

Table 1. BENEFICIAL USE ASSESSMENT OF BIOSOLIDS AT HYPERION TREATMENT PLANT

Sampling Date	pH	%TS	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Molybdenum (Mo)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Zinc (Zn)
	mg/kg dry weight											
Dec-14	8.3	26.7	ND	11.1	40.4	794	21.6	22.8	1.56	39.3	5.58	996
Nov-14	8.3	28.0	ND	4.75	41.4	864	15.3	12.5	1.71	35.6	ND	1,060
Oct-14	8.6	27.1 ^	ND	8.12	47.6	893	26.8	24.4	1.44	35.4	3.76	1,050
Sep-14	8.1	33.2	ND	8.19	39.8	741	20.3	19.4	1.05	30.7	2.77	907
Aug-14	8.2	26.6	ND	9.32	55.3	868	25.0	22.4	1.62	33.3	3.46	1,110
Jul-14	8.4	27.3	1.06	10.3	44.0	802	18.5	27.0	1.72	37.0	ND	1,110
Jun-14	8.4	25.8	1.74	11.4	52.3	899	20.3	28.7	1.63	35.5	ND	1,310
May-14	8.5	27.4	ND	11.0	52.6	880	19.1	26.6	1.58	38.0	ND	1,380
Apr-14	8.2	28.6	ND	10.2	47.9	748	18.1	23.9	2.01	36.4	ND	1,230
Mar-14	8.4	29.2	ND	8.60	51.7	791	18.9	28.2	1.35	41.1	ND	1,360
Feb-14	8.5	28.1	ND	10.6	56.2	811	15.9	36.3	1.27	44.5	ND	1,410
Jan-14	8.2	28.7	ND	10.6	53.3	801	16.7	46.0	1.39	36.6	ND	1,330
Average	8.3	28.1	0.234	9.51	48.5	824	19.7	26.5	1.53	36.9	1.30	1,190
Maximum	8.6	33.2	1.74	11.4	56.2	899	26.8	46.0	2.01	44.5	5.58	1,410
Minimum	8.1	25.8	ND	4.75	39.8	741	15.3	12.5	1.05	30.7	ND	907
Ceiling Conc.*			75	85	***	4300	75	840	57	420	100	7500
Pollutant Conc.**			41	39	***	1500	***	300	17	420	100	2800

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- ^ The value represents the average of two %TS analysis performed for the month
- * Ceiling concentration in Table 1 of EPA Part 503 Sludge Regulation.
- ** Pollutant concentration in Table 3 of EPA Part 503 Sludge Regulation
- *** Limit was deleted according to Federal Register Vol. 60, No. 206 of Oct. 25, 1995

Table 2. HTP BIOSOLIDS - NUTRIENTS AND MISC. METALS - EVALUATION FOR LOADING PURPOSES

Sampling Date	%TS	Aluminum (Al)	Calcium (Ca)	Iron (Fe)	Potassium (K)	Magnesium (Mg)	Nitrate-N (NO3-N)	Phosphorus (Tot-P)	Sodium (Na)	Ammonia-N (NH3-N)	Organic-N (Org-N)
	mg/kg dry weight										
Dec-14	26.7	4,500	43,400	42,700	1,920	6,930	22.5	29,100	1,460	7,870	37,200
Nov-14	28.0	4,400	42,500	39,300	1,080	7,000	10.7	28,600	1,350	7,680	41,100
Oct-14	27.1 ^	4,300	40,600	44,600	1,310	7,120	18.5	31,800	1,340	8,410	39,900
Sep-14	33.2	3,700	34,600	37,300	1,340	5,930	6.02	23,000	1,170	6,900	32,200
Aug-14	26.6	4,500	37,600	49,600	1,710	6,390	22.6	28,100	1,560	7,260	46,600
Jul-14	27.3	4,000	36,100	45,100	1,320	5,860	14.7	28,200	1,220	8,530	48,400
Jun-14	25.8	4,400	41,500	45,000	1,450	6,670	11.6	25,600	1,500	8,640	40,300
May-14	27.4	5,100	42,300	43,800	1,750	6,820	7.30	25,200	1,530	8,250	39,400
Apr-14	28.6	4,600	36,700	42,300	1,170	5,700	17.5	26,700	1,070	8,040	45,100
Mar-14	29.2	5,000	40,400	40,800	1,490	6,230	27.4	25,300	1,170	7,120	42,500
Feb-14	28.1	4,800	40,900	42,700	1,280	6,410	17.8	26,300	1,210	8,330	36,300
Jan-14	28.7	4,500	40,400	38,000	1,620	6,410	20.9	27,200	1,190	9,480	34,300
Average	28.1	4,480	39,800	42,600	1,450	6,460	16.4	27,100	1,310	8,040	40,300
Maximum	33.2	5,100	43,400	49,600	1,920	7,120	27.4	31,800	1,560	9,480	48,400
Minimum	25.8	3,700	34,600	37,300	1,080	5,700	6.02	23,000	1,070	6,900	32,200

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Table 3. BENEFICIAL USE ASSESSMENT OF BIOSOLIDS AT TERMINAL ISLAND WATER RECLAMATION PLANT

Sampling Date	pH	%TS	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Molybdenum (Mo)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Zinc (Zn)
	mg/kg dry weight											
Dec-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nov-14	7.6	1.8	ND	ND	20.7	197	25.1	7.82	2.06	22.3	27.4	855
Oct-14	7.6	1.8 ^	ND	3.80	ND	198	28.3	12.5	1.00	ND	42.4	837
Sep-14	7.6	1.5	ND	4.05	ND	255	33.1	14.2	0.932	ND	46.6	885
Aug-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Jul-14	7.6	1.6	ND	3.16	ND	178	22.8	12.7	1.15	ND	44.3	753
Jun-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
May-14	7.6	1.5	ND	4.64	ND	178	23.2	15.9	0.881	ND	51.7	815
Apr-14	7.5	1.5	ND	4.08	ND	120	17.0	ND	0.891	ND	33.3	769
Mar-14	7.2	1.5	ND	3.92	ND	156	21.6	ND	0.660	ND	40.5	706
Feb-14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Jan-14	7.6	1.6	ND	4.49	ND	147	19.9	ND	0.840	ND	37.2	769
Average	7.5	1.6	ND	3.52	2.59	179	23.9	7.88	1.05	2.79	40.4	799
Maximum	7.6	1.8	ND	4.64	20.7	255	33.1	15.9	2.06	22.3	51.7	885
Minimum	7.2	1.5	ND	ND	ND	120	17.0	ND	0.660	ND	27.4	706
Ceiling Conc.*			75	85	***	4300	75	840	57	420	100	7500
Pollutant Conc.**			41	39	***	1500	***	300	17	420	100	2800

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- ** Pollutant concentration in Table 3 of EPA Part 503 Sludge Regulation
- *** Limit was deleted according to Federal Register Vol. 60, No. 206 of Oct. 25, 1995

NS - No Sampling Required
 ND - Not Detected