



NDEP Bureau of Air Pollution Control

Compliance Branch

SOURCE TEST REVIEW

Company:	Stella-Jones Corporation	Date:	3/4/2026
Facility:	SJC - Silver Springs	By:	Keith Combs <i>KC</i>
Permit No.:	AP2491-0095.06	To:	Nick Frey <i>NF</i>
FIN:	A0499		
Testing Firm:	Broadbent & Associates	Test Date(s):	10/7/2025 - 10/10/2025
County:	Lyon	Street Address:	1680 East Spruce Ave Class: 2
NAICS Code:	321114	City:	Silver Springs Zip Code: 89429

System(s) Tested:	System 03A - Horizontal Wood Treating Cylinders (S2.014-S2.016)	Pass
	System 02 - Natural Gas-Fired Tube Boiler (S2.002)	Pass
	System 06 - 600 HP Fulton Steam Boiler (S2.017)	Pass

Summary – Major Findings

The source testing for the above referenced systems was conducted according to the submitted protocol. No exceedances in the permitted emission or production limits were reported.

Introduction

Source testing was conducted to satisfy the annual testing as required by Class I Air Quality Operating Permit AP2491-0095.06.

The test protocol was received on September 4, 2025, with the testing being conducted on October 7-10, 2025. The final report was received on December 06, 2025. The source test results are summarized in the attached tables.

Detailed Recommendations

Accept the test results for Systems 01 and 02.

Source Test Review Emissions Summary							
Company Name:	Stella-Jones Corporation			Unit Number:	S2.014-S2.016		
Facility Name:	SJC - Silver Springs			Testing Firm:	Broadbent & Associates		
Facility ID Number:	A0499			Test Date(s):	10/7/2025 - 10/10/2025		
Permit Number:	AP2491-0095.06			Reviewer Name:	Keith Combs		
System Description:	Horizontal Wood Treating Cylinders			Review Date:	3/4/2026		
System Number:	03A	Stack Height (ft.):	23	Cyclonic Flow (Average Absolute Null Angle):	0.416667		
Equivalent Stack Diameter (inches):		20		Cyclonic Flow (Standard Deviation):	N/A		
Street Address:	1680 East Spruce Ave			NAICS Code:	321114		
City:	Silver Springs	Zip Code:	89429	County:	Lyon		
Class:	2			Stack Test Status:	Pass		
Permitted Annual Hours of Operation =			8760	Opacity (%):	0	Limit (%)	20

Pollutant	Applicable Units	Run 1	Run 2	Run 3	Average	Permit Limit/ Operating Parameter	% of Limit
VOC (RM 18 and/or 25A)	Test Date	10/9/2025	10/10/2025				
	Start Time	6:11	10:57	6:31			
	End Time	10:19	15:02	10:34			
	tons/year	7.009076	6.070329	6.726017	6.601807	24.5	26.94615
	Stack Flow Rate (dscfm)	219.12	213.44	224.53	219.03	N/A	N/A
	Material Throughput (ft ³)	6000	6000	6000	6000	N/A	N/A
	Stack Temperature (°F)	74.71	93.92	70.08	79.57	Ambient	N/A
	CO ₂ ppmvd	0	0	0	0		N/A
	CO ₂ lb/hr	0	0	0	0		N/A
	CO ₂ tons/year	0	0	0	0		N/A
Dioxins/Furans (RM 23)	tons/year	0.042208	0.035854	0.040916	0.039659	2	1.982952
	% Isokinetic	100.2844	109.7158	104.521	104.8404	90%-110%	Valid
	Stack Flow Rate (dscfm)	219.12	213.44	224.53	219.03	N/A	N/A
	Stack Temperature (°F)	74.71	93.92	70.08	79.57	Ambient	N/A
	CO ₂ ppmvd	0	0	0	0		N/A
	CO ₂ lb/hr	0	0	0	0		N/A
	CO ₂ tons/year	0	0	0	0		N/A

Source Test Review Emissions Summary							
Company Name:	Stella-Jones Corporation			Unit Number:	S2.002		
Facility Name:	SJC - Silver Springs			Testing Firm:	Broadbent & Associates		
Facility ID Number:	A0499			Test Date(s):	10/7/2025 - 10/10/2025		
Permit Number:	AP2491-0095.06			Reviewer Name:	Keith Combs		
System Description:	Natural Gas-Fired Tube Boiler			Review Date:	3/4/2026		
System Number:	02	Stack Height (ft.):		Cyclonic Flow (Average Absolute Null Angle):	1.9875		
Equivalent Stack Diameter (inches):	16			Cyclonic Flow (Standard Deviation):	N/A		
Street Address:	1680 East Spruce Ave			NAICS Code:	321114		
City:	Silver Springs	Zip Code:	89429	County:	Lyon		
Class:	2			Stack Test Status:	Pass		
Permitted Annual Hours of Operation =	8760			Opacity (%):	0	Limit (%)	20

Pollutant	Applicable Units	Run 1	Run 2	Run 3	Average	Permit Limit/ Operating Parameter	% of Limit
NOx (RM 7E)	Test Date	10/8/2025					
	Start Time	10:53	12:43	14:08			
	End Time	12:01	13:50	15:17			
	lb/hr	0.571373	0.493949	0.47144	0.512254	1.1	46.56855
	tons/year	2.502614	2.163498	2.064906	2.243673	4.87	46.07131
	Stack Flow Rate (dscfm)	1,541.98	1,337.43	1,205.17	1,361.53	1631	N/A
	Stack Temperature (°F)	369.50	370.13	370.94	370.19	580	N/A
	CO ₂ ppmvd	93050	92200	93100	92783.33		N/A
	CO ₂ lb/hr	983.5534	845.2891	769.1288	865.9904		N/A
	CO ₂ tons/year	4307.964	3702.366	3368.784	3793.038		N/A
CO (RM 10)	lb/hr	0.003566	0.000759	0	0.001441	0.93	0.154986
	tons/year	0.015617	0.003322	0	0.006313	4.09	0.154356
	Stack Flow Rate (dscfm)	1,541.98	1,337.43	1,205.17	1,361.53	1631	N/A
	Stack Temperature (°F)	369.50	370.13	370.94	370.19	580	N/A
	CO ₂ ppmvd	93050	92200	93100	92783.33		N/A
	CO ₂ lb/hr	983.5534	845.2891	769.1288	865.9904		N/A
	CO ₂ tons/year	4307.964	3702.366	3368.784	3793.038		N/A

Source Test Review Emissions Summary

Company Name:	Stella-Jones Corporation			Unit Number:	S2.017		
Facility Name:	SJC - Silver Springs			Testing Firm:	Broadbent & Associates		
Facility ID Number:	A0499			Test Date(s):	10/7/2025 - 10/10/2025		
Permit Number:	AP2491-0095.06			Reviewer Name:	Keith Combs		
System Description:	600 HP Fulton Steam Boiler			Review Date:	3/4/2026		
System Number:	06	Stack Height (ft.):		Cyclonic Flow (Average Absolute Null Angle):	7.591667		
Equivalent Stack Diameter (inches):	26			Cyclonic Flow (Standard Deviation):	N/A		
Street Address:	1680 East Spruce Ave			NAICS Code:	321114		
City:	Silver Springs	Zip Code:	89429	County:	Lyon		
Class:	2			Stack Test Status:	Pass		
Permitted Annual Hours of Operation =	8760			Opacity (%):	0	Limit (%)	20

Pollutant	Applicable Units	Run 1	Run 2	Run 3	Average	Permit Limit/ Operating Parameter	% of Limit
PM (RM 5/202)	Test Date	10/7/2025		10/8/2025			
	Start Time	9:22	12:26	6:52			
	End Time	11:26	14:30	8:56			
	lb/hr	5.13E-05	5.22E-05	5.69E-05	5.35E-05	0.15	0.035634
	tons/year	0.000225	0.000229	0.000249	0.000234	0.66	0.035472
	% Isokinetic	103.3879	96.49793	102.4317	100.7725	90%-110%	Valid
	Stack Flow Rate (dscfm)	1,876.93	2,011.59	1,883.36	1,923.96	5688	N/A
	Stack Temperature (°F)	268.21	272.33	272.00	270.85	350	N/A
	CO ₂ ppmvd	91710	96210	91820	93246.67		N/A
	CO ₂ lb/hr	1179.957	1326.666	1185.424	1230.682		N/A
	CO ₂ tons/year	5168.21	5810.799	5192.155	5390.388		N/A
SO ₂ (RM 6C)	lb/hr	0	0	0.001128	0.000376	0.012	3.132262
	tons/year	0	0	0.004939	0.001646	0.052	3.165994
	Stack Flow Rate (dscfm)	1,876.93	2,011.59	1,883.36	1,923.96	5688	N/A
	Stack Temperature (°F)	268.21	272.33	272.00	270.85	350	N/A
	CO ₂ ppmvd	91710	96210	91820	93246.67		N/A
	CO ₂ lb/hr	1179.957	1326.666	1185.424	1230.682		N/A
	CO ₂ tons/year	5168.21	5810.799	5192.155	5390.388		N/A

Source Test Review Emissions Summary							
Company Name:	Stella-Jones Corporation			Unit Number:	S2.017		
Facility Name:	SJC - Silver Springs			Testing Firm:	Broadbent & Associates		
Facility ID Number:	A0499			Test Date(s):	10/7/2025 - 10/10/2025		
Permit Number:	AP2491-0095.06			Reviewer Name:	Keith Combs		
System Description:	600 HP Fulton Steam Boiler			Review Date:	3/4/2026		
System Number:	06	Stack Height (ft.):		Cyclonic Flow (Average Absolute Null Angle):	7.591667		
Equivalent Stack Diameter (inches):	26			Cyclonic Flow (Standard Deviation):	N/A		
Street Address:	1680 East Spruce Ave			NAICS Code:	321114		
City:	Silver Springs	Zip Code:	89429	County:	Lyon		
Class:	2			Stack Test Status:	Pass		
Permitted Annual Hours of Operation =	8760			Opacity (%):	0	Limit (%)	20

Pollutant	Applicable Units	Run 1	Run 2	Run 3	Average	Permit Limit/ Operating Parameter	% of Limit
NOx (RM 7E)	lb/hr	0.903283	1.030074	0.896529	0.943295	1.97	47.883
	tons/year	3.956379	4.511722	3.926796	4.131632	8.63	47.87523
	Stack Flow Rate (dscfm)	1,876.93	2,011.59	1,883.36	1,923.96	5688	N/A
	Stack Temperature (°F)	268.21	272.33	272.00	270.85	350	N/A
	CO ₂ ppmvd	91710	96210	91820	93246.67		N/A
	CO ₂ lb/hr	1179.957	1326.666	1185.424	1230.682		N/A
	CO ₂ tons/year	5168.21	5810.799	5192.155	5390.388		N/A
CO (RM 10)	lb/hr	0	0	0.000164	5.48E-05	1.66	0.0033
	tons/year	0	0	0.00072	0.00024	7.25	0.003309
	Stack Flow Rate (dscfm)	1,876.93	2,011.59	1,883.36	1,923.96	5688	N/A
	Stack Temperature (°F)	268.21	272.33	272.00	270.85	350	N/A
	CO ₂ ppmvd	91710	96210	91820	93246.67		N/A
	CO ₂ lb/hr	1179.957	1326.666	1185.424	1230.682		N/A
	CO ₂ tons/year	5168.21	5810.799	5192.155	5390.388		N/A
VOC (RM 18 and/or 25A)	lb/hr	0.003189	0.000553	0	0.001247	0.11	1.133977
	tons/year	0.013969	0.002422	0	0.005463	0.47	1.162447
	Stack Flow Rate (dscfm)	1,876.93	2,011.59	1,883.36	1,923.96	5688	N/A
	Stack Temperature (°F)	268.21	272.33	272.00	270.85	350	N/A
	CO ₂ ppmvd	91710	96210	91820	93246.67		N/A
	CO ₂ lb/hr	1179.957	1326.666	1185.424	1230.682		N/A
	CO ₂ tons/year	5168.21	5810.799	5192.155	5390.388		N/A

