

Summary of Soil Test Data

| Station & Offset | Depth From-To | % Agg. | % C.S. | % F.S. | % Silt | % Clay | LL | PI | % W.C. | SHTL Class. |
|------------------|--|-------------------|------------------|-------------------|----------------------|---------------------|----------------------|---------------------|----------------------------------|---------------------------------|
| 79 + 00 | CL 0.3-1.0 1.0-2.0 2.0-5.0 5.0-11.0 | 2 0 0 0 | 2 1 1 1 | 16 3 1 1 | 28 25 52 66 | 52 66 12 8 | 42 51 12 12 | 18 27 25 8 | 24 25 12 25 | A-6b A-7-6 Shale Shale |
| 89 + 00 | CL 0.3-2.0 2.0-6.0 6.0-10.0 | 0 1 1 | 1 3 3 | 27 27 39 | 31 | 14 | 18 12 12 | 18 12 12 | A-6a Shale Shale | |
| 94 + 00 | CL 0.0-8.0 8.0-11.0 11.0-15.0 | 5 7 7 | 7 7 7 | 26 59 | 46 | 20 | 22 12 12 | 22 12 12 | A-7-6 Shale Shale | |
| 99 + 80 | CL 0.8-5.0 5.0-8.0 8.0-10.0 | 0 3 3 | 12 25 60 | 41 | 18 | 18 | 10 21 12 | 11 10 12 | A-7-6 Shale Shale | |
| 104 + 50 | CL 0.8-4.0 4.0-7.0 7.0-9.5 | 0 9 7 | 7 21 63 | 54 | 22 | 24 | 14 14 8 | 24 14 8 | A-7-5 Shale Shale | |
| 109 + 00 | CL 0.8-4.0 4.0-7.0 7.0-10.0 | 0 1 0 | 0 26 73 | 54 | 27 | 24 | 13 13 7 | 24 13 9 | A-7-6 Shale Shale | |
| 114 + 00 | CL 0.8-5.0 5.0-9.0 9.0-12.0 | 6 2 9 | 24 59 | 41 | 18 | 18 | 14 14 6 | 14 14 6 | A-7-6 Shale Shale | |
| 117 + 40 | CL 0.8-5.0 5.0-9.0 9.0-11.0 | 12 2 3 | 23 60 | 48 | 23 | 20 | 11 16 7 | 20 16 7 | A-7-6 Shale Shale | |
| 120 + 50 50' RT | CL 0.8-6.0 6.0-7.0 7.0-10.0 | 0 0 3 | 35 62 | 43 | 17 | 29 | 14 14 12 | 29 14 12 | A-7-6 Shale Shale | |
| 120 + 50 | CL 0.6-5.0 5.0-6.5 6.5-9.0 9.0-12.0 | 10 0 1 5 | 28 43 62 | 47 | 18 | 30 | 18 15 18 7 | 30 15 18 7 | A-7-6 Shale Shale Shale | |
| 121 + 30 | CL 0.8-5.0 5.0-7.0 7.0-10.0 | 0 1 4 | 25 49 | 62 | 31 | 34 | 13 23 8 | 34 23 8 | A-7-5 A-7-6 Shale | |
| 121 + 30 50' RT | CL 0.8-5.0 5.0-7.0 7.0-9.5 | 3 2 2 | 24 72 | 52 | 28 | 25 | 13 13 6 | 25 13 6 | A-7-6 Shale Shale | |
| 126 + 00 | CL 0.8-5.0 5.0-9.0 9.0-11.5 | 0 2 4 | 27 67 | 48 | 24 | 27 | 12 12 7 | 27 12 7 | A-7-6 Shale Shale | |
| 131 + 00 | CL 0.8-4.0 4.0-8.0 8.0-11.0 | 0 0 2 | 23 75 | 51 | 22 | 13 | 13 13 10 | 13 13 10 | A-7-6 Shale Shale | |
| 137 + 20 | CL 0.8-5.0 5.0-7.0 7.0-10.0 | 0 0 1 | 31 68 | 50 | 26 | 39 | 13 13 7 | 39 13 7 | A-7-6 Shale Shale | |

| Station & Offset | Depth From-To | % Agg. | % C.S. | % F.S. | % Silt | % Clay | LL | PI | % W.C. | SHTL Class. |
|------------------|-----------------------------------|-------------|----------------|--------|--------|--------|----------------|----------------|-------------------------|-------------|
| 142 + 05 | CL 0.8-3.0 3.0-5.0 5.0-9.0 | 1 1 5 | 25 68 | 51 | 22 | 32 | 14 14 7 | 32 14 7 | A-7-6 Shale Shale | |
| 146 + 50 | CL 0.8-6.0 6.0-8.0 8.0-11.0 | 2 1 8 | 29 60 | 44 | 20 | 21 | 13 13 8 | 21 13 8 | A-7-6 Shale Shale | |
| 152 + 00 | CL 0.8-4.0 4.0-7.0 7.0-10.0 | 0 1 1 | 32 56 | 35 | 15 | 10 | 13 13 7 | 13 13 7 | A-6a Shale Shale | |
| 155 + 70 | CL 0.8-3.0 3.0-6.0 6.0-10.5 | 0 1 2 | 26 71 | 48 | 19 | 19 | 14 14 6 | 19 14 6 | A-7-6 Shale Shale | |
| 158 + 00 | CL 0.6-4.0 4.0-6.0 6.0-10.5 | 0 1 1 | 31 67 | 49 | 22 | 22 | 14 14 7 | 22 14 7 | A-7-6 Shale Shale | |
| 162 + 00 | CL 0.8-3.0 3.0-6.0 6.0-10.5 | 0 0 2 | 30 78 | 60 | 28 | 36 | 15 15 9 | 36 15 9 | A-7-5 Shale Shale | |
| 169 + 00 | CL 0.8-3.0 3.0-7.0 7.0-10.0 | 5 2 1 | 26 66 | 52 | 26 | 25 | 16 16 6 | 25 16 6 | A-7-6 Shale Shale | |
| 175 + 00 | CL 0.8-4.0 4.0-7.0 7.0-10.0 | 0 0 0 | 25 75 | 59 | 31 | 35 | 16 16 6 | 35 16 6 | A-7-6 Shale Shale | |
| 179 + 40 | CL 0.6-3.0 3.0-7.0 7.0-8.0 | 0 0 1 | 28 71 | 46 | 21 | 18 | 11 11 10 | 18 11 10 | A-7-6 Shale Shale | |
| 184 + 00 | CL 0.6-3.0 3.0-5.0 5.0-10.0 | 3 0 2 | 28 67 | 57 | 31 | 21 | 12 12 6 | 21 12 6 | A-7-6 Shale Shale | |
| 188 + 50 | CL 0.6-2.0 2.0-4.0 4.0-9.0 | 7 1 1 | 25 66 | 56 | 28 | 24 | 13 13 6 | 24 13 6 | A-7-6 Shale Shale | |
| 195 + 50 | CL 0.8-3.0 3.0-8.0 8.0-10.0 | 0 0 1 | 24 75 | 55 | 26 | 26 | 12 12 6 | 26 12 6 | A-7-6 Shale Shale | |
| 200 + 80 | CL 0.6-4.0 4.0-6.0 6.0-10.0 | 0 0 1 | 32 67 | 45 | 20 | 23 | 16 16 8 | 23 16 8 | A-7-6 A-6a Shale | |
| 202 + 00 | CL 0.6-4.0 4.0-6.0 | 0 4 8 | 17 36 43 | 32 | 12 | 27 | 12 12 34 | 27 12 34 | A-6a A-7-6 | |
| 204 + 65 | CL 0.8-5.0 5.0-7.0 7.0-10.0 | 5 2 3 | 32 50 | 47 | 23 | 22 | 17 17 7 | 22 17 7 | A-7-6 A-6a Shale | |
| 209 + 35 | CL 0.6-4.0 4.0-6.0 6.0-9.5 | 0 1 1 | 37 61 | 45 | 21 | 20 | 14 14 6 | 20 14 6 | A-7-6 Shale Shale | |

| Station & Offset | Depth From-To | % Agg. | % C.S. | % F.S. | % Silt | % Clay | LL | PI | % W.C. | SHTL Class. |
|------------------|--|------------------|----------------------|--------|--------|-------------------------------|----------------------|----------------------|----------------------------------|-------------|
| 215 + 00 | CL 0.8-4.0 4.0-6.0 6.0-9.0 | 9 4 10 | 31 46 | 39 | 18 | 24 | 18 18 17 | 24 18 17 | A-6b A-6b Shale | |
| 223 + 00 | CL 0.8-4.0 4.0-6.0 6.0-10.0 | 0 1 6 | 34 59 | 50 | 25 | 19 | 17 17 8 | 19 17 8 | A-7-6 Shale Shale | |
| 228 + 60 | CL 0.8-3.0 3.0-7.0 7.0-9.0 | 4 2 4 | 38 52 | 51 | 19 | 20 | 12 12 5 | 20 12 5 | A-7-5 Shale Shale | |
| 234 + 80 | CL 0.8-4.0 4.0-6.0 6.0-9.5 | 0 0 2 | 28 70 | 63 | 30 | 29 | 17 17 8 | 29 17 8 | A-7-5 Shale Shale | |
| 238 + 00 | CL 0.8-3.0 3.0-5.0 5.0-10.0 | 0 0 4 | 39 57 | 57 | 30 | 28 | 12 12 9 | 28 12 9 | A-7-6 Shale Shale | |
| 242 + 85 | CL 0.8-2.0 2.0-5.0 5.0-7.0 7.0-10.0 | 0 1 4 | 42 53 | 62 | 16 | 50 | 15 15 10 6 | 50 15 10 6 | A-7-5 A-7-6 Shale Shale | |
| 247 + 00 | CL 0.8-4.0 4.0-6.0 6.0-12.0 | 0 3 1 | 48 48 | 35 | 11 | 23 | 18 18 7 | 23 18 7 | A-6a Shale Shale | |
| 253 + 00 | CL 0.8-6.0 6.0-8.0 8.0-12.0 | 0 1 4 | 35 60 45 | 38 | 12 | 21 | 12 12 15 7 | 21 12 15 7 | A-6a A-6a Shale | |
| 260 + 00 | CL 0.8-6.0 6.0-8.0 8.0-13.0 | 0 4 1 | 45 46 51 | 43 | 17 | 21 | 17 17 8 | 21 17 8 | A-7-6 A-6a Shale | |
| 262 + 00 | CL 0.8-7.0 7.0-8.0 8.0-13.0 | 0 1 3 | 36 46 | 50 | 25 | 31 | 12 12 6 | 31 12 6 | A-7-6 A-6a Shale | |
| 268 + 00 | CL 0.8-7.0 7.0-9.0 9.0-14.0 | 0 1 5 | 43 50 | 41 | 19 | 21 | 19 19 5 | 21 19 5 | A-7-6 A-6a Shale | |
| 273 + 80 | CL 0.8-6.0 6.0-9.0 9.0-14.0 14.0-16.0 | 0 1 3 8 | 32 29 38 38 | 16 | 20 | A-6b A-6a A-6a Shale | | | | |
| 278 + 50 70' RT | CL 0.8-5.0 5.0-9.0 9.0-12.0 | 1 2 3 | 42 32 28 | 30 | 13 | 14 | 14 14 15 11 | 14 14 15 11 | A-6a A-6a A-6a | |
| 286 + 00 | CL 0.8-6.0 6.0-10.0 10.0-20.0 | 3 2 11 | 41 42 39 | 32 | 14 | 19 | 14 14 8 | 19 14 11 | A-6a A-6a A-6a | |
| 292 + 35 | CL 0.8-6.0 6.0-11.0 11.0-16.0 | 0 2 8 | 35 56 | 36 | 14 | 17 | 17 17 4 | 17 15 11 | A-6a A-6a A-6a | |

| Station & Offset | Depth From-To | % Agg. | % C.S. | % F.S. | % Silt | % Clay | LL | PI | % W.C. | SHTL Class. |
|------------------|--|-----------------------------|---------------------|--------|--------|--------|----------------------------------|----------------------------------|---------------------------------|--|
| 300 + 00 4' RT | CL 0.0-2.0 2.0-4.0 | 0 3 | 19 19 | 23 | 7 | 20 | 2 2 | 19 13 | 19 22 | A-6a A-6a |
| 312 + 00 | CL 0.3-2.0 2.0-5.0 5.0-8.0 8.0-10.0 | 5 0 0 1 | 7 52 57 33 | 51 | 18 | 19 | 43 46 36 33 | 43 25 14 24 | 18 22 22 25 | A-7-6 A-7-6 A-6a A-6a |
| 315 + 00 20' LT | CL 0.8-3.0 3.0-8.0 8.0-10.0 | 5 1 0 | 11 41 | 38 | 16 | 14 | 37 37 8 | 16 11 20 | 14 20 20 | A-6b A-6a A-6b |
| 320 + 00 18' LT | CL 0.6-6.0 6.0-9.0 9.0-10.0 | 0 2 5 | 39 45 45 | 15 | 15 | 15 | 27 27 27 | 13 11 5 | 15 21 12 | A-6a A-6a A-6a |
| 325 + 00 20' LT | CL 0.8-5.0 5.0-8.0 8.0-10.0 | 0 0 0 | 4 49 | 19 | 18 | 18 | 46 46 37 | 27 27 29 | 19 8 11 | A-6b A-6b A-6a |
| 331 + 18 20' LT | CL 0.8-8.0 8.0-9.0 9.0-11.0 11.0-13.0 13.0-14.0 14.0-18.0 | 0 0 0 3 5 17 | 10 55 | 24 | 7 | 20 | 13 13 16 16 11 11 | 13 13 20 20 22 22 | 7 25 13 16 14 14 | A-6b A-6b A-6b A-6a A-6a A-6a |

NOTE: NP shown in liquid limit and plasticity index columns indicates that the material is non-plastic.