

PRELIMINARY SERIES

- LEGEND**
- PLEISTOCENE AND RECENT**
- 1m POST-GLACIAL
1m1a BOLD AND MARSH DEPOSITS: muck and peat, generally less than 4 feet thick
 - 1m2 COLLUVIUM (sandstone debris, eroded along, sheet flood deposits, etc. less than 4 feet thick): in stream above only
 - 1m3 ALLUVIUM (now being deposited on alluvial fans and flood plains): silt, sand, clay, minor gravel, poorly sorted, includes some clay shales and carbonaceous, fine sand, silt, clay
 - 1m4 ARGILLAN SAND: medium grained, terraces indicating by rolling, rarely less than 2 feet thick where date symbol is shown
 - 1m5 LATE GLACIAL AND POST-GLACIAL
1m5a ALLOVIUM (in abandoned channels and on river terraces): sandy coarse sand and fine gravel, thickness 2 to 30 feet, includes some outwash, silt, gravel
 - 1m5b BOLT (probably sandstone): deposit composed mostly of silt less than 4 feet thick. Underlying material indicated by fractional symbols, 2m, 2m1, 2m2, 2m3, 2m4, 2m5, 2m6, 2m7, 2m8, 2m9, 2m10, 2m11, 2m12, 2m13, 2m14, 2m15, 2m16, 2m17, 2m18, 2m19, 2m20, 2m21, 2m22, 2m23, 2m24, 2m25, 2m26, 2m27, 2m28, 2m29, 2m30, 2m31, 2m32, 2m33, 2m34, 2m35, 2m36, 2m37, 2m38, 2m39, 2m40, 2m41, 2m42, 2m43, 2m44, 2m45, 2m46, 2m47, 2m48, 2m49, 2m50, 2m51, 2m52, 2m53, 2m54, 2m55, 2m56, 2m57, 2m58, 2m59, 2m60, 2m61, 2m62, 2m63, 2m64, 2m65, 2m66, 2m67, 2m68, 2m69, 2m70, 2m71, 2m72, 2m73, 2m74, 2m75, 2m76, 2m77, 2m78, 2m79, 2m80, 2m81, 2m82, 2m83, 2m84, 2m85, 2m86, 2m87, 2m88, 2m89, 2m90, 2m91, 2m92, 2m93, 2m94, 2m95, 2m96, 2m97, 2m98, 2m99, 2m100, 2m101, 2m102, 2m103, 2m104, 2m105, 2m106, 2m107, 2m108, 2m109, 2m110, 2m111, 2m112, 2m113, 2m114, 2m115, 2m116, 2m117, 2m118, 2m119, 2m120, 2m121, 2m122, 2m123, 2m124, 2m125, 2m126, 2m127, 2m128, 2m129, 2m130, 2m131, 2m132, 2m133, 2m134, 2m135, 2m136, 2m137, 2m138, 2m139, 2m140, 2m141, 2m142, 2m143, 2m144, 2m145, 2m146, 2m147, 2m148, 2m149, 2m150, 2m151, 2m152, 2m153, 2m154, 2m155, 2m156, 2m157, 2m158, 2m159, 2m160, 2m161, 2m162, 2m163, 2m164, 2m165, 2m166, 2m167, 2m168, 2m169, 2m170, 2m171, 2m172, 2m173, 2m174, 2m175, 2m176, 2m177, 2m178, 2m179, 2m180, 2m181, 2m182, 2m183, 2m184, 2m185, 2m186, 2m187, 2m188, 2m189, 2m190, 2m191, 2m192, 2m193, 2m194, 2m195, 2m196, 2m197, 2m198, 2m199, 2m200, 2m201, 2m202, 2m203, 2m204, 2m205, 2m206, 2m207, 2m208, 2m209, 2m210, 2m211, 2m212, 2m213, 2m214, 2m215, 2m216, 2m217, 2m218, 2m219, 2m220, 2m221, 2m222, 2m223, 2m224, 2m225, 2m226, 2m227, 2m228, 2m229, 2m230, 2m231, 2m232, 2m233, 2m234, 2m235, 2m236, 2m237, 2m238, 2m239, 2m240, 2m241, 2m242, 2m243, 2m244, 2m245, 2m246, 2m247, 2m248, 2m249, 2m250, 2m251, 2m252, 2m253, 2m254, 2m255, 2m256, 2m257, 2m258, 2m259, 2m260, 2m261, 2m262, 2m263, 2m264, 2m265, 2m266, 2m267, 2m268, 2m269, 2m270, 2m271, 2m272, 2m273, 2m274, 2m275, 2m276, 2m277, 2m278, 2m279, 2m280, 2m281, 2m282, 2m283, 2m284, 2m285, 2m286, 2m287, 2m288, 2m289, 2m290, 2m291, 2m292, 2m293, 2m294, 2m295, 2m296, 2m297, 2m298, 2m299, 2m300, 2m301, 2m302, 2m303, 2m304, 2m305, 2m306, 2m307, 2m308, 2m309, 2m310, 2m311, 2m312, 2m313, 2m314, 2m315, 2m316, 2m317, 2m318, 2m319, 2m320, 2m321, 2m322, 2m323, 2m324, 2m325, 2m326, 2m327, 2m328, 2m329, 2m330, 2m331, 2m332, 2m333, 2m334, 2m335, 2m336, 2m337, 2m338, 2m339, 2m340, 2m341, 2m342, 2m343, 2m344, 2m345, 2m346, 2m347, 2m348, 2m349, 2m350, 2m351, 2m352, 2m353, 2m354, 2m355, 2m356, 2m357, 2m358, 2m359, 2m360, 2m361, 2m362, 2m363, 2m364, 2m365, 2m366, 2m367, 2m368, 2m369, 2m370, 2m371, 2m372, 2m373, 2m374, 2m375, 2m376, 2m377, 2m378, 2m379, 2m380, 2m381, 2m382, 2m383, 2m384, 2m385, 2m386, 2m387, 2m388, 2m389, 2m390, 2m391, 2m392, 2m393, 2m394, 2m395, 2m396, 2m397, 2m398, 2m399, 2m400, 2m401, 2m402, 2m403, 2m404, 2m405, 2m406, 2m407, 2m408, 2m409, 2m410, 2m411, 2m412, 2m413, 2m414, 2m415, 2m416, 2m417, 2m418, 2m419, 2m420, 2m421, 2m422, 2m423, 2m424, 2m425, 2m426, 2m427, 2m428, 2m429, 2m430, 2m431, 2m432, 2m433, 2m434, 2m435, 2m436, 2m437, 2m438, 2m439, 2m440, 2m441, 2m442, 2m443, 2m444, 2m445, 2m446, 2m447, 2m448, 2m449, 2m450, 2m451, 2m452, 2m453, 2m454, 2m455, 2m456, 2m457, 2m458, 2m459, 2m460, 2m461, 2m462, 2m463, 2m464, 2m465, 2m466, 2m467, 2m468, 2m469, 2m470, 2m471, 2m472, 2m473, 2m474, 2m475, 2m476, 2m477, 2m478, 2m479, 2m480, 2m481, 2m482, 2m483, 2m484, 2m485, 2m486, 2m487, 2m488, 2m489, 2m490, 2m491, 2m492, 2m493, 2m494, 2m495, 2m496, 2m497, 2m498, 2m499, 2m500, 2m501, 2m502, 2m503, 2m504, 2m505, 2m506, 2m507, 2m508, 2m509, 2m510, 2m511, 2m512, 2m513, 2m514, 2m515, 2m516, 2m517, 2m518, 2m519, 2m520, 2m521, 2m522, 2m523, 2m524, 2m525, 2m526, 2m527, 2m528, 2m529, 2m530, 2m531, 2m532, 2m533, 2m534, 2m535, 2m536, 2m537, 2m538, 2m539, 2m540, 2m541, 2m542, 2m543, 2m544, 2m545, 2m546, 2m547, 2m548, 2m549, 2m550, 2m551, 2m552, 2m553, 2m554, 2m555, 2m556, 2m557, 2m558, 2m559, 2m560, 2m561, 2m562, 2m563, 2m564, 2m565, 2m566, 2m567, 2m568, 2m569, 2m570, 2m571, 2m572, 2m573, 2m574, 2m575, 2m576, 2m577, 2m578, 2m579, 2m580, 2m581, 2m582, 2m583, 2m584, 2m585, 2m586, 2m587, 2m588, 2m589, 2m590, 2m591, 2m592, 2m593, 2m594, 2m595, 2m596, 2m597, 2m598, 2m599, 2m600, 2m601, 2m602, 2m603, 2m604, 2m605, 2m606, 2m607, 2m608, 2m609, 2m610, 2m611, 2m612, 2m613, 2m614, 2m615, 2m616, 2m617, 2m618, 2m619, 2m620, 2m621, 2m622, 2m623, 2m624, 2m625, 2m626, 2m627, 2m628, 2m629, 2m630, 2m631, 2m632, 2m633, 2m634, 2m635, 2m636, 2m637, 2m638, 2m639, 2m640, 2m641, 2m642, 2m643, 2m644, 2m645, 2m646, 2m647, 2m648, 2m649, 2m650, 2m651, 2m652, 2m653, 2m654, 2m655, 2m656, 2m657, 2m658, 2m659, 2m660, 2m661, 2m662, 2m663, 2m664, 2m665, 2m666, 2m667, 2m668, 2m669, 2m670, 2m671, 2m672, 2m673, 2m674, 2m675, 2m676, 2m677, 2m678, 2m679, 2m680, 2m681, 2m682, 2m683, 2m684, 2m685, 2m686, 2m687, 2m688, 2m689, 2m690, 2m691, 2m692, 2m693, 2m694, 2m695, 2m696, 2m697, 2m698, 2m699, 2m700, 2m701, 2m702, 2m703, 2m704, 2m705, 2m706, 2m707, 2m708, 2m709, 2m710, 2m711, 2m712, 2m713, 2m714, 2m715, 2m716, 2m717, 2m718, 2m719, 2m720, 2m721, 2m722, 2m723, 2m724, 2m725, 2m726, 2m727, 2m728, 2m729, 2m730, 2m731, 2m732, 2m733, 2m734, 2m735, 2m736, 2m737, 2m738, 2m739, 2m740, 2m741, 2m742, 2m743, 2m744, 2m745, 2m746, 2m747, 2m748, 2m749, 2m750, 2m751, 2m752, 2m753, 2m754, 2m755, 2m756, 2m757, 2m758, 2m759, 2m760, 2m761, 2m762, 2m763, 2m764, 2m765, 2m766, 2m767, 2m768, 2m769, 2m770, 2m771, 2m772, 2m773, 2m774, 2m775, 2m776, 2m777, 2m778, 2m779, 2m780, 2m781, 2m782, 2m783, 2m784, 2m785, 2m786, 2m787, 2m788, 2m789, 2m790, 2m791, 2m792, 2m793, 2m794, 2m795, 2m796, 2m797, 2m798, 2m799, 2m800, 2m801, 2m802, 2m803, 2m804, 2m805, 2m806, 2m807, 2m808, 2m809, 2m810, 2m811, 2m812, 2m813, 2m814, 2m815, 2m816, 2m817, 2m818, 2m819, 2m820, 2m821, 2m822, 2m823, 2m824, 2m825, 2m826, 2m827, 2m828, 2m829, 2m830, 2m831, 2m832, 2m833, 2m834, 2m835, 2m836, 2m837, 2m838, 2m839, 2m840, 2m841, 2m842, 2m843, 2m844, 2m845, 2m846, 2m847, 2m848, 2m849, 2m850, 2m851, 2m852, 2m853, 2m854, 2m855, 2m856, 2m857, 2m858, 2m859, 2m860, 2m861, 2m862, 2m863, 2m864, 2m865, 2m866, 2m867, 2m868, 2m869, 2m870, 2m871, 2m872, 2m873, 2m874, 2m875, 2m876, 2m877, 2m878, 2m879, 2m880, 2m881, 2m882, 2m883, 2m884, 2m885, 2m886, 2m887, 2m888, 2m889, 2m890, 2m891, 2m892, 2m893, 2m894, 2m895, 2m896, 2m897, 2m898, 2m899, 2m900, 2m901, 2m902, 2m903, 2m904, 2m905, 2m906, 2m907, 2m908, 2m909, 2m910, 2m911, 2m912, 2m913, 2m914, 2m915, 2m916, 2m917, 2m918, 2m919, 2m920, 2m921, 2m922, 2m923, 2m924, 2m925, 2m926, 2m927, 2m928, 2m929, 2m930, 2m931, 2m932, 2m933, 2m934, 2m935, 2m936, 2m937, 2m938, 2m939, 2m940, 2m941, 2m942, 2m943, 2m944, 2m945, 2m946, 2m947, 2m948, 2m949, 2m950, 2m951, 2m952, 2m953, 2m954, 2m955, 2m956, 2m957, 2m958, 2m959, 2m960, 2m961, 2m962, 2m963, 2m964, 2m965, 2m966, 2m967, 2m968, 2m969, 2m970, 2m971, 2m972, 2m973, 2m974, 2m975, 2m976, 2m977, 2m978, 2m979, 2m980, 2m981, 2m982, 2m983, 2m984, 2m985, 2m986, 2m987, 2m988, 2m989, 2m990, 2m991, 2m992, 2m993, 2m994, 2m995, 2m996, 2m997, 2m998, 2m999, 2m1000, 2m1001, 2m1002, 2m1003, 2m1004, 2m1005, 2m1006, 2m1007, 2m1008, 2m1009, 2m1010, 2m1011, 2m1012, 2m1013, 2m1014, 2m1015, 2m1016, 2m1017, 2m1018, 2m1019, 2m1020, 2m1021, 2m1022, 2m1023, 2m1024, 2m1025, 2m1026, 2m1027, 2m1028, 2m1029, 2m1030, 2m1031, 2m1032, 2m1033, 2m1034, 2m1035, 2m1036, 2m1037, 2m1038, 2m1039, 2m1040, 2m1041, 2m1042, 2m1043, 2m1044, 2m1045, 2m1046, 2m1047, 2m1048, 2m1049, 2m1050, 2m1051, 2m1052, 2m1053, 2m1054, 2m1055, 2m1056, 2m1057, 2m1058, 2m1059, 2m1060, 2m1061, 2m1062, 2m1063, 2m1064, 2m1065, 2m1066, 2m1067, 2m1068, 2m1069, 2m1070, 2m1071, 2m1072, 2m1073, 2m1074, 2m1075, 2m1076, 2m1077, 2m1078, 2m1079, 2m1080, 2m1081, 2m1082, 2m1083, 2m1084, 2m1085, 2m1086, 2m1087, 2m1088, 2m1089, 2m1090, 2m1091, 2m1092, 2m1093, 2m1094, 2m1095, 2m1096, 2m1097, 2m1098, 2m1099, 2m1100, 2m1101, 2m1102, 2m1103, 2m1104, 2m1105, 2m1106, 2m1107, 2m1108, 2m1109, 2m1110, 2m1111, 2m1112, 2m1113, 2m1114, 2m1115, 2m1116, 2m1117, 2m1118, 2m1119, 2m1120, 2m1121, 2m1122, 2m1123, 2m1124, 2m1125, 2m1126, 2m1127, 2m1128, 2m1129, 2m1130, 2m1131, 2m1132, 2m1133, 2m1134, 2m1135, 2m1136, 2m1137, 2m1138, 2m1139, 2m1140, 2m1141, 2m1142, 2m1143, 2m1144, 2m1145, 2m1146, 2m1147, 2m1148, 2m1149, 2m1150, 2m1151, 2m1152, 2m1153, 2m1154, 2m1155, 2m1156, 2m1157, 2m1158, 2m1159, 2m1160, 2m1161, 2m1162, 2m1163, 2m1164, 2m1165, 2m1166, 2m1167, 2m1168, 2m1169, 2m1170, 2m1171, 2m1172, 2m1173, 2m1174, 2m1175, 2m1176, 2m1177, 2m1178, 2m1179, 2m1180, 2m1181, 2m1182, 2m1183, 2m1184, 2m1185, 2m1186, 2m1187, 2m1188, 2m1189, 2m1190, 2m1191, 2m1192, 2m1193, 2m1194, 2m1195, 2m1196, 2m1197, 2m1198, 2m1199, 2m1200, 2m1201, 2m1202, 2m1203, 2m1204, 2m1205, 2m1206, 2m1207, 2m1208, 2m1209, 2m1210, 2m1211, 2m1212, 2m1213, 2m1214, 2m1215, 2m1216, 2m1217, 2m1218, 2m1219, 2m1220, 2m1221, 2m1222, 2m1223, 2m1224, 2m1225, 2m1226, 2m1227, 2m1228, 2m1229, 2m1230, 2m1231, 2m1232, 2m1233, 2m1234, 2m1235, 2m1236, 2m1237, 2m1238, 2m1239, 2m1240, 2m1241, 2m1242, 2m1243, 2m1244, 2m1245, 2m1246, 2m1247, 2m1248, 2m1249, 2m1250, 2m1251, 2m1252, 2m1253, 2m1254, 2m1255, 2m1256, 2m1257, 2m1258, 2m1259, 2m1260, 2m1261, 2m1262, 2m1263, 2m1264, 2m1265, 2m1266, 2m1267, 2m1268, 2m1269, 2m1270, 2m1271, 2m1272, 2m1273, 2m1274, 2m1275, 2m1276, 2m1277, 2m1278, 2m1279, 2m1280, 2m1281, 2m1282, 2m1283, 2m1284, 2m1285, 2m1286, 2m1287, 2m1288, 2m1289, 2m1290, 2m1291, 2m1292, 2m1293, 2m1294, 2m1295, 2m1296, 2m1297, 2m1298, 2m1299, 2m1300, 2m1301, 2m1302, 2m1303, 2m1304, 2m1305, 2m1306, 2m1307, 2m1308, 2m1309, 2m1310, 2m1311, 2m1312, 2m1313, 2m1314, 2m1315, 2m1316, 2m1317, 2m1318, 2m1319, 2m1320, 2m1321, 2m1322, 2m1323, 2m1324, 2m1325, 2m1326, 2m1327, 2m1328, 2m1329, 2m1330, 2m1331, 2m1332, 2m1333, 2m1334, 2m1335, 2m1336, 2m1337, 2m1338, 2m1339, 2m1340, 2m1341, 2m1342, 2m1343, 2m1344, 2m1345, 2m1346, 2m1347, 2m1348, 2m1349, 2m1350, 2m1351, 2m1352, 2m1353, 2m1354, 2m1355, 2m1356, 2m1357, 2m1358, 2m1359, 2m1360, 2m1361, 2m1362, 2m1363, 2m1364, 2m1365, 2m1366, 2m1367, 2m1368, 2m1369, 2m1370, 2m1371, 2m1372, 2m1373, 2m1374, 2m1375, 2m1376, 2m1377, 2m1378, 2m1379, 2m1380, 2m1381, 2m1382, 2m1383, 2m1384, 2m1385, 2m1386, 2m1387, 2m1388, 2m1389, 2m1390, 2m1391, 2m1392, 2m1393, 2m1394, 2m1395, 2m1396, 2m1397, 2m1398, 2m1399, 2m1400, 2m1401, 2m1402, 2m1403, 2m1404, 2m1405, 2m1406, 2m1407, 2m1408, 2m1409, 2m1410, 2m1411, 2m1412, 2m1413, 2m1414, 2m1415, 2m1416, 2m1417, 2m1418, 2m1419, 2m1420, 2m1421, 2m1422, 2m1423, 2m1424, 2m1425, 2m1426, 2m1427, 2m1428, 2m1429, 2m1430, 2m1431, 2m1432, 2m1433, 2m1434, 2m1435, 2m1436, 2m1437, 2m1438, 2m1439, 2m1440, 2m1441, 2m1442, 2m1443, 2m1444, 2m1445, 2m1446, 2m1447, 2m1448, 2m1449, 2m1450, 2m1451, 2m1452, 2m1453, 2m1454, 2m1455, 2m1456, 2m1457, 2m1458, 2m1459, 2m1460, 2m1461, 2m1462, 2m1463, 2m1464, 2m1465, 2m1466, 2m1467, 2m1468, 2m1469, 2m1470, 2m1471, 2m1472, 2m1473, 2m1474, 2m1475, 2m1476, 2m1477, 2m1478, 2m1479, 2m1480, 2m1481, 2m1482, 2m1483, 2m1484, 2m1485, 2m1486, 2m1487, 2m1488, 2m1489, 2m1490, 2m1491, 2m1492, 2m1493, 2m1494, 2m1495, 2m1496, 2m1497, 2m1498, 2m1499, 2m1500, 2m1501, 2m1502, 2m1503, 2m1504, 2m1505, 2m1506, 2m1507, 2m1508, 2m1509, 2m1510, 2m1511, 2m1512, 2m1513, 2m1514, 2m1515, 2m1516, 2m1517, 2m1518, 2m1519, 2m1520, 2m1521, 2m1522, 2m1523, 2m1524, 2m1525, 2m1526, 2m1527, 2m1528, 2m1529, 2m1530, 2m1531, 2m1532, 2m1533, 2m1534, 2m1535, 2m1536, 2m1537, 2m1538, 2m1539, 2m1540, 2m1541, 2m1542, 2m1543, 2m1544, 2m1545, 2m1546, 2m1547, 2m1548, 2m1549, 2m1550, 2m1551, 2m1552, 2m1553, 2m1554, 2m1555, 2m1556, 2m1557, 2m1558, 2m1559, 2m1560, 2m1561, 2m1562, 2m1563, 2m1564, 2m1565, 2m1566, 2m1567, 2m1568, 2m1569, 2m1570, 2m1571, 2m1572, 2m1573, 2m1574, 2m1575, 2m1576, 2m1577, 2m1578, 2m1579, 2m1580, 2m1581, 2m1582, 2m1583, 2m1584, 2m1585, 2m1586, 2m1587, 2m1588, 2m1589, 2m1590, 2m1591, 2m1592, 2m1593, 2m1594, 2m1595, 2m1596, 2m1597, 2m1598, 2m1599, 2m1600, 2m1601, 2m1602, 2m1603, 2m1604, 2m1605, 2m1606, 2m1607, 2m1608, 2m1609, 2m1610, 2m1611, 2m1612, 2m1613, 2m1614, 2m1615, 2m1616, 2m1617, 2m1618, 2m1619, 2m1620, 2m1621, 2m1622, 2m1623, 2m1624, 2m1625, 2m1626, 2m1627, 2m1628, 2m1629,