Napa Green

April 29, 2022

Compost

Temperatures log, notes, analysis

OPUS ONE

MEMORANDUM

DATE: 2022

TO: File

FROM: Nathalie Buckland

SUBJECT: 2022 Composting

On February 2nd 2022, we mixed all the compost from 2021 with biochar generated after burning the vines from X1W redevelopment.
The mix was 80% compost and 20% biochar. Biochar has been previously rototilled to make smaller pieces.
It was applied in W-George-CS about 3-4 tons/acre.

February 2022: We started chipping material coming from K blocks. A total of 15 loads (1 load = 10 cubic yards) were brought to the compost site by K-West-CS.
All loads brought to the site are inspected for hazardous materials and foreign objects. All loads are free of contaminants.

March 21, 2022: Andy Poncia brought 150 yards of manure already mixed with organic straw bales to make a new pile with the brush material from 2022. He brought a total of 6 trucks. This is the maximum we can handle due to the space for compost storage by K-West.
The load was checked for foreign materials upon arrival to the compost site, the load was free of contaminants. The manure looked and smelled great and had plenty of moisture.
We had a compost training with Hector about safely handling the compost and emergency precautions and procedures. Hector mainly helped to add water to the mix manure / brush material.
There were a total of **30 blends (10 cubic yards/blend).** With a total of 150 cubic yards of cow manure, 150 cubic yards of brush, we used an estimated 50 % vine brunch, 50 % manure, 90 straws bales **(3/blend).**
We will start monitoring the temperature on a weekly basis.

On March 29th, the piles were covered with straw.

A & L WESTERN AGRICULTURAL LABORATORIES

1311 WOODLAND AVE #1 • MODESTO, CALIFORNIA 95351 • (209) 529-4080 • FAX (209) 529-4736

NUMBER: 22-034-032 **CLIENT NO:** 5010-D

SEND TO: OPUS ONE
PO BOX 6
OAKVILLE, CA 94562

SUBMITTED BY: NATHALIE JURE

CUSTOMER: OPUS ONE

24840 **DATE:** 02/08/2022

ORGANIC FERTILIZER REPORT

REPORT OF ANALYSIS IN PERCENT													
Nitrogen N	Phosphorus P	Phosphate P_2O_5	Potassium K	Potash K_2O	Sulfur S	Magnesium Mg	Calcium Ca	Sodium Na	Iron Fe	Aluminum Al	Manganese Mn	Copper Cu	Zinc Zn
1.20	0.40	0.92	1.350	1.626	0.230	1.170	1.750	0.170	25800	14940	611	43	178

POUNDS OF NUTRIENTS / TON													
Nitrogen N	Phosphorus P	Phosphate P_2O_5	Potassium K	Potash K_2O	Sulfur S	Magnesium Mg	Calcium Ca	Sodium Na	Iron Fe	Aluminum Al	Manganese Mn	Copper Cu	Zinc Zn
24.0	8.0	18.3	27.0	32.5	4.6	23.4	35.0	3.4	51.6	29.9	1.2	< 0.1	0.4

an as-received basis **Moisture =**

a dry basis **Moisture =** 29.21%

To convert to pounds of nutrients/ton as received, multiply pounds of nutrients/ton as reported by (100 - moisture %)/100.

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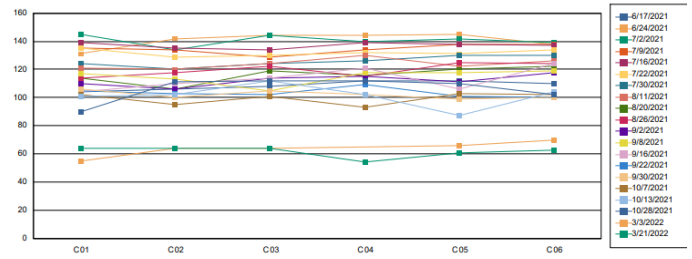
This report applies only to the sample retained a maximum of thirty days aft

Edward Verb
A & L WESTERN LABORA

Opus One Winery **Comp**

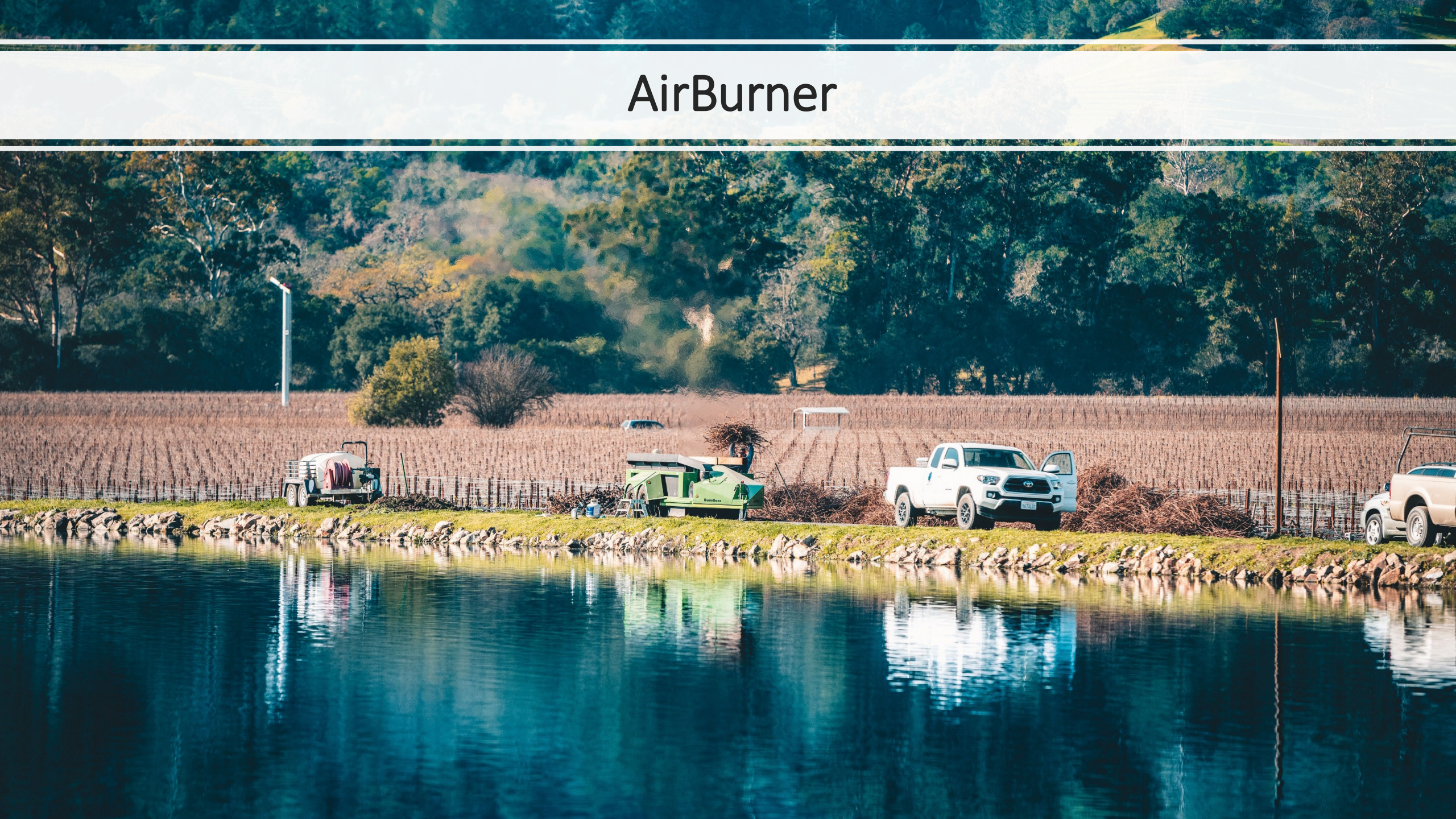
Compost Temperature Log (°F)

C01	C02	C03	C04	C05	C06	Average	Smell	Comments
104	106	108	112	112	110	108.7	No	
131	142	144	144	145	138	140.7	No	
145	134	144	140	142	139	140.7	Yes	
135	134	129	134	138	138	134.7	No	
139	135	134	139	138	137	137.0	No	
135	129	130	132	131	134	131.8	No	
124	120	124	126	130	130	125.7	No	
121	120	124	130	122	126	123.8	No	
114	106	119	116	120	122	116.2	No	
114	118	122	115	125	124	119.7	No	
110	106	114	115	111	118	112.3	No	
117	113	105	118	118	119	115.0	No	
104	110	114	121	106	124	113.2	No	
105	103	102	109	101	100	103.3	No	
106	100	105	102	99	100	102.0	No	
102	95	101	93	103	102	99.3	No	
101	102	112	102	87	104	101.3	No	
90	111	112	112	110	102	106.2	No	
55	64	64		66	70	63.8	No	
64	64	64	54	61	63	61.7	No	



Compost application

AirBurner




V 15


AirBurners
HOT
STAY BACK

Biochar