

Table 1: Select FBR Biosolids Sample Results Compared to Soil Remediation Goals (SRGs) ¹					
Constituents ²	Sludge Release Sample	2nd Quarter 2013	1st Quarter 2013	4th Quarter 2012	SRGs
	(3/22/2013)	(04/15/2013)	(01/07/2013)	(10/01/2012)	
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
VOCs					
2-Butanone	7.1	NA	NA	NA	34,092
2-Hexanone	0.045	NA	NA	NA	1,930
4-Methyl-2-pentanone	0.074	NA	NA	NA	17,196
Acetone	24	NA	NA	NA	100,000
Carbon disulfide	2	NA	NA	NA	721
Ethylbenzene	0.038	NA	NA	NA	19.6
Tetrachloroethene	0.027	NA	NA	NA	3.28
Toluene	0.033	NA	NA	NA	521
Trichloroethene	8.8J	NA	NA	NA	5.49
1,2,3-Trichloropropane	ND**	NA	NA	NA	0.106
Naphthalene	ND<0.005	NA	NA	NA	15.6
m/p xylenes	0.15	NA	NA	NA	214
o-xylene	0.043	NA	NA	NA	282
Total xylenes	0.19	NA	NA	NA	214
SVOCS					
4-methylphenol*	15	NA	NA	NA	3,420
PAHs					
Benzo(b)fluoranthene	0.31	NA	NA	NA	2.34
Anthracene	0.16	NA	NA	NA	9,060
Benzo(a)anthracene	0.073	NA	NA	NA	2,344
Benzo(a)pyrene	0.27	NA	NA	NA	0.234
Benzo(g,h,i)perylene	1.20	NA	NA	NA	34,100
Benzo(k)fluoranthene	0.23	NA	NA	NA	23
Chrysene	0.056J	NA	NA	NA	234
Dibenz(a,h)anthracene	0.41	NA	NA	NA	0.234
Fluoranthene	0.08	NA	NA	NA	24,400
Indeno(1,2,3,c,d)pyrene	0.61	NA	NA	NA	2
Phenathrene	0.07	NA	NA	NA	25
Pyrene	0.10	NA	NA	NA	19,300
Dioxins/Furans					
TCDD TEQ ³	0.0000014	NA	NA	NA	0.0027 ^a
Pesticides					
Alpha-BHC	0.23	ND<0.074	0.17	0.29	270
Beta-BHC	0.25	ND<0.074	0.31	0.49	54
Delta-BHC	0.13	ND<0.074	0.38	0.18	270
Gamma-Chlordane	0.11	ND<0.074	0.013	0.028	No BCL
Endosulfan I	ND<0.086	75 J	ND<0.0045	ND<0.0045	4,104
Metals					
Arsenic	320	160	560	440	7.2 ^a
Barium	32.2	NA	NA	NA	100,000
Chromium	350	180	790	600	100,000
Cobalt	76.3	NA	NA	NA	337
Copper	200	120	250	220	42,200
Lead	0.450J	ND<1.2	ND<1.5	ND<1.5	800 ^a
Magnesium	1,880	NA	NA	NA	100,000
Manganese	56.1	NA	NA	NA	24,900
Molybdenum	920	590	1,800	1,900	5,680
Nickel	35	16	53	47	21,800
Selenium	86	44	110	89	5,680
Zinc	300	170	600	420	100,000
Other					
Ammonia by N	4,300	NA	NA	NA	100,000
Chloride	5,300	NA	NA	NA	No BCL
Fluoride	30	NA	NA	NA	41,000
Nitrate as N	2.5J	NA	NA	NA	100,000
Sulfate	11,000	NA	NA	NA	No BCL

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	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg

Notes:

The sludge spill sample was also analyzed for PCBs, hexavalent chromium, mercury, cyanide, perchlorate, and sulfide. All results were ND. Only detected results for VOCs, SVOCs, PAHs, dioxins/furans, and OCPs are provided (non-detects not shown).

NA = Not analyzed

ND = Not detected

J = The analyte was either detected at or greater than the SQL and less than the MRL, or did not meet any of the required QC criteria.

¹ SRGs consist of NDEP worker BCLs, or modified site-specific remediation goals.

² Detected in at least one sample. Results in bold exceed the SRGs.

³ TEQ = Toxicity Equivalent Quantity, based on WHO 2005 TEFs for the 17 dioxin and furan congeners.

^a Indicates a site-specific value.

* Cannot be separated from 3-methylphenol

**Laboratory reported that the VOC 1,2,3-trichloropropane was not detected, although the result was semi-quantitative.