

Distribution of Heavy Metals in Vegetative Biofiltration Columns

Table S1. Average concentration of heavy metals in effluent water samples at the beginning (I, before irrigation) and at the end (F, after irrigation) of the experiment.

Plants	Before (I)/ End (F)	Concentration in Water Samples (µg/L)				
		Cadmium	Chromium	Copper	Lead	Zinc
Dod	I	17.12	24.42	25.95	11.00	1.00
	F	3.89	4.26	4.28	22.01	1.00
Vit	I	3.24	7.79	15.18	11.00	6.99
	F	2.79	5.00	15.57	13.69	1.00
Fic	I	1.00	4.20	5.34	11.00	1.00
	F	4.39	3.69	2.38	11.00	1.00
Jas	I	1.00	5.12	3.34	11.00	1.00
	F	2.34	4.52	6.12	19.97	8.75
Pen	I	1.00	4.84	9.41	26.70	35.41
	F	3.69	5.00	5.21	11.00	6.45
Ixo	I	1.00	3.74	5.21	11.00	1.00
	F	2.20	4.41	2.10	11.00	1.00
Hib	I	1.00	4.21	4.71	11.00	1.00
	F	3.19	4.26	1.85	16.88	1.00
Vin	I	1.78	4.84	3.10	11.00	6.57
	F	2.21	3.80	2.82	11.00	1.00
Lan	I	1.77	3.55	4.53	11.00	1.00
	F	2.11	2.91	3.32	21.23	1.00
Can	I	1.00	4.42	3.99	11.00	1.00
	F	2.24	4.04	3.93	19.95	1.00
Alt	I	1.00	5.95	5.47	11.00	1.00
	F	3.22	5.00	4.80	11.00	4.91
Rho	I	1.00	2.67	4.03	11.00	1.00
	F	3.48	2.87	3.17	11.00	1.00

Table S2. Average concentration of heavy metals in plant samples at the beginning of the experiment, before irrigation with synthetic greywater (R, S, and L indicates Roots, Shoots and Leaves, respectively).

Plants	Root (R), Shoot (S) & Leaves (L)	Concentration in Plant Samples (µg/L)				
		Cadmium	Chromium	Copper	Lead	Zinc
Dod	R	3.00	10956.40	14843.10	11.00	3.00
	S	3.00	13118.43	8149.53	11.00	11489.60
	L	919.55	7290.23	11133.00	11.00	17345.30
Vit	R	3.00	10667.00	10330.50	11.00	17154.30
	S	3.00	5091.09	6291.54	11.00	9693.05
	L	3.00	10246.65	5896.09	11.00	43825.73
Fic	R	3.00	21764.10	18505.30	11.00	13329.90
	S	3.00	5212.55	12654.60	11.00	15253.10
	L	3.00	10401.27	10480.00	11.00	7978.08
Jas	R	3.00	13377.90	8354.88	11.00	18652.30
	S	3.00	4932.82	4247.29	11.00	3.00
	L	3.00	1482.85	4004.30	11.00	3.00
Pen	R	331.13	17219.70	10908.20	6590.00	11102.80

	S					
	L	3.00	26466.07	5100.20	11.00	3.00
	R	3.00	17931.75	10130.95	11.00	3000.00
Ixo	S	3.00	5162.25	15529.62	11.00	2661.29
	L	3.00	7451.21	20386.43	11.00	22304.97
	R	3.00	21930.50	13485.30	11.00	10336.40
Hib	S	3.00	8350.73	13147.20	11.00	13037.47
	L	3.00	8472.30	8156.44	11.00	18955.47
	R					
Vin	S					
	L	3.00	20686.20	10446.70	11.00	56537.80
	R	280.77	27024.80	18059.55	11.00	14848.64
Lan	S	3.00	6392.86	7115.01	11.00	34771.00
	L	3.00	12071.36	10256.54	11.00	22494.40
	R					
Can	S					
	L	330.81	28577.27	8655.33	4011.37	6457.14
	R	3.00	90762.20	24279.90	11.00	28088.50
Alt	S	3.00	4890.87	2797.99	11.00	18318.50
	L	3.00	9217.25	11310.50	11.00	54154.50
	R	532.83	36470.90	12695.30	11.00	55404.90
Rho	S					
	L	3.00	14321.40	16506.80	11.00	108544.00

Table S3. Average concentration of heavy metals in plant samples at the end of the experiment, before irrigation with synthetic greywater (R, S, and L indicates Roots, Shoots and Leaves, respectively).

Plants	Root (R), Shoot (S) & Leaves (L)	Concentration in Plant Samples in µg/L				
		Cadmium	Chromium	Copper	Lead	Zinc
	R	1200.85	79663.80	6175.19	12993.53	5317.30
Dod	S	952.51	9095.73	10111.83	6948.23	13780.47
	L	541.48	7458.55	4895.73	3521.90	16913.30
	R	1202.04	38093.37	4600.08	10947.75	3.00
Vit	S	1089.83	6085.01	5996.49	11.00	9811.63
	L	1105.80	7527.87	4230.53	5410.30	36516.70
	R	1599.55	71163.63	38288.27	30119.30	25484.90
Fic	S	765.19	6576.83	10999.83	6509.50	12385.27
	L	890.33	6569.14	5406.11	4923.70	3000.00
	R	1231.82	24241.30	5185.80	10571.66	3.00
Jas	S	205.55	5365.79	6609.55	4470.30	2727.56
	L	1189.34	11010.50	5158.59	5868.34	2165.53
	R	888.17	59374.63	6179.80	40996.47	10848.23
Pen	S					
	L	345.81	19213.17	3463.59	11.00	3.00
	R	1187.63	16289.40	6581.55	6736.67	8871.30
Ixo	S	249.76	5542.86	7955.84	4246.03	4122.63
	L	426.08	7438.95	3807.83	11.00	17979.10
	R	1153.67	21334.80	9140.85	5578.60	49267.70
Hib	S	546.26	7486.90	7807.32	1727.52	9344.03
	L	623.69	9712.93	4906.73	4626.90	11903.73
	R					
Vin	S					

Lan	L	1424.11	13920.75	10219.95	1638.52	97301.13
	R	1162.61	44547.35	38195.00	9756.05	72940.40
	S	1287.27	7004.25	7235.60	11.00	18392.40
Can	L	543.26	11478.10	9297.84	11.00	10757.10
	R					
	S					
Alt	L	577.23	10508.77	4641.68	6247.77	8546.02
	R	1268.02	34365.60	23030.73	6655.08	40950.73
	S	899.12	6598.15	6256.77	5087.50	37218.47
Rho	L	1037.72	16366.40	13538.67	4482.27	83246.93
	R	2001.01	102486.30	25727.53	85849.83	128045.40
	S					
	L	1707.37	11952.52	16571.75	11.00	52607.53

Table S4. Average concentration of heavy metals in soil samples at the beginning (I, before irrigation with greywater) and at the end (F, after irrigation with greywater) of the experimental period.

Plants	Before (I)/ End (F)	Concentration in Soil Samples (ppm)				
		Cadmium	Chromium	Copper	Lead	Zinc
Dod	I	7.33	161.48	16.05	11.85	21.28
	F	3.10	319.14	12.90	0.01	31.43
Vit	I	3.83	91.99	8.27	0.01	7.56
	F	1.57	93.29	9.12	0.01	31.99
Fic	I	1.65	72.94	8.94	8.19	3.00
	F	1.21	40.66	13.01	0.01	34.93
Jas	I	1.65	54.57	9.76	10.12	10.32
	F	3.41	211.79	8.96	5.95	25.90
Pen	I	2.23	108.42	12.72	4.66	16.31
	F	0.70	54.84	7.79	0.01	10.39
Ixo	I	3.11	51.83	11.81	0.01	10.87
	F	1.28	27.73	23.57	0.01	14.49
Hib	I	2.91	81.78	14.12	4.35	5.37
	F	2.53	194.35	10.84	0.01	18.15
Vin	I	4.80	56.88	8.56	9.12	8.11
	F	0.81	25.50	16.45	3.75	12.04
Lan	I	1.93	55.05	10.58	3.40	6.18
	F	0.72	49.08	10.53	7.08	40.53
Can	I	2.57	63.06	12.46	4.49	14.28
	F	2.29	222.29	12.71	11.20	20.84
Alt	I	2.62	51.50	8.70	4.24	14.11
	F	1.68	80.04	9.71	0.01	42.18
Rho	I	3.91	51.96	11.18	1.87	17.48
	F	1.52	151.61	9.86	0.01	30.71