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Background Report Reference

AP-42 Section Number: 9.10.2

Background Chapter: 4

Reference Number: 4

Title: Almond Huller Baghouse Exhaust,
kernpareil Co-op Inc.

Truesdail Laboratories

Truesdail Laboratories

November 1980

REPORT

TRUESDAIL LABORATORIES, INC.

DUPLICATE



CHEMISTS - MICROBIOLOGISTS - ENGINEERS
RESEARCH - DEVELOPMENT - TESTING

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CLIENT Kernpareil Coop, Incorporated
P. O. Box 156
Wasco, California 93280
Attention: David G. Swisshelm, Manager

DATE November 26, 1980
RECEIVED October 24, 1980
LABORATORY NO. 34543

SAMPLE Almond huller baghouse exhaust, on
November 10, 1980

INVESTIGATION Sampling and analysis for particulate matter
concentration and mass emission rate

RESULTS

On November 10, 1980, representatives of Truesdail Laboratories, Incorporated, conducted source emission tests on the baghouse serving the almond huller at Kernpareil Coop, Incorporated facility, near Wasco, California. The tests were conducted to determine the particulate matter concentration and emission rates.

The particulate matter sampling was performed according to EPA method 5. The maximum number of traverse points (24) was chosen because of the sampling ports location being the minimum allowable number of diameters from the nearest obstruction, both upstream and downstream from the sampling ports.

The tests were run while the system was under normal operating load conditions.

The exhaust fan had no provisions for testing the flue gas, so a special portable manifold was built. This permitted testing of the flue gas by exhausting it through a rectangular duct. Three sampling ports were positioned one-half of an effective diameter upstream and two effective diameters downstream of the nearest bend or obstruction.

The results were as follows:

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these Laboratories.

		<u>Test #1</u>	<u>Test #2</u>
Testing time:	Start	1345	1645
	Finish	1557	1854
Flue Gas:	Temperature, Degrees F	78	66
	Velocity, ft/sec	41.7	40.2
	*Flue dimensions, inches	39 x 30	39 x 30
	*Flue area, sq. ft.	8.125	8.125
	Static pressure, in H ₂ O	-0.22	-0.22
*Flow rate:	CFM	20,340	19,590
	SCFM	19,680	19,390
	DSCFM	19,640	18,930
Water Vapor, % (by volume)		0.18	2.38

Particulate Matter

Sample collection, grams	0.0054	0.0053
Sample volume, DSCF	58.94	61.33
Percent isokinetic sampling	106.	108.
Concentration, grains/DSCF	0.0014	0.0013
*Emission rate, lbs/hour	0.24	0.22

• calculated for single exhaust

Respectfully submitted,

TRUESDAIL LABORATORIES, INC.

Ignas Bandziulis
 Ignas Bandziulis, Supervisor
 Air Pollution Testing