EVALUATION SHEET TREE & SHRUB PLANTING



1. Project details:

Client: Níkola Tesla Power Plant, Belgrade, Serbía

Project name: Reclamation of degraded mining land filled with fly-ash

Evaluated by: Ms. Natasa Trifunovic (Olimpik Inzenjering d.o.o.)

Application date: March 2010 Evaluation date: August 2010

Site conditions:

Fly-ash, a coal production waste material, has been dumped as sludge in vast areas surrounding the thermal power plant. Wind erosion of these areas is of major concern as it is causing health problems to the local population, hence the need for a vegetative cover. However, the chemical composition of fly-ash and the lack of microbiological soil

life make plant growth very difficult.



	08. 12. 2005.		
7	aktivna III	pasivna	
SiO ₂	52,20	53,56	
Al ₂ O ₃	27,75	26,69	
Fe ₂ O ₃	6,61	6,08	
CaO	3,12	5,07	
MgO	2,49	1,99	
Na ₂ O	1,01	0,74	
K ₂ O	1,78	1,45	
TiO ₂	0,75	0,75	
P ₂ O ₅	0,06	0,07	
SO ₃	3,01	2,53	
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	2009				
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As	84	106	130	115	
В	620	516	1120	1200	
Ba	423	392	340	330	
Be					
Cd					
Ca					
Co					
Cr	342	392	280	276	
Cs					
Cu	196	220	102	110	
CI	<10	<10	<10	<10	
F	<1	<1	<1	<1	
Ga	53	40	56	55	
Ge					
Hg	<0.01	< 0.01	< 0.01	< 0.01	
Li	55	99	60	66	
Mn	293	287	440	450	
Mo	<5	<5	<5	<	
Nb	18	14	15	1.5	
Ni	123	151	130	156	
Pb	38	36	32	3.5	
Rb	210	150	180	170	
Sc	<1	<1	<1	<1	
Se					
Sr	177	190	200	180	
Th					
U					
V	99	116	102	98	
W					
Zn	95	45	98	110	
Zr	76	96	60	72	
Y	22	30	23	31	

2. Information on the use of TerraCottem® Universal:

- ✓ For which of the following applications did you use TerraCottem[®] Universal?
 - ☑ Trees
 - ☐ Shrubs
 - ☐ Flowers

Trees from different species were planted as a test-case:

- Robinia Pseudoacacia
- ulmus Campestrís
- Elaegnus angustífolía

The seedlings were of poor quality, small (appr.30cms) and almost dry. None of the plants received any additional water or care.

The rate of 1.5kg TerraCottem universal per m³ of soil was mixed with the soil from the plant hole.

- ✓ Which issues did you have to deal with prior to using TerraCottem® Universal in the above applications?
 High plant mortality.
- ✓ What did you want to achieve by using TerraCottem[®] Universal?

Increased survival rate.

✓ Which of the following product benefits did you observe?

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- ☑ Increased survival rate
- Better growth
- ☐ More fruits
- ☐ Quicker establishment of young trees/shrubs
- ☐ Increased resistance to water stress
- ☐ Others:



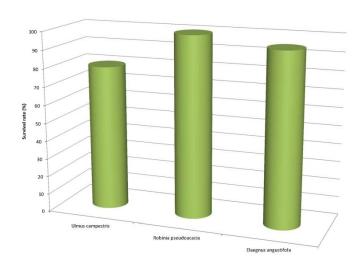
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1 Doduction in	m

- ☐ Reduction in maintenance ...%
- ☐ Reduction in replacement costs ...%

On August 12th 2010, the following plant height and survival rates were observed:

Robinia Pseudoacacia: 195cms Almost 100%

85cms ulmus Campestrís: 85% Elaegnus angustífolía: 95% 135cms









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