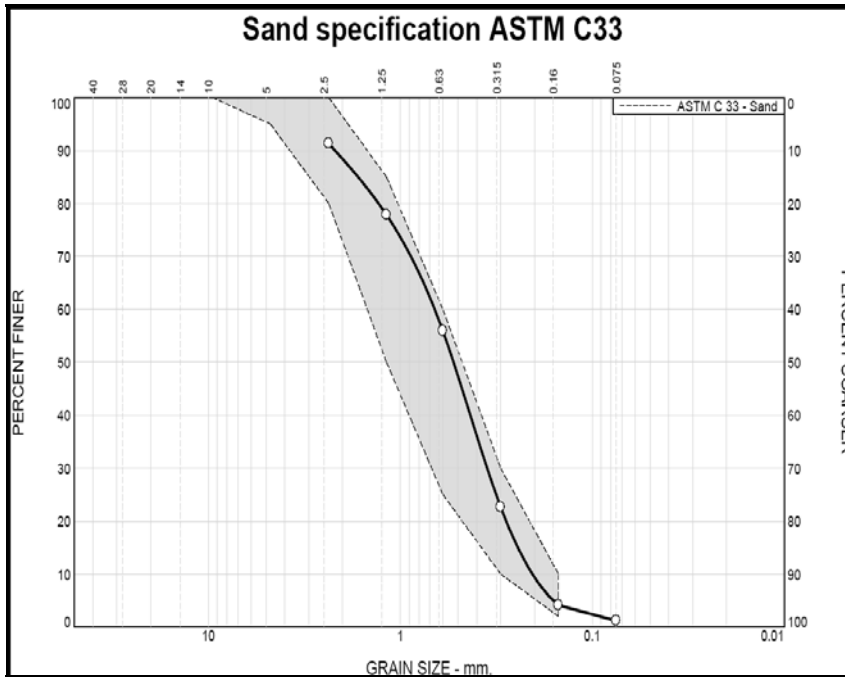
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO1800

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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	8.7	91.3	80 - 100
No. 16	13.5	77.8	50 - 85
No. 30	21.9	55.9	25 - 60
No. 50	33.3	22.6	10 - 30
No. 100	18.5	4.1	2 - 10
No. 200	2.9	1.2	
Pan	1.2		

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

Percent Gravel + 1.5 inch	2.6		
Percent Gravel 1.5 to 0.75 inches	5.0		
Percent Gravel 0.75 inch to #4 sieve	13.4		
<b>Total Percent Gravel</b>		<b>20.9</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	17.7	2.4	7.4	36.8
15 - 25	11.8	0.0	3.2	27.9
25 - 30	26.6	4.3	6.4	37.1
30 - 35	33.2	12.6	5.4	32.3
35 - 40	24.2	3.9	3.6	37.5
40 - 45	9.1	0.0	3.3	18.9
45 - 50	25.7	0.8	3.1	27.7
50 - 58	28.5	1.0	5.2	40.5

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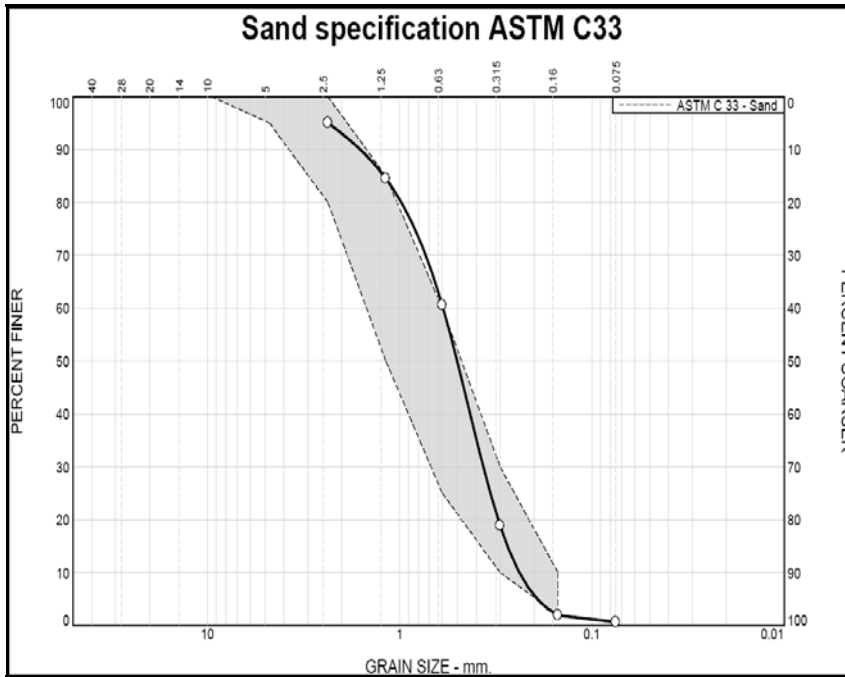
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO2000

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### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4 to 55 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	10.5	84.5	50 - 85
No. 30	23.9	60.6	25 - 60
No. 50	41.7	18.9	10 - 30
No. 100	17.0	1.9	2 - 10
No. 200	1.3	0.6	
Pan	0.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4 to 55 feet

Percent Gravel + 1.5 inch	5.0		
Percent Gravel 1.5 to 0.75 inches	5.0	<b>Total Percent Gravel</b>	<b>18.7</b>
Percent Gravel 0.75 inch to #4 sieve	8.6		

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

Interval	PERCENT GRAVEL			Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	
4 - 10	9.6	2.5	3.9	27.3
10 - 15	20.7	5.6	9.0	31.2
15 - 20	31.8	7.7	8.8	36.3
20 - 25	18.3	3.0	5.7	30.4
25 - 30	15.6	4.0	3.4	30.5
30 - 35	25.8	13.7	3.7	37.6
35 - 40	19.5	2.8	5.7	28.8
40 - 45	18.7	2.2	5.3	28.6
45 - 50	17.6	9.1	1.7	26.6
50 - 55	10.7	0.0	3.1	26.8

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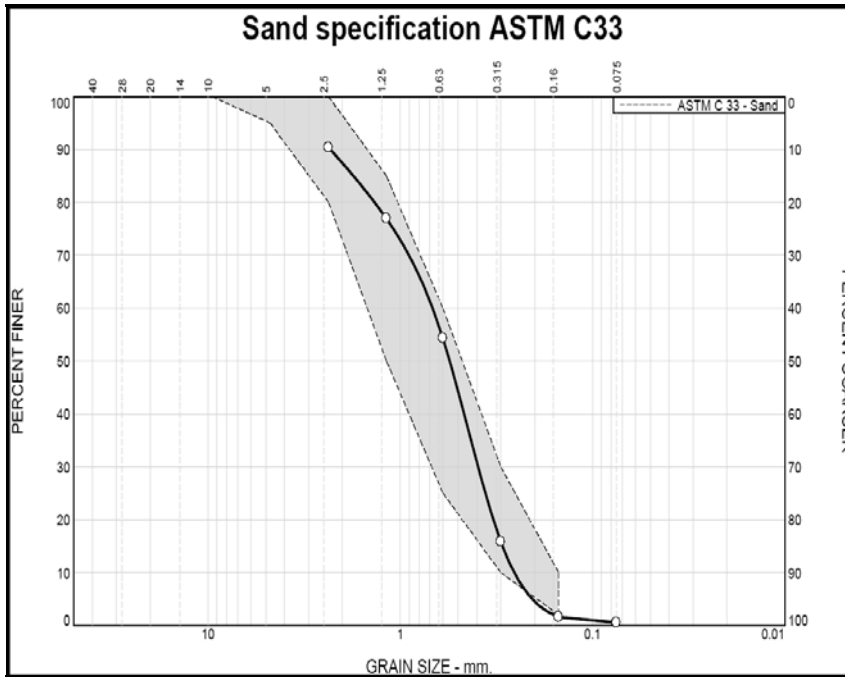
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO2200

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 50 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	9.6	90.4	80 - 100
No. 16	13.5	76.9	50 - 85
No. 30	22.6	54.3	25 - 60
No. 50	38.5	15.8	10 - 30
No. 100	14.2	1.6	2 - 10
No. 200	1.0	0.6	
Pan	0.6		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 50 feet

Percent Gravel + 1.5 inch	2.3		
Percent Gravel 1.5 to 0.75 inches	5.4		
Percent Gravel 0.75 inch to #4 sieve	14.8		
		<b>Total Percent Gravel</b>	<b>22.6</b>

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
1 - 10	13.7	0.9	4.6	8.3	37.5
10 - 15	25.8	2.7	7.6	15.5	32.7
15 - 20	32.1	6.0	6.1	20.0	35.5
20 - 25	35.3	5.2	6.8	23.3	36.2
25 - 30	21.5	1.0	5.0	15.5	27.4
30 - 35	23.6	0.0	7.5	16.1	27.7
35 - 40	30.1	1.0	7.0	22.0	33.3
40 - 45	15.4	1.1	1.7	12.6	22.6
45 - 50	13.1	4.2	3.3	5.6	23.6

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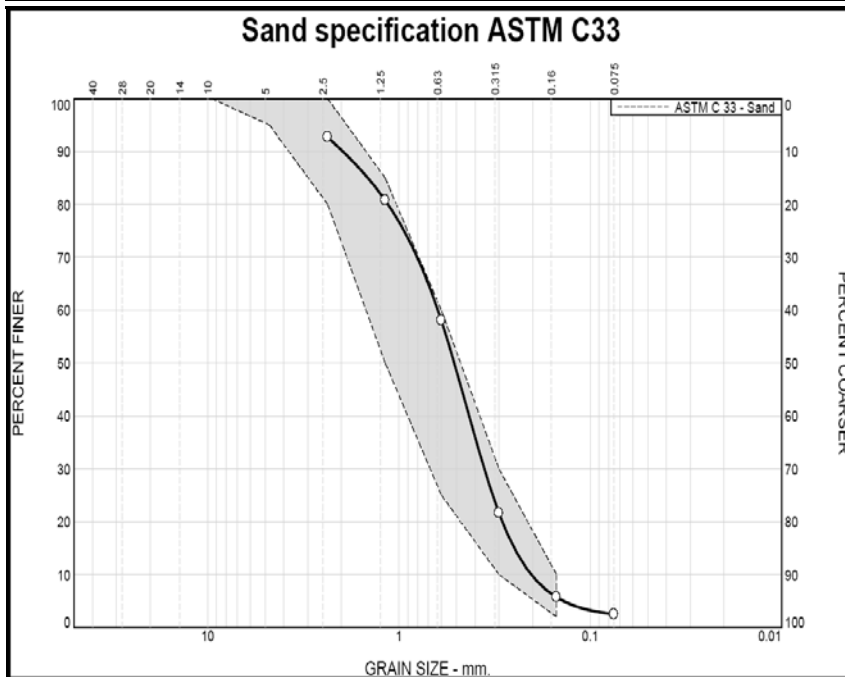
May 30, 2008 ProSource Project No. 1819-00

# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO2700

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 5 to 78 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	7.3	92.7	80 - 100
No. 16	11.9	80.8	50 - 85
No. 30	22.7	58.0	25 - 60
No. 50	36.4	21.6	10 - 30
No. 100	15.9	5.7	2 - 10
No. 200	3.2	2.5	
Pan	2.5		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 5 to 78 feet

Percent Gravel + 1.5 inch	3.6		
Percent Gravel 1.5 to 0.75 inches	6.1		
Percent Gravel 0.75 inch to #4 sieve	12.7		
<b>Total Percent Gravel</b>		<b>22.3</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 - 20	10.4	1.9	4.2	4.3	40.2
20 - 30	33.2	5.8	10.3	17.1	40.2
30 - 40	28.8	5.7	6.3	16.8	44.5
40 - 50	28.9	5.9	6.6	16.5	61.7
50 - 60	19.3	2.4	5.4	11.5	55.8
60 - 70	9.2	0.0	1.0	8.1	49.4
70 - 78	34.9	4.4	10.7	19.9	43.6

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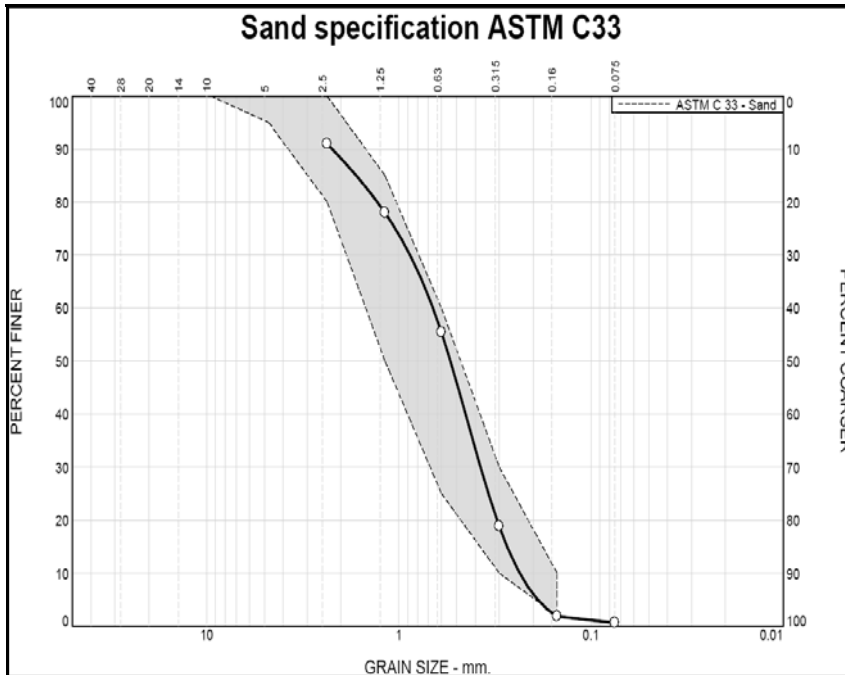


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO2800

Page 1 of 1

### 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	9.0	91.0	80 - 100
No. 16	13.0	78.0	50 - 85
No. 30	22.5	55.4	25 - 60
No. 50	36.6	18.8	10 - 30
No. 100	17.0	1.8	2 - 10
No. 200	1.2	0.6	
Pan	0.6		

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

Percent Gravel + 1.5 inch	4.2		
Percent Gravel 1.5 to 0.75 inches	5.1		
Percent Gravel 0.75 inch to #4 sieve	13.4		
<b>Total Percent Gravel</b>		<b>22.7</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	18.4	3.1	6.5	38.8
15 - 25	13.3	4.3	1.9	28.8
25 - 30	30.0	2.1	4.3	36.6
30 - 35	20.0	4.5	3.4	41.2
35 - 40	27.6	9.9	5.7	43.6
40 - 45	29.4	8.5	8.1	37.8
45 - 60	26.9	2.1	5.8	60.0

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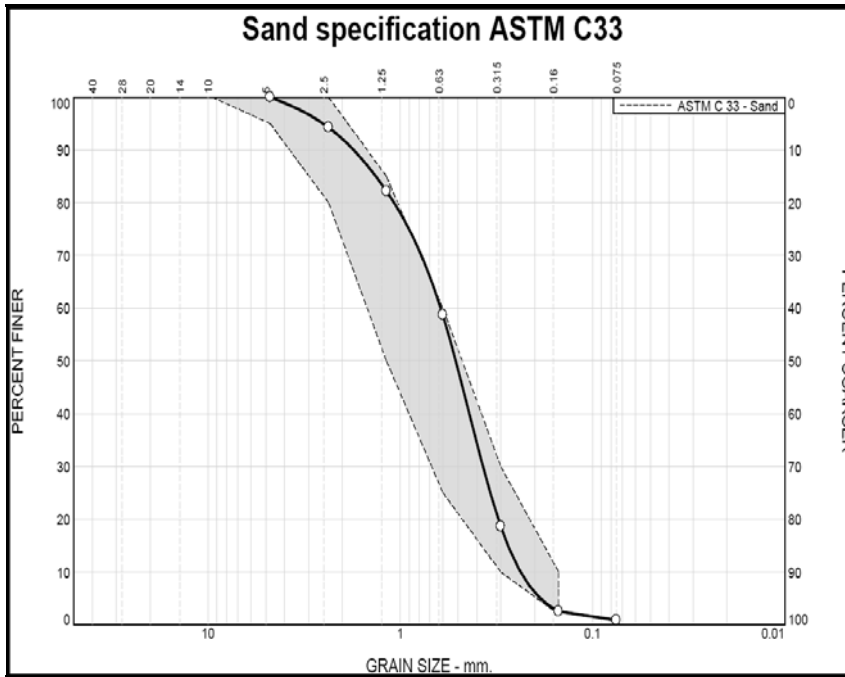
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO3000

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 4.5 to 60 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	5.7	94.3	80 - 100
No. 16	12.1	82.2	50 - 85
No. 30	23.5	58.7	25 - 60
No. 50	40.1	18.6	10 - 30
No. 100	16.1	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 4.5 to 60 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	3.5		
Percent Gravel 0.75 inch to #4 sieve	11.8		
<b>Total Percent Gravel</b>		<b>17.2</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 - 20	5.4	0.7	1.1	3.7	32.2
20 - 25	24.0	0.0	4.7	19.3	31.6
25 - 30	23.2	0.8	6.4	16.1	36.4
30 - 35	22.4	1.5	4.2	16.7	33.4
35 - 40	33.4	11.1	6.5	15.8	34.9
40 - 45	22.2	0.0	4.8	17.4	23.4
45 - 50	17.0	5.3	2.9	8.8	27.8
50 - 55	12.5	1.0	2.7	8.8	21.6
55 - 60	19.9	0.0	3.4	16.4	20.7

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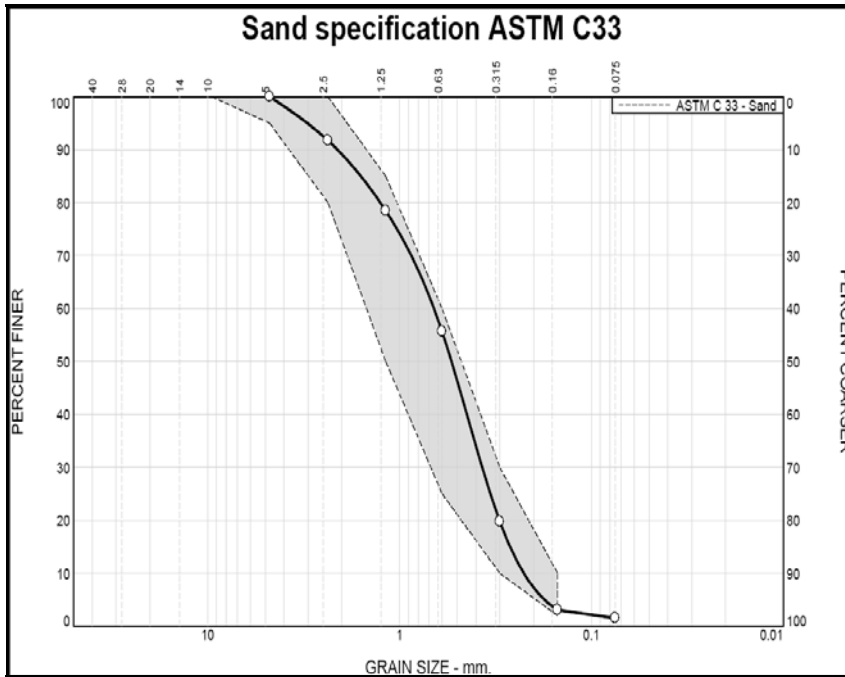
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO3200

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 6 to 55 feet



Sieve	Wt. % Ret.	% Passing	ASTM C33
No. 4	0.0	100.0	95 - 100
No. 8	8.3	91.7	80 - 100
No. 16	13.3	78.5	50 - 85
No. 30	22.8	55.7	25 - 60
No. 50	35.9	19.8	10 - 30
No. 100	16.7	3.1	2 - 10
No. 200	1.5	1.5	
Pan	1.5		

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

Percent Gravel + 1.5 inch	5.4		
Percent Gravel 1.5 to 0.75 inches	4.7		
Percent Gravel 0.75 inch to #4 sieve	13.9		
<b>Total Percent Gravel</b>		<b>24.0</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	
6 - 15	10.0	0.0	3.2	6.9	26.5
15 - 20	10.1	0.0	1.3	8.7	15.7
20 - 25	35.1	11.8	5.2	18.1	27.3
25 - 30	29.7	9.2	6.2	14.2	41.5
30 - 35	33.6	10.9	5.8	16.9	33.0
35 - 40	32.0	7.5	6.9	17.5	38.5
40 - 45	30.4	6.2	6.3	17.8	32.0
45 - 50	22.4	7.2	5.0	10.2	31.5
50 - 55	23.5	0.0	3.6	20.0	41.9

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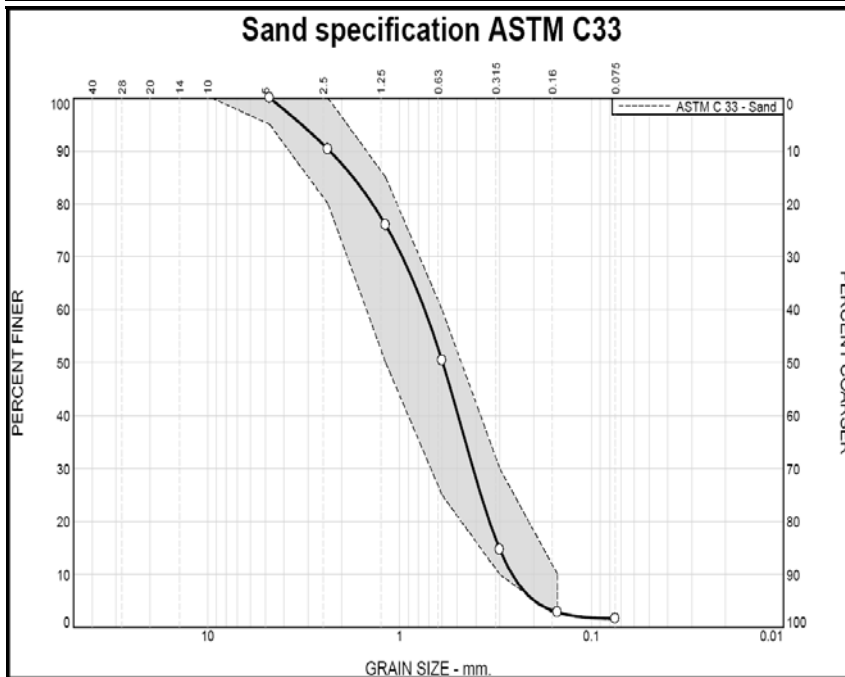
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO3400

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 7 to 36 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	14.3	76.0	50 - 85
No. 30	25.6	50.4	25 - 60
No. 50	35.7	14.7	10 - 30
No. 100	11.8	2.9	2 - 10
No. 200	1.2	1.7	
Pan	1.7		

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 7 to 36 feet

Percent Gravel + 1.5 inch	2.0		
Percent Gravel 1.5 to 0.75 inches	4.6		
Percent Gravel 0.75 inch to #4 sieve	20.9		
<b>Total Percent Gravel</b>		<b>27.5</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	
7 - 10	36.3	10.4	7.4	18.5	30.9
10 - 20	28.3	0.6	4.7	23.0	35.1
20 - 25	13.8	0.0	3.5	10.3	13.2
25 - 30	27.9	4.0	3.4	20.5	25.6
30 - 36	32.7	0.0	4.8	27.9	25.3

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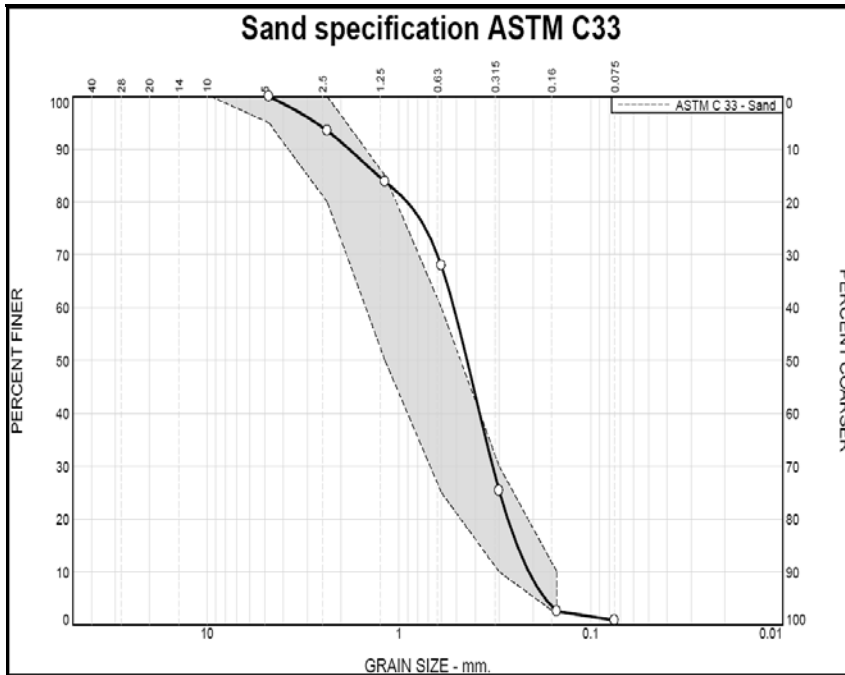
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. OO3600

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### 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	6.5	93.5	80 - 100
No. 16	9.6	83.9	50 - 85
No. 30	15.9	68.0	25 - 60
No. 50	42.6	25.4	10 - 30
No. 100	22.8	2.5	2 - 10
No. 200	1.7	0.8	
Pan	0.8		

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

Percent Gravel + 1.5 inch	0.7		
Percent Gravel 1.5 to 0.75 inches	3.8	<b>Total Percent Gravel</b>	<b>15.7</b>
Percent Gravel 0.75 inch to #4 sieve	11.3		

SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS	PERCENT GRAVEL				Sample Wt. (lbs.)
	Total	+ 1.5 inch	1.5 to 0.75 inch	0.75 inch to #4	
4 - 15	3.6	0.0	0.9	2.7	29.8
15 - 25	4.6	0.0	1.8	2.8	27.7
25 - 30	19.8	0.6	7.4	11.8	33.7
30 - 35	46.6	2.0	7.8	36.8	37.9
35 - 40	29.7	2.2	6.4	21.1	27.1

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