



# Illinois Department of Transportation

Division of Highways  
GSG Consultants

## SOIL BORING LOG

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Date 7/13/23

ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

COUNTY Will DRILLING RIG Diedrich D-50 Latitude 41.512272, Longitude -88.093344  
DRILLING METHOD HSA HAMMER TYPE Auto  
HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-101  
Station \_\_\_\_\_  
Offset \_\_\_\_\_  
Ground Surface Elev. 538.00 ft

| D<br>E<br>P<br>T<br>H<br><br>(ft) | B<br>L<br>O<br>W<br>S<br><br>(/6") | U<br>C<br>S<br><br>(tsf) | M<br>O<br>I<br>S<br>T<br><br>(%) |
|-----------------------------------|------------------------------------|--------------------------|----------------------------------|
|-----------------------------------|------------------------------------|--------------------------|----------------------------------|

Surface Water Elev. N/A ft  
Stream Bed Elev. N/A ft  
  
Groundwater Elev.:  
First Encounter 530.5 ft ▼  
Upon Completion N/A ft  
After \_\_\_\_\_ Hrs. N/A ft

6 inches of Gravel 537.50

Medium Dense to Very Dense  
Light Gray, Moist  
GRAVEL, with sand (GP)

|    |  |  |  |
|----|--|--|--|
| 23 |  |  |  |
| 21 |  |  |  |
| 30 |  |  |  |
| 13 |  |  |  |
| 17 |  |  |  |
| 11 |  |  |  |
| -5 |  |  |  |

|    |  |  |  |
|----|--|--|--|
| 11 |  |  |  |
| 13 |  |  |  |
| 10 |  |  |  |

|     |  |  |  |
|-----|--|--|--|
| 5   |  |  |  |
| 7   |  |  |  |
| 4   |  |  |  |
| -10 |  |  |  |

527.00

Very Dense to Extremely Dense  
Light Gray, Moist  
SAND (SP)

|       |  |  |  |
|-------|--|--|--|
| 14    |  |  |  |
| 27    |  |  |  |
| 34    |  |  |  |
| 50/1" |  |  |  |

|       |  |  |  |
|-------|--|--|--|
| -15   |  |  |  |
| 50/1" |  |  |  |

519.50

Auger Refusal at 18.5 feet  
End of Boring

|     |  |  |  |
|-----|--|--|--|
| -20 |  |  |  |
|-----|--|--|--|

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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|     |  |  |  |
|-----|--|--|--|
| -20 |  |  |  |
|-----|--|--|--|

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Date 7/13/23

ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

Latitude 41.5130525, Longitude -088.0929643

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto  
DRILLING METHOD HSA HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-103

Station

Offset

Ground Surface Elev. 541.60 ft

| D<br>E<br>P<br>T<br>H<br><br>(ft) | B<br>L<br>O<br>W<br>S<br><br>(/6") | U<br>C<br>S<br><br>(tsf) | M<br>O<br>I<br>S<br>T<br><br>(%) |
|-----------------------------------|------------------------------------|--------------------------|----------------------------------|
|-----------------------------------|------------------------------------|--------------------------|----------------------------------|

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.:

First Encounter None ft

Upon Completion N/A ft

After  Hrs. N/A ft

2 inches of Asphalt 541.43

Brown and Gray, Moist

FILL: GRAVEL, with sand, trace

asphalt fragments 540.10

Dark Brown and Black, Moist

FILL: SANDY CLAY, trace asphalt

fragments

537.60

Extremely Dense

Light Brown, Moist

SAND, with gravel (SP) 536.60

Auger Refusal at 5 feet

End of Boring

-10

-15

-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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**Date** 7/13/23

|                     |      |    |
|---------------------|------|----|
| Surface Water Elev. | N/A  | ft |
| Stream Bed Elev.    | N/A  | ft |
| Groundwater Elev.:  |      |    |
| First Encounter     | None | ft |
| Upon Completion     | N/A  | ft |
| After Hrs.          | N/A  | ft |

[illegible]

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Date 7/13/23

ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

Latitude 41.5140052, Longitude -088.0922319

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto

DRILLING METHOD HSA

HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-105

Station

Offset

Ground Surface Elev. 543.38 ft

| D<br>E<br>P<br>T<br>H<br>(ft) | B<br>L<br>O<br>W<br>S<br>(/6") | U<br>C<br>S<br><br>Qu<br>(tsf) | M<br>O<br>I<br>S<br>T<br>(%) |
|-------------------------------|--------------------------------|--------------------------------|------------------------------|
|-------------------------------|--------------------------------|--------------------------------|------------------------------|

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.:

First Encounter None ft

Upon Completion N/A ft

After  Hrs. N/A ft

2 inches of Asphalt 543.22

10 inches of Concrete 542.38

Medium Dense to Extremely

Dense 13

Light Brown, Moist 12

SAND, with gravel (SP) 15

539.38

10

Auger Refusal at 4 feet

End of Boring 50/2"

-5

-10

-15

-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

Latitude 41.5144993, Longitude -088.0919250  
Diedrich D-50

COUNTY Will DRILLING RIG HSA HAMMER TYPE Auto  
DRILLING METHOD HSA HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-106

Station

Offset

Ground Surface Elev. 543.44 ft

| D<br>E<br>P<br>T<br>H<br>(ft) | B<br>L<br>O<br>W<br>S<br>(/6") | U<br>C<br>S<br>Qu<br>(tsf) | M<br>O<br>I<br>S<br>T<br>(%) |
|-------------------------------|--------------------------------|----------------------------|------------------------------|
|-------------------------------|--------------------------------|----------------------------|------------------------------|

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.:

First Encounter None ft

Upon Completion N/A ft

After  Hrs. N/A ft

2 inches of Asphalt 543.27

10 inches of Concrete 542.44

Gray and Light Gray, Moist  
FILL: SAND, with gravel, trace  
sand and asphalt fragments

539.94

Medium Dense  
Light Gray, Moist  
GRAVEL, with sand (GPS)

537.44

Extremely Dense  
Brown, Moist  
SAND, with gravel (SP)

535.44

Auger Refusal at 8 feet  
End of Boring

-10

-15

-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

Latitude 41.5150124, Longitude -088.0916485

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto  
DRILLING METHOD HSA HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-107  
Station \_\_\_\_\_  
Offset \_\_\_\_\_  
Ground Surface Elev. 544.53 ft

| D<br>E<br>P<br>T<br>H<br>(ft) | B<br>L<br>O<br>W<br>S<br>(/6") | U<br>C<br>S<br>Qu<br>(tsf) | M<br>O<br>I<br>S<br>T<br>(%) |
|-------------------------------|--------------------------------|----------------------------|------------------------------|
|-------------------------------|--------------------------------|----------------------------|------------------------------|

Surface Water Elev. N/A ft  
Stream Bed Elev. N/A ft  
Groundwater Elev.:  
First Encounter 540.5 ft ▼  
Upon Completion N/A ft  
After \_\_\_\_\_ Hrs. N/A ft

2 inches of Asphalt 544.36  
12 inches of Concrete 543.36

Gray and Light Gray, Moist  
FILL: GRAVEL, with sand, trace  
asphalt fragments  
540.53 ▼

Extremely Dense  
Light Gray, Moist  
GRAVEL (GP) 539.53 -5

Auger Refusal at 5 feet  
End of Boring

|  |       |  |  |
|--|-------|--|--|
|  | 12    |  |  |
|  | 6     |  |  |
|  | 8     |  |  |
|  | 4     |  |  |
|  | 8     |  |  |
|  | 50/4" |  |  |

-10

-15

-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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|                     |      |    |
|---------------------|------|----|
| Surface Water Elev. | N/A  | ft |
| Stream Bed Elev.    | N/A  | ft |
| Groundwater Elev.:  |      |    |
| First Encounter     | None | ft |
| Upon Completion     | N/A  | ft |
| After Hrs.          | N/A  | ft |

|                                                            |        |       |  |  |  |
|------------------------------------------------------------|--------|-------|--|--|--|
| 2 inches of Asphalt                                        | 544.63 |       |  |  |  |
| 10 inches of Concrete                                      | 543.80 |       |  |  |  |
| Dark Brown, Moist<br>FILL: SILTY CLAY, trace gravel        | 543.30 | 15    |  |  |  |
| Very Dense<br>Light Gray, Moist<br>SAND, with gravel (SPG) | 541.80 | 50/5" |  |  |  |
| Auger Refusal at 3 feet<br>End of Boring                   |        |       |  |  |  |
|                                                            | -5     |       |  |  |  |
|                                                            | -10    |       |  |  |  |
|                                                            | -15    |       |  |  |  |
|                                                            | -20    |       |  |  |  |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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Date 7/13/23

ROUTE I-80 DESCRIPTION Compensatory Storage LOGGED BY DV

SECTION C-91-109-22 LOCATION SEC. 16, TWP. 35 N, RNG. 10 E,

Latitude 41.5160363, Longitude -088.0911316

COUNTY Will DRILLING RIG Diedrich D-50 HAMMER TYPE Auto  
DRILLING METHOD HSA HAMMER EFF (%) 96

STRUCT. NO. N/A  
Station N/A

BORING NO. DP-109

Station \_\_\_\_\_

Offset \_\_\_\_\_

Ground Surface Elev. 535.57 ft

| D<br>E<br>P<br>T<br>H<br>(ft) | B<br>L<br>O<br>W<br>S<br>(/6") | U<br>C<br>S<br><br>Qu<br>(tsf) | M<br>O<br>I<br>S<br>T<br>(%) |
|-------------------------------|--------------------------------|--------------------------------|------------------------------|
|-------------------------------|--------------------------------|--------------------------------|------------------------------|

Surface Water Elev. N/A ft

Stream Bed Elev. N/A ft

Groundwater Elev.:

First Encounter None ft

Upon Completion N/A ft

After \_\_\_\_\_ Hrs. N/A ft

2 inches of Asphalt 535.40

18 inches of Concrete \_\_\_\_\_

533.90

4

Medium Dense \_\_\_\_\_

Light Gray, Moist \_\_\_\_\_

GRAVEL, with sand (GPS) 532.57

9

12

Auger Refusal at 3 feet \_\_\_\_\_

End of Boring \_\_\_\_\_

-5

-10

-15

-20

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

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