

Table 2: Delhi Township WWTP Sludge Data

	4/1/2010 (mg/kg)	4/1/2010 (mg/kg)	7/22/2010 (mg/kg)	7/22/2010 (mg/kg)	12/7/2010 (mg/kg)	2/24/2011 (mg/kg)	Average (mg/kg)	"As Fired" at 80 % solids (mg/kg)
Calcium	37,000	46,929	41,000	50,529	46,000	42,000	43,910	35,128
Magnesium	3,600	4,925	4,800	11,228	4,900	4,200	5,608	4,486
Sodium	1,900	2,528	2,800	3,197	2,900	2,700	2,671	2,137
Potassium	1,500	1,528	1,800	1,870	1,800	1,700	1,700	1,360
Silver	16	<18.6	18	24.9	19	14	15.3	12
Arsenic	9.5	10.2	9	11.3	10	9.5	9.9	7.9
Barium	710	809	710	773	800	740	757	606
Cadmium	1.3	<3.4	3.2	1.6	3.9	<2.0	1.7	1.4
Chromium	67	80	55	67	76	67	69	55
Copper	440	505	430	482	520	480	476	381
Mercury	1	<11.0	1.3	<3.5	2.1	2.2	1.1	0.9
Molybdenum	26	28	23	25	29	28	26.5	21
Nickel	16	17.5	14	15.7	19	16	16.4	13
Lead	12	<16.0	12	14.5	14	<51	8.8	7
Selenium	6.7	<10.4	5.9	7.6	6.8	8	5.8	4.6
Zinc	910	958	720	967	980	950	914	731

Note: Average concentration calculations used zero for the less than detection limit values.

Table 3: USGS COALQUAL Database (Received from Carol Luukkonen of USGS, for 7422 Samples) Compared to Delhi Township Sludge Data

	USGS COALQUAL L (mg/kg)	Delhi Twp POTW Sludge "as fired" (mg/kg)	USGS COALQUAL L (mg/kg)
Parameter	Minimum	Average	Maximum
Calcium	0	35,128	71,000
Magnesium	0	4,486	15,000
Sodium	0	2,137	13,000
Potassium	0	1,360	14,000
Silver	0	12	11
Arsenic	0	7.9	2,200
Barium	0	606	22,000
Cadmium	0	1.4	160
Chromium	0	55	200
Copper	0	381	280
Mercury	0	0.9	2.9
Molybdenum	0	21	280
Nickel	0	13	280
Lead	0	7	1,900
Selenium	0	4.6	150
Zinc	0	731	51,000

**Table 4: United States Open File Report 2006-1162, USGS
(Joseph R. Hatch, John H. Bullock and Robert B.
Finkelman, for over 700 coal samples) Compared to
Delhi Township Sludge Data**

Parameter	Open File Report USGS Coal	Delhi Twp POTW Sludge	Open File Report USGS Coal
	Minimum	Average	Maximum
Calcium	125	35,128	255,000
Magnesium	28.1	4,486	11,122
Sodium	13.8	2,137	18,482
Potassium	17.5	1,360	27,817
Silver	0	12	4.71
Arsenic	0.14	7.9	1,444
Barium	3.02	606	1,624
Cadmium	0	1.4	83
Chromium	0.44	55	467
Copper	0.66	381	383
Mercury	0	0.9	4.9
Molybdenum	0.09	21	472
Nickel	0.38	13	312
Lead	0.11	7	448
Selenium	0	4.6	241
Zinc	0	731	2,980