

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 1 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

| Elev. ft. | Description | Depth, ft. | S | T | R | B | N | Pen. | W | Uw | Qu |
|-----------|--|------------|----|-----|----|----|---|------|---|----|----|
| 845.0' | Bituminous concrete - 4.0" | | | | | | | | | | |
| | Brown-dark brown fine sand, some gravel, trace medium-coarse sand, damp, loose | 1 | SS | 12" | 4 | 8 | | 6.6 | | | |
| | | 2 | SS | 15" | 4 | 7 | | 9.4 | | | |
| 837.5' | Brown-dark brown fine sand, some gravel, trace medium-coarse sand, damp, very loose | 3 | SS | 10" | 2 | 4 | | 8.7 | | | |
| | Brown fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense | 4 | SS | 13" | 6 | 11 | | 14.2 | | | |
| 834.0' | Gray medium-coarse sand, some fine sand & gravel, very damp-saturated, medium dense | 5 | SS | 15" | 14 | 27 | | 8.0 | | | |
| 831.0' | Gray fine sand, very damp-saturated, medium dense | 6 | SS | 16" | 13 | 24 | | 19.7 | | | |
| 829.5' | Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense | 7 | SS | 18" | 11 | 19 | | 12.8 | | | |
| | | 8 | SS | 14" | 11 | 22 | | 11.8 | | | |

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: 8.0 B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

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SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
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| Elev. ft. | Description | Depth, ft. | S | T | R | B | N | Pen. | W | Uw | Qu |
|-----------|---|------------|----|-----|----|----|------|------|-------|-----|----|
| 824.0' | Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense | 9 | SS | 18" | 8 | 19 | 4.0 | 12.0 | 134.6 | 5.4 | |
| | Gray clay, some silt, trace sand & gravel, damp, hard to very hard | 10 | SS | 18" | 12 | 20 | 4.5 | 10.9 | 141.2 | 6.2 | |
| | | 11 | SS | 18" | 14 | 27 | 4.5+ | 10.7 | 131.5 | 8.1 | |
| | Gray clay, some silt, trace sand & gravel, damp, hard | 12 | SS | 18" | 10 | 19 | 3.75 | 11.2 | 132.4 | 5.6 | |
| 810.0' | Gray fine sand, very damp, medium dense | 13 | SS | 15" | 12 | 21 | 4.5+ | 12.8 | 130.2 | 5.7 | |
| 805.5' | (a) see page 5 of 5 | 14 | SS | 16" | 16 | 29 | | 16.7 | | | |

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 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
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| Elev. ft. | Description | Depth, ft. | S | T | R | B | N | Pen. | W | Uw | Qu |
|-----------|--|------------|----|-----|----|----|---|------|---|----|----|
| 803.0' | Gray silt, trace fine sand & clay, damp, medium dense to dense | 15 | | | | | | | | | |
| | Gray fine sand, very damp-saturated, dense | 16 | SS | 15" | 14 | 30 | | 21.3 | | | |
| 797.0' | Gray-green fine sand, very damp-saturated, dense | 17 | SS | 12" | 20 | 34 | | 16.7 | | | |
| 792.5' | Gray-green fine sand, very damp-saturated, medium dense | 18 | SS | 18" | 14 | 26 | | 11.3 | | | |
| 788.0' | Gray fine sand, very damp-saturated, medium dense | 19 | SS | 18" | 11 | 19 | | 16.0 | | | |

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 Client: Clorba Group, Inc. Sheet 4 of 5
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| Elev. ft. | Description | Depth, ft. | S | T | R | B | N | Pen. | W | Uw | Qu |
|-----------|---|------------|----|-----|-----|----|---|------|---|----|----|
| 783.0' | Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense to dense | 20 | SS | 18" | 17 | 29 | | 12.4 | | | |
| 766.0' | Gray silt, some clay, trace sand & gravel, damp, very dense | 23 | SS | 8" | 50+ | | | 8.7 | | | |
| 765.0' | | 24 | SS | 8" | 50+ | | | 6.8 | | | |

Water Level - End of Boring depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
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 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
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| Elev. ft. | Description | Depth, ft. | S | T | R | B | N | Pen. | W | Uw | Qu |
|-----------|---|------------|---|---|---|---|---|------|---|----|----|
| | (a) Gray silt, trace fine sand & clay, damp, medium dense | | | | | | | | | | |
| | | 86 | | | | | | | | | |
| | | 88 | | | | | | | | | |
| | | 90 | | | | | | | | | |
| | | 92 | | | | | | | | | |
| | | 94 | | | | | | | | | |
| | | 96 | | | | | | | | | |
| | | 98 | | | | | | | | | |
| | | 100 | | | | | | | | | |

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FILE NAME = 3381.02 17 Soil Borings 2.dgn

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|--|--|--|--|--|---|---|---------------------------|
| <p>Clorba Group, Inc. CONSULTING ENGINEERS 5001 North Cumberland Avenue Suite 402, Chicago, Illinois 60630 Tel: 773.752.8000 Fax: 773.752.8004 Email: cti@clorbagroup.com</p> | USER NAME = espina PLOT SCALE = PLOT DATE = 2/4/2011 | DESIGNED - AMK CHECKED - BWS DRAWN - RD CHECKED - BWS | REVISED - REVISED - REVISED - REVISED - | MCHENRY COUNTY DIVISION OF TRANSPORTATION | SOIL BORINGS 2 STRUCTURE NO. 056-3180 SHEET NO. S-17 OF S-18 SHEETS | F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 07-00340-00-BR MCHENRY 46 34 CONTRACT NO. 63552 | ILLINOIS FED. AID PROJECT |
| | Clorba Group, Inc. logo and contact info | | | | | | |