## APPENDIX A - ORIGINAL GEOLOGICAL PROFILES

All original geological profiles will be presented in this Annex.

## - Church of St. Jacob the Greater in Ruprechtice

## **Borehole 1**

Distance from surface (m)	Description
0,00 - 0,04	cement dab above the ventilation channel
0,04 - 0,35	brick channel masonry
0,35 - 1,25	foundation masonry, ignimbrite (through borehole diameter, thickness ca 50 mm)
1,25 - 1,50	dtto, sharp-edged particles "subbase", without the mortar residues
1,50 - 1,70	rusty-brown (in some places greenish) dusty claystone, hard, with fragments, compact
1,70 - 3,00	dtto, the borehole core disintigrated, sporadic stones through borehole diamtere
3,00 - 5,20	dtto, compact rusty-brown core
5,20 - 12,50	dtto - hard consistency
6,20 - 6,50	disintegrated core, solid "small blocks" - hard consistency
6,50 - 7,20	thin lamination from significantly lighter material, in some places gray fill
7,20 - 7,40	transitional plastic zone (solid to hard consistency)
7,40 - 8,60	compact borehole core, hard consistency
8,60 - 8,90	dtto, hard consistency
8,90 - 9,00	dtto, hard consisteny, brittle core
9,00 - 11,00	dtto, the strength increases with the depth, hard core, lighter color, it is possible to break off by hand on
	the edges, compact fragments - very hard, lower consistency limited in some places
10,85 - 11,00	rusty-brown dusty claystone with sharp-edged fragments (probably siltstones)
11,00 - 12,00	dtto, lightcoloured striped dusty claystone, compact, hard consistency

Distance from surface (m)	Description
0,00 - 1,50	masonry of ventilation channel (fired bricks) and foundation masonry, masonry partially
	made from sandstone
1,50 - 1,55	foundation masonry - compact sample almost through the whole borehole diameter, light
1,50 1,55	coloured ignimbrite (paleoryolite?)
1,55 - 1,80	foundation masonry, ingimbrite and light rusty-brown sandstone without the presence of
1,33 - 1,60	mortar
1,80 - 3,00	sillty claystone with numerous sharp-edeged siltstone fragments (max. size 80 mm, ca 40 to
1,80 - 3,00	50 %), fragmented core, from rusty-brovwn to light ochroid color
3,00 - 3,30	smudged core, similar to building stone in the frontage masonry of the stone, sillty claystone
3,00 - 3,30	with ochroid color with rusty-brown linings, hard consistency
3,30 - 4,50	Dtto
4,50 - 6,30	Dtto, light gray to ochroid color, in some places rusty-brown color
7,40 - 7,55	transition of rusty-brown color to light gray (thanks to the presence of clay minerals and
	absence of Fe pigments), hard consistency
7,55 - 7,70	rusty-brown sillty claystone, varied layered, layers thickness 2 - 5 mm, hard consistency
7,70 - 12,00	compact core, sillty claystone, hard consistency, consolidated, brittle breakage when
	dividing, rusty-brown color, in some places gray

## - St. Ann Church in Vižňov

Distance from surface (m)	Description
0,00 - 0,50	sandy soil with sandstone fragments above foundation masonry
0,50 - 1,80	ignimbrite fragments, 10 % of plate through the borehole diameter, sandstone fragments (size 40 mm to 80/100 mm)
1,80 - 2,00	sharply disintegrating core, sediment
1,80 - 2,20	grey-green sediment (siltstone to claystone), weathered, compact core
2,20 - 2,35	red-brown sharply disintegrated soil
2,35 - 2,55	greyreddish brouwnish layered claystone, plate-disintegrated, hrad consistency
2,55 - 3,00	sharply disintegrated rusty-brown silty claystone - disintegrated core, layered
3,00 - 4,00	horizontal layers, sharply disintegrated, rusty-brown
4,00 - 4,15	dtto, smudged, thiny layered, variable coloring, significantly lighter
4,15 - 4,80	dtti, hard consistency, sharply disintegrated core
4,80 - 5,00	lighter rusty-brown color, soft consistency
5,00 - 5,50	lighter rusty-brown color, harder consistency
5,50 - 5,75	aquiferous layer, significantly softer
5,75 - 6,15	lighter rusty-brown color, hard consistency
6,15 - 6,28	sandstone of greenish color (absence of Fe pigmentation), hard, non-compact
6,28 - 6,70	lighter rusty-brown silty claystone, hard cosnistency
6,70 - 7,00	aquiferous layer, disintegrated to small plates and small scraps
7,00 - 7,10	rusty-brown silty claystone of lighter color
7,10 - 7,15	light rusty-brown silty claystone
7,15 - 7,50	mushy layer, sharply disintegrated silty claystone, soft consistency (probably due to drilling)
7,50 - 7,70	consisteny solid to hard, - harder plates vith softer filling (probably due to drilling)
7,70 - 7,95	mushy layer, soft consistency with harder fragments (probably due to drilling)
7,95 - 8,00	rusty-brown silty claystone, solid to hard consistency
8,00 - 8,14	soft consistency, very wet, hrader cores, soter filling matter
8,14 - 8,70	green color (thanks to the clay minerals), solid to hard consistency
8,70 - 8,80	soft consistency
8,80 - 9,00	light grey-green color, solid to hard consistency
9,00 - 9,55	sharply disintegrated core, 10mm fragments max.
9,55 - 10,00	light rusty-brown core, disintegrated to stone fragments of maximum size 80*25 mm
10,00 - 10,23	dtto, copmact core, hard consistency
10,23 - 10,36	light grey-brown silty claystone, easy to disintegrate by hand, hard consistency, probably dominantly silty particles
10,36 - 10,57	dtto - compact core, hard consistency
10,57 - 10,83	significantly softer consistency, horizotal layeres of 2 - 3 cm thickness, soft filling matter (silty clay)
10,83 - 10,95	grey-rusty-brown silty claystone, thin layers of green color, hard, lighter color then surrounding
10,95 - 11,36	lighter rusty-brown color, silty claystone, hard consistency
11,36 - 11,45	rusty-gray-brown silty claystone + greenish layers, few sandy fraction, very fine to silty character
11,45 - 11,50	dtto, lighter rusty-brown color, hard consistency
11,50 - 11,65	disintegrated core - light colored, layered, grey-rusty-brown, disintegrated to silt, easy to disintegrate by hand
11,65 - 12,00	dark grey silty claystone, compact, hard consistency

surface (m)  0.00 - 0.20 compact core of red-brown calcareous soil with small stone fragments compact core of red-brown calcareous soil with fragments of paleonyolite and ignimbrite with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments), green-grey concretions without Fe pigmentation  0.40 - 0.60  0.60 - 1.00 compact core of red-brown calcareous soil with fragments of paleonyolite and ignibrite with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments) or ed-brown fragments of ignibrite, hard compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  2,00 - 2,50  2,50 - 3,00  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  4,30 - 4,70  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30  5,50 - 5,80  6,30 - 6,40  6,40 - 6,45  6,45 - 6,90  7,40 - 8,00  8,00 - 8,20  8,00 - 8,20  8,00 - 8,20  8,00 - 8,00  8,00 - 8,20  9,40 - 10,60  10,60 - 12,00	Distance from	DOI CHIOIC 2
one of the compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,00 - 3,60  3,60 - 4,30  3,60 - 4,30  4,30 - 4,70  3,60 - 4,30  4,30 - 4,70  3,60 - 6,30  6,30 - 6,40  6,30 - 6,40  6,30 - 6,40  6,40 - 6,45  6,30 - 6,40  6,40 - 6,45  6,30 - 6,40  6,40 - 6,45  6,30 - 6,40  6,40 - 6,45  6,30 - 6,40  6,40 - 6,45  6,50 - 6,30  6,30 - 6,40  6,40 - 6,45  6,50 - 7,40  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  1,60 - 8,00  1,60 - 7,40  1,60 - 8,00  1,60 - 7,40  1,60 - 2,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  2,50 - 3,00  3,60 - 4,30  4,30 - 4,70  3,60 - 4,30  4,30 - 4,70  4,70 - 5,30  4,70 - 5,70  4,70 - 5,70  4,70 - 5,70  4,70 - 5,70  4,70 - 5,70  4,70		Description
compact core of red-brown calcareous soil with fragments of paleoryolite and ignimbrite with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments), green-grey concretions without Fe pigmentation  0,40 - 0,60  0,60 - 1,00  1,60 - 1,00  1,60 - 2,00  2,00 - 2,50  2,50 - 3,00  compact core of red-brown fragments of ignibrite, hard compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  2,00 - 2,50  2,50 - 3,00  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  1,30 - 3,60  4,30 - 4,70  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  1,30 - 4,70  4,70 - 5,30  red-brown siltstone, fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  6,30 - 6,40  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with grey str		rod brown clightly candy calcaroous coil with small stone fragments
with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments), green-grey concretions without Fe pigmentation  0,40 - 0,60  0,60 - 1,00  1,00 - 1,60  1,00 - 1,60  1,60 - 2,00  2,00 - 2,50  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  2,00 - 2,50  2,50 - 3,00  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  4,30 - 4,70  1al eyer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30  4,70 - 5,30  4,70 - 5,30  5,30 - 6,40  6,30 - 6,40  6,40 - 6,45  6,90 - 7,40  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  with fragments of claystone to siltstone (laystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by	0,00 - 0,20	
fragments), green-grey concretions without Fe pigmentation  compact core of red-brown calcareous soil with fragments of paleoryolite and ignibrite with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments)  noted-brown fragments of ignibrite, hard  red-brown fragments of ignibrite, hard  red-brown fragments of ignibrite, hard  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness red-brown siltstone, fragments red-brown siltstone, bigger fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  6,30 - 6,40  red-brown clay siltstone, hard fragments ca 5 cm red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 -	0,20 - 0,40	
compact core of red-brown calcareous soil with fragments of paleoryolite and ignibrite with fragments of claystone to siltstone, easy to break down by hand (not the stone fragments)  1,00 - 1,60  1,60 - 2,00  1,60 - 2,00  1,60 - 2,00  2,00 - 2,50  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,00 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down by hand to smaller pieces  5,30 - 5,30  6,30 - 6,30  7,40 - 6,40  6,40 - 6,45  6,90 - 7,40  8,00 - 8,20  8,00 - 8,20  8,00 - 8,20  8,00 - 8,20  8,00 - 10,60  layer of grey-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces pieces red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces red-brown claystone with protion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation) layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone fragments, easy to break down by hand compact core of red-brown claystone with siltstone fragments, easy to break down by hand		
fragments of claystone to siltstone, easy to break down by hand (not the stone fragments)  0,60 - 1,00  1,00 - 1,60  1,60 - 2,00  2,00 - 2,50  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,60 - 4,30  fragments of ree-brown claystone with grey self-brown siltstone, fragments of lightly red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  7,40 - 6,45  6,90 - 7,40  8,00 - 8,20  8,20 - 8,40  fragments of claystone to siltstone, hard red-brown claystone with pland compact core of red-brown claystone with grey streaks, comapact, solid, it red-brown by hand to smaller pieces  8,20 - 8,40  fragments of claystone to siltstone, say to break down by hand compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact preces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact preces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact preces of grey-gred mortar with stone fragments of different petrographical character (fragments of grey-brown claystone, grey-gred mortar with stone fragments of different petrographical character (fragments of grey-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces of grey-brown claystone with grey streaks,		fragments), green-grey concretions without Fe pigmentation
fragments of claystone to siltstone, easy to break down by hand (not the stone fragments)  0,60 - 1,00  1,00 - 1,60  1,60 - 2,00  2,00 - 2,50  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,00 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down by hand to smaller pieces  5,30 - 5,80  4,70 - 5,30  6,30 - 6,40  6,40 - 6,45  6,90 - 7,40  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  fragments of claystone to siltstone, hard red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with prey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with prey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand to smaller pieces  red-brown claystone with grey streaks, comapact, solid, it is	0.40.000	compact core of red-brown calcareous soil with fragments of paleoryolite and ignibrite with
1,00 - 1,60  1,60 - 2,00  1,60 - 2,00  1,60 - 2,00  2,00 - 2,50  2,00 - 2,50  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,60 - 4,30  fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30  red-brown siltstone, fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  red-brown claysitistone, spilled  5,80 - 6,30  red-brown claysitone with grey streaks, comapact, solid, it is possible to berak down by hand de,40 - 6,45  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00  red-brown calcareous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  10,60 - 12,00  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	0,40 - 0,60	fragments of claystone to siltstone, easy to break down by hand (not the stone fragments)
1,00 - 1,60  1,60 - 2,00  1,60 - 2,00  1,60 - 2,00  2,00 - 2,50  2,00 - 2,50  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,60 - 4,30  fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30  red-brown siltstone, fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  red-brown claysitistone, spilled  5,80 - 6,30  red-brown claysitone with grey streaks, comapact, solid, it is possible to berak down by hand  6,40 - 6,45  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00  red-brown calcareous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00  compact core of red-brown claystone with siltstone ragments, easy to break down by hand	0.60 4.00	and have a firm and a firm that a hand
compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  2,00 - 2,50  2,50 - 3,00  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70  4,70 - 5,30  4,70 - 5,30  fragments of 1 cm thickness red-brown siltstone, bigger fragments  5,80 - 6,30  6,30 - 6,40  6,40 - 6,45  6,45 - 6,90  6,90 - 7,40  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  log manufact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments core of red-brown clay siltstone ca 8 cm x 3 cm, hard  red-brown siltstone, lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  red-brown siltstone, hard fragments ca 5 cm  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-b		
character (fragments size to 5 mm)  2,00 - 2,50  compact fragments of hard grey calcareous siltstone to clay-silty limestone  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30  red-brown siltstone, fragments  5,30 - 5,50  red-brown siltstone, bigger fragments  red-brown clay siltstone, hard fragments ca 5 cm  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand 6,40 - 6,45  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand ed-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  and  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, pare to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand	1,00 - 1,60	
2,00 - 2,50  2,50 - 3,00  2,50 - 3,00  3,00 - 3,60  3,00 - 3,60  3,00 - 3,60  3,00 - 4,30  4,30 - 4,70  4,30 - 4,70  4,70 - 5,30  5,80 - 6,30  6,30 - 6,40  6,40 - 6,45  6,45 - 6,90  6,90 - 7,40  6,90 - 7,40  8,00 - 8,20  8,00 - 8,20  8,00 - 8,20  8,00 - 8,40  8,40 - 9,40  10,60 - 12,00  2,50 - 3,00  compact fragments of hard grey calcareous siltstone to clay-silty limestone compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm) piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness red-brown siltstone, fragments  red-brown siltstone, bigger fragments  red-brown siltstone, spilled red-brown clay siltstone, hard fragments ca 5 cm red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand fed-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown calcareous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	1,60 - 2,00	
compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30  4,30 - 4,70  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness red-brown siltstone, fragments  5,30 - 5,50  red-brown siltstone, pigger fragments  5,30 - 6,30  fragments of ed-brown siltstone, pilled  7,80 - 6,30  red-brown clay siltstone, hard fragments ca 5 cm red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  6,90 - 7,40  7,40 - 8,00  red-brown calcareous claystone to siltstone, hard  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown calcareous claystone to siltstone, hard  ed-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, pard  red-brown calcareous claystone to siltstone, pard  red-brown calcareous claystone to siltstone, prey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand		
character (fragments size to 5 mm), piece of straw detected inside the sample  compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30 fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70 layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30 red-brown siltstone, fragments  5,30 - 5,50 red-brown siltstone, bigger fragments  5,30 - 6,40 red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand fe,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  6,90 - 7,40 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 red-brown calcareous claystone to siltstone, hard  8,40 - 9,40 layer of grey-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	2,00 - 2,50	
character (fragments size to 5 mm), piece of straw detected inside the sample compact pieces of grey-red mortar with stone fragments of different petrographical character (fragments size to 5 mm)  3,60 - 4,30 fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70 layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30 red-brown siltstone, fragments  5,30 - 5,50 red-brown siltstone, bigger fragments  7,50 - 5,80 red-brown siltstone, bigger fragments red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand fe,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	2.50 - 3.00	
character (fragments size to 5 mm)  3,60 - 4,30  fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  red-brown siltstone, fragments  red-brown siltstone, bigger fragments  red-brown siltstone, spilled  red-brown clay siltstone, hard fragments ca 5 cm  red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00  8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  9,40 - 10,60  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand		
3,60 - 4,30 fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard  4,30 - 4,70 layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  5,30 - 5,50 red-brown siltstone, bigger fragments  5,50 - 5,80 red-brown siltstone, spilled  6,30 - 6,40 red-brown clay siltstone, hard fragments ca 5 cm red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 red-brown calcareous claystone to siltstone, hard  8,40 - 9,40 red-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, hard  red-brown calcareous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	3.00 - 3.60	compact pieces of grey-red mortar with stone fragments of different petrographical
layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to small plates of 1 cm thickness  4,70 - 5,30 red-brown siltstone, fragments  5,30 - 5,50 red-brown siltstone, bigger fragments  5,50 - 5,80 red-brown siltstone, spilled  5,80 - 6,30 red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	3,00 3,00	character (fragments size to 5 mm)
small plates of 1 cm thickness  4,70 - 5,30 red-brown siltstone, fragments  5,30 - 5,50 red-brown siltstone, bigger fragments  5,50 - 5,80 red-brown siltstone, spilled  5,80 - 6,30 red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	3,60 - 4,30	fragments of red-brown clay siltstone ca 8 cm x 3 cm, hard
small plates of 1 cm thickness  4,70 - 5,30 red-brown siltstone, fragments  5,30 - 5,50 red-brown siltstone, bigger fragments  5,50 - 5,80 red-brown siltstone, spilled  5,80 - 6,30 red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand  6,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand  6,45 - 6,90 incoherent red-brown claystone with fragments of siltstone, grey smudged  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  red-brown calcareous claystone to siltstone, hard  compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40  8,40 - 9,40  and  red-brown calacreous claystone to siltstone, hard  red-brown calacreous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand	4 30 - 4 70	layer of grey-green siltstone (lightly red colored), relatively hard, easy to break down to to
5,30 - 5,50 red-brown siltstone, bigger fragments  5,50 - 5,80 red-brown siltstone, spilled  5,80 - 6,30 red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand 6,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	4,50 4,70	small plates of 1 cm thickness
5,50 - 5,80 red-brown siltstone, spilled 5,80 - 6,30 red-brown clay siltstone, hard fragments ca 5 cm 6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand 6,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand 6,45 - 6,90 incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces 7,40 - 8,00 red-brown calcareous claystone to siltstone, hard 8,00 - 8,20 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces 8,20 - 8,40 red-brown calcareous claystone to siltstone, hard 8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	4,70 - 5,30	red-brown siltstone, fragments
red-brown clay siltstone, hard fragments ca 5 cm  6,30 - 6,40 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged  6,90 - 7,40 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,00 - 8,20 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  10,60 - 12,00 compact core of red-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	5,30 - 5,50	red-brown siltstone, bigger fragments
red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 red-brown calcareous claystone to siltstone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard  8,40 - 9,40 red-brown calcareous claystone to siltstone, hard  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	5,50 - 5,80	red-brown siltstone, spilled
6,40 - 6,45 red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces red-brown calcareous claystone to siltstone, hard red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	5,80 - 6,30	red-brown clay siltstone, hard fragments ca 5 cm
6,45 - 6,90 incoherent red-brown claystone with fragments of siltstone, grey smudged compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,00 - 8,20 red-brown calcareous claystone to siltstone, hard red-brown calcareous claystone to siltstone, hard red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	6,30 - 6,40	red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand
compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	6,40 - 6,45	red-brown claystone with grey streaks, comapact, solid, it is possible to berak down by hand
pieces  7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calacreous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	6,45 - 6,90	incoherent red-brown claystone with fragments of siltstone, grey smudged
7,40 - 8,00 red-brown calcareous claystone to siltstone, hard  8,00 - 8,20 compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calcareous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	6.00 7.40	compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller
compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calacreous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	6,90 - 7,40	pieces
compact core of red-brown caystone, grey smudged, easy to break down by hand to smaller pieces  8,20 - 8,40 red-brown calacreous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	7,40 - 8,00	red-brown calcareous claystone to siltstone, hard
8,00 - 8,20  8,20 - 8,40  8,40 - 9,40  8,40 - 9,40  9,40 - 10,60  10,60 - 12,00  pieces  pieces  pieces  pieces  pieces  pieces  pieces  red-brown calacreous claystone to siltstone, hard  red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand		
8,20 - 8,40 red-brown calacreous claystone to siltstone, hard  8,40 - 9,40 red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  10,60 - 12,00 compact core of red-brown claystone with siltstone ragments, easy to break down by hand	8,00 - 8,20	
red-brown claystone with portion of silt fraction, gre to green-grey smudged (thanks to clay minerals, without Fe pigmentation)  9,40 - 10,60  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand	8,20 - 8,40	
minerals, without Fe pigmentation)  9,40 - 10,60  layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand  compact core of red-brown claystone with siltstone ragments, easy to break down by hand		·
9,40 - 10,60 layer of grey-brown claystone with siltstone fragments (size ca 2 - 3 cm), easy to break down by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand		
by hand compact core of red-brown claystone with siltstone ragments, easy to break down by hand	9,40 - 10,60	
compact core of red-brown claystone with siltstone ragments, easy to break down by hand		
1 10 60 - 12 00 1		·
	10,60 - 12,00	

## All Saints Church in Heřmánkovice

Depth from surface (m)	Description
0,00 - 0,30	soil, loess-sandy soil
0,30 - 0,59	faine-grained to coarse-grained brownish-red sandstones, slightly weathred (faine-grained are harder). Smaller pieces strongly weathered (easy to break up, coarse-grained easy to crumble by hand)
0,59 - 0,77	smaller pieces of sandstones with soil (with the presence of calcitic component)
0,77 - 1,00	bigger pieces of stones with soil, mostly faine-grained ferruginous sandstone (relatively hard); light gray fine-grained sandstone (very soft, easy to break up by hand, but does not crumble)' brown faine- to medium-grained sandstone (partly weathered, possible to break up, very soft)
1,00 - 1,65	bigger compact pieces of stone material of a round shape (as a consequence of drilling) with the height 1,5 to 10 cm; very softly weathered sandstones (medium-coarse, gray-wine-coloured); conglomerate; ignibrite; conglomerate with ferruginous cement; coarse-grained ferruginous sandstones to conglomerates (very soft, easy to break up by hammer)
1,65 - 2,00	brown-redish sandy soil
2,00 - 2,44	dark brown-redish sandstone, smaller pieces extremely weathered (extremely soft, are crumbling in hand, big pieces compact)
2,44 - 2,76	extremely weathered ferruginous sandstone to sand (coherent), wet
2,76 - 3,30	very weathered ferruginous sandstone with the admixture of calcite, easy to be falling into pieces, wet, extremely soft
3,30 - 3,90	compact sandstone, brown-redish with parts of lighter coloured sandstones, close to 4 m sandstone changes colour to gray-black; medium- to coarse-grained
3,90 - 4,05	silty-clay sediment, thin insertion, ochre colour
4,05 - 4,50	brown-redish disintegrated sandstones, non-compact pieces, weathered, coarse-grained
4,50 - 4,70	brown-black coarse-grained sandstone to conglomerate, strongly weathered (very soft, easy to crumble by fingers, but compact pieces)
4,70 - 4,90	fine-grained light gray sandstone with greenish positions (Cu compound), extremely soft
4,90 - 5,00	gray-beige medium-coarsed sandstone, not crumbling in hand, but easy to break up by hammer, very soft
5,00 - 5,62	gray-beige medium-coarsed sandstone, not crumbling in hand, but easy to break up by hammer, in some places coarse-grained, very soft
5,62 - 5,77	strongly disintegrated sandstone to coarse-grained sand with sandstone pieces, brown- redish col., in some places grey-beige, extremely to very soft
5,77 - 5,90	coarse-grained sandstone to conglomerate, brown-redish, compact pieces, strongly weathered

5,90 - 6,00	black-brown crushed sandstone with the portion of fine-grained gray-greenish siltstone (to marlite), soft
6,00 - 6,12	gray-green fine-grained clastic sediment (siltstone to fine-grained sandstone) - gradually changes to coarse-grained parts
6,12 - 6,20	strongly weathered sandstone to conglomerate, is crumbling in hand, wet, brown, extremely soft
6,20 - 6,36	light coloured gray-green, fine-grained clastic sediment to marlite, soft, but compact
6,36 - 6,60	light gray ryolite (quartz porphyre) with predominant fine-grained matrix, compact pieces, easy to break up by hammer, moderately hard
6,60 - 6,70	compact drill core made by the same light coloured stone, clay-soily waste around
6,70 - 7,00	fragments of light coloured stones, mixed clay-soily waste with clods
7,00 - 7,30	extremely soft, crumbling in hands, fragments of light coloured stone
7,30 - 7,67	big compact pieces, cores to 10 cm height, hard, quartz porphyre (paleryolite), very hard
7,67 - 8,00	smaller fragments of the same stone, very hard
8,00 - 8,60	fragments of the same stone (max 10 cm)
8,60 - 8,70	fragments of the same stone, in some places strongly disintegrating to white fine dust
8,70 - 8,80	the same stone, at the beginning hard - changes to strongly disintegrating, wet, crumbling in hand, preserved compact cores, very soft
8,80 - 8,90	completely disintegrated stone to soily matter
8,90 - 9,00	hard stone (see upper line)
9,00 - 9,30	weathered light coloured stone with brown-beige parts; cores seems to be compact, but pieces stay in hand
9,30 - 9,70	the same stone (see upper line), but hard
9,70 - 9,90	compact piece of gray stone, in the middle rusty-coloured clay-soily dolls, which is slimy in hands
9,90 -10,00	light coloured crushed stone, breaking up in fingers to smaller pieces
10,00 - 10,30	smaller pieces of the same stone with rusty-brown positions
10,30 - 10,40	completely weathered, clay-silty sedimenty, strongly disintegrating
10,40 - 10,45	light gray to light brown strongly disintegrating stone
10,45 - 10,60	same, in some places strongly partially weathered
10,60 - 11,00	strongly partially weathered, see upper line, in some places compact cores
11,00 - 12,00	weathered magmatic stone (quartz porphyre, paleoryolite), in some places harder positions

surface (m) bigger pieces of strongly weathered sandstone, max. size 10 cm, from fine-grained to medium-graiened, sometimes so weathered positions, that they look like soil; light coloured sandstone  0,30 - 0,60 fine masonry fragments from strongly weathered sandstones - both light coloured fine-grained, as well as red Permian sandstones, which are harder; light coloured sandstone sare falling into pieces in hand; average size 4 cm; significant amount of brownish-red slimy soil bigger pieces of weathered coarse-grained sandstone, both dark as well as light coloured, in some places smaller pieces of almost sandy sitssone (weathered), high amount of fine masonry fragments of almost soil character  1,20 - 1,55 s. 1,65 finarder" light coloured sandstone, mostly already incoherent creating "soil" arrader" light coloured sandstone, lightly weathered  1,55 - 1,60 strongly disintegrating "sandsotne" almost to sandy soil of brownish-red colour compact piece of ferruginous sandstone  1,80 - 2,00 c. 2,00 quartz porphyre, compact big pieces, beige-red colour  2,40 - 2,50 separation of free prophyre and brown-black sandstone  2,60 - 3,00 significant amount of free prophyre and brown-black sandstone  3,00 - 3,10 significant amount of brownish-red colour (part porphyre, compact big pieces, beige-red colour  2,60 - 3,00 significant amount of free prophyre and brown-black sandstone  3,00 - 3,10 significant amount of free prophyre and brown-black sandstone  3,00 - 3,10 significant amount of free prophyre and brown-black sandstone  3,00 - 3,10 significant amount of free prophyre and brown-black sandstone  3,00 - 3,00 significant amount of free prophyre and brown-black sandstone  3,00 - 3,00 significant amount of free prophyre prophyre, feldspars solinity weathered prophyre prophyre, feldspars solinicated bigger pieces		Dorenole 2
0,00 - 0,30         medium-graiened, sometimes so weathered positions, that they look like soil; light coloured sandstone           0,30 - 0,60         fine masonry fragments from strongly weathered sandstones - both light coloured fine-grained, as well as red Permian sandstones, which are harder; light coloured sandstones are falling into pieces in hand; average size 4 cm; significant amount of brownish-red slimy soil bigger peices of weathered coarse-grained sandstone, both dark as well as light coloured, in some places smaller pieces of almost soil character           1,20 - 1,55         strongly weathered ferruginous sandstone, mostly already incoherent creating "soil" harder" light coloured sandstone, lightly weathered           1,80 - 2,00         trongly weathered ferruginous sandstone, mostly already incoherent creating "soil" harder" light coloured sandstone, lightly weathered           2,00 - 2,30         quart porphyre, compact big pieces, beige-red colour           2,30 - 2,40         hard' sandstone (lamost of greywacke character)           2,50 - 2,60         pimimbrite, hard           3,00 - 3,10         strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone           3,00 - 3,80         position of greenish siltstone to silty marilite           3,80 - 3,85         position of greenish siltstone to silty marilite           3,80 - 3,85         position of greenish siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil           5,00 - 5,00         posi	Depth from surface (m)	Description
grained, as well as red Permian sandstones, which are harder; light coloured sandstones are falling into pieces in hand; average size 4 cm; significant amount of brownish-red slimy soil bigger peices of weathered coarse-grained sandstone, both dark as well as light coloured, in some places smaller pieces of almost sandy siltstone (weathered), high amount of fine masonry fragments of almost soil character  1,20 - 1,55 strongly weathered ferruginous sandstone, mostly already incoherent creating "soil"  1,55 - 1,65 strongly disintegrating "sandstone" almost to sandy soil of brownish-red colour  1,80 - 2,00 copact piece of ferruginous sandstone, lightly weathered  1,80 - 2,00 quartz porphyre, compact big pieces, beige-red colour  1,80 - 2,00 quartz porphyre, compact big pieces, beige-red colour  1,80 - 2,00 quartz porphyre, compact big pieces, beige-red colour  1,80 - 2,00 quartz porphyre, compact big pieces, beige-red colour  1,80 - 3,00 dignimbrite, hard  2,60 - 3,00 gignimbrite, hard  2,60 - 3,00 strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone  3,10 - 3,10 brownish-red sandstone, weathered  3,10 - 3,80 (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard  3,80 - 3,85 position of greenish siltstone to silty marlite  3,80 - 3,85 position of greenish siltstone to silty marlite  3,80 - 4,00 + 4,00 pinkish to brownish-red sandstone, thinly laminated, soft, weathered  4,60 - 4,90 stood pinkish to brownish-red sandstone, they coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of silmy soil  5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of silmy soil  5,00 - 7,00 fine-grained brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered silty sandstone t	0,00 - 0,30	medium-graiened, sometimes so weathered positions, that they look like soil; light coloured
one places smaller pieces of almost sandy siltstone (weathered), high amount of fine masonry fragments of almost soil character strongly weathered ferruginous sandstone, mostly already incoherent creating "soil" [1,55 - 1,65 - 1,80   "harder" light coloured sandstone, lightly weathered strongly disintegrating "sandsotne" almost to sandy soil of brownish-red colour compact piece of ferruginous sandstone (almost of sandstone) [alpht] weathered colour quartz porphyre, compact big pieces, beige-red colour [1,80 - 2,00 - 2,30 - 2,40   "hard" sandstone (almost of greywacke character) weathered sandstone (fragments), see upper lines, together with "soil" ignimbrite, hard strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone brownish-red sandstone, weathered sandstone brownish-red sandstone, weathered sandstone or crose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard solved to the province of the pro	0,30 - 0,60	grained, as well as red Permian sandstones, which are harder; light coloured sandstones are
1,55 - 1,65 1,80 1,65 - 1,80 1,80 - 2,00 2,00 - 2,30 2,40 cmpact piece of ferruginous sandstone 2,00 - 2,30 cmpact piece of ferruginous sandstone 2,00 - 2,30 cmpact piece of ferruginous sandstone 2,00 - 2,30 cmpact piece of ferruginous sandstone 2,30 - 2,40 cmpact piece of ferruginous sandstone 2,30 - 2,40 cmpact piece of ferruginous sandstone 2,50 - 2,60 cmpact piece of greywacke character) 2,50 - 2,60 mard sandstone (almost of greywacke character) 2,60 - 3,00 cmpact piece of gragments), see upper lines, together with "soil" ginimbrite, hard strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone brownish-red sandstone, weathered sandstone brownish-red sandstone, weathered 3,10 - 3,80 position of greenish siltstone to silty marlite sorour places strogly silicified (cement, compacted grains), relative hard position of greenish siltstone to silty marlite brown-black sandstone, fine- to medium-grained, high portion of feldspars very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relativ hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, compact drill cores of quartz porphyre (paleryolite) compact drill cores of quartz porphyre (paleryolite) partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre of beige-brown colour, partly weathered, feldspars ochre (kaolin.) strongly weathered coarse-grained sandstone to conglomerate quartz porphyre (paleoryolite), hard, with positions of clay soil	0,60 - 1,20	some places smaller pieces of almost sandy siltstone (weathered), high amount of fine
1,65 - 1,80 strongly disintegrating "sandsotne" almost to sandy soil of brownish-red colour compact piece of ferruginous sandstone quartz porphyre, compact big pieces, beige-red colour quartz porphyre, compact big pieces, beige-red colour part pieces, beige-red colour and part property part of preymacke character) weathered sandstone (fragments), see upper lines, together with "soil" ignimbrite, hard strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone brownish-red sandstone, weathered sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard provided prov	1,20 - 1,55	strongly weathered ferruginous sandstone, mostly already incoherent creating "soil"
<ul> <li>1,80 - 2,00</li> <li>2,00 - 2,30</li> <li>quartz porphyre, compact big pieces, beige-red colour</li> <li>1,30 - 2,40</li> <li>2,40 - 2,50</li> <li>weathered sandstone (almost of greywacke character)</li> <li>2,50 - 2,60</li> <li>ignimbrite, hard</li> <li>2,60 - 3,00</li> <li>3,00 - 3,10</li> <li>brownish-red sandstone, weathered</li> <li>sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard</li> <li>3,80 - 3,85</li> <li>3,80 - 3,85</li> <li>position of greenish siltstone to silty marlite</li> <li>posomoush-red sandstone, firse to medium-grained, high portion of feldspars</li> <li>4,00 - 4,20</li> <li>4,00 - 4,20</li> <li>4,00 - 4,90</li> <li>silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil</li> <li>4,90 - 5,00</li> <li>fine-grained brownish-red sandstone, relativ hard</li> <li>silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil</li> <li>brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil</li> <li>brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core</li> <li>6,10 - 6,50</li> <li>6,50 - 7,00</li> <li>7,00 - 7,40</li> <li>light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)</li> <li>7,60 - 8,00</li> <li>strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces</li> <li>8,00 - 9,00</li> <li>strongly weathered coarse-grained sandstone to conglomerate</li> <li>quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit</li> </ul>	1,55 - 1,65	"harder" light coloured sandstone, lightly weathered
2,30 - 2,40 "hard" sandstone (almost of greywacke character) 2,40 - 2,50 2,50 - 2,60 ignimbrite, hard 2,60 - 3,00 3,00 - 3,10 3,00 - 3,10 3,10 - 3,80 greywacke character), in some places strogly silicified (cement, compacted grains), relative hard 3,80 - 3,85 3,85 - 4,00 4,00 - 4,20 4,00 - 4,20 4,00 - 4,00 ignimbrite brownish-red sandstone, fire to medium-grained, high portion of feldspars 4,00 - 4,00 4,00 - 4,00 ignimbrite brownish-red sandstone, in some places strogly silicified (cement, compacted grains), relative hard 3,80 - 3,85 3,85 - 4,00 4,00 - 4,20 4,00 - 4,20 ignimbrite, hard in some places strogly silicified (cement, compacted grains), relative hard in such thard in some places strogly silicified (cement, compacted grains), relative hard in such thard in such thard in some places strogly silicified (cement, compacted grains), relative hard in such thard in such	1,65 - 1,80	strongly disintegrating "sandsotne" almost to sandy soil of brownish-red colour
2,30 - 2,40 "hard" sandstone (almost of greywacke character) 2,40 - 2,50 weathered sandstone (fragments), see upper lines, together with "soil" 2,60 - 3,00 strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone 3,00 - 3,10 brownish-red sandstone, weathered sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relative hard sandstone to arcose sandstone, fine-to medium-grained, high portion of feldspars very fine-grained sandstone, to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relative hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core smaller compact pieces of quartz porphyre (paleryolite) compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 - 8,00  8,00 - 9,00  8,00 - 9,00  9,00 -	1,80 - 2,00	compact piece of ferruginous sandstone
2,40 - 2,50   ignimbrite, hard   2,50 - 2,60   ignimbrite, hard   2,60 - 3,00   strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone   3,00 - 3,10   brownish-red sandstone, weathered   3,10 - 3,80   (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard   3,80 - 3,85   position of greenish siltstone to silty marlite   3,85 - 4,00   brown-black sandstone, fine- to medium-grained, high portion of feldspars   4,00 - 4,20   very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered   4,20 - 4,60   gilty sandstone to siltstone, in some places brown laminas, at the end strongly weathered   4,90 - 5,00   fine-grained brownish-red sandstone, relativ hard   5,00 - 5,25   silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered   with the position of slimy soil   5,25 - 6,10   brownish-red coarse-grained sandstone, at the end strongly weathered   with the position of slimy soil   5,25 - 6,10   brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core   6,10 - 6,50   smaller compact pieces of quartz porphyre (paleryolite)   6,50 - 7,00   compact drill cores of quartz porphyre (paleryolite)   7,00 - 7,40   light beige to grey quartz porphyre (paleoryolite), partly weathered, coherent (disintegrates after hammer hit)   7,40 - 8,00   8,00 - 9,00   strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces   8,00 - 9,00   strongly weathered coarse-grained sandstone to conglomerate   9,00 - 9,50   quartz porphyre (paleoryolite), hard, with positions of clay soil   9,50 - 9,70   quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. 9,70 - 10,9   9,70 - 10,9   pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. 9,70 - 10,90	2,00 - 2,30	quartz porphyre, compact big pieces, beige-red colour
2,50 - 2,60 ignimbrite, hard strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone sandstone to arcose sandstone, weathered sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black sandstone to silty marlite 3,80 - 3,85 position of greenish siltstone to silty marlite 3,85 - 4,00 brown-black sandstone, fine- to medium-grained, high portion of feldspars 4,00 - 4,20 very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard 3,80 - 3,85 pinkish to brownish-red sandstone, very coarse-grained, hard 3,80 - 3,90 gilty sandstone to silitstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 4,90 - 5,00 fine-grained brownish-red sandstone, relativ hard 5,00 - 5,25 gilty sandstone to silitstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 5,25 - 6,10 brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core 6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated 7,00 - 7,40 bigger pieces of quartz porphyre (paleoryolite), partly weathered, coherent (disintegrates after hammer hit) 7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) 7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces 8,00 - 9,00 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quart	2,30 - 2,40	"hard" sandstone (almost of greywacke character)
2,60 -3,00 strongly weathered basement (probably originally brownish-red Permian sandstones) with bigger pieces of quartz porphyre and brown-black sandstone 3,00 - 3,10 brownish-red sandstone, weathered 3,10 - 3,80 (greywacke character), in some places strogly silicified (cement, compacted grains), relative hard 3,80 - 3,85 position of greenish siltstone to silty marlite 3,85 - 4,00 brown-black sandstone, fine- to medium-grained, high portion of feldspars 4,00 - 4,20 very fine-grained sandstone to silty sandstone, thinly laminated, soft, weathered 4,20 - 4,60 pinkish to brownish-red sandstone, very coarse-grained, hard 3ilty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 4,90 - 5,00 fine-grained brownish-red sandstone, relative hard 5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 5,25 - 6,10 crompact dill cores of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre (paleryolite) 6,50 - 7,00 fight beige to grey quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit) 7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) 7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces 8,00 - 9,00 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	2,40 - 2,50	weathered sandstone (fragments), see upper lines, together with "soil"
bigger pieces of quartz porphyre and brown-black sandstone  3,00 - 3,10  brownish-red sandstone, weathered sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard  3,80 - 3,85  position of greenish siltstone to silty marlite brown-black sandstone, fine- to medium-grained, high portion of feldspars very fine-grained sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  5,00 - 5,25  6,10  fine-grained brownish-red sandstone, relativ hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil  brownish-red coarse-grained sandstone, at the end strongly weathered, compact drill cores of quartz porphyre (paleryolite)  compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60  light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00  9,00 - 9,50  9,00 - 9,50  9,70 - 10,9  pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	2,50 - 2,60	ignimbrite, hard
3,00 - 3,10 brownish-red sandstone, weathered sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relative hard position of greenish siltstone to silty marlite position of greenish siltstone to silty marlite point of feldspars very fine-grained sandstone, fine-to medium-grained, high portion of feldspars very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relative hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core 6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre (paleryolite) 6,50 - 7,00 light beige to grey quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate 9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
sandstone to arcose sandstone, firstly with brownish-red colouring, at the end brown-black (greywacke character), in some places strogly silicified (cement, compacted grains), relativ hard  3,80 - 3,85 3,85 - 4,00 4,00 - 4,20 4,00 - 4,20 4,20 - 4,60 pinkish to brownish-red sandstone to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relativ hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core smaller compact pieces of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces strongly weathered coarse-grained sandstone to conglomerate quartz porphyre (paleoryolite), hard, with positions of clay soil quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	3 00 - 3 10	
3,10 - 3,80 (greywacke character), in some places strogly silicified (cement, compacted grains), relative hard  3,80 - 3,85 position of greenish siltstone to silty marlite  3,85 - 4,00 position of greenish siltstone to silty marlite  3,80 - 3,85 position of greenish siltstone to silty marlite  4,00 - 4,20 provincia dandstone, fine- to medium-grained, high portion of feldspars  4,20 - 4,60 position of silts andstone to siltity sandstone, thinly laminated, soft, weathered position of silmy soil silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  5,00 - 5,25 positive sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  5,25 - 6,10 provinish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 position of slimy soil provinish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 position of slimy soil provinish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 position of slimy soil provinish-red coarse-grained sandstone, at the end strongly weathered, completely compact drill cores of quartz porphyre (paleryolite)  6,50 - 7,00 position drill cores of quartz porphyre (paleryolite)  6,50 - 7,00 position drill cores of quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 positions of clay soil quartz porphyre (paleoryolite), hard, with positions of clay soil quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 porphyre), completely falling into pieces after light hit	3,00 3,10	
3,80 - 3,85 position of greenish siltstone to silty marlite brown-black sandstone, fine- to medium-grained, high portion of feldspars very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered pinkish to brownish-red sandstone, very coarse-grained, hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relativ hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core smaller compact pieces of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces strongly weathered coarse-grained sandstone to conglomerate 9,00 - 9,00 quartz porphyre (paleoryolite), hard, with positions of clay soil quartz porphyre (paleoryolite), hard, pieces pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	3,10 - 3,80	(greywacke character), in some places strogly silicified (cement, compacted grains), relativ
3,85 - 4,00 brown-black sandstone, fine- to medium-grained, high portion of feldspars 4,00 - 4,20 very fine-grained sandstone to sility sandstone, thinly laminated, soft, weathered 4,20 - 4,60 pinkish to brownish-red sandstone, very coarse-grained, hard 3ilty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 4,90 - 5,00 fine-grained brownish-red sandstone, relativ hard 5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil 5,25 - 6,10 crumbling, pieces without coherent core 6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite) 6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit) 7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) 5,00 - 9,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces 5,00 - 9,00 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quartz porphyre (paleoryolite), hard, with positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	3.80 - 3.85	
<ul> <li>4,00 - 4,20</li> <li>4,20 - 4,60</li> <li>4,20 - 4,60</li> <li>4,60 - 4,90</li> <li>4,60 - 4,90</li> <li>5,00 - 5,25</li> <li>5,10 - 6,50</li> <li>6,10 - 6,50</li> <li>7,00 - 7,40</li> <li>5,00 - 7,40</li> <li>5,00 - 7,40</li> <li>5,00 - 7,00</li> <li>6,50 - 7,00</li> <li>5,00 - 7,00</li> <li>6,00 - 7,00</li> <li>6,00 - 7,00</li> <li>6,00 - 7,00</li> <li>6,00 - 8,00</li> <li>6,00 - 8,00</li> <li>6,00 - 8,00</li> <li>6,00 - 9,00</li> <li>7,00 - 9,00</li> <li></li></ul>		
4,20 - 4,60 4,60 - 4,90 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil fine-grained brownish-red sandstone, relativ hard silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core smaller compact pieces of quartz porphyre (paleryolite) compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces strongly weathered coarse-grained sandstone to conglomerate quartz porphyre (paleoryolite), hard, with positions of clay soil quartz porphyre (paleoryolite), hard, pieces pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  4,90 - 5,00 fine-grained brownish-red sandstone, relativ hard  5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  5,25 - 6,10 brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite)  6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
<ul> <li>4,90 - 5,00 fine-grained brownish-red sandstone, relativ hard</li> <li>5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil</li> <li>5,25 - 6,10 brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core</li> <li>6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite)</li> <li>6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated</li> <li>7,00 - 7,40 bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)</li> <li>7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)</li> <li>7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces</li> <li>8,00 - 9,00 quartz porphyre (paleoryolite), hard, with positions of clay soil</li> <li>9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces</li> <li>9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit</li> </ul>		silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered
5,00 - 5,25 silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered with the position of slimy soil  5,25 - 6,10 brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite)  6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated  7,00 - 7,40 bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	4.90 - 5.00	
brownish-red coarse-grained sandstone, at the end strongly weathered, completely crumbling, pieces without coherent core  6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite)  6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated  7,00 - 7,40 bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)  5,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		silty sandstone to siltstone, in some places brown laminas, at the end strongly weathered
6,10 - 6,50 smaller compact pieces of quartz porphyre (paleryolite) compact drill cores of quartz porphyre, feldspars kaolinizated bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.) strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate 9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		brownish-red coarse-grained sandstone, at the end strongly weathered, completely
6,50 - 7,00 compact drill cores of quartz porphyre, feldspars kaolinizated  7,00 - 7,40 bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)  7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	6 10 - 6 50	
7,00 - 7,40 bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent (disintegrates after hammer hit)  7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)  7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
7,40 - 7,60 light beige to grey quartz porphyre (paleoryolite), partly weathered, feldspars ochre (kaolin.)  7,60 - 8,00 strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		bigger pieces of quartz porphyre of beige-brown colour, partly weathered, coherent
strongly weathered sandstones to fine-grained conglomerates, dominance of powdery material, without compact core pieces  8,00 - 9,00  9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil  9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	7,40 - 7,60	<u> </u>
8,00 - 9,00 strongly weathered coarse-grained sandstone to conglomerate 9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces 9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	7,60 - 8,00	strongly weathered sandstones to fine-grained conglomerates, dominance of powdery
9,00 - 9,50 quartz porphyre (paleoryolite), hard, with positions of clay soil 9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces 9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit	8,00 - 9.00	
9,50 - 9,70 quartz porphyre (paleoryolite), hard, pieces  9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
9,70 - 10,9 pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q. porphyre), completely falling into pieces after light hit		
		pyroclastic sediment (?), changing of soily clay positions with vulcanic stones fragments (q.
	10,9 - 12,00	

## - St. Barbara Church in Otovice

	DOI CHOIC I
Distance from	Description
surface (m)	2 cost (p tion)
0,0 - 1,0	redbrown sandy soil with small stone particles
1,0 - 1,2	compact pieces of slightly weathered coarsegrained arcose sandstone
1.2	thin layer of redbrown soil with small fragments of fain grained clastic stones; easy to break
1.2	down by hand
1.4	compact piece of brownreddish silty claystone
1,5 - 2,0	small pieces of brownreddish silty claystone
2,0 - 2,2	big pieces of brownreddish silty claystone
2.3	pebble of hard claystone
2.4	sandstone masonry with mortar
24 20	fragments of coarsegrained arcoes sandstone, easy to break down by hand; fragments of
2,4 - 2,9	thick bedded gray claystone
2,9 - 3,0	sandstone masonry with mortar
3,0 - 3,5	small fragments of silty claystone, easy do break down by hammer
3,5 - 3,7	compact pieces of hard silty claystone
3,7 - 3,9	layer of soily character (weathered claystone) with small stone fragments
3,9 - 4,5	small fragmmets of silty claystone, easy to break down by hammer
4.5	compact piece of silty claystone
4,6 - 5,0	small fragments of silty claystone
5,0 - 5,4	layer of strongly weathered claystone
5,4 - 5,5	layer of strongly disintegrated to soil character
5,5 - 5,6	compact piece of silty claystone
5,6 - 5,8	small fragmmets of silty claystone, easy to break down by hammer
5,8 - 6,0	compact piece of silty claystone
6,0 - 7,0	layers of weathered finegrained sedimentary stone (claystone?), easy to break down by
0,0 - 7,0	hammer, easy to break down by hand, in some places harder possitions
70.72	
7,0 - 7,3	layer of thin bedded sility claystone, relatively hard, break down by hammer
7,3 - 7,4	layer of strongly weathered claystone
7,4 - 8	layers of weathered finegrained sedimentary stone (claystone?), easy to break down by
	hammer, easy to break down by hand, in some places harder possitions
8,0 - 9,0	compact pieces of silty claystone, in some places weathered layer
9,0 - 10,0	mostly weathered position, very easy to break down by hammer
10,0 - 10,5	small fragments of silty claystone
10,5 - 12,0	gray claystone, thin bedded, easy to break down by hand to thin layers

Distance from surface (m)	Description
0,00 - 0,30	brown sandy soil
0,3 - 0,9	fragments of coarsegrained arcose sandstone (slightly weathered), the surface is easy to crumble by hand
0,9 - 1,0	thin bedded silty claystone
1,0 - 1,2	bigger fragments of coarsegrained arcose sandstone (slightly weathered), the surface is easy to crumble by hand
1,2 - 1,3	layer of strongly weathered sandstone, disintegrated to sand
1,3 - 1,5	thin bedded silty claystone to siltstone
1,5 - 2	dark redbrown sandstone, small fragments strongly weathered (extremely soft, disintegrated by hand), bigger fragments compact
1.8	claystone
2,0 - 2,5	stone fragments with mortar
2.5	big pebble of strange stone material, not weathered, hard, probably andesite (?)
2,5 - 3,5	weathered redbrown silty claystone, smalle fragments
3,5 - 4,4	strongly weathered layer of soli character with claystone fragments
4,4 - 4,6	redbrown claystone, easy to break down by hammer
4,6 - 5,0	compact pieces of claystones, redbrown
5,5 - 5,5	slightly weathered layer of redbrown claystone, easy to break down by hammer
5,5 - 5,6	layer of easy disintegrating clastic sediment of caly -silty character
5,6 - 6,0	bigger fragments of redbrown claystone, some of them easy to break down by hammer
6,0 - 7,0	sizely different fragments of easy break down redbrown claystone
7,0 - 7,4	compact and harder fragments of claystone
7,4 - 7,6	layer of brown "soil" with small fragments of fine grained sedimentary stones
7,6 - 8,0	compact fragmements of claystone, redbrown, easy to break down by hammer
8,0 - 8,15	weathered greybrown clasic fain grained sediment (silty claystone), easy to break down by hand to soli character
8,15 - 9,0	layer of graybrown claystone, easy to break down by hammer
9,0 - 9,5	strongly weathered claystone, disintegrated to small fragments, easy to break down by hand
9,5 - 10,0	gray claystone, easy to break down by hammer
10,0 - 10,5	browngray layer of clastic sediment, breaking down by hand to soil character
10.5	leyer of harder claystone
10,5 - 11,0	light gray sediment of claystone character, easy to break down by hand, some harder possitions
11,0 - 11,6	layer of soft gray claystone, in some places easy to break down by hand to soli character
11,6 - 12,0	harder fragments of gray claystone

# **APENNDIX B - CALCULATION RESULTS**

#### - St. Ann Church in Vižňov

Pictures below present the results for the model with foundations where the same load is applied for both of them.

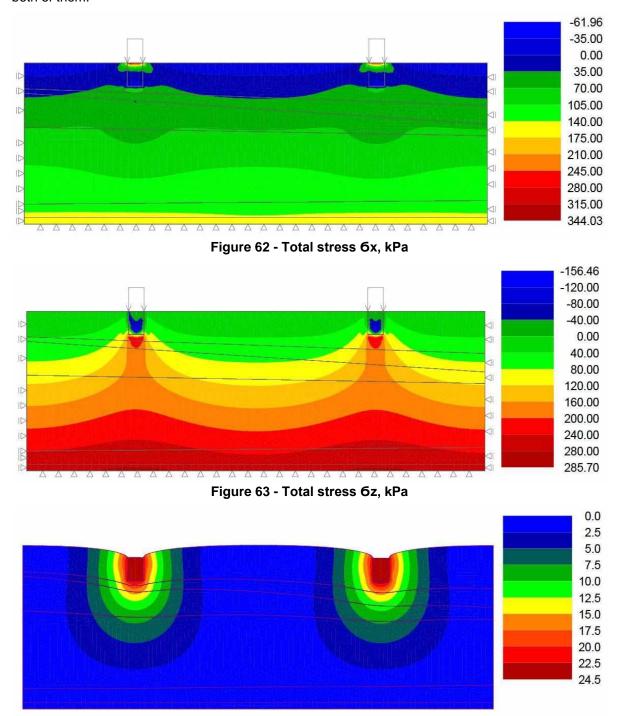


Figure 64 - Vertical displacement. mm

#### All Saints Church in Heřmánkovice

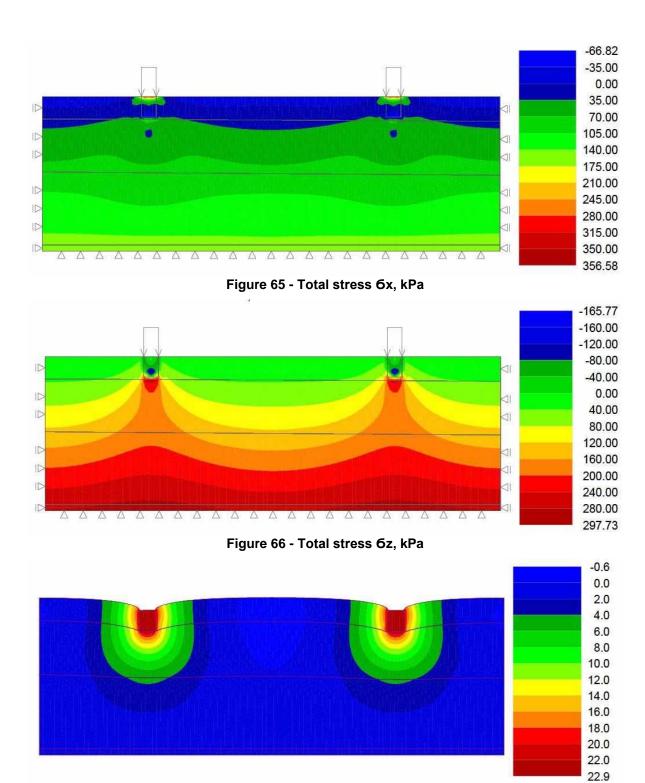


Figure 67 - Vertical displacement. mm