

Biomass Production and Metal Remediation by *Salix alba* L. and *Salix viminalis* L. Irrigated with Greywater Treated by Floating Wetlands

Supplementary Material

Table S3. Trace element concentrations (mg/kg): (a) *S. alba* leaves; (b) *S. alba* twigs; (c) *S. viminalis* leaves; and (d) *S. viminalis* twigs.

<i>S. alba</i>		Element										
<i>a) Leaves</i>	Aluminium (Al)	Boron (B)	Calcium (Ca)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Magnesium (Mg)	Manganese (Mn)	Sodium (Na)	Nickel (Ni)	Zinc (Zn)
SA1	1014.6±226.15	532.2±68.78	219208.3±19484.89	752.3±30.81	492.1±129.82	380.6±177.81	2590.7±259.00	93834.6±4582.78	3847.0±312.66	2870.8±86.13	355.4±155.45	2472.1±454.87
SA2	954.6±411.68	490.6±77.81	217637.9±18553.69	725.2±33.35	241.1±62.25	352.6±231.76	1844.7±181.30	87802.0±4151.76	2972.5±172.93	3169.6±95.09	648.8±265.05	1704.9±805.50
SA3	891.6±335.53	790.5±68.71	291965.1±26072.06	1227.3±649.48	266.7±89.49	557.9±386.79	2135.6±149.38	118658.8±5295.51	5634.8±219.10	1801.6±54.05	828.6±327.70	3089.4±635.79
SA4	731.9±588.06	504.7±78.14	225411.8±19467.68	878.5±34.78	305.4±95.86	448.4±308.31	2036.0±106.45	97646.4±4601.27	2435.3±117.97	2147.8±64.43	584.2±362.19	1830.5±496.73
SA5	883.9±227.40	554.3±54.58	229792.6±20275.64	466.2±83.24	346.2±121.47	448.4±321.97	2480.4±150.12	100726.8±4030.29	11856.5±261.86	2017.0±60.51	1008.3±791.90	2954.4±954.74
SA6	1094.4±271.16	534.8±68.95	239494.3±21824.75	1069.9±192.72	256.6±74.55	451.0±285.78	2485.3±121.76	99172.7±4628.56	10546.9±347.46	3216.3±96.49	554.0±390.47	1466.1±900.18
SA7	894.0±236.31	401.8±26.75	205824.2±18510.92	373.6±113.11	303.3±133.81	385.6±172.38	1902.3±185.08	95648.0±4307.97	9469.2±176.07	2643.0±79.29	329.5±185.31	1883.7±687.14
SA8	964.2±330.72	543.4±59.86	216076.3±19510.16	415.0±55.40	281.1±133.26	330.6±135.83	2039.4±158.64	85798.8±3926.27	9096.8±103.21	2099.3±62.98	169.9±71.90	1587.8±640.71
SA9	1046.0±248.40	594.9±48.09	262410.7±24796.45	691.6±40.04	255.6±130.47	479.3±271.55	2404.7±173.98	117279.1±5457.18	11076.2±313.59	2594.0±77.82	331.8±114.69	1760.8±977.91
SA10	893.1±504.69	473.2±70.38	214305.2±19714.84	580.4±107.63	265.2±88.84	375.4±163.94	2228.1±107.78	96508.5±4380.31	8701.8±465.50	2809.7±84.29	290.3±149.12	1821.6±693.72
SA11	996.2±265.00	514.2±78.27	228748.1±21445.34	736.5±72.35	268.3±92.11	385.3±135.80	2275.3±63.51	103342.9±5074.36	6543.8±451.03	2628.6±78.86	335.7±159.70	1612.5±536.18
SA12	1343.4±419.08	544.6±58.39	215303.1±19605.44	1349.6±121.32	345.5±172.32	301.6±115.60	2360.4±221.75	101464.0±5123.53	7377.3±394.92	2138.8±64.16	675.1±272.60	1386.4±765.35
SA13	1018.7±398.93	360.6±41.86	181743.7±16789.96	322.0±18.59	250.1±86.46	438.3±349.93	2372.0±198.78	80382.9±3547.61	2334.4±132.49	2723.0±81.69	851.7±347.78	1043.6±288.21
SA14	1326.2±421.14	374.2±82.05	222009.5±19374.18	386.4±46.70	329.3±74.74	414.8±185.83	2692.2±117.94	90238.7±4031.32	2711.4±309.61	3397.3±101.92	360.7±118.75	1826.9±334.78
SA15	1515.4±576.86	642.1±61.99	270884.8±23746.97	648.3±53.89	356.5±167.31	342.3±99.11	2803.2±49.24	110564.2±5756.50	9451.3±320.20	2446.1±73.38	592.7±314.09	1586.1±575.14
SA16	1333.3±803.45	332.0±36.90	184383.6±16803.57	302.9±25.60	286.1±84.79	497.9±256.88	2172.5±92.75	73335.8±3484.06	1625.4±349.92	2694.4±80.83	512.1±296.17	1779.1±883.53
SA/C1	982.3±409.21	422.3±87.13	179737.7±16003.38	562.8±42.53	307.9±105.73	402.1±209.50	2172.1±158.87	72682.2±3498.75	6200.9±142.60	2791.3±83.74	506.6±541.21	1127.3±631.04
SA/C2	864.1±259.25	371.2±52.22	173119.4±15218.63	575.7±60.72	375.6±164.38	401.6±258.11	2604.4±108.18	78409.8±4088.97	2734.5±140.75	3207.5±96.26	865.8±483.86	1064.3±485.57
SA/C3	1069.3±261.16	434.3±62.30	200735.8±18478.38	365.9±86.65	263.7±120.64	491.8±209.38	1930.7±107.41	87255.6±4859.29	6559.1±196.02	2696.9±80.91	517.0±433.08	1770.5±521.50
SA/C4	1367.5±200.15	468.4±49.20	227092.4±20177.31	300.2±81.81	317.7±148.02	587.6±391.96	3064.4±187.42	99081.0±5183.62	4882.1±409.70	2820.2±84.61	575.0±843.84	1390.0±861.60
<i>b) Twigs</i>												
SA1	626.5±436.40	121.1±57.63	71371.7±6445.89	810.7±99.95	210.5±122.99	273.1±138.85	876.2±373.70	24893.3±1163.97	1988.2±266.91	3081.4±92.44	354.7±107.75	2348.4±607.95
SA2	633.1±434.67	88.7±35.51	55701.2±4588.28	617.6±131.02	233.9±94.17	244.8±163.25	651.1±156.82	21818.8±910.95	481.1±222.83	4988.4±149.65	210.5±46.65	1996.9±329.71
SA3	859.7±669.39	68.0±34.31	60208.7±5271.69	607.9±57.17	228.7±71.64	447.7±266.71	634.9±234.70	21349.4±942.02	686.5±212.02	2663.0±79.89	298.5±26.43	2158.2±455.74
SA4	510.3±364.77	71.6±12.98	62283.0±4883.44	656.0±27.88	251.0±69.86	550.7±638.27	709.7±365.65	19950.5±984.84	525.6±73.68	5095.7±152.87	485.0±70.59	1711.0±357.89
SA5	404.0±293.16	65.4±13.24	63716.3±5338.09	258.5±43.05	364.4±180.50	624.1±395.21	827.4±250.61	30641.7±1654.11	2272.9±176.27	10751.9±322.56	275.8±58.40	1317.4±612.17
SA6	478.3±422.91	91.2±33.86	64747.3±5040.05	263.7±58.56	288.1±201.89	453.8±320.18	864.4±210.41	30352.3±2190.73	2079.4±166.56	8597.9±257.94	458.6±54.73	1834.0±423.70
SA7	702.6±306.42	43.3±25.99	70793.6±5913.35	313.0±62.92	301.0±139.75	302.1±139.68	676.8±289.21	25400.8±1123.45	1871.1±267.00	8985.1±269.55	394.0±43.86	1575.7±324.42
SA8	460.4±362.44	55.2±6.12	65272.4±5767.73	503.5±62.48	290.1±125.45	413.3±112.74	753.2±271.88	24954.0±1039.61	2329.0±202.01	2576.6±77.30	293.1±37.82	1906.4±529.64
SA9	655.3±307.31	122.2±43.51	74657.0±6675.20	393.0±186.48	224.8±99.87	256.4±168.37	723.6±228.52	26755.9±1343.57	2186.3±298.22	6880.6±206.42	315.0±75.98	2449.7±720.50
SA10	700.1±456.53	67.0±26.81	65825.7±5872.23	1041.9±846.86	320.2±123.75	392.8±300.81	680.2±114.60	25533.2±1416.39	1545.7±112.29	4520.1±135.60	271.9±86.64	1035.4±226.71
SA11	720.5±314.72	97.2±34.58	62529.6±5316.59	820.1±254.52	255.9±118.66	359.9±173.70	606.4±236.05	18335.1±944.39	1480.8±216.80	1480.7±44.42	198.9±11.44	1966.2±421.55
SA12	591.4±492.62	44.9±24.88	48852.6±3856.51	641.2±146.53	276.0±168.18	447.7±265.09	664.0±297.55	19369.1±1015.46	1692.2±375.59	1253.7±37.61	197.5±63.96	2451.4±642.26
SA13	609.4±372.82	77.5±26.98	84018.5±7550.00	617.5±549.49	340.5±237.54	375.6±245.68	770.0±192.54	28267.2±1282.05	659.3±214.54	2097.6±62.93	253.2±66.42	1998.0±299.80
SA14	642.4±210.35	123.0±58.43	86712.2±7839.26	516.2±310.22	249.6±97.61	334.0±165.20	812.7±484.89	32435.1±1730.50	770.7±207.96	4479.5±134.38	205.6±60.05	2214.0±493.80
SA15	539.6±310.12	92.5±40.23	72879.3±6455.18	241.6±56.19	274.4±137.09	293.9±89.62	625.0±173.91	23544.6±1240.69	2163.2±87.00	475.4±14.26	348.6±51.69	1969.7±308.23
SA16	698.2±478.77	83.3±43.43	85203.5±7624.41	340.9±80.57	305.9±116.16	301.6±134.81	677.1±163.29	27570.8±1514.47	594.7±178.30	1241.4±37.24	258.0±35.65	1575.4±290.81
SA/C1	651.8±270.90	81.4±25.31	69617.8±6080.77	476.9±359.46	214.3±63.76	287.4±157.76	713.7±287.90	25585.1±1473.28	1744.1±129.70	2514.1±75.42	319.0±30.00	1368.3±385.56
SA/C2	610.7±275.99	110.0±55.92	82128.3±7136.11	267.7±38.17	368.3±296.73	326.2±257.44	605.9±297.21	23894.3±1072.35	2381.0±114.88	1063.0±31.89	229.5±89.55	2188.9±482.86
SA/C3	869.1±495.99	81.0±34.00	66878.4±5773.74	848.2±842.54	256.4±118.27	368.0±171.51	746.5±240.87	20271.8±952.76	1666.0±222.96	1646.2±49.39	494.0±45.69	1905.3±111.77
SA/C4	644.9±314.84	93.1±43.03	63275.6±6074.87	347.0±160.38	301.1±168.03	342.9±171.92	709.0±259.77	16489.4±785.70	1022.9±70.84	413.8±12.41	245.5±35.19	1851.1±310.39

Note: All values in mg/kg of dry weight as mean±standard deviation; and SA1–SA/C4, *S. alba* with two replicates.

Table S2. *Cont.*

<i>S. viminalis</i>	Element											
<i>c) Leaves</i>	Aluminium (Al)	Boron (B)	Calcium (Ca)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Iron (Fe)	Magnesium (Mg)	Manganese (Mn)	Sodium (Na)	Nickel (Ni)	Zinc (Zn)
SV1	888.9±409.28	595.0±57.57	182407.3±17725.00	960.7±857.09	276.4±149.62	414.4±336.01	1833.6±431.47	106708.1±5790.44	1799.0±313.55	1567.7±47.03	425.2967±326.01	1593.7±1151.88
SV2	730.1±167.50	609.0±100.71	206096.1±20146.47	740.1±59.02	268.8±201.19	675.7±504.56	1642.1±332.04	98979.6±4433.37	3349.7±52.40	1552.4±46.57	221.5167±107.72	2081.582±777.57
SV3	1075.4±670.07	543.2±85.86	178441.8±17126.98	1514.3±319.06	239.0±129.78	573.6±407.55	1749.5±348.69	99037.0±4453.27	3738.5±121.72	1718.1±51.54	616.2104±706.96	2556.054±1023.40
SV4	954.3±486.70	602.5±93.83	192686.5±18166.02	1046.2±849.95	300.0±149.55	405.2±181.80	1659.1±238.40	95055.2±4946.20	3101.2±458.15	1665.0±49.95	277.2302±66.08	1548.823±850.08
SV5	939.3±395.10	444.3±98.47	174260.6±16144.90	254.0±150.94	278.9±112.57	386.1±230.65	1571.9±286.86	82258.5±4227.62	1466.7±92.60	2154.7±64.64	296.4001±293.56	974.8228±461.55
SV6	858.7±239.43	448.6±98.56	185598.6±17714.29	287.8±66.31	289.0±120.22	332.0±198.69	1959.6±297.06	90874.7±4165.08	1751.5±287.65	1674.3±50.23	216.5648±130.29	1360.073±1207.92
SV7	1066.3±750.59	652.6±87.44	180687.2±17017.70	388.2±98.53	290.6±117.85	643.1±506.89	1682.2±356.26	94512.3±4884.31	5358.8±319.28	2407.9±72.24	472.4579±629.85	1541.238±652.88
SV8	909.6±134.72	717.7±60.50	208411.0±20835.33	422.4±131.22	327.2±153.70	376.2±286.69	2186.2±350.73	102420.8±5311.74	5481.7±147.84	2266.7±68.00	752.6834±1297.47	1589.146±598.65
SV9	915.2±198.65	682.7±47.27	230405.4±22266.98	1212.4±918.55	281.7±126.27	474.0±377.51	2307.2±441.58	115548.1±5398.61	4273.4±267.86	1908.0±57.24	1197.239±1907.67	1658.443±782.90
SV10	973.2±201.45	607.1±81.21	197409.1±19089.49	924.8±116.69	272.7±101.56	487.9±334.24	2035.7±250.03	96400.8±5063.47	6547.0±131.52	2166.0±64.98	551.7473±853.34	2211.442±889.18
SV11	840.9±414.99	674.3±77.81	269069.7±25792.86	1169.1±604.17	229.7±118.07	417.8±195.39	2508.4±460.03	144048.6±7128.82	8756.4±266.00	2685.8±80.58	207.7071±147.36	3187.566±1043.15
SV12	996.3±216.11	559.1±68.81	205957.2±19930.13	985.6±636.92	312.9±195.25	433.1±251.19	1938.8±309.08	96336.8±4347.74	1876.4±402.98	2515.7±75.47	597.5088±669.62	1275.324±460.14
SV13	1066.5±335.63	686.7±57.41	236340.6±23135.36	1634.0±550.50	1074.4±94.96	394.8±206.051	3439.0±283.61	113057.0±5861.20	8141.6±183.33	3117.5±93.52	717.8036±1156.31	2091.974±684.10
SV14	956.3±165.16	733.8±40.81	271610.3±25505.30	758.6±812.07	323.1±144.24	518.6±229.83	2327.6±355.95	148510.5±7321.95	7555.3±294.73	2036.9±61.11	344.1969±237.64	2220.612±1275.08
SV15	996.8±551.74	645.3±92.16	233845.3±22065.41	395.5±150.58	278.7±106.55	317.2±200.36	2601.9±418.51	122275.4±5308.58	8374.0±223.35	2870.4±86.11	1101.441±2391.71	2097.214±1117.23
SV16	978.7±303.36	477.1±112.40	208362.3±20190.62	293.4±29.57	304.4±122.75	307.0±185.30	2015.2±468.75	107453.3±4916.15	6749.5±221.64	2088.7±62.66	392.703±520.21	1361.001±465.53
SV/C1	777.3±746.54	489.0±65.83	206241.6±19929.01	591.3±596.42	245.9±89.82	424.8±224.85	1868.6±257.90	105843.8±5527.46	7031.1±185.62	2300.0±69.00	616.2759±797.93	1720.073±1045.77
SV/C2	1284.6±554.79	577.7±41.93	231906.7±21569.92	543.9±528.78	257.7±112.40	353.7±191.57	1989.8±392.27	117418.0±5675.12	8199.5±304.60	1904.2±57.13	756.1612±1371.18	2018.204±1306.60
SV/C3	1099.1±448.83	777.7±91.76	244978.0±23712.08	271.9±166.73	239.9±85.10	547.6±316.16	2818.2±346.70	101465.9±4315.85	9784.1±423.94	2692.5±80.78	312.7323±310.45	3319.01±552.46
SV/C4	915.3±202.12	590.3±75.95	244822.0±23568.26	1053.7±1322.15	268.5±75.82	425.4±148.81	2325.0±255.42	119757.6±5441.71	8765.4±232.99	3161.4±94.84	967.2933±1753.34	2229.864±663.77
<i>d) Twigs</i>												
SV1	831.6±350.73	266.3±53.40	79302.0±6970.72	689.5±85.61	211.2±81.67	646.3±672.42	680.3±355.34	36600.3±2496.59	821.6±202.13	694.4±20.83	764.0±55.66	1879.4±1281.35
SV2	624.7±314.48	215.5±56.83	88175.3±8517.48	1054.4±412.17	286.6±128.98	551.9±786.44	628.6±371.04	37009.0±1916.98	1491.1±241.67	707.2±21.22	247.9±80.16	1157.4±306.08
SV3	766.3±468.45	176.7±68.75	85682.2±7638.32	1109.4±933.93	313.2±82.57	346.6±228.68	715.9±160.66	41657.2±2467.14	1007.2±129.29	808.8±24.27	443.9±558.11	1657.0±947.49
SV4	617.2±279.33	207.4±34.89	71587.0±6778.65	858.6±278.27	258.9±121.41	380.4±330.53	683.1±249.73	32373.8±1949.54	1609.2±136.04	657.6±19.73	1103.6±970.12	1190.5±499.88
SV5	595.4±441.93	181.8±74.93	86657.3±8343.29	1020.7±946.06	319.2±131.31	245.2±134.76	721.9±383.09	31953.2±1759.97	796.8±60.84	922.7±27.68	301.9±155.63	1125.8±974.52
SV6	715.0±324.12	160.5±88.00	71684.2±6894.44	363.4±180.90	329.8±192.43	335.6±253.31	758.6±323.62	31837.1±1638.67	767.7±260.83	950.5±28.51	253.3±64.25	1206.0±367.94
SV7	722.0±449.04	237.3±132.60	85680.9±8204.11	367.6±168.93	214.9±84.46	420.0±276.78	577.7±132.59	36116.1±2264.42	1192.3±214.31	786.4±23.60	203.5±118.13	1172.6±777.87
SV8	924.7±830.68	97.9±16.56	50019.9±4511.05	868.2±642.89	303.0±97.30	353.7±340.55	773.5±155.97	22430.1±1128.83	1492.4±304.08	439.6±13.19	495.4±608.25	1552.8±1270.86
SV9	847.6±676.14	160.0±45.31	73847.2±7012.21	542.9±290.64	313.7±144.18	329.6±320.65	696.6±232.07	38112.6±2740.34	1506.1±332.19	718.9±21.57	436.1±585.71	1816.6±1413.49
SV10	534.2±235.63	191.3±27.76	72340.2±6769.53	824.6±146.26	256.0±114.66	348.3±178.55	772.9±294.13	41876.0±2003.67	2674.5±142.49	666.1±19.98	844.1±337.48	2537.9±2567.90
SV11	690.9±418.52	133.2±63.89	72391.0±7181.07	997.9±401.98	262.8±119.35	327.5±111.17	689.3±556.58	39252.7±2379.66	2153.9±123.54	931.8±27.95	268.9±162.11	1340.5±963.74
SV12	607.9±468.09	135.7±19.72	59262.9±5673.70	538.0±78.98	218.5±70.87	488.8±363.85	632.3±196.35	24127.7±1444.29	653.3±155.17	628.9±18.87	245.0±81.50	764.8±270.86
SV13	498.2±333.78	90.9±20.49	64703.0±5949.49	772.3±1003.01	326.6±217.72	432.0±199.71	748.1±408.61	32276.7±1959.66	2217.5±259.52	823.7±24.7	167.1±139.97	1025.1±529.78
SV14	663.6±359.38	107.0±57.99	76959.7±6805.11	467.8±473.66	270.4±115.56	360.7±243.25	744.9±249.41	47309.8±2761.65	2441.3±104.13	730.6±21.92	589.3±662.45	1191.0±409.47
SV15	656.7±320.31	95.9±16.34	69951.9±6150.19	673.4±687.55	239.2±59.96	292.2±98.03	772.5±250.94	47898.0±2683.47	2236.2±278.04	480.1±14.40	185.7±87.90	1249.0±830.12
SV16	798.4±763.36	149.8±29.83	81911.6±8123.03	714.0±839.33	252.8±109.95	369.5±151.88	771.2±308.25	42625.2±2290.72	2567.0±69.30	529.2±15.88	328.3±165.07	1545.7±1151.02
SV/C1	577.5±349.44	120.1±14.36	86581.1±8153.00	275.5±42.41	255.1±48.58	322.1±231.53	755.4±184.94	42762.5±2687.78	2547.6±173.63	330.1±9.90	512.8±639.48	2239.0±1428.16
SV/C2	679.3±395.74	133.6±22.79	87198.7±8286.41	607.5±627.99	268.5±120.29	236.7±49.17	795.1±266.92	42625.0±2404.61	2720.1±183.30	966.0±28.98	424.7±532.56	1443.0±1091.28
SV/C3	701.9±469.23	108.3±21.34	86070.3±8439.08	276.6±40.45	226.8±109.52	658.3±580.95	766.0±363.04	40636.0±2248.58	2725.4±401.49	1089.8±32.69	288.5±257.32	1867.4±1519.19
SV/C4	702.9±355.39	117.9±41.73	75215.2±6614.88	276.3±50.60	322.7±163.55	419.3±271.74	695.5±424.14	39903.6±2320.13	2629.1±232.95	691.1±20.73	310.3±280.59	1101.0±347.52

Note: All values in mg/kg of dry weight as (mean±standard deviation); and SV1–SV/C4, *S. viminalis* with two replicates.