

Fall 2006

CSES 4984/5984 – Reclamation of Drastically Disturbed Lands

<u>Date</u>	<u>Topic</u>	<u>Reading from Barnhisel et al.</u>
8/22	Organization & introduction	
8/24	Introduction to reclamation/restoration/rehabilitation	Chapter 1
8/29	Chemical and physical properties of spoils/soils	Chapter 4
8/31	Chemical and physical properties of spoils/soils	Chapter 4
9/5	Geology and geochemistry of AMD	Chapter 5 (Partial)
9/7	Acid mine drainage control	Chapters 5&6
9/12	Predicting potential acidity & ASS (Orndorff)	Handouts
9/14	Acid forming materials in VA highway corridors (Orndorff)	Chapter 36
	9/15 (Fri) Field Trip to Wise Co.	
9/19	Examination #1	
9/21	Library methods (M. Merrill; meet in 3310 Torgersen Tower)	
9/26	Restoring forests on mined lands (Burger)	Chapter 14
9/28	Restoring forests on mined lands (Burger)	Chapter 14
10/3	Chemical manipulation of mine soils	Chapter 9
10/5	Mine soil reconstruction and revegetation	Handouts
10/10	Use of organic amendments	Chapter 24
10/12	Reclamation of coal processing wastes	Chapter 17
10/17	Coal combustion by-product utilization (Beck)	Chapter 19
10/19	Highway revegetation/native plants (Booze-Daniels)	Chapter 35
10/24	Formation and taxonomy of disturbed soils (Galbraith)	Chapter 23, Handouts
10/26	Reclamation of mineral sands mines/prime farmlands	Chapter 29, 13 (partial)
10/31	Revegetation of metal smelter wastes and lands	Chapter 32/33
11/2	Phosphate mining and reclamation	Chapter 38
	11/3 and 4 (Fri/Sat) Field Trip to Eastern Virginia	
11/7	Examination 2	
11/9	Wetland issues and mitigation on mined lands	Handouts
11/14	Reclamation, AMD and the CWA (Zipper)	Chapter 7
11/16	AMD treatment – Passive (Zipper)	Chapter 6
11/28	Reclamation of arid lands	Chapters 11, 12 (partial)
	4984 Term Paper Due	
11/30	Sustainable mining in a global context	Handouts
12/5	Summary and review	
	5984 Project Report Due	
12/13	(4:25 pm) Final Exam (Comprehensive)	