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Lab #	70475175	Repor	t of Analys	sis	Report Num	ber: 24-165-4131	
	Account:	KARLA WELDIN	G				
	9027	LINCOLN SOLID	WASTE OP	ERATIONS	14	P	
		5101 N 48TH ST			Kat 700		
		LINCOLN NE 685	504		Rob	ert Ferris	
					Accour	nt Manager	
D	ate Sampled:	2024-05-30			402-	829-9871	
D	ate Received:	2024-05-31			STA COMPOS	Г	
	Sample ID:	BLUFF COMPOS	STING SUMM	IER 2023			
						Total content,	
				Analysis	Analysis	lbs per ton	
<u> </u>				(as rec'd)	(dry weight)	(as rec'd)	
NUTF	RIENTS						
	Nitrogen						
	Total Nitroge	n	%	1.37	2.69	27.4	
	Organic Nitro	ogen	%	1.35	2.65	27.0	
	Ammonium N	Nitrogen	%	0.001	0.002		
	Nitrate Nitrog	jen	%	0.02	0.04	0.4	
	Major and Secor	ndary Nutrients					
	Phosphorus		%	0.23	0.45	4.6	
	Phosphorus	as P2O5	%	0.53	1.04	10.6	
	Potassium		%	1.10	2.16	22.0	
	Potassium as	s K2O	%	1.32	2.59	26.4	
	Sulfur		%	0.17	0.33	3.4	
	Calcium		%	2.17	4.26	43.4	
	Magnesium		%	0.31	0.61	6.2	
	Sodium		%	0.060	0.118	1.2	
	Micronutrients						
	Iron		ppm	3360	6592	6.7	
	Manganese		ppm	206	404	0.4	
	Boron		ppm	< 100			
			0/	40.00			
	Moisture		%	49.03		4040.4	
	Total Solids	letter.	%	50.97	50.40	1019.4	
	Organic N	latter	% 0/	26.60	52.19	532.0	
	Asn Tatal Oard		%	23.40	45.91	468.0	
	Total Carbon		%	14.60	28.64		
	Chioride		%	0.12	0.24		
	pH			8.0			
	Conductivity	1:5 (Soluble Salts)	mS/cm	6.16			



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Lab #	70475175	Bio	logical & P	hysical Pro	operties	Report Number: 24-165-413			
	Account:	KARLA	WELDING				\sim \sim $^{-}$		
	9027	LINCO	LN SOLID W	ASTE OPE	RATIONS	1/11	Fos		
		5101 N	48TH ST			1000	/ -		
		LINCO	LN NE 6850	4		Ro	bert Ferris		
						Client Serv	ice Representative		
D	ate Sampled:	2024-0	5-30			402	2-829-9871		
Da	ate Received:	2024-0	5-31			STA COMPOS	ST		
	Sample ID:	BLUFF	COMPOST	NG SUMME	R 2023				
			Analysis	Analysis					
			(as rec'd)	(dry weight)	Units	Detection Limit	Method		
Biolog	gical Properties								
	Germination		100		%	1	TMECC 05.05A		
	Germination Vig	or	100		%	1	TMECC 05.05A		
	CO ₂ OM Evolution	on	0.28		mgCO ₂ -C/gO	M/day 0.01	TMECC 05.08B		
	CO2 Solids Evolu	ution	0.42		mgCO ₂ -C/gT	S/day 0.01	TMECC 05.08B		
	Fecal Coliform			338	mpn/g	0.2	EPA 1681		
	Salmonella			< 1.2	mpn/4g	1.2	TMECC 07.02		
	Stability Rating		Stable		N/A	N/A	TMECC 05.08B		
Physi	cal Properties		4000						
	Bulk Density (Lo	ose)	1062		lbs/cu yard	1	WT/VOL		
	Bulk Density (Pa	acked)	1415		lbs/cu yard	1	WI/VOL		
	Film Plastics		n.d.		%	0.1	TMECC 03.08		
	Glass Fragment	S	n.d.		%	0.1	TMECC 03.08		
	Hard Plastics		n.d.		%	0.1	TMECC 03.08		
	Metal Fragment		n.d.		%	0.1	TMECC 03.08		
	Sharps		absent	4.0		0.1	TMECC 03.08		
	Max. Particle Le	ngth		1.0	inches	N/A	TMECC Sieve		
	Sieve % Passing	g 3"		100	%	0.01	TMECC Sieve		
	Sieve % Passing	g 2"		100	%	0.01	TMECC Sieve		
	Sieve % Passing	g 1.5"		100	%	0.01	TMECC Sieve		
	Sieve % Passing	g 1"		100	%	0.01	TMECC Sieve		
	Sieve % Passing	g 3/4"		100	%	0.01	TMECC Sieve		
	Sieve % Passing	g 5/8"		96	%	0.01	TMECC Sieve		
	Sieve % Passing	g 3/8"		86	%	0.01	TMECC Sieve		
	Sieve % Passing	g 1/4"		75	%	0.01	TMECC Sieve		

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Compost Results Interpretation	S	Report #:	24-165-4131	
Page 1		DATE RECEIVED:	2024-05-31	
				1
Organic Matter %				
26.60 As Received	Greater than 20% indic	cates a desirable range for composition	st on a dry weight basis	3.
52.19 Dry Weight				
Compost is a	significant source of Organic Ma	tter which is an important supplier	of carbon Organic M	attor
improves soil and plant	efficiency by improving soil physi	cal properties, providing a source	of energy to beneficial	allei
organisms, and enhand	ing the reservoir of soil nutrients		5,	

C/N	Ratio	
	10.7:1	

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 %	
49.03	<35% = Indicates overly dry compost
	>55% = Indicates overly wet compost
	Moisture Percent is the measure of water present in the compost and expressed as a percentage of total weight. Moisture present affects handling and transport. Overly dry will be light and dusty while overly wet will be heavy and clumpy. A desirable moisture content of finished compost will range between 40 to 50%.

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Compost Results Interpretations	Report #:	24-165-4131
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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		
6.2		
Conductivity Le	vel	Interpretation
Greater than 10	0	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 #:24-16:DATE RECEIVED:2024-	5-4131 ·05-31						
pH Value								
8.0 0 to 14 scale with 6	to 8 as normal 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 measu	rement of the hydrogen ion activity of a soil or compost on a							
logarithmic scale. The pH scale ranges from 0 to 14 a	and 7 indicates 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 possibly							
lower the soil pH making the soil more conducive to p	lower the soil pH making the soil more conducive to plants that thrive in a more acidic soil condition.							

Nutrient Index	k (Ag Index)										
>1	0			The Nutrie	ent Index nori	ormally runs between 1 and 10.					
The Nutrient	Index is obta	ained by div	iding the to	otal nutrient	s (N,P,K) by t	the amour	t of salt (So	odium and C	Chloride). T	he higher t	he Nutrient
	Index 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, injury good water quality and low salts possible			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

Nutrients (N+	P205+K20)	
6.32	Average Nutrient Content Dry Weight	<2 = Low, >5 = High
1.5-0.5-1.5	Rating As Received	
	The most commonly used compos and the information is similar to that found in 1% Nitrogen, 2% Phosphate and 2% Potash.	t data is the amount of Nitrogen, Phosphate, and Potash (abbreviated as N,P,K) present common fertilizers. If a compost result has the rating 1-2-2 it means that the compost has . Most compost tests will have a average nutrient level (N+P+K) of < 5%.

REPORT NUMBER

RECEIVED DATE May 31, 2024

24-165-4131 REPORT DATE **Jun 13, 2024**

SEND TO **9027**





LINCOLN SOLID WASTE OPERATIONS KARLA WELDING 5101 N 48TH ST LINCOLN NE 68504

REPORT OF ANALYSIS For: (9027) LINCOLN SOLID WASTE OPERATIONS STA COMPOST

Level Found Reporting Verified-Analyst-Limit Analysis Dry Weight Units Method Date Date As Received Sample ID: BLUFF COMPOSTING SUMMER 2023 Lab Number: 70475175 Date Sampled: 2024-05-30 1410 0.52 Cadmium (total) 1.01 0.50 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 Chromium (total) 6.17 12.1 1.00 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 Mercury (total) n.d. n.d. 0.05 EPA 7471 mg/kg Mab7-2024/06/07 kkh9-2024/06/08 Lead (total) 11.6 22.8 EPA 6010D mg/kg 5.0 trh1-2024/06/04 kkh9-2024/06/08 Molybdenum (total) 1.0 2.0 1.0 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 Nickel (total) 5.2 10.1 1.0 EPA 6010D kkh9-2024/06/08 mg/kg trh1-2024/06/04 Selenium (total) n.d. n.d. 10.0 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 85.4 Zinc (total) 167.6 2.0 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 Copper (total) 21.7 42.6 1 EPA 6010D mg/kg trh1-2024/06/04 kkh9-2024/06/08 Arsenic (total) 3.00 5.89 0.5 EPA 6020 mg/kg nto7-2024/06/05 kkh9-2024/06/08 Cobalt (total) 1.69 3.31 1.00 mg/kg EPA 6010D trh1-2024/06/04 kkh9-2024/06/08

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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REPORT NUMBER

May 31, 2024







LINCOLN SOLID WASTE OPERATIONS **KARLA WELDING** 5101 N 48TH ST **LINCOLN NE 68504**

REPORT OF ANALYSIS For: (9027) LINCOLN SOLID WASTE OPERATIONS STA COMPOST

	Level Found			Reporting		Analyst-	
Analysis	As Received	Dry Weight	Units	Limit	Method	Date	Date

n.d. = not detected, ppm = parts per million, ppm = mg/kg, ppm = mg/L

For questions please contact:

Rob Ferris Account Manager rferris@midwestlabs.com (402)829-9871

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