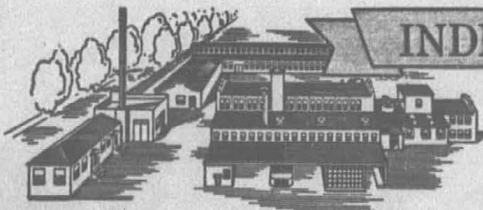


11.9.45



FACTORY - WOBURN, MASSACHUSETTS

INDEPENDENT TALLOW CO., INC.

39 CEDAR STREET
WOBURN, MASS. 01801.

TELEPHONE
729-2390

Site: Wells G+H
Books: 11.9
Other: 11.9.45

June 30, 1983

Ms. Lauren Stiller Rikleen
Office of Regional Counsel
U.S. Environmental Protection Agency
Region I
John F. Kennedy Federal Building, Room 2203
Boston, MA 02203

Dear Ms. Rikleen:

Enclosed is the information you requested:

1. Approximately 1943
2. Abraham Levovitz, Present owner purchased from E.P. Robitaille former owner. No easements.
3. Unknown
4. Tallow, Meat Meal, Yellow Grease.
5. Sodium Hypochlorite - for odor control, boiler water treatment chemicals.
6.
 - A. Sodium Hypochlorite - 1000 gal per week
boiler chemicals - as needed
 - B. Sodium Hypochlorite - Fibre glass tank at air scrubber
boiler chemicals - boiler room, shipped in containers and stored in same.
 - C. Sodium Hypochlorite - 1000 gal. max.
boiler chemicals - not more than 800 lbs
 - D. Sodium Hypochlorite - once a week
boiler chemical as needed
 - E. None

ORC
7.11.83

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WELLS G AND H
ADMINISTRATIVE RECORD

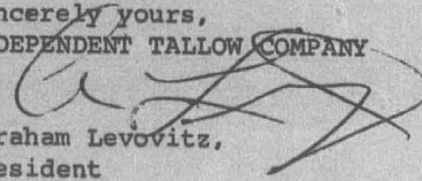
WEL 005

2216 F

- 7. A. Sodium Hypochlorite for odor control
boiler chemical for water treatment
- B. 50,000 gals. per year of Sodium Hypochlorite
boiler chemical as needed
- C. 15% Sodium Hypochlorite - enclosure #2 for boiler chemical
- D. Waste from air scrubber 5 gal per min. enclosure #01
blowdown from boilers 500 gal. per day
- E. All water to MDC sewer

- 8. No
- 9. No
- 10. No
- 11. No
- 12. No
- 13. No
- 14. Enclosure
- 15. No
- 17. None
- 18. None
- 19. No
- 20. -
- 21. Enclosure 3
- 22. Enclosure 4
- 23. No
- 24. Yes - one

Sincerely yours,
INDEPENDENT TALLOW COMPANY


Abraham Levovitz,
President

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ADMINISTRATIVE RECORD

WEL 005

22 17

Telephone 617/388-3989 — (388-1887)

AQUA LABORATORIES, INC. INDUSTRIAL WATER TREATMENT WATER CONSULTING SERVICE

Standard Chemicals

AMESBURY, MASS. 01913

P.O. Box 645
8 Industrial Ave.



SAFETY DATA SHEET

Aqua Laboratories, Inc. 617-3883-989
MANUFACTURER'S NAME EMERGENCY TELEPHONE NO
8 Industrial Ave., Amesbury, MA 01913
ADDRESS

Higher type phosphate mixture AQUA PHOS
CHEMICAL NAME AND SYNONYMS TRADE NAME AND SYNONYMS
CHEMICAL FAMILY FORMULA

A specially blended liquid formulation consisting of phosphates which effectively softens the hardness in boiler feed water.

PHYSICAL DATA

BOILING POINT (°F) 212°F SPECIFIC GRAVITY (H₂O 1)
VAPOR PRESSURE (mm Hg) 760
VAPOR DENSITY (AIR 1) Same as water
SOLUBILITY IN WATER Completely
APPEARANCE AND ODOR Clear liquid

FIRE DATA

FLASH POINT N/A FLAMMABLE LIMITS LEL UEL
EXTINGUISHING MEDIA
SPECIAL FIRE FIGHTING PROCEDURES An aqueous solution that does not support combustion.

UNUSUAL FIRE AND EXPLOSION HAZARDS

HEALTH DATA

THRESHOLD LIMIT VALUE Do not drink; handle as any neutral chemical
EFFECTS OF OVEREXPOSURE
EMERGENCY AND FIRST AID PROCEDURES Not a toxic chemical. Wash off.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

SP102227

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WELLS G AND H
ADMINISTRATIVE RECORD

WEL 005

22 18

AQUA LABORATORIES, INC. INDUSTRIAL WATER TREATMENT WATER CONSULTING SERVICE



Standard Chemicals



Telephone 617/388-3989
617/388-3990

8 INDUSTRIAL AVE., P.O. BOX 645
AMESBURY, MASS. 01913

SAFETY DATA SHEET

Aqua Laboratories, Inc. 617-388-3989
MANUFACTURER'S NAME
 8 Industrial Avenue EMERGENCY TELEPHONE NO.
ADDRESS
 Amesbury, MA 01913
CHEMICAL NAME AND SYNONYMS Sodium Hydroxide Flakes TRADE NAME AND SYNONYMS Caustic Soda Flakes
CHEMICAL FAMILY Alkali FORMULA NaOH

PHYSICAL DATA

BOILING POINT (°F.) None SPECIFIC GRAVITY (H₂O=1)
VAPOR PRESSURE (mm Hg.)
VAPOR DENSITY (AIR=1)
SOLUBILITY IN WATER 100%
APPEARANCE AND ODOR Opaque white flakes

FIRE DATA

FLASH POINT None FLAMMABLE LIMITS LEL UEL
EXTINGUISHING MEDIA
SPECIAL FIRE FIGHTING PROCEDURES
UNUSUAL FIRE AND EXPLOSION HAZARDS None

HEALTH DATA

THRESHOLD LIMIT VALUE (not volatile)
EFFECTS OF OVEREXPOSURE Is corrosive to skin and eyes
EMERGENCY AND FIRST AID PROCEDURES In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. For eyes, call a physician. Remove contaminated clothing and shoes and wash before reuse.

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WELLS G AND H ADMINISTRATIVE RECORD

WEL 005

2219

Telephone 7/388-3989 - (388-1887)

AQUA LABORATORIES, INC.

INDUSTRIAL WATER TREATMENT WATER CONSULTING SERVICE

Standard Chemicals

P.O. Box 645
8 Industrial Ave.

AMESBURY, MASS. 01913



SAFETY DATA SHEET

Aqua Laboratories, Inc.
8 Industrial Ave., Amesbury, MA 01913

617-388-3989
EMERGENCY TELEPHONE NO.

AQUA COLL 60

Boiler Water Treatment

A balanced mixture of colloid polymer, phosphonate, and caustic potash, used for on-line cleaning of dirty boiler innards.

PHYSICAL DATA

BOILING POINT (°F) 212°F
SPECIFIC GRAVITY (H.O. 1) 1.40
VAPOR PRESSURE (mm Hg) 760
VAPOR DENSITY (AIR 1)
SOLUBILITY IN WATER 100%
APPEARANCE AND ODOR Dark brown; no odor

FIRE DATA

FLASH POINT N/A
EXTINGUISHING MEDIA N/A
SPECIAL FIRE FIGHTING PROCEDURES N/A water based solution
UNUSUAL FIRE AND EXPLOSION HAZARDS

HEALTH DATA

THRESHOLD LIMIT VALUE Not established
EFFECTS OF OVEREXPOSURE Contains caustic potash. Could burn skin over a long period of concentrated exposure.
EMERGENCY AND FIRST AID PROCEDURES Wash with large quantities of water. If splashed in eyes, wash with water and get medical attention immediately.

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SP10/2/77

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WEL 005

2220

AQUA LABORATORIES, INC. INDUSTRIAL WATER TREATMENT WATER CONSULTING SERVICE



Standard Chemicals



Telephone 617/388-3989
617/388-3990

8 INDUSTRIAL AVE., P.O. BOX 645
AMESBURY, MASS. 01913

NOTICE: If the film image is less clear than this notice, it is due to the quality of the document being filmed.

SAFETY DATA SHEET

Aqua Laboratories, Inc. 617-388-3989
MANUFACTURER'S NAME
 8 Industrial Avenue EMERGENCY TELEPHONE NO
ADDRESS
 Amesbury, MA 01913 AQUA PHOS (dry)
CHEMICAL NAME AND SYNONYMS TRADE NAME AND SYNONYMS
 Meta phos
CHEMICAL FAMILY FORMULA
 Sodium meta phosphate

PHYSICAL DATA

BOILING POINT (°F) None SPECIFIC GRAVITY (M₂O · 1)
 VAPOR PRESSURE (mm Hg) None N/A
 VAPOR DENSITY (AIR = 1) None
 SOLUBILITY IN WATER 100%
 APPEARANCE AND ODOR white crystals

FIRE DATA

FLASH POINT None FLAMMABLE LIMITS LEL UEL
 EXTINGUISHING MEDIA
 SPECIAL FIRE FIGHTING PROCEDURES
 UNUSUAL FIRE AND EXPLOSION HAZARDS

HEALTH DATA

THRESHOLD LIMIT VALUE None
 EFFECTS OF OVEREXPOSURE None
 EMERGENCY AND FIRST AID PROCEDURES None

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

WELLS G AND H
ADMINISTRATIVE RECORD

WEL 005

2221

WOODARD & C' IRRAN 'NC.
CONSULTING ENGINEERS

#1- #3 AND #4
ENCLOSURE

IV SCHOOL STREET
GOPHAM, MAINE 04038
TEL (207) 839-6751

Franklin L. Woodard, PhD
Albert R. Curran
Donald C. Almy

Thomas S. Green
Kurt R. Marston
Peter J. Dallano
David K. Pinkham
Kenneth D. Fairfield
Stephen E. Stearns

January 11, 1983

Wayne T. Grandin,
Chief Engineer of Industrial Waste
Metropolitan District Commission
20 Somerset Street
Boston, MA 02108

Dear Mr. Grandin:

This is to report on start-up and testing of wastewater pretreatment modifications at Independent Tallow Company, Inc. in Woburn. The modifications involved upgrading from surface skimming to dissolved-air flotation (DAF) for improved oil and grease removal from the so-called "fat washing process effluent".

We are pleased to report that the modifications are completed and have resulted in reduced oil and grease content as evidenced by the appearance of the effluent and the manhole on site. Sampling data showing that the combined effluent complies with oil and grease limitations is presented in the enclosed table.

During the start-up and testing period we did experience variability in oil and grease levels. Some oil and grease levels were much higher than expected with no visible degradation in sample quality (no apparant floating grease or oil). Therefore, it is possible that high readings could occur in the future with no visible change in the DAF effluent. However, since there does not appear to be any visible increase in floating grease or oil corresponding to the high readings, it is felt that the high readings in themselves are not a problem and do not violate the intent of limitations on oil and grease (prevention of grease balls, plugging of pipes, etc.).

Since we are dealing with wastewater from a rendering plant, it is highly likely that substances that are hexane soluble but not oils or greases (such as butyric acid, proponic acid, etc.) are being measured by the oil and grease test. This would account for those times when a high concentration of oil and grease was measured with no visible degradation of DAF effluent quality.

Formerly the Dairy E. Caruthers Co

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2222

WOODARD & CURRAN, INC.
CONSULTING ENGINEERS

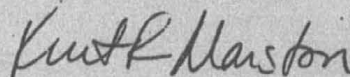
The data in the enclosed table show an oil and grease concentration in the DAF effluent of 300 mg/l. That sample was also found to have a "volatile acids" concentration of 120 mg/l as acetic acid. This can be interpreted to show that roughly one half of the measured "oils and greases" are actually "volatile acids". We have recommended to Independent Tallow that they periodically check oil and grease and volatile acids concentrations. We will draw upon the results of these periodic tests, if necessary, for interpreting and reporting in future effluent monitoring reports.

This report should complete the fulfillment of the requirements of MDC Industrial User Discharge Permit No. 43 004 733-1.

Should you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

WOODARD & CURRAN INC.



Kurt R. Marston, P.E.
Chief Engineer

KRM:tal

cc: Mel Rosmarin, Independent Tallow

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ADMINISTRATIVE RECORD

WEL 005

2223

WOODARD & CURRAN INC.
CONSULTING ENGINEERS

IV SCHOOL STREET
GORHAM, MAINE 04038
TEL. (207) 839-6751

Franklin E. Woodard, PhD
Albert R. Curran
Donald C. Almy

Thomas S. Greer
Kurt R. Marston
Peter J. Dallonso
David K. Pinkham
Kenneth D. Fairfield
Stephen E. Stearns

June 22, 1983

Melvin Rosmarin
Independent Tallow Co., Inc.
39 Cedar Street
Woburn, MA 01801

Dear Mel:

I have reviewed the letter from EPA dated June 10, 1983. The following is information for use in responding to those questions which deal with work we have done for Independent Tallow.

14. a. Two wastewater streams are produced by the plant and discharged to the city sewer: fat washing process effluent and air control unit effluent.
 - b. The fat washing effluent is pretreated in a dissolved air flotation system. The treated water is discharged to the city sewer and the reclaimed grease and fat is recycled back into the plant. The air control unit effluent is discharged to the city sewer without pretreatment. Wastewater flow rates are included in the information supplied for question #22.
 - c. NA
 - d. NA
 - e. NA
 - f. See item b above.
21. Independent Tallow currently discharges wastewater to the Woburn sewer system according to the requirements of MDC Industrial User Discharge Permit No. 43 004 733-1. I don't know if you had any other agreements or permits prior to this. See next question for flow rates.

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2224

WOODARD & CURRAN INC.

CONSULTING ENGINEERS

22. Woodard & Curran Inc. has performed wastewater sampling and analysis for Independent Tallow.

a. Samples of the wastewater streams identified in information supplied for question #14 were analyzed as required by the MDC permit.

b. Copies of reports with test results are enclosed.

c. See item b above.

d. Three laboratories have been used:

McFarland Associates, Inc.
North Windham, ME 04062

Belfast Technical Services Laboratories
127 Main Street
Belfast, ME 04915

E.C. Jordan Co.
562 Congress Street
Portland, ME 04112

Should you require more information or need more assistance, please don't hesitate to call.

Sincerely,

WOODARD & CURRAN INC.

Kurt R. Marston
Kurt R. Marston, P.E.
Chief Engineer

KRM:tal

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2225

WOODARD & CURRAN, INC.
CONSULTING ENGINEERS

WASTEWATER CHARACTERISTICS

INDEPENDENT TALLOW CO.

<u>PARAMETER</u>	<u>DAF EFFLUENT</u> ¹	<u>SCRUBBER/ CONDENSATE</u> ²	<u>COMBINED EFFLUENT</u>
Flow ³	8.6 gpm	51.3 gpm	59.9 gpm
BOD ₅	800 mg/l	0 mg/l	115 mg/l
TSS	470 mg/l	85 mg/l	140 mg/l
Oil & Grease	300 mg/l	0 mg/l	43 mg/l
pH	4.7	9.3	8.6

NOTES:

1. Identified as "fat washing process effluent" in MDC permit.
2. Identified as "air control unit effluent" in MDC permit.
3. Average flow for operation 16 hr/day. 5 day/week, 52 weeks/yr.

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WEL 005

2226

WOODARD & CURRAN, INC.
CONSULTING ENGINEERS

IV SCHOOL STREET
GORHAM, MAINE 04036
TEL (207) 839-6751

Franklin E. Woodard PhD
Albert R. Curran
Donald C. Almy

Thomas S. Greer
Kurt R. Marston
Peter J. Dallonso
David K. Pinkham
Kenneth D. Fairfield
Stephen E. Stearns

February 8, 1982

Wayne T. Grandin
Chief Engineer of Industrial Waste
Metropolitan District Commission
20 Somerset Street
Boston, MA 02108

Dear Mr. Grandin;

On behalf of Independent Tallow Company, Inc., we submit this first annual Discharge Report describing the characteristics of wastewater discharged to the Woburn sewer system. This is to fulfill the requirements of MDC Industrial User Discharge Permit No. 43 004 733-1.

The enclosed table should satisfy the requirements of Attachment B to the Permit.

Attachment C to the Permit requires submission of the name of the firm that maintains Independent Tallow's grease trap and the schedule followed. Please be advised that the so-called "fat washing process effluent" goes through a Dupps brand oil/water separator prior to discharge to the sewer. The Dupps unit has a scraper on the separation tank that continuously removes accumulated grease, oil or fat from the water surface. The Dupps unit is maintained by Independent Tallow.

Should you have any questions or require further information, please do not hesitate to call me.

Sincerely,

WOODARD & CURRAN INC.

Kurt R. Marston

Kurt R. Marston, P.E.
Chief Engineer

cc w/enclosures

Albert J. Wall, Public Works, Woburn, MA
Melvin Rosmarin, Independent Tallow Co., Inc.

Formerly the Dale E. Caruthers Co

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WOODARD & CURRAN INC.
CONSULTING ENGINEERS

WASTEWATER CHARACTERISTICS

Independent Tallow Co., Inc.
39 Cedar Street
Woburn, MA 01801

	<u>Process Effluent¹</u>	<u>Scrubber/Condenser Effluent²</u>
Flow	8.6 gpm ³	51.3 gpm ³
BOD ₅	3408 mg/l	N.R.
Total Suspended Solids	7848 mg/l	34 mg/l'
Settleable Solids	15 ml/l	2.5 ml/l
Oil & Grease	858.8 mg/l	N.R.
pH	6.4	8.9
Temperature	100°F	N.R.

N.R. = Not Required

Notes:

1. Identified as "fat washing process effluent" in MDC permit.
2. Identified as "air control unit effluent" in MDC permit.
3. Average flow for operation 16 hr/day, 5 day/week, 52 weeks/yr.

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WEL 005

2228

Telephone (388-3989 - (388-1887)

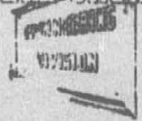
AQUA LABORATORIES, INC.

INDUSTRIAL WATER TREATMENT WATER CONSULTING SERVICE

Standard Chemicals

36 HIGH STREET AMESBURY, MASS 01913

ENCLOSURE #2 ✓



SAFETY DATA SHEET

Aqua Laboratories, Inc. 617-388-3989 603-323-8775
 MANUFACTURER'S NAME
 8 Industrial Ave. EMERGENCY TELEPHONE NO.
 ADDRESS
 Amesbury, MA
 CHEMICAL NAME AND SYNONYM: SODIUM SULFITE DEOXIT
 CHEMICAL FORMULA: Na_2SO_3

A Chemical Reducing Agent

PHYSICAL DATA

BOILING POINT: _____
 VAPOR PRESSURE: _____
 VAPOR DENSITY: 13 1/2%
 SOLUBILITY IN WATER: Complete
 APPEARANCE AND ODOR: White crystals - no appreciable odor

FIRE DATA

FLASH POINT: N/A
 EXTINGUISHING MEDIA: N/A
 SPECIAL FIRE FIGHTING PROCEDURES: None
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HEALTH DATA

THRESHOLD LIMIT VALUE: Not Established
 EFFECT OF OVER EXPOSURE: None
 EMERGENCY AND FIRST AID PROCEDURES: Wash with water

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

SP100007

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2229 L