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,

Robert Bartley

Robert Bartley
Air Quality Engineering Manager

RB:CM:ge

Enclosure

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

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: None	Source(s): Tanks # 705/707 To Ethanol Scrubber Plant No. Permit Con. Operates: On Demand	Rules Development / Enforcement: 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: **NO**

Source Test Results and Comments:

METHOD	**PARAMETER**	**RESULTS** Run A	Run B	Run C[1]	Average
OUTLET:					
	Volumetric Flow Rate; SDCFM	6.6	6.2	6.0	6.2
ST – 32	Ethanol, ppm	45	49	65	53
	Ethanol, Lbs. / Hour	<0.01	<0.01	<0.01	<0.01
INLET:					
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.

Air Quality Engineer / Date	Supervising Air Quality Engineer / Date	Air Quality Engineering Manager / Date
E. Ko 10/30/13	C. McClure II 10/31/13	R. Bartley 11-7-13

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Distribution: Firm, Permit Services, Requester	BAY AREA AIR QUALITY MANAGEMENT DISTRICT 939 Ellis Street San Francisco, California 94109 (415) 771-6000 **SUMMARY OF SOURCE TEST RESULTS**	Report No. 12066 Test Date: 11/01/11 Test Times: Run A: 1342 - 1412 Run B: 1429 - 1459 Run C: 1512 - 1542

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
	Source(s): Tank # 412 with a capacity of 13,892 gallons; (S - 1) To Ethanol Scrubber; (A-1)	Rules Development / Enforcement:
Permit Conditions: None	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: **NO**

Source Test Results and Comments:

METHOD	PARAMETER	RESULTS Run A	Run B	Run C	Average
OUTLET:					
	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
INLET:					
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.

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