



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

November 7, 2013

Ad Verkuylen,  
VP Engineering, NohBell Corp.  
**Jackson Family Wines**  
421 Aviation Boulevard  
Santa Rosa, CA 95403

Dear Mr. Verkuylen:

Enclosed are the results of the source tests that this District conducted on your *Tanks #705/707 to Ethanol Scrubber* on *October 10, 2013*.

These data are considered to be representative of the emissions from this source for the operating parameters described during the test times and are forwarded as a courtesy for your information.

In addition to the current source test, a corrected copy of the previous source test conducted on November 1, 2011 is included for your review.

Your cooperation with our test personnel is appreciated. Please contact Charles McClure, Supervising Air Quality Engineer, if you have any questions regarding these data.

Sincerely,

A handwritten signature in cursive script that reads "Robert Bartley".

Robert Bartley  
Air Quality Engineering Manager

RB:CM:ge

Enclosure

Distribution: Firm Permit Services Requester	<b>BAY AREA AIR QUALITY MANAGEMENT DISTRICT</b> 939 Ellis Street San Francisco, California 94109 (415) 771-6000 <b>SUMMARY OF SOURCE TEST RESULTS</b>	Report No. <u>14086</u> Test Date: <u>10/10/13</u>
		<b>Test Times:</b> Run A: <u>1049 – 1119</u> Run B: <u>1135 – 1205</u> Run C: <u>1229 – 1259</u>

Source Information		BAAQMD Representatives
Firm Name and Address:  Jackson Family Wines 421 Aviation Boulevard Santa Rosa, California 95403	Firm Representative and Title: Ad Verkuylen, VP Engineering, NohBell Corporation Phone No. 208-286-4032	Source Test Team: E. Ko G. Bradbury
Permit Conditions: <u>None</u>	Source(s): Tanks # 705/707 To Ethanol Scrubber	Rules Development / Enforcement:
	Plant No.                      Permit Con. Operates:                      On Demand	Test Requested by: D. Breen

**Operating Parameters:** Site Location: Jackson Family Wines, Oakville, CA. Tank 705, Blend 13TCSKEL928A, was started on 10/04/13 and Tank 707, Blend 13TMEJPKB026, was started on 10/01/13. Tank 705 held 21.89 tons and Tank 707 held 18.8 tons. The status of both tanks was "crush".

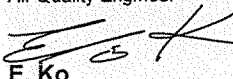
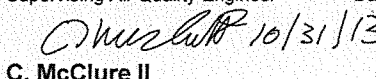
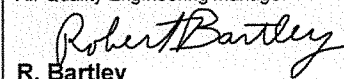
Applicable Regulations:	Developmental Data	VN Recommended: <b>NO</b>
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Source Test Results and Comments:

METHOD	PARAMETER	RESULTS			
		Run A	Run B	Run C <sup>1</sup>	Average
<b>OUTLET:</b>					
ST – 32	Volumetric Flow Rate; SDCFM	6.6	6.2	6.0	6.2
	Ethanol, ppm	45	49	65	53
	Ethanol, Lbs. / Hour	<0.01	<0.01	<0.01	<0.01
<b>INLET:</b>					
ST – 32	Ethanol; ppm	9,050	8,800	9,150	9,000
	Ethanol; Lbs / Hour	0.43	0.39	0.39	0.40
	Ethanol Abatement Efficiency; %				99.4

[1] Grease and Teflon sleeve used on first outlet impinger in Run C to achieve passing leak check. Estimated 1 gram of grease added to impingers.

NO COMMERCIAL USE OF THESE RESULTS IS AUTHORIZED

Air Quality Engineer  E. Ko	Date 10/30/13	Supervising Air Quality Engineer  C. McClure II	Date 10/31/13	Air Quality Engineering Manager  R. Bartley	Date 11-7-13
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Distribution: Firm Permit Services Requester	<b>BAY AREA AIR QUALITY MANAGEMENT DISTRICT</b> 939 Ellis Street San Francisco, California 94109 (415) 771-6000 <b>SUMMARY OF SOURCE TEST RESULTS</b>	Report No. <u>12066</u> Test Date: <u>11/01/11</u>
		<u>Test Times:</u> Run A: <u>1342 - 1412</u> Run B: <u>1429 - 1459</u> Run C: <u>1512 - 1542</u>

Source Information		BAAQMD Representatives
Firm Name and Address:  Jackson Family Wines 425 Aviation Boulevard Santa Rosa, California 95403	Firm Representative and Title: Robert Boller, Vice President of Sustainability Phone No. 707-525-6266	Source Test Team: B. Bartley G. Bradbury
Permit Conditions: <u>None</u>	Source(s): Tank # 412 with a capacity of 13,892 gallons; (S - 1) To Ethanol Scrubber; (A-1)	Rules Development / Enforcement:
	Plant No. Permit Con. Operates: On Demand	Test Requested by: J. Slamovich

**Operating Parameters:** Site Location: Jackson Family Wines, Oakville, CA. The average temperature of the scrubber water was 74°F during the test period. The tank was started on 10/24/11 with a BRIX of 23.4; during the test the BRIX went from 9.1 to 8.1. The ethanol content of the scrubber water went from 0.0% to 1.0% during the test. The tank status was "crush" with a formulation number of 11ECSNANN24A.

**Note:** The main scrubber water motor for the ethanol abatement device malfunctioned prior to testing. The scrubber water had to be drained, the pump replaced, and the scrubber reservoir refilled with water before testing could take place.

Applicable Regulations:	Developmental Data	VN Recommended: <b>NO</b>
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Source Test Results and Comments:

METHOD	PARAMETER	RESULTS			
		Run A	Run B	Run C	Average
<b>OUTLET:</b>					
	Volumetric Flow Rate; SDCFM	3	5	3	4
ST - 32	Ethanol, ppm	488	493	854	612
	Ethanol, Lbs. / Hour	0.01	0.02	0.02	0.02
GC	Carbon Dioxide; %				94.6
GC	Nitrogen; %				5.4
GC	Oxygen; %				<0.1
<b>INLET:</b>					
ST - 32	Ethanol; ppm	15,400	16,700	16,700	16,300
	Ethanol; Lbs / Hour	0.37	0.56	0.37	0.44
	Ethanol Abatement Efficiency; %				96.2

**CORRECTED COPY**

This copy corrects errors found in the volumetric flow rate and sample volume calculations.

NO COMMERCIAL USE OF THESE RESULTS IS AUTHORIZED

Air Quality Engineer <i>Robert Bartley</i> R. Bartley	Date 11-04-13	Supervising Air Quality Engineer <i>C McClure</i> C. McClure	Date 10/31/13	Approved by Air Quality Engineering Manager <i>Robert Bartley</i> R. Bartley	Date 11-04-13
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