



Analysis Report for Use of Biosolids on Cropland

Jason Brown University Area Joint Auth 1576 Spring Valley Rd State College PA 16801	Lab Sample ID: E18767 Date Received: 2/12/2018 Date Sampled: 2/12/2018 Report Date: 3/2/2018 Sample type: Grab County: Centre Customer Sample ID: Compost
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 23 C	— % —					% (dry weight basis)						
7.8	74.22	78.70	2.89	2.49	0.40	1.36	0.40	0.58	2.95	0.05	0.39	1.96
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive ¹ CN
						mg/kg (dry weight basis)						
183.6	2.53	< 0.74	8.4	195.0	8.5	0.36	4.4	8.4	< 3.71	236.3	< .01	< 1.3

NR-Not Requested One dry ton of this material is equivalent to 323 gallons of wet material or 1.3 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	2.89	1.73 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	3.12	3.67 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.48	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni, Zn	3050B + 6010	Green	02/16/2018	9:00:38
As	3050B + 6010	Green	02/16/2018	9:00:38
Se	3050B + 6010	Green	02/16/2018	9:00:38
Hg	7473	Green	2/14/2018	12:34:03 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	0.454	0.454	0.454	0.225	0.454	0.454	0.454	0.454	0.454
Analyte conc. in sample/ digest (mg/L except Hg)	0.017	0.003	1.31	0.061 ug	0.03	0.06	0.06	0.01	1.59
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other: Ba = 103.39 mg/kg	Hand-delivered after sampling
40.76	38.5		1.57		



Analysis Report for Use of Biosolids on Cropland

Jason Brown University Area Joint Auth 1576 Spring Valley Rd State College PA 16801	Lab Sample ID: E18880 Date Received: 4/2/2018 Date Sampled: 4/2/2018 Report Date: 4/13/2018 Sample type: Grab County: Centre Customer Sample ID: Compost
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RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.8 C	— % —					% (dry weight basis)						
7.7	70.83	79.62	2.44	2.04	0.40	1.17	0.42	0.33	4.89	0.05	0.35	1.53
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive ¹ CN
mg/kg (dry weight basis)												
186.1	< 2.18	< 0.73	8.1	169.0	8.4	0.26	3.7	7.3	< 3.64	200.8	< .01	< 1.4

NR-Not Requested One dry ton of this material is equivalent to 339 gallons of wet material or 1.4 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)	
Total N	2.44 2.05 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	2.69 4.26 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.51

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni, Zn	3050B + 6010	Green	04/12/2018	8:50:55
As	3050B + 6010	Green	04/12/2018	8:50:55
Se	3050B + 6010	Green	04/12/2018	8:50:55
Hg	7473	Green	4/4/2018	12:24:58 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	0.485	0.485	0.485	0.404	0.485	0.485	0.485	0.485	0.485
Analyte conc. in sample/digest (mg/L except Hg)	0.013	0.002	1.16	0.076 ug	0.03	0.05	0.06	0.01	1.38
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis						Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ba = 92.04 mg/kg	Hand-delivered after sampling
25.36	42.3		1.91			