

Content

Content	5
1 Introduction	9
2 Manifestations of the anthropic landscape transformation under the influence of extraction	11
3 Landscape restoration via recultivations in the Czech Republic – history	14
4 Recultivation – basic terminology and division of recultivations	16
4.1 Basic terminology	16
4.2 Division of recultivations	17
4.2.1 Technical recultivation (Klementová 2012)	17
4.2.2 Biological recultivation.....	19
4.3 Recultivation phase (Klementová 2012).....	20
5 Forest recultivations	22
5.1 Implementation phase of the forest recultivations	23
5.2 Selection of woody plants for recultivations, classification and determination according to impacts and reactions on the environment	29
5.2.1 Exploitation of amelioration abilities of the plants (Mauer 1985)	29
5.2.2 Dendrological classification of woody plants and bushes for the recultivation purposes (Dimitrovský, 1999).....	30
6 Agricultural recultivations	33
6.1 Hiding technology and recultivation requirements	33
6.2 Criteria for choices of the agricultural recultivation method.....	34
6.3 Rotations of crops:.....	34
6.4 Description of soil conditions for the agricultural recultivation execution	38
7 Hydric recultivations	41
7.1 Drainage of the spoil tips' and residual pit slopes' surface	41

7.2	Firing of the residual pits	41
7.3	Methodical procedure during the residual pits' hydric recultivation.....	43
8	Landscape recultivations	49
8.1	Recreation as a recultivation goal.....	52
8.1.1	Recreational potential of the recultivated spaces – examples from abroad.....	54
9	Key: Near-natural recultivation (Klementová 2012)	57
9.1	Recultivation of quarries na Hádech.....	57
9.1.1	Recultivation of the quarry Růženina	59
9.1.2	Quarry Džungle	60
9.1.3	Quarry Hády.....	60
9.2	Recultivated and revitalized quarries as ecologically important land elements	61
10	Recultivation of the spoil tips, unloading yards and decanting plants	63
10.1	Recultivation of the spoil tips	63
10.2	Amelioration of the spoil tip's earth	63
10.3	Used ways of spoil tips' recultivation	64
10.4	Anti-erosion adjustment of the spoil tips' surface	65
10.5	Unloading yards' technical recultivation	66
10.6	Operational recommendations for unloading yards recultivation.....	67
10.7	Decanting plants' technical recultivation.....	68
11	Recultivation of the sand-pits and gravel-pits	71
12	Brownfields	74
12.1	Definitions	75
12.2	Attributes, characteristics	75
12.3	Brownfields problems	76
12.4	Brownfields versus greenfields	78
12.5	Brownfields emergence	79
12.6	Conditions and principles of the brownfields regeneration.....	80

12.6.1	Regeneration process.....	81
12.6.2	Foreign approaches to brownfields regeneration	83
13	Waste dumps recultivation	85
13.1	Definition, division and classification of the waste dumps	85
13.2	Dealing with guided and not sanitary landfills of the communal and industrial waste.....	90
13.3	Terms and definitions used in the landfilling field	91
13.4	Illegal landfills	93
13.5	Sanitary landfills.....	94
13.6	Landfills' gas system	98
13.7	Monitoring system of the landfills.....	99
14	Legislation and norms in the recultivations section	101
15	A procedure during the recultivation project processing	103
15.1	Project documentation for the recultivations.....	103
15.2	Agricultural recultivations – recultivation plan	104
16	Term paper's processing example	107
16.1	Justification of the measures' proposal.....	107
16.2	Locality characteristics – current condition	107
16.3	Measures' proposal – own sand-pit	108
16.4	Measures' proposal – resting zone.....	113
16.5	Technology of execution, including the preliminary works, job actions, terrain works, material, benchmark assessment bill	114
16.6	Orientation budget	116
17	Photographical appendix	122
18	Literature	128