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Lab #	2816893	Report	of Analys	sis	Report Num	ber: 18-169-4105
	Account:	CHRIS SKELTON	PG		_	
	41274	A1 ORGANICS			1 t	0_
		16350 WCR 76			1 Kom	700
		EATON CO 80615	5		Rob	ert Ferris
					Accou	nt Manager
Da	ate Sampled:	2018-06-12			402-	829-9871
Da	te Received:	2018-06-13			COMPOST AN	ALYSIS
	Sample ID:	P3 CONTRACTOR	२			
						Total content,
				Analysis	Analysis	lbs per ton
				(as rec'd)	(dry weight)	(as rec'd)
NUTR	IENTS					
	Nitrogen					
	Total Nitroge		%	0.76	1.11	15.2
	Organic Nitro		%	0.73	1.06	14.5
	Ammonium N	litrogen	%	0.005	0.007	0.1
	Nitrate Nitrog	en	%	0.03	0.04	0.6
	Major and Secor	idary Nutrients				
	Phosphorus		%	0.36	0.52	7.2
Phosphorus as P2O5			%	0.82	1.19	16.4
Potassium			%	1.33	1.94	26.6
	Potassium as	s K2O	%	1.60	2.33	32.0
	Sulfur		%	0.27	0.39	5.4
	Calcium		%	1.66	2.42	33.2
	Magnesium		%	0.59	0.86	11.8
	Sodium		%	0.260	0.378	5.2
	Micronutrients			140	017	0.2
	Zinc		ppm	149	217	0.3
	Iron		ppm	8790	12795	17.6 0.6
	Manganese		ppm	280	408	0.0
	Copper		ppm	46.5 < 100	68	
	Boron		ppm	< 100		
	Moisture		%	31.30		
	Total Solids		%	68.70		1374.0
	Organic N	latter	%	16.60	24.16	332.0
	Ash		%	51.90	75.55	1038.0
	C:N Ratio			11:1		
	Total Carbon		%	8.20	11.94	
	Chloride		%	0.25	0.36	
	pH			8.7		
		1:5 (Soluble Salts)	mS/cm	5.4		
L		(				

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Compost Results Interpretations Page 1

Report #: DATE RECEIVED: 18-169-4105 2018-06-13

Organic Matter %	
16.60 As Receive	d Greater than 20% indicates a desirable range for compost on a dry weight basis.
24.16 Dry Weight	
	Compost is a significant source of Organic Matter, which is an important supplier of carbon. Organic Matter soil and plant efficiency by improving soil physical properties, providing a source of energy to beneficial s, and enhancing the reservoir of soil nutrients.

C/N Ratio 10.8:1

20-30 indicates an ideal range for the initial compost process. 10-20 indicates an ideal range for a finished compost.

All organic matter is made up of substantial amounts of carbon with lesser amounts of nitrogen. The balance of these two elements is called the Carbon/Nitrogen Ratio. For the best performance, the compost pile requires the correct proportion of carbon for energy and nitrogen for protein production. If the C:N ratio is too high (excess carbon) decomposition slows down. If the C:N ratio is too low (excess Nitrogen) the compost pile could be difficult to manage.

Moisture %	
31.30	<35% = Indicates overly dry compost
51.50	so to - indicates overly dry composit
	>55% = Indicates overly wet compost
Moisture P	Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture
	fects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A
	moisture content of finished compost will range between 40 to 50%.
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Compost Results Interpretations	Report #:	18-169-4105
Page 2	DATE RECEIVED:	2018-06-13

Conductivity or Soluble Salts measures the conductance of electrical current in a liquid compost slurry. Excessive soluble salt content in a compost can prevent or delay seed germination and proper root growth. Conductivity analysis is done on a 1:5 basis.

Conductivity 1:5 5.4	
Conductivity Level	Interpretation
Greater than 10	Very High nutrient content. Use for Ag Applications
5 - 10	High nutrient content. Use for Ag Applications
3 - 5	Higher than desirable for salt sensitive plants, some loss of vigor
0.6 - 3	Desirable range for most plants
0.3 - 0.6	Ideal range for greenhouse growth media
0.0 - 0.3	Very Low: Indicates very low nutrient status: plants may show deficiencies.

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Compost Results Interpretations Page 3	Report #: DATE RECEIVED:	18-169-4105 2018-06-13
pH Value		
8.7 0 to 14 scale with 6 to 8 as n	ormal pH levels for compost	
A pH in the 6 to 8 pH	range indicates a more mature compost	
pH measures the acidity or alkalinity of the compost, and is a measurement of the	ne hydrogen ion activity of a soil or compost on a	
logarithmic scale. The pH scale ranges from 0 to 14 and 7 indica	tes a neutral pH. Growing media with a higher pH	or pH
greater than 7 can benefit from a compost that has a more acidic	pH or pH below 7. This type of application will po	ssibly
lower the soil pH making the soil more conducive to plants that the	rive in a more acidic soil condition.	

Nutrient Index 6.2	(0)			The Nutrie	nt Index nor	mally runs l	petween 1 a	and 10.						
The Nutrient I		-	0					dium and C	hloride). Tl	he higher tl	ne Nutrient			
					AG	GINDEX CHA	RT							
	salt iniury	dex is obtained by dividing the total nutrients (N,P,K) by the amount of salt (Sodium and Chloride). The higher the Nutrient ndex the less chance of having a toxic buildup of Sodium (salt) in the soil.   AG INDEX CHART   salt use on soils with excellent drainage characteristics, good water quality and low salts you may use on soils with poor drainage, poor water quality, or high salts for all soils   1 2 3 4 5 6 7 8 9 10 > 10												
		3-	-											

Nutrients (N+	+P205+K20)
4.63 1-1-1.5	Average Nutrient Content Dry Weight<2 = Low, >5 = HighRating As Received
	The most commonly used compost data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present and the information is similar to that found in common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has 1% Nitrogen, 2% Phosphate and 2% Potash. Most compost tests will have a average nutrient level (N+P+K) of < 5%.

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		281689 Samples:	3 <b>3-893</b>												<b></b>	F	<u>}</u>	5	5/5			
	A1 Organics 18360 WCR 76, Eaton, CO 80815 PH: (970) 454-3492 FX: (970) 454-3232	Samples Samples Samples Samples Samples Samples Samples	1/1		- Chi	ain-of	-Cusi	tody								ork Der#						
organics			SAMPLER	Chris Skelton, I	P.G.				D	ATE						PAGE		1	of		1	
PROJECT NAME	A-1 Organics Eaton		SITE ID						TURNARO	UND		stan	dard		DIS	POSAL	By L	ab o	r <del>Re</del>	turn to	o Client	
PROJECT No.	· · · · · · · · · · · · · · · · · · ·		EDD FORMAT																			
······································		PURC	HASE ORDER																			
COMPANY NAME	A1 Organics	BILL	TO COMPANY	A1 Organics																		
SEND REPORT TO	Chris Skelton, P.G.	INV	OICE ATTN TO	Chris Skelto	n, P.G.														ľ			
ADDRESS	16350 WCR 76		ADDRESS	16350 WCR	76				1													
CITY / STATE / ZIP	Eaton, CO 80615	CIT	Y / STATE / ZIP	Eaton, CO 8	0615				. <u></u>							ļ						
PHONE	970 454-3492		PHONE	970 454-3492					Analysis								i					
FAX	970 454-3232		FAX	970 454-3232	-3232																	
E-MAIL	chrisskelton@a1organics.com		E-MAIL	chrisskelton@	hrisskelton@a1organics.com																	
Lab ID	Sample ID		Matrix	Sample . Date	Sample Time	# Bags	Pres.	QC	Compost Nutrient							5						
	P3 Contractor		compost	6/12/2018	14:50	1	No		x		- 28	316	89	2								
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*Time Zone (Circle):	EST CST MST PST Matrix: O = oil S = s	oil NS≂non-soll solid W∝v	l water L≃liquid	E = extract F = 1	l filter	<u> </u>			<u> </u>			1	1									
	ions, please detail analytes below.				-				1	SIG	NATURE	17	Λ		PRINTE	ed nami	Ę		DAT	E	TIME	
Comments:			QC PAC	KAGE (check belo	v)	R	LINQUIS	HED BY	M	7	Ø	Į (	<u>)</u>	Chris S	kelton, P.C	Э.			6/12/20	018	16:00	
				LEVEL II (Standar	1 QC)		RECEI	VED BY	1													
Call Chris Skeltor	n (559) 304-6076 if you have questions			LEVEL III (Std QC	+ forms)	R	LINQUIS	HED BY	r													
Cooler #				LEVEL IV (Std QC raw data)	+ forms +		REGE	VED BY	1													
						RI	LINQUIS	HED BY	r													
Preservative Key:	1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHS	O4 7-Other 8-4 degrees C	9-5035			······································	RECE	VED BY	7													

21.05kg