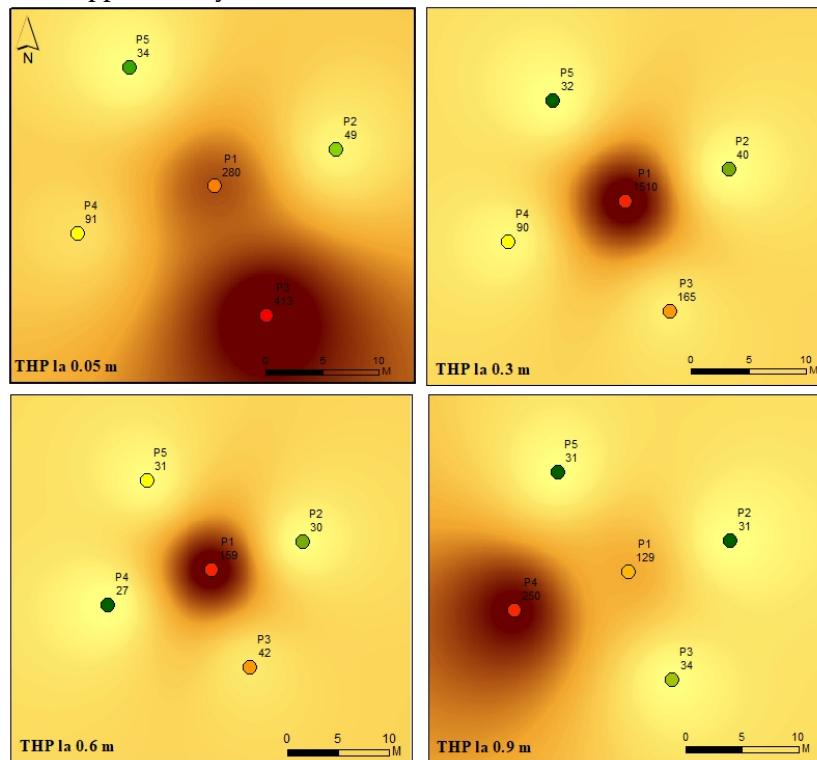
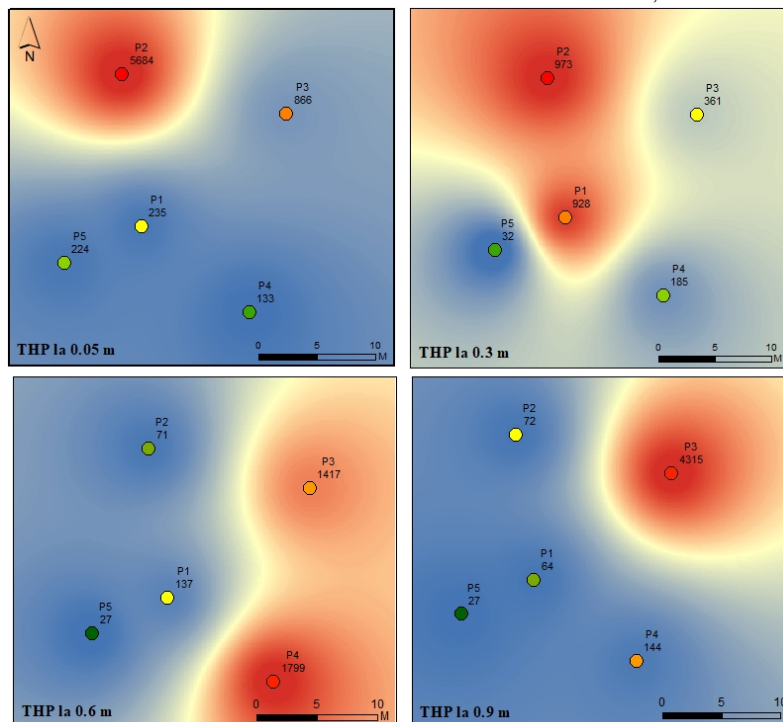


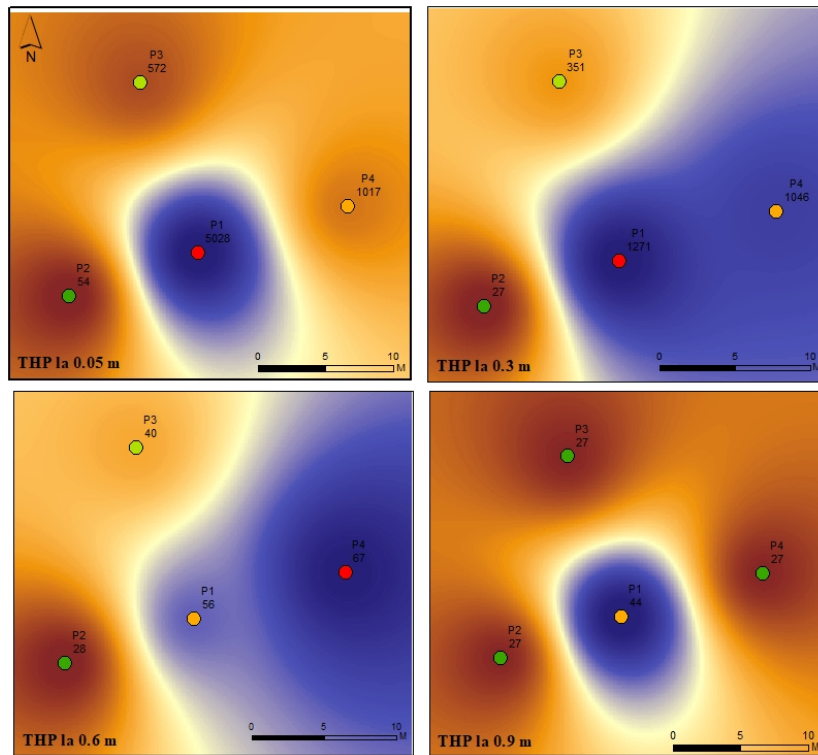
Supplementary Files S1.



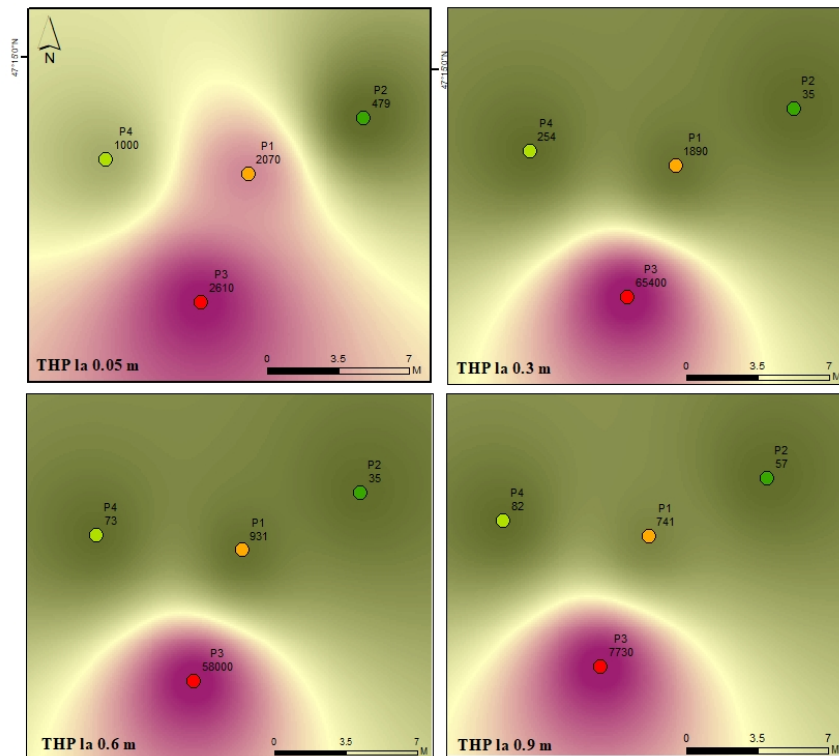
A. Modeled values of TPH concentrations for Probe 251 Sărișoara Nouă



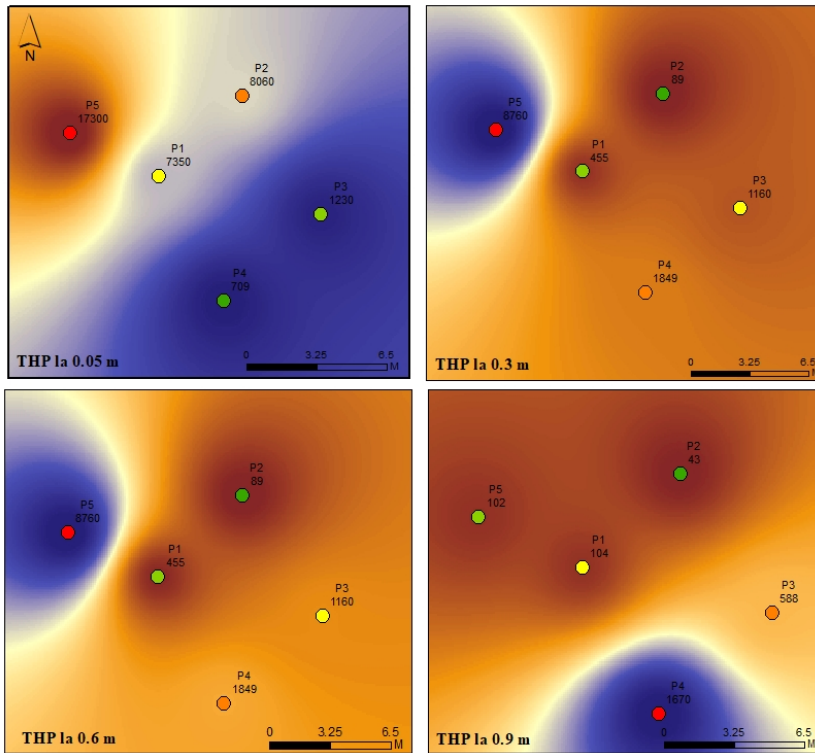
B. Modeled values of TPH concentrations for Probe 560 Mihai Bravu Vest



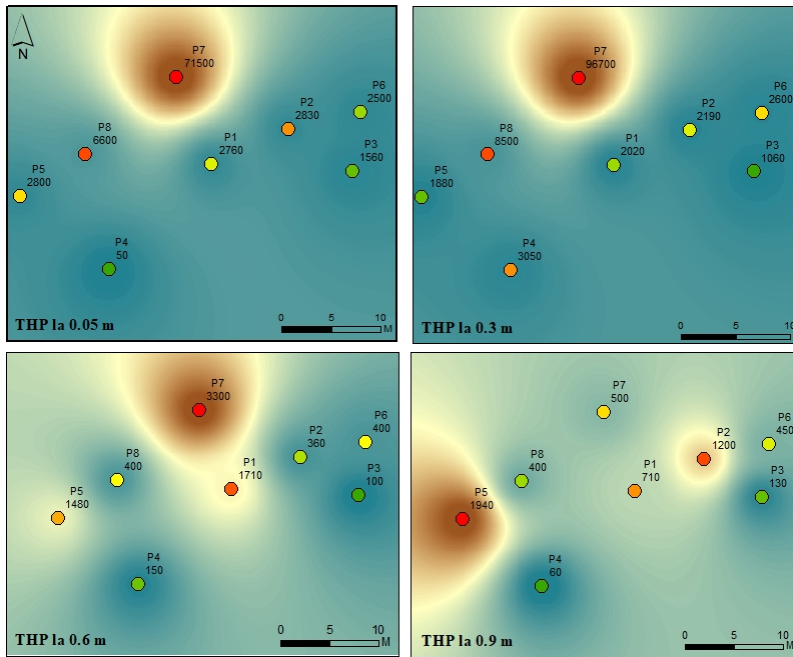
C. Modeled values of TPH concentrations for Probe 561 Mihai Bravu



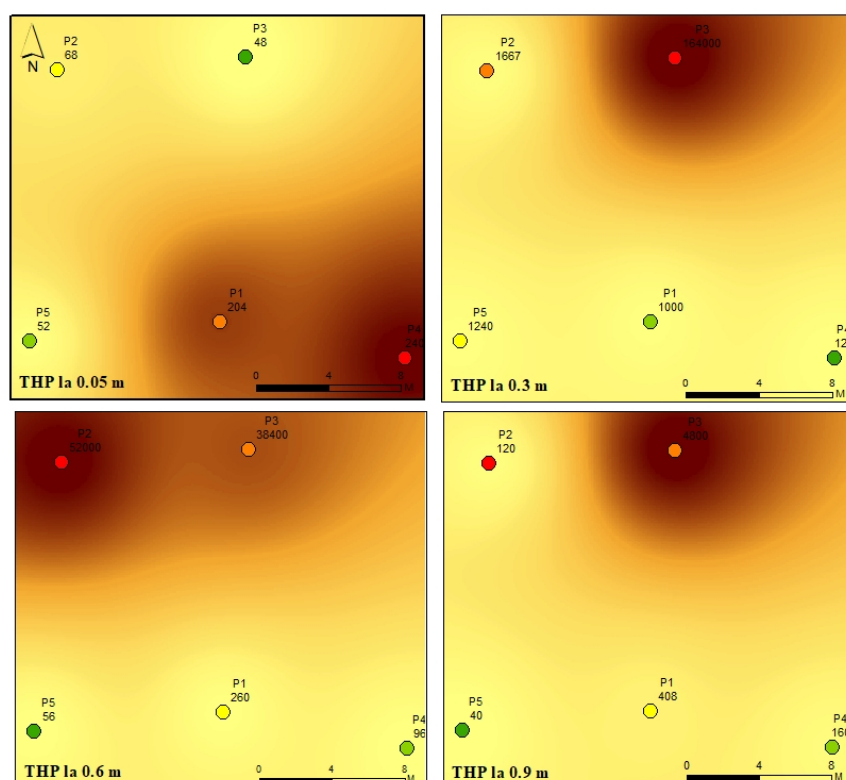
D. Modeled values of TPH concentrations for Probe 682 Suplac



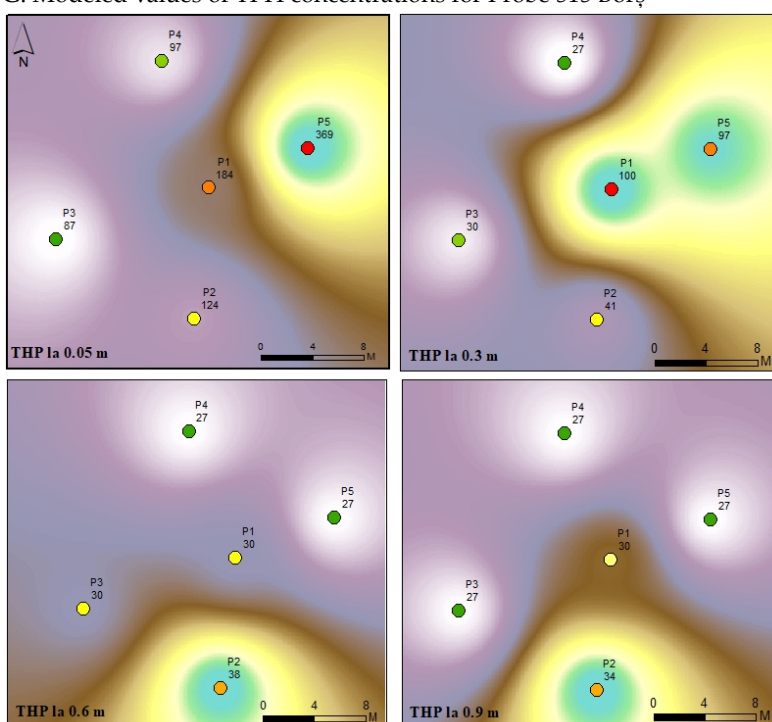
E. Modeled values of TPH concentrations for Probe 921 Suplac



F. Modeled values of TPH concentrations for Probe 514 Borş



G. Modeled values of TPH concentrations for Probe 515 Borș



H. Modeled values of TPH concentrations for Probe 805 Scărișoara Nouă

Supplementary Files Table S1. The evolution of soil bioremediation from the area of Sonda 251 Scărișoara

Monitoring twill		Weather conditions	Humidi ty	TP	p	Nutrients			Aeration
Date	S	temperature				payroll	NP	manure manure	Backus, crossing s

9/18/2019	S0	29.4	23.96%	789	7.				
9/28/2019					7.		200kg		
9/29/2019					7.	10 bales			
10/2/2019	S2	28.9	30.20%	652	7.				1 pass
10/16/2019	S4	27.7	32.60%	559	7.				
11/6/2019	S7	29.8	35.00%	500	7.				
11/10/2019	S8				7.	11 bales	100kg	1600kg	1 pass
11/16/2019	S9	29.2	32.70%	420	7.				
12/4/2019	S1	30.2	30.80%	351	7.				
12/16/2019	S1				7.				1 pass
12/18/2019	S1	28.5	31.60%	310	7.				
12/30/2019	S1	28.9	28.60%	235	7.				
1/15/2019	S1	29.5	29.20%	176	7.				

Supplementary Files S2. The evolution of soil bioremediation from the 560 Mihai Bravu Vest Probe area

Monitoring twill		Weather conditions	Humidity	TPH	pH	Nutrients		Aeration	
Date	S	temperature				payroll	NPK		
7/9/2019	S0	27.7	28.20%	8638	6.9			Backus, crossings	
7/16/2019	S1	26.5	27.60%	8003	6.9	10 bales	50kg		
7/23/2019	S2	26.9	27.20%		6.9	10 bales	50kg		
7/30/2019	S3	27.3	27.00%	7362	6.9		100kg	1 pass	
8/6/2019	S4	27.6	26.90%		6.9				
8/13/2019	S5	27.8	26.80%	6624	6.9				
8/20/2019	S6	28.1	26.10%		6.9				
8/27/2019	S7	28.2	25.70%	6251	6.9				
8/30/2019	S8	28.3	25.90%		6.9	20 bales		1 pass	
9/10/2019	S9	28.7	26.10%	5001	6.9				
9/17/2019	S10	29.5	26.80%		6.9				
9/24/2019	S11	29.2	26.60%	4405	6.9				
10/1/2019	S12	28.9	26.50%		6.9				
10/8/2019	S13	28.3	26.30%	3625	6.9				
10/15/2019	S14	29.1	27.10%		6.9				
10/19/2019	S15	29.1	26.80%		6.9		100kg	1 pass	
10/22/2019	S15	29.4	26.50%	2827	6.9				
10/29/2019	S16	28.7	25.80%		6.9				
11/5/2019	S17	26.5	26.30%	1802	6.9				

Supplementary Files Table S3. The evolution of soil bioremediation from the 561 Mihai Bravu Vest Probe area

Monitoring twill		Weather conditions	Humidity	TPH	p	Nutrients		Aeration	
Date	S	temperature				payroll	NPK	Backus	excavator
8/19/2019	S0					15 bales			
8/20/2019						15 bales			

8/27/2019	S1	27.9	25.80%	817	6.9				
8/31/2019	S2	28	25.90%		6.9	10 bales	200kg	1 pass	
9/10/2019	S3	28.1	26.30%	682	6.9				
9/17/2019	S4	28.6	27.10%		6.9				
9/24/2019	S5	29.8	28.10%	592	6.9				
10/1/2019	S6	29.2	27.30%		6.9				
10/8/2019	S7	29	26.90%	542	6.9				
10/15/2019	S8	29.4	27.50%		6.9				
10/19/2019	S9				6.9		100kg	1 pass	
10/22/2019	S9	30.1	27.20%	470	6.9				
10/29/2019	S1	29.7	26.60%		6.9				
11/5/2019	S1	28.9	26.30%	400	6.9				
11/12/2019	S1	28.8	26.10%		6.9				
11/16/2019	S1				6.9	10 bales			1
11/19/2019	S1	27.6	26.10%	300	6.9				
11/26/2019	S1	27.3	26.80%		6.9				
12/3/2019	S1	27	27.20%	237	6.9				
12/10/2019	S1	26.4	27.90%		6.9				
12/17/2019	S1	25.9	28.10%	182	6.9				

Supplementary Files Table S4. The evolution of soil bioremediation from the 682 Suplac Probe area

Monitoring twill		Weather conditions temperature	Humidity	TP	p	Nutrients		Aeration	
Date	S					payroll	NPL	Backus	excavator
5/20/2019	S0	24.5	25.90%	912	7.3	5 bales	50kg	1 pass	
5/26/2019	S1	26.1	28.60%		7.3	5 bales	50kg		
5/31/2019	S2	28.9	32.10%	840	7.3				
6/7/2019	S3	29.3	31.40%		7.3				
6/15/2019	S4	31.2	29.90%	701	7.3				
6/22/2019	S5	31.9	29.10%		7.3				
6/30/2019	S6	29.7	26.80%	610	7.3				
7/8/2019	S7	30.1	26.40%		7.3	10 bales	150kg	1 pass	
7/16/2019	S8	27.9	25.90%	446	7.3				
7/23/2019	S9	27.1	25.40%		7.3				

7/30/2019	S1	27.5	25.10%	400	7.3				
8/6/2019	S1	27.6	24.80%		7.3				
8/13/2019	S1	26.3	24.70%	282	7.3				1 pass
8/20/2019	S1	25.9	24.50%		7.3				
8/27/2019	S1	26.1	24.20%	198	7.3				
Retreat									
9/24/2019	S1	26.3	23.20%	598	7.3				
10/1/2019	S1	25.4	23.20%		7.3				
10/8/2019	S1	25.2	23.00%	530	7.3				
10/15/2019	S1	25.9	23.10%		7.3				
10/18/2019	S1				7.3		100kg	1 pass	
10/22/2019	S1	26.8	23.30%	418	7.3				
10/29/2019	S2	26.9	23.10%		7.3				
11/5/2019	S2	27.3	23.00%	370	7.3				
11/12/2019	S2	27.2	22.90%		7.3				
11/16/2019	S2				7.3	10 bales			1 pass
11/19/2019	S2	26.3	21.90%	294	7.3				
11/26/2019	S2	25.5	22.30%		7.3				
12/3/2019	S2	25.2	23.80%	226	7.3				
12/10/2019	S2	24.9	24.50%		7.3				
12/17/2019	S2	24.3	24.90%	161	7.3				

Supplementary Files Table S5. The evolution of soil bioremediation from the 921 Suplac Probe area

Monitoring twill		Weather conditions	Humidity	TP	p	Nutrients		Aeration	
Date	S					payroll	NPK	Backus	excavator
5/4/2019	S0					5 bales	50kg		
5/17/2019	S3	23.8	22.80%	860	7.1			1 pass	
5/26/2019	S4	24.2	25.90%		7.1				
5/31/2019	S5	29.5	30.10%	763	7.1				
6/7/2019	S6	32	28.50%		7.1				
6/15/2019	S7	32.1	27.30%	660	7.1				
6/22/2019	S8	32.7	27.10%		7.1				
6/30/2019	S9	32.4	29.10%	513	7.1				

7/7/2019	S1	32.6	28.70%		7.1	10	150kg	1 pass	
7/16/2019	S1	28.1	28.60%	372	7.1				
7/23/2019	S1	28.4	28.30%		7.1				
7/30/2019	S1	29	28.20%	332	7.1				
8/6/2019	S1	29.1	28.00%		7.1				
8/13/2019	S1	28.3	27.90%	248	7.1				1 pass
8/20/2019	S1	27.5	27.50%		7.1				
8/27/2019	S1	27.6	27.10%	186	7.1				
Retreat									
9/24/2019	S1	28.5	27.00%	610	7.1				
10/1/2019	S2	28.4	26.10%		7.1				
10/8/2019	S2	26.9	25.90%	538	7.1				
10/15/2019	S2	28.1	26.30%		7.1				
10/18/2019	S2				7.1		100kg	1 pass	
10/22/2019	S2	29.4	26.20%	380	7.1				
10/29/2019	S2	29.2	25.90%		7.1				
11/5/2019	S2	28.8	25.80%	350	7.1				
11/12/2019	S2	29.1	25.20%		7.1				
11/16/2019	S2				7.1	10 bales			1 pass
11/19/2019	S2	28.2	23.30%	258	7.1				
11/26/2019	S2	27.8	23.60%		7.1				
12/3/2019	S2	27.2	24.30%	220	7.1				
12/10/2019	S3	26.7	24.60%		7.1				
12/17/2019	S3	26.4	25.10%	182	7.1				

Supplementary Files Table S6. The evolution of soil bioremediation from the 514 Borş Probe area

Monitoring twill		Weather conditions	Humidity	TPH	p	Nutrients			aeration	
Date	S	temperature				payroll	NPK	garbage grajd	Backus	excavator
12/4/2020	S0					10 bales	50kg	500kg		
12/7/2020	S1					10 bales	50kg	500kg		

12/10/2020	S1	28.8	29.90%	7863	6.					
12/15/2020	S2				6.				1 pass	
12/18/2020	S2	29.2	30.90%	7114	6.					
12/30/2020	S4	30.4	31.10%	6306	6.					
1/15/2021	S6	29.6	30.30%	5109	6.					
1/29/2021	S8	28.3	31.40%	4483	6.					
2/12/2021	S10	27.9	31.20%	3628	6.					
2/23/2021	S12				6.	15 bales	100kg			1 pass
2/26/2021	S12	28.9	29.10%	2501	6.					
3/8/2021	S14				6.	5 bales	50kg		1 pass	
3/30/2021	S16	30.4	28.50%	1696	6.					
Retreat										
4/16/2021	S18				6.					
4/29/2021	S20	28.4	31.60%	11080	6.					
5/14/2021	S22				6.	10 bales	100kg		1 pass	
5/17/2021	S23	29.1	29.10%	7962	6.					
5/26/2021	S24	26.5	30.80%		6.					
5/31/2021	S25	29.3	30.20%	6231	6.					
6/7/2021	S27	29.8	29.90%		6.					
6/15/2021	S28	31.2	29.10%	4384	6.					
6/22/2021	S29	31.8	28.50%		6.					
6/30/2021	S30	27.9	29.10%	3512	6.					
7/9/2021	S31	28.4	28.70%		6.	10 bales	150kg		1 pass	
7/16/2021	S32	27.5	28.50%	3009	6.					
7/23/2021	S33	27.9	28.30%		6.					
7/30/2021	S34	28.3	28.00%	2871	6.					
8/6/2021	S35	28.2	27.60%		6.					
8/13/2021	S36	28.5	27.30%	2189	6.					
8/20/2021	S37	29	26.80%		6.					
8/27/2021	S38	28.7	26.30%	1304	6.					

Supplementary Files Table S7. The evolution of soil bioremediation from the 515 Borş Probe area

Monitoring twill		Weather conditions	Humidity	TPH	pH	Nutrients		aeration	
Date	S	temperature				payroll	NPK	Backus, crossings	excavator
5/5/2020	S0					10 bales	100kg		
5/17/2020	S2	24.1	22.60%	8974	6.7			1 pass	
5/26/2020	S3	26.1	25.80%		6.7				
5/31/2020	S4	32.4	29.50%	7916	6.7				
6/7/2020	S5	32.8	28.70%		6.7				
6/15/2020	S6	33.4	27.90%	6002	6.7				
6/22/2020	S7	33.7	27.30%		6.7				
6/30/2020	S8	32.9	28.40%	5013	6.7				
7/7/2020	S9	33.6	27.80%		6.7	10 bales	150kg	1 pass	
7/16/2020	S10	27.9	27.50%	4001	6.7				
7/23/2020	S11	28.1	27.40%		6.7				
7/30/2020	S12	28.5	27.20%	3519	6.7				
8/6/2020	S13	28.9	26.80%		6.7				
8/12/2020	S14	26.5	26.70%		6.7				1 pass
8/13/2020	S14	26.7	26.40%	2461	6.7				
8/20/2020	S15	26.8	26.30%		6.7				
8/27/2020	S16	26.5	26.00%	1571	6.7				
Retreat									
9/24/2020	S17	28.3	24.00%	6001	6.7				
10/1/2020	S18	27.9	23.80%		6.7				
10/8/2020	S19	27.7	23.50%	5429	6.7				
10/15/2020	S20	29.5	23.90%		6.7				
10/18/2020	S22				6.7		50kg	1 pass	
10/22/2020	S22	27.1	24.20%	3804	6.7				
10/29/2020	S23	28.2	23.90%		6.7				
11/5/2020	S24	27.8	23.40%	3235	6.7				
11/12/2020	S25	26.8	23.20%		6.7				
11/16/2020	S26				6.7	10 bales			1 pass
11/19/2020	S26	25.5	22.80%	2608	6.7				
11/26/2020	S27	24.3	23.90%		6.7				
12/3/2020	S28	23.7	24.20%	2190	6.7				
12/10/2020	S29	23.2	25.10%		6.7				
12/17/2020	S30	23.1	26.50%	1588	6.7				

Supplementary Files Table S8. The evolution of soil bioremediation from the 805 Scărișoara Nouă Probe area

Monitoring twill		Weather conditions	Humidity	TPH	pH	Nutrients		aeration
Date	S	temperature				payroll	NPK	
7/2/2019	S1							Backus, crossings
7/9/2019	S2	27.1	28.90%	8798	7	10 bales	50kg	1 pass
7/16/2019	S3	26.9	28.30%	8122	7	10 bales	50kg	
7/23/2019	S4	27.4	27.90%		7		100kg	
7/30/2019	S5	27.8	27.20%	7462	7			

8/6/2019	S6	28.2	27.00%		7			
8/13/2019	S7	28.3	26.90%	6641	7			
8/20/2019	S8	28.5	26.80%		7			
8/27/2019	S9	28.8	26.10%	5998	7			
8/31/2019	S10	28.9	26.70%		7	10 bales	100kg	1 pass
9/1/2019	S10	28.9	26.70%		7			1 pass
9/10/2019	S11	29.2	26.90%	4759	7			
9/17/2019	S12	30.4	26.90%		7			
9/24/2019	S13	31.4	27.00%	4010	7			
10/1/2019	S14	29.2	26.90%		7			
10/8/2019	S15	28.4	26.30%	3602	7			
10/15/2019	S16	29.6	27.40%		7			
10/18/2019	S17	29.7	27.20%		7		100kg	1 pass
10/22/2019	S17	30.1	26.90%	2362	7			
10/29/2019	S18	29.2	25.20%		7			
11/5/2019	S19	28.1	26.30%	1398	7			

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