

APPENDIX B

BORING LOGS



BORING NUMBER 2531V-13-01

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 795 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; little Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Soft, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1107 2. Sampled 5-9 feet at 1110 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:20 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ

**BORING NUMBER 2531V-13-02**

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CLIENT Illinois Department of Transportation, District One**PROJECT NAME** IL Route 59 & US Route 20 PSI**PROJECT NUMBER** PTB 178 008 / Work Order 02**PROJECT LOCATION** Bartlett, Cook County, IL**DATE STARTED** 8/8/17**COMPLETED** 8/8/17**GROUND ELEVATION** 796 +/- 2**HOLE SIZE** 2 inches**DRILLING CONTRACTOR** GSG Consultants, Inc.**DRILLING METHOD** Direct Push**GROUND WATER
LEVELS (ft, bgs):**

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

LOGGED BY AMH**CHECKED BY** JJR**DRILL RIG** 7822DT Track Geoprobe

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|----------------|---|---------|---|----------------------|--------------------|----------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; little Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Soft, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; trace Gravel, fine-grained; grey, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1102 2. Sampled 5-9 feet at 1105 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:20 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-13-03

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 798 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|---|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine- to coarse-grained; brownish black and grey, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine- to coarse-grained; brown and grey, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1055 2. Sampled 5-9 feet at 1058 and duplicate sample (2531V-DUP-07) collected at this interval | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:20 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-13-04

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and grey, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1030 2. Sampled 5-9 feet at 1033 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-14-01

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 796 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 2.5 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 5.0 | | S-1: Loose, well-graded SAND (SW), fine- to coarse-grained; some Clay; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 7.5 | | S-2: Hard, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 0935 2. Sampled 5-9 feet at 0939 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-14-02

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|------------|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| | | S-1: Hard, lean sandy CLAY (CL-SC), low plasticity; some Silt; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 3 | |
| 5 | | | | | | | |
| | | S-2: Hard, lean sandy CLAY (CL-SC), low plasticity; some Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 4 | |
| 10 | | | | | | | |
| | | S-3: Hard, lean sandy CLAY (CL-SC), low plasticity; some Silt; trace Gravel, fine-grained; grey, moist (FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| 15 | | | | | | | |

: End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings

- REMARKS
1. Sampled 0-6 feet at 0950
 2. Sampled 6-12 feet at 0953
 3. Sampled 12-18 feet at 0956



BORING NUMBER 2531V-14-03

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/7/17 COMPLETED 8/7/17 | GROUND ELEVATION 799 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/7/2017</td><td>DD</td><td>DRY</td><td>20</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/7/2017 | DD | DRY | 20 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/7/2017 | DD | DRY | 20 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brownish black and grey, moist | 3 | S-3 (12-18) | 0.0 | 5 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1005 2. Sampled 6-12 feet at 1009 3. Sampled 12-18 feet at 1013 and duplicate sample (2531V-DUP-03) collected at this interval | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-15-01

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 3 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist | 3 | S-3 (12-18) | 0.0 | 6 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1019 2. Sampled 6-12 feet at 1023 3. Sampled 12-18 feet at 1026 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-15-02

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Soft, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 4 | |
| 15 | | S-3: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1035 2. Sampled 6-12 feet at 1038 3. Sampled 12-18 feet at 1042 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-16-01

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Soft, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and black, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1039 2. Sampled 5-9 feet at 1042 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 796 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Soft, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1030 2. Sampled 5-9 feet at 1033 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-17-01

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 796 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1021 2. Sampled 5-9 feet at 1024 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-18-01

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/8/17 COMPLETED 8/8/17 | GROUND ELEVATION 797 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/8/2017</td><td>DD</td><td>DRY</td><td>10</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/8/2017 | DD | DRY | 10 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/8/2017 | DD | DRY | 10 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1010 and duplicate sample (2531V-DUP-06) collected at this interval 2. Sampled 5-9 feet at 1012 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-18-02

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 797 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 3 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 3 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1002 2. Sampled 5-9 feet at 1005 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 797 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown and black, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 3 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 0953 2. Sampled 5-9 feet at 0956 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 798 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 2.5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 0947 2. Sampled 5-9 feet at 0950 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 796 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 3 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine- to coarse-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 0938 2. Sampled 5-9 feet at 0941 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 790 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 3 | |
| 5.0 | | S-2: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 0930 2. Sampled 5-9 feet at 0933 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 784 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|---|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 6 | |
| 10 | | S-2: Hard, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 6 | |
| 15 | | S-3: Hard, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 0910 2. Sampled 6-12 at 0915 3. Sampled 12-18 feet at 0918 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 | GROUND ELEVATION | 790 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 6-inch Concrete | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL); trace concrete | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with remaining soil cuttings and capped with concrete patch | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 0908 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 836 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1305 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 836 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1405 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-23-03

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 834 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1402 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-23-04

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 830 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1400 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-32-01

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 832 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1329 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-32-02

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 821 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1342 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-32-03

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 827 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine- to coarse-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1345 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 821 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| | | | | |
|----------|------|-------|--------|------|
| DATE | TIME | DEPTH | CASING | STAB |
| 8/8/2107 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1313 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 823 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1315 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 825 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1317 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-33-04

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 826 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1320 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-33-05

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 831 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1323 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|---|-------|--------|-------|--------|------|----------|----|-----|---|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/8/17 COMPLETED 8/8/17 | GROUND ELEVATION 832 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/8/2017</td><td>DD</td><td>DRY</td><td>5</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/8/2017 | DD | DRY | 5 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/8/2017 | DD | DRY | 5 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1058 and duplicate sample (2531V-DUP-09) collected at this interval | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 795 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 5 | |
| 5.0 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and dark brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 0948 2. Sampled 5-9 feet at 0950 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-02

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 785 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|---|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Loose, well-graded SAND (SW), fine- to coarse-grained; trace Clay; trace Gravel, fine- to coarse-grained; light brown and grey, moist (FILL) | 1 | S-1 (0-7) | 0.0 | 6 | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Very Stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 5 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-7 feet at 0953 2. Sampled 7-14 feet at 0956 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-03

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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 782 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Loose, well-graded SAND (SW), fine- to coarse-grained; some Clay; little Gravel, fine-grained; black and grey, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 1003 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-04

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 794 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 15 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Very Stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-7) | 0.0 | 6 | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 5 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-7 feet at 12115 2. Sampled 7-14 feet at 12118 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-05

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/8/17 COMPLETED 8/8/17 | GROUND ELEVATION 805 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/8/2017</td><td>DD</td><td>DRY</td><td>15</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | 1 | S-1 (0-7) | 0.0 | 6 | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | | | | | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 6 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-7 feet at 1227 2. Sampled 7-14 feet at 1230 and duplicate sample (2531V-DUP-08) collected at this interval | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-06

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/8/17 COMPLETED 8/8/17 | GROUND ELEVATION 806 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/8/2017</td><td>DD</td><td>DRY</td><td>15</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and black, moist (FILL) | 1 | S-1 (0-7) | 0.0 | 5 | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 6 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-7 feet at 1240 2. Sampled 7-14 feet at 1245 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-07

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 815 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium Stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1305 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-34-08

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 818 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1310 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/8/17 COMPLETED 8/8/17 | GROUND ELEVATION 788 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/8/2017</td><td>DD</td><td>DRY</td><td>15</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/8/2017 | DD | DRY | 15 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | 1 | S-1 (0-7) | 0.0 | 7 | |
| 2.5 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; blackish-brown and grey, moist (FILL) | | | | | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, wet (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 7 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-7 feet at 1205 2. Sampled 7-14 feet at 1208 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-35-01

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 800 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|---|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; light brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 3 | |
| 5.0 | | S-2: Loose, well-graded SAND (SW), fine- to coarse-grained; trace Gravel, fine--grained; light brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 2 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 0940 and duplicate sample (2531V-DUP-01) collected at this interval 2. Sampled 5-9 feet at 0943 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-35-02

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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 802 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; with Sand, fine- to coarse-grained; trace Gravel, fine-grained; light brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 0937 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-36-01

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 804 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; light brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 5 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; light brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 0927 2. Sampled 5-9 feet at 0930 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-36-02

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 805 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; light brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 0920 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 806 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/24/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; light brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 0918 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 810 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 0912 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 813 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; dark brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 4 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 0905 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 | GROUND ELEVATION | 782 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1315 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 782 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1312 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 |
| GROUND ELEVATION | 789 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 15 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|---|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; dark brown and black, moist (FILL) | 1 | S-1 (0-7) | 0.0 | 7 | |
| 5.0 | | | | | | | |
| 7.5 | | S-2: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and blue-ish grey, moist (Possible FILL) | 2 | S-2 (7-14) | 0.0 | 7 | |
| 10.0 | | | | | | | |
| 12.5 | | | | | | | |
| : End of boring at 14' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-7 feet at 1020 2. Sampled 7-14 feet at 1023 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 808 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------------------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; dark brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 2 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 1035 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 7/27/17 | COMPLETED | 7/27/17 | GROUND ELEVATION | 807 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|-----------|------|-------|--------|------|
| 7/27/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine- to coarse-grained; black and brown, moist (FILL) | 1 | S-1 (0-3.5) | 0.0 | 2 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| : End of boring at 3.5' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-3.5 feet at 1037 and duplicate sample (2531V-DUP-02) collected at this interval | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 795 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1035 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 0919 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-03

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 791 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 0925 and duplicate sample (2531V-DUP-10) collected at this interval | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-04

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 789 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 0930 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-05

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 791 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brownish-grey, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 4 | |
| 5.0 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 3 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1213 2. Sampled 5-9 feet at 1216 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-06

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|---------------------|---|------------------|-------------------------------|--------------------------------|-----------|-----------|----------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI | | | | |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL | | | | |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 | GROUND ELEVATION | 786 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | | | | | |
| DRILLING METHOD | Direct Push | | | | | | |
| LOGGED BY | AMH | CHECKED BY | JJR | GROUND WATER LEVELS (ft, bgs): | | | |
| DRILL RIG | 7822DT Track Geoprobe | | | | | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|---|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 2.5 | | Surface: 3-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 5 | |
| 5.0 | | S-2: Hard, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1227 and duplicate sample (2531V-DUP-05) collected at this interval 2. Sampled 5-9 feet at 1231 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 786 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | | | | | | |
| 2.5 | | Surface: 3-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 2 | |
| 5.0 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 2 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-5 feet at 1242 2. Sampled 5-9 feet at 1247 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-08

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 796 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 2-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Medium stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine- to medium-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 0916 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/8/17 | COMPLETED | 8/8/17 |
| GROUND ELEVATION | 787 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/8/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1155 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 780 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1325 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-43-11

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/7/17 | COMPLETED | 8/7/17 |
| GROUND ELEVATION | 779 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 10 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0.0 | | Surface: 3-inch black TOPSOIL (FILL) | | | | | |
| 2.5 | | S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-5) | 0.0 | 5 | |
| 5.0 | | S-2: Hard, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine-grained; dark brown, moist (FILL) | 2 | S-2 (5-9) | 0.0 | 4 | |
| 7.5 | | | | | | | |
| : End of boring at 9' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-5 feet at 1250 2. Sampled 5-9 feet at 1252 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-55-01

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|---|-------|--------|-------|--------|------|----------|----|-----|---|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/9/17 COMPLETED 8/9/17 | GROUND ELEVATION 791 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/9/2017</td><td>DD</td><td>DRY</td><td>5</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/9/2017 | DD | DRY | 5 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/9/2017 | DD | DRY | 5 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1137 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-55-02

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 787 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 5 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | Surface: 4-inch black TOPSOIL (FILL) | | | | | |
| 1 | | S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-1) | 0.0 | 1 | |
| : End of boring at 1' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-1 feet at 1134 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-01

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 791 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|---|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brownish-grey, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and grey, moist | 3 | S-3 (12-18) | 0.0 | 5 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1123 and duplicate sample (2531V-DUP-14) collected at this interval 2. Sampled 6-12 feet at 1126 3. Sampled 12-18 feet at 1129 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-02

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/9/17 COMPLETED 8/9/17 | GROUND ELEVATION 796 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/9/2017</td><td>DD</td><td>DRY</td><td>20</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/9/2017 | DD | DRY | 20 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/9/2017 | DD | DRY | 20 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
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| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; little Gravel, fine- to medium-grained; brown, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1059 2. Sampled 6-12 feet at 1102 3. Sampled 12-18 feet at 1105 and duplicate sample (2531V-DUP-13) collected at this interval | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-03

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 797 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|--|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; with Clay; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Loose, well-graded SAND (SW), fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Loose, well-graded SAND (SW), fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1039 2. Sampled 6-12 feet at 1043 3. Sampled 12-18 feet at 1046 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-04

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 787 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|---|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 4 | |
| 15 | | S-3: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine- to medium-grained; brown, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 6 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1025 and duplicate sample (2531V-DUP-12) collected at this interval 2. Sampled 6-12 feet at 1028 3. Sampled 12-18 feet at 1034 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-05

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/9/17 COMPLETED 8/9/17 | GROUND ELEVATION 796 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/9/2017</td><td>DD</td><td>DRY</td><td>20</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/9/2017 | DD | DRY | 20 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/9/2017 | DD | DRY | 20 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 3-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and black, moist (FILL); trace asphalt | 2 | S-2 (6-12) | 0.0 | 4 | |
| 15 | | S-3: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine- to medium-grained; brown and black, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 6 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1003 2. Sampled 6-12 feet at 1006 3. Sampled 12-18 feet at 1009 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-06

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 794 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; blueish grey, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 3 | |
| 15 | | S-3: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown and blueish grey, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 0943 2. Sampled 6-12 feet at 0947 and duplicate sample (2531V-DUP-11) collected at this interval 3. Sampled 12-18 feet at 0950 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-07

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 791 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/9/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 2-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 3 | |
| 15 | | S-3: Very stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 3 | S-3 (12-18) | 0.0 | 6 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 0934 2. Sampled 6-12 feet at 0937 3. Sampled 12-18 feet at 0940 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-08

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 794 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 4-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black and brown, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Hard, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 3 | |
| 15 | | S-3: Hard, lean sandy CLAY (CL-SC), low plasticity; trace Clay; trace Gravel, fine-grained; brown, moist (FILL) | 3 | S-3 (12-18) | 0.0 | 6 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1150 2. Sampled 6-12 feet at 1153 3. Sampled 12-18 feet at 1156 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-09

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| CLIENT Illinois Department of Transportation, District One | PROJECT NAME IL Route 59 & US Route 20 PSI | | | | | | | | | | | | | | | | | | | | |
|---|--|-------|--------|-------|--------|------|----------|----|-----|----|-----|--|--|--|--|--|--|--|--|--|--|
| PROJECT NUMBER PTB 178 008 / Work Order 02 | PROJECT LOCATION Bartlett, Cook County, IL | | | | | | | | | | | | | | | | | | | | |
| DATE STARTED 8/9/17 COMPLETED 8/9/17 | GROUND ELEVATION 795 +/- 2 HOLE SIZE 2 inches | | | | | | | | | | | | | | | | | | | | |
| DRILLING CONTRACTOR GSG Consultants, Inc. | | | | | | | | | | | | | | | | | | | | | |
| DRILLING METHOD Direct Push | GROUND WATER LEVELS (ft, bgs): | | | | | | | | | | | | | | | | | | | | |
| LOGGED BY AMH CHECKED BY JJR | <table><tr><th>DATE</th><th>TIME</th><th>DEPTH</th><th>CASING</th><th>STAB</th></tr><tr><td>8/7/2017</td><td>DD</td><td>DRY</td><td>20</td><td>N/A</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> | DATE | TIME | DEPTH | CASING | STAB | 8/7/2017 | DD | DRY | 20 | N/A | | | | | | | | | | |
| DATE | TIME | DEPTH | CASING | STAB | | | | | | | | | | | | | | | | | |
| 8/7/2017 | DD | DRY | 20 | N/A | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| DRILL RIG 7822DT Track Geoprobe | | | | | | | | | | | | | | | | | | | | | |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|-------------|--|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 4-inch black TOPSOIL (FILL) S-1: Very stiff, lean CLAY (CL), low plasticity; little Sand, fine- to coarse-grained; trace Gravel, fine-grained; black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 5 | |
| 10 | | S-2: Loose, well-graded SAND (SW), fine- to coarse-grained; little Clay; little Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 3 | |
| 15 | | S-3: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 3 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1135 2. Sampled 6-12 feet at 1139 3. Sampled 12-18 feet at 1143 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-10

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|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 799 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|--|-------------|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 1-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Very stiff, lean CLAY (CL), low plasticity; some Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 5 | |
| 15 | | S-3: Medium stiff, lean sandy CLAY (CL-SC), low plasticity; trace Silt; trace Gravel, fine-grained; brown, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 3 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS 1. Sampled 0-6 feet at 1116 2. Sampled 6-12 feet at 1119 and duplicate sample (2531V-DUP-04) collected at this interval 3. Sampled 12-18 feet at 1124 | | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ



BORING NUMBER 2531V-56-11

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| | | | |
|---------------------|---|------------------|-------------------------------|
| CLIENT | Illinois Department of Transportation, District One | PROJECT NAME | IL Route 59 & US Route 20 PSI |
| PROJECT NUMBER | PTB 178 008 / Work Order 02 | PROJECT LOCATION | Bartlett, Cook County, IL |
| DATE STARTED | 8/9/17 | COMPLETED | 8/9/17 |
| GROUND ELEVATION | 798 +/- 2 | HOLE SIZE | 2 inches |
| DRILLING CONTRACTOR | GSG Consultants, Inc. | | |
| DRILLING METHOD | Direct Push | | |
| LOGGED BY | AMH | CHECKED BY | JJR |
| DRILL RIG | 7822DT Track Geoprobe | | |

| DATE | TIME | DEPTH | CASING | STAB |
|----------|------|-------|--------|------|
| 8/7/2017 | DD | DRY | 20 | N/A |
| | | | | |
| | | | | |

GROUND WATER LEVELS (ft, bgs):

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | REMARKS | SAMPLE TYPE NUMBER (Depth Interval) | PID RESULTS (PPM) | RECOVERY (feet) | POCKET PEN. (tsf) |
|---|--|---|---------|-------------------------------------|-------------------|-----------------|-------------------|
| 0 | | | | | | | |
| 5 | | Surface: 1-inch black TOPSOIL (FILL) S-1: Hard, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; black, moist (FILL) | 1 | S-1 (0-6) | 0.0 | 4 | |
| 10 | | S-2: Medium stiff, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brown, moist (FILL) | 2 | S-2 (6-12) | 0.0 | 4 | |
| 15 | | S-3: Soft, lean CLAY (CL), low plasticity; trace Sand, fine- to coarse-grained; trace Gravel, fine-grained; brownish grey, moist (Possible FILL) | 3 | S-3 (12-18) | 0.0 | 4 | |
| : End of boring at 18' BGS. Boring immediately backfilled with 3/8" bentonite chips and capped with remaining soil cuttings | | | | | | | |
| REMARKS | 1. Sampled 0-6 feet at 1100 2. Sampled 6-12 feet at 1103 3. Sampled 12-18 feet at 1106 | | | | | | |

ENVIRONMENTAL BH COLUMN W/ REMARKS - GINT STD US LAB.GDT - 8/15/17 10:21 - J:\81.0220509.04 IDOT 178008-02A - US 20 @ IL 59\REPORTS\BORINGS LOGS\81.0220509.04_BORING LOGS.GPJ