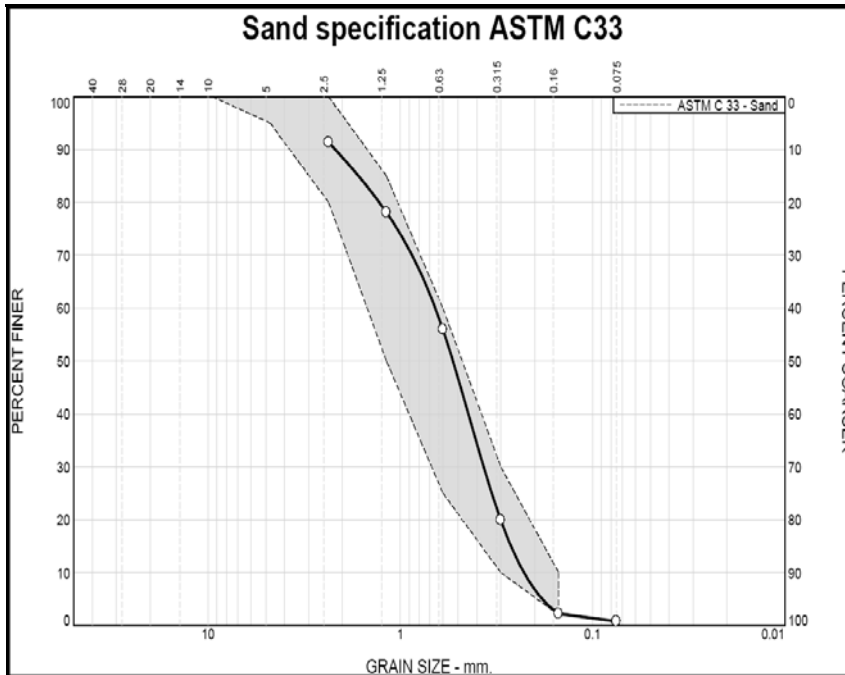


# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. T1050

Page 1 of 1

### 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   | 8.6        | 91.4      | 80 - 100 |
| No. 16  | 13.3       | 78.1      | 50 - 85  |
| No. 30  | 22.1       | 56.0      | 25 - 60  |
| No. 50  | 36.1       | 19.9      | 10 - 30  |
| No. 100 | 17.7       | 2.2       | 2 - 10   |
| No. 200 | 1.4        | 0.8       |          |
| Pan     | 0.8        |           |          |

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 feet

|                                      |      |             |  |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch            | 2.7  |             |  |
| Percent Gravel 1.5 to 0.75 inches    | 5.0  |             |  |
| Percent Gravel 0.75 inch to #4 sieve | 10.8 |             |  |
| <b>Total Percent Gravel</b>          |      | <b>18.5</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 - 10   | 20.5  | 4.2            | 4.8              | 11.5            | 43.1              |
| 10 - 15  | 16.9  | 2.8            | 4.4              | 9.6             | 33.8              |
| 15 - 20  | 8.0   | 0.0            | 2.2              | 5.9             | 24.7              |
| 20 - 25  | 12.1  | 0.5            | 4.0              | 7.5             | 28.4              |
| 25 - 30  | 16.8  | 2.6            | 5.1              | 9.2             | 26.6              |
| 30 - 35  | 20.7  | 1.8            | 8.0              | 10.9            | 28.8              |
| 35 - 40  | 31.2  | 5.5            | 7.4              | 18.3            | 33.8              |
| 40 - 45  | 21.0  | 3.5            | 4.3              | 13.2            | 28.5              |

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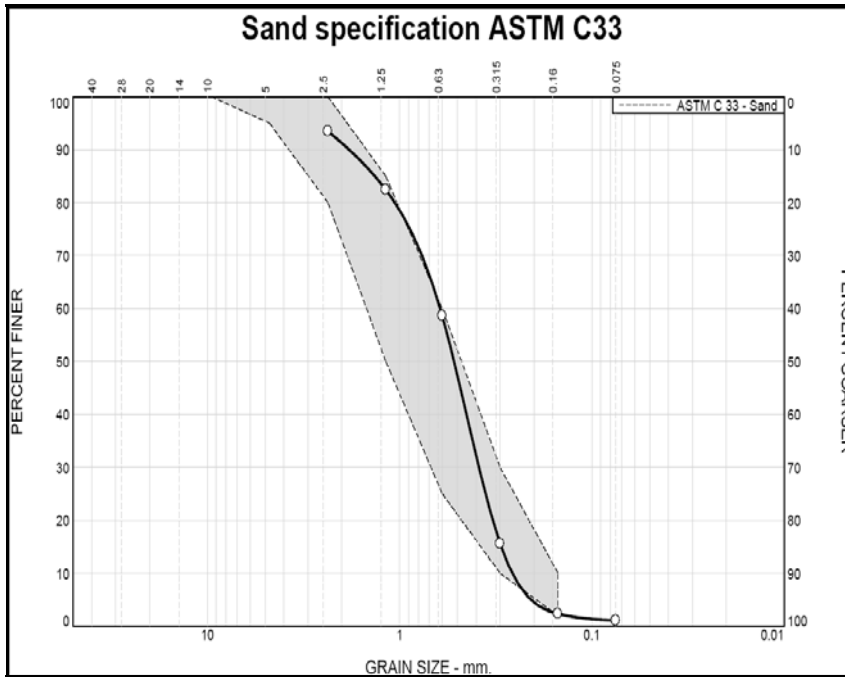
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT0850

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 3 to 33 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  | 11.1       | 82.4      | 50 - 85  |
| No. 30  | 23.8       | 58.6      | 25 - 60  |
| No. 50  | 43.1       | 15.6      | 10 - 30  |
| No. 100 | 13.2       | 2.4       | 2 - 10   |
| No. 200 | 1.3        | 1.1       |          |
| Pan     | 1.1        |           |          |

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 33 feet

|                                      |      |                             |             |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch            | 1.6  |                             |             |
| Percent Gravel 1.5 to 0.75 inches    | 3.9  | <b>Total Percent Gravel</b> | <b>16.9</b> |
| Percent Gravel 0.75 inch to #4 sieve | 11.4 |                             |             |

### 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 - 15   | 4.8            | 0.0        | 1.5              | 3.3             | 32.4              |
| 15 - 20  | 19.4           | 5.4        | 4.7              | 9.2             | 35.1              |
| 20 - 25  | 14.0           | 1.7        | 2.5              | 9.9             | 29.8              |
| 25 - 33  | 35.2           | 1.6        | 7.9              | 25.7            | 46.8              |

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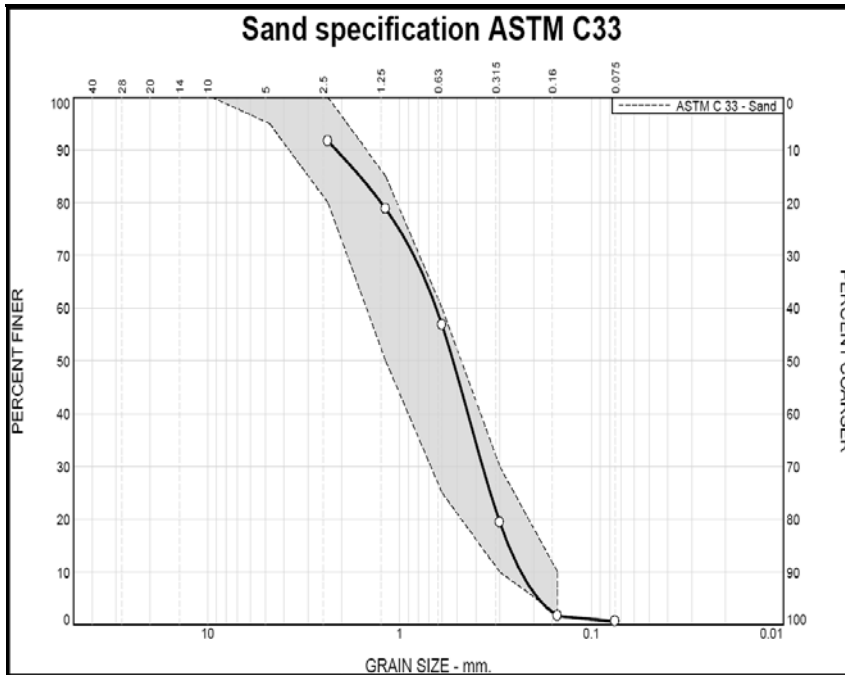
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT1050

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   | 8.3        | 91.7      | 80 - 100 |
| No. 16  | 12.9       | 78.8      | 50 - 85  |
| No. 30  | 22.0       | 56.8      | 25 - 60  |
| No. 50  | 37.4       | 19.4      | 10 - 30  |
| No. 100 | 17.8       | 1.6       | 2 - 10   |
| No. 200 | 1.0        | 0.6       |          |
| Pan     | 0.6        |           |          |

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

|                                      |      |             |  |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch            | 3.9  |             |  |
| Percent Gravel 1.5 to 0.75 inches    | 4.8  |             |  |
| Percent Gravel 0.75 inch to #4 sieve | 12.6 |             |  |
| <b>Total Percent Gravel</b>          |      | <b>21.4</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   | 6.9            | 1.0        | 2.8              | 3.0             | 29.8              |
| 15 - 20  | 26.2           | 7.0        | 9.3              | 9.9             | 36.2              |
| 20 - 25  | 29.1           | 3.7        | 8.8              | 16.6            | 31.3              |
| 25 - 30  | 34.8           | 6.1        | 4.8              | 23.9            | 42.3              |
| 30 - 35  | 34.2           | 13.3       | 4.5              | 16.4            | 21.2              |
| 35 - 45  | 18.0           | 0.0        | 2.9              | 15.1            | 39.3              |

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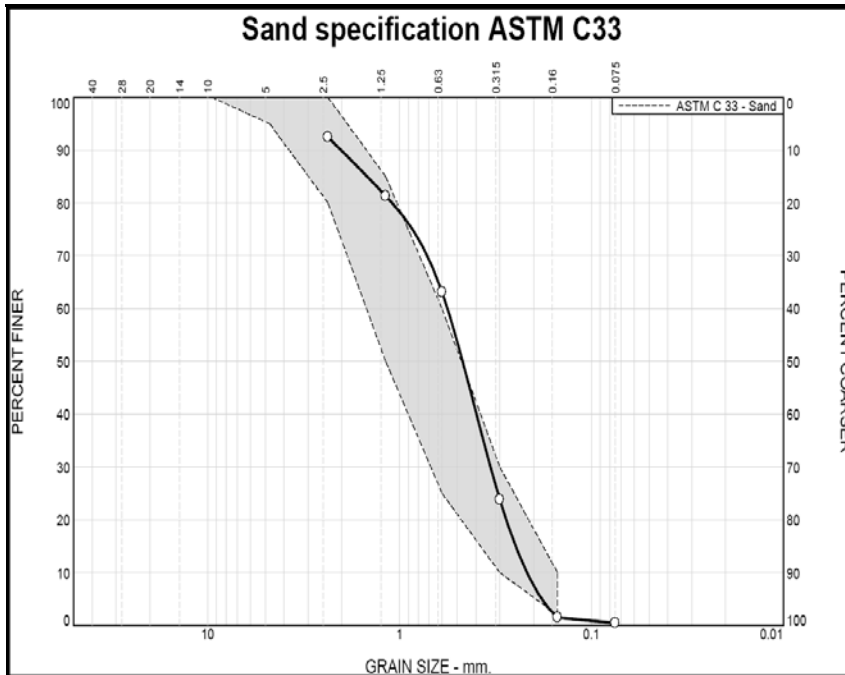
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT1250

Page 1 of 1

### 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   | 7.5        | 92.5      | 80 - 100 |
| No. 16  | 11.1       | 81.3      | 50 - 85  |
| No. 30  | 18.2       | 63.1      | 25 - 60  |
| No. 50  | 39.3       | 23.8      | 10 - 30  |
| No. 100 | 22.3       | 1.5       | 2 - 10   |
| No. 200 | 1.1        | 0.4       |          |
| Pan     | 0.4        |           |          |

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 3 to 45 feet

|                                      |      |                             |             |
|--------------------------------------|------|-----------------------------|-------------|
| Percent Gravel + 1.5 inch            | 3.3  |                             |             |
| Percent Gravel 1.5 to 0.75 inches    | 5.1  | <b>Total Percent Gravel</b> | <b>19.5</b> |
| Percent Gravel 0.75 inch to #4 sieve | 11.1 |                             |             |

| SUMMARY OF PERCENT GRAVEL<br>INDIVIDUAL INTERVALS | PERCENT GRAVEL |            |                  |                 | Sample<br>Wt. (lbs.) |
|---|----------------|------------|------------------|-----------------|----------------------|
|   | Total          | + 1.5 inch | 1.5 to 0.75 inch | 0.75 inch to #4 |                      |
| 3 - 10  | 12.0           | 4.8        | 2.3              | 4.9             | 21.0                 |
| 10 - 20   | 6.0            | 1.8        | 1.5              | 2.7             | 27.3                 |
| 20 - 25   | 26.9           | 2.9        | 11.8             | 12.1            | 31.0                 |
| 25 - 30   | 27.6           | 1.0        | 7.1              | 19.5            | 30.2                 |
| 30 - 35   | 34.6           | 12.6       | 6.5              | 15.6            | 41.2                 |
| 35 - 40   | 24.3           | 0.0        | 7.3              | 17.0            | 32.4                 |
| 40 - 45   | 22.0           | 1.0        | 4.2              | 16.8            | 25.5                 |

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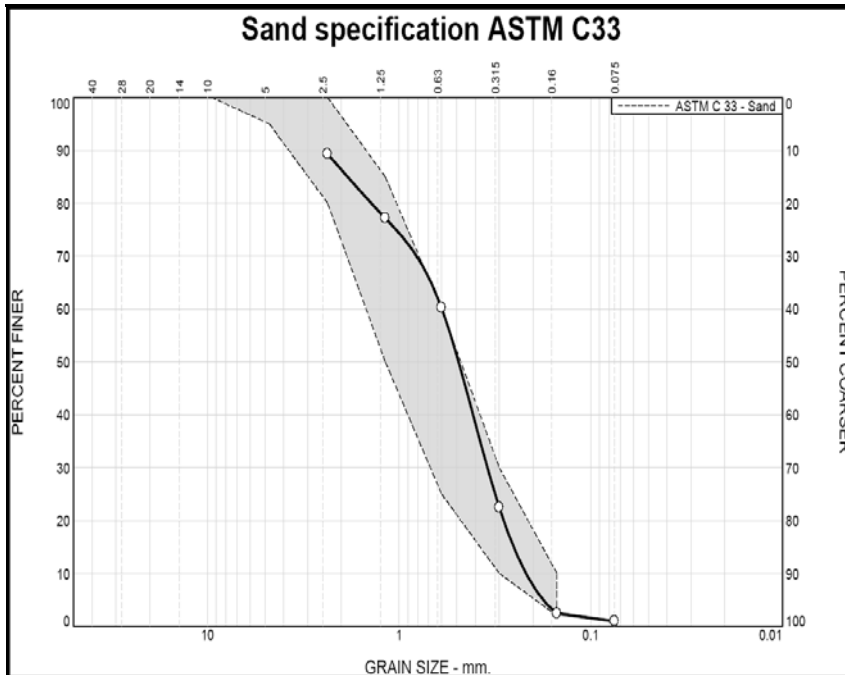
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT1450

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   | 10.7       | 89.3      | 80 - 100 |
| No. 16  | 12.1       | 77.1      | 50 - 85  |
| No. 30  | 16.9       | 60.2      | 25 - 60  |
| No. 50  | 37.8       | 22.5      | 10 - 30  |
| No. 100 | 20.0       | 2.4       | 2 - 10   |
| No. 200 | 1.5        | 1.0       |          |
| Pan     | 1.0        |           |          |

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

|                                      |      |             |  |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch            | 2.4  |             |  |
| Percent Gravel 1.5 to 0.75 inches    | 6.4  |             |  |
| Percent Gravel 0.75 inch to #4 sieve | 19.5 |             |  |
| <b>Total Percent Gravel</b>          |      | <b>28.3</b> |  |

### SUMMARY OF PERCENT GRAVEL INDIVIDUAL INTERVALS

| Interval | PERCENT GRAVEL |            |                  | Sample Wt. (lbs.) |
|----------|----------------|------------|------------------|-------------------|
|          | Total          | + 1.5 inch | 1.5 to 0.75 inch |                   |
| 7 - 20   | 8.2            | 2.2        | 1.0              | 26.3              |
| 20 - 25  | 33.8           | 5.1        | 10.5             | 25.3              |
| 25 - 30  | 49.3           | 4.3        | 12.2             | 57.4              |
| 30 - 35  | 44.7           | 0.0        | 10.5             | 31.1              |
| 35 - 40  | 34.1           | 1.7        | 5.7              | 28.2              |
| 40 - 45  | 32.1           | 1.4        | 7.4              | 24.2              |

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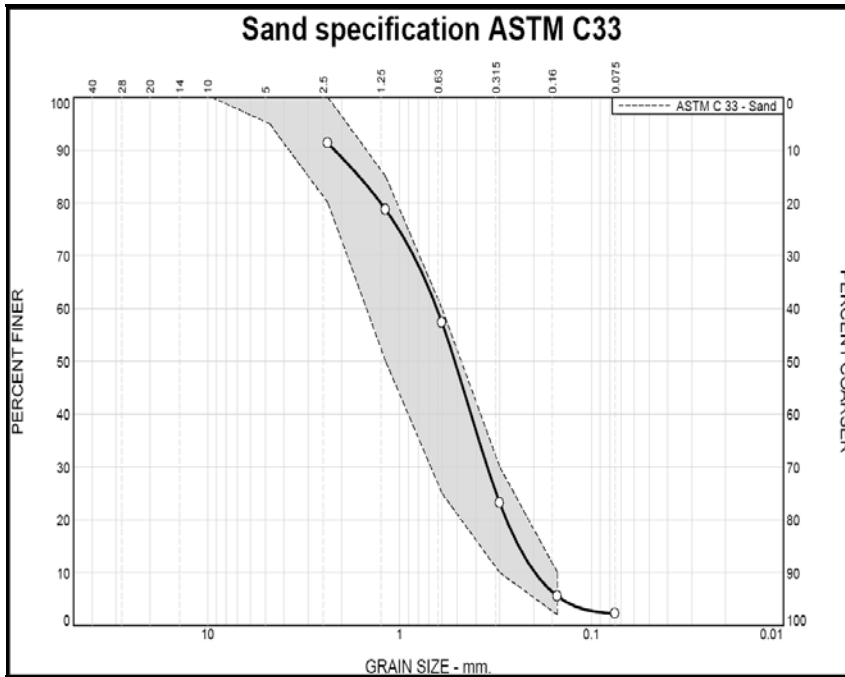
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT1850

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 1 to 96 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  | 12.6       | 87.4      | 50 - 85  |
| No. 30  | 21.4       | 78.6      | 25 - 60  |
| No. 50  | 34.2       | 65.8      | 10 - 30  |
| No. 100 | 17.6       | 82.4      | 2 - 10   |
| No. 200 | 3.3        | 96.7      |          |
| Pan     | 2.2        |           |          |

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 1 to 96 feet

|                                      |      |             |  |
|--------------------------------------|------|-------------|--|
| Percent Gravel + 1.5 inch            | 2.7  |             |  |
| Percent Gravel 1.5 to 0.75 inches    | 5.6  |             |  |
| Percent Gravel 0.75 inch to #4 sieve | 12.3 |             |  |
| <b>Total Percent Gravel</b>          |      | <b>20.6</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 |                   |
| 1 - 10   | 4.2            | 0.6        | 1.3              | 2.3             | 35.9              |
| 10 - 20  | 11.9           | 3.0        | 2.8              | 6.1             | 50.8              |
| 20 - 30  | 6.8            | 0.0        | 1.2              | 5.6             | 35.0              |
| 30 - 40  | 25.9           | 3.3        | 6.9              | 15.7            | 45.9              |
| 40 - 45  | 54.7           | 9.4        | 18.0             | 27.3            | 32.7              |
| 45 - 50  | 15.1           | 0.0        | 2.4              | 12.7            | 31.9              |
| 50 - 60  | 8.1            | 1.0        | 1.4              | 5.7             | 24.7              |
| 60 - 65  | 19.6           | 3.1        | 5.0              | 11.6            | 38.5              |
| 65 - 70  | 67.2           | 11.4       | 20.7             | 35.0            | 46.4              |
| 70 - 75  | 34.6           | 5.1        | 10.5             | 19.1            | 38.7              |
| 75 - 80  | 10.8           | 0.0        | 3.1              | 7.7             | 37.8              |
| 80 - 88  | 16.5           | 0.6        | 4.3              | 11.6            | 29.0              |
| 88 - 96  | 31.1           | 3.8        | 8.2              | 19.1            | 35.2              |

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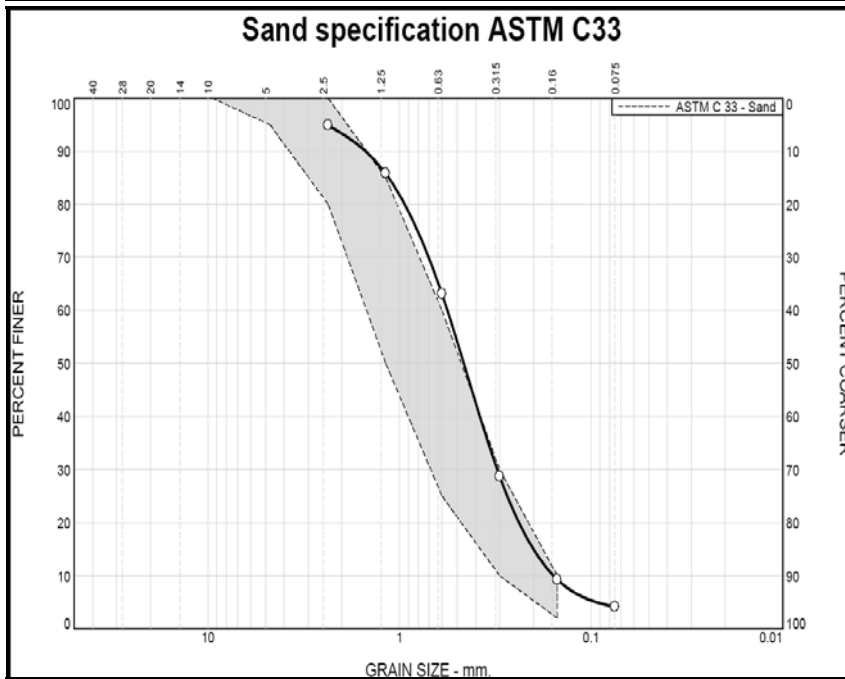
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# LABORATORY TEST DATA SUMMARY SHEET

## HOLE NO. TT2950

Page 1 of 1

### SUMMARY OF SAND GRADATION FOR THE INTERVAL 8 to 60 feet



| Sieve   | Wt. % Ret. | % Passing | ASTM C33 |
|---------|------------|-----------|----------|
| No. 4   | 0.0        | 100.0     | 95 - 100 |
| No. 8   | 5.1        | 94.9      | 80 - 100 |
| No. 16  | 9.1        | 85.8      | 50 - 85  |
| No. 30  | 22.7       | 63.1      | 25 - 60  |
| No. 50  | 34.4       | 28.7      | 10 - 30  |
| No. 100 | 19.4       | 9.2       | 2 - 10   |
| No. 200 | 5.1        | 4.1       |          |
| Pan     | 4.1        |           |          |

### SUMMARY OF WEIGHTED AVERAGE PERCENT GRAVEL FOR THE INTERVAL 8 to 60 feet

|                                      |     |                             |             |
|--------------------------------------|-----|-----------------------------|-------------|
| Percent Gravel + 1.5 inch            | 2.9 |                             |             |
| Percent Gravel 1.5 to 0.75 inches    | 2.5 | <b>Total Percent Gravel</b> | <b>13.5</b> |
| Percent Gravel 0.75 inch to #4 sieve | 8.1 |                             |             |

| SUMMARY OF PERCENT GRAVEL<br>INDIVIDUAL INTERVALS | PERCENT GRAVEL |            |                  |                 | Sample<br>Wt. (lbs.) |
|---|----------------|------------|------------------|-----------------|----------------------|
|   | Total          | + 1.5 inch | 1.5 to 0.75 inch | 0.75 inch to #4 |                      |
| 8 - 20  | 7.0            | 1.1        | 2.7              | 3.2             | 26.1                 |
| 20 - 30   | 3.8            | 0.0        | 0.6              | 3.2             | 21.7                 |
| 30 - 40   | 15.0           | 9.8        | 1.2              | 4.0             | 25.1                 |
| 40 - 50   | 19.7           | 1.6        | 3.7              | 14.5            | 55.8                 |
| 50 - 60   | 23.4           | 2.4        | 4.5              | 16.6            | 58.5                 |

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