

Report to Committee

To:

Community Safety Committee

Date:

October 19, 2010

From:

Phyllis L. Carlyle

File:

General Manager, Law & Community Safety

Robert Gonzalez

General Manager, Engineering & Public Works

Re:

Grease Management Program

Staff Recommendation

- THAT Drainage, Dyke and Sanitary Sewer Bylaw No. 7551, Amendment Bylaw No. 8595 (Attachment 1), be introduced and given first, second and third readings;
- THAT Municipal Ticket Information Authorization Bylaw No. 7321, Amendment Bylaw No. 8650 (Attachment 2) be introduced and given first, second and third reading; and
- THAT Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122, Amendment Bylaw No. 8651 (Attachment 3) be introduced and given first, second and third reading.

Phyllis L. Carlyle

General Manager, Law & Community Safety

(604.276.4104)

Robert Gonzalez

General Manager, Engineering & Public Works

(604.276.4150)

ı	FOR ORIGINATING DEPARTMI	ENT USE ONLY
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Budgets Law	YMND	JAX1
		/
REVIEWED BY TAG	YES NO	REVIEWED BY CAO YES NO

Staff Report

Origin

This report provides an overview and analysis of the grease management program adopted by Council on January 1, 2008 and implemented by staff in June 2008. This grease reduction program supports:

- Council's goal to demonstrate leadership in and significant advancement of the City's agenda for sustainability through initiatives to reduce garbage, solid waste and liquid waste; and
- · the on-going grease reduction initiatives of the Greater Vancouver Regional District.

Analysis

The problem and resulting costs of fats, oils and grease (FOG) being discharged into sanitary sewer systems in the Lower Mainland crosses municipal boundaries and impacts the integrity and maintenance of the sanitary sewer systems. The associated problems are especially acute in sections of the sanitary sewer system serving food preparation and service establishments.

There is a requirement under City building codes for food sector establishments to install grease trap or interceptor systems designed to trap wastewater containing fats, oil, grease and solids; the objective is to prevent grease from entering the City's sanitary and sewer systems and being carried further into the regional system. These systems then have to be cleaned on a regular basis depending on the size and nature of the food prepared and the fats, oils and grease must be disposed of or recycled in a responsible manner.

In a March 2008 article from the Environmental Science & Engineering Magazine, author Penh Tov from Green Turtle Technologies reported:

"Sanitary sewer overflows are a significant threat to public health and the environment. Essentially, liquid grease (often from restaurants) enters the sewer system, cools and solidifies in the sewer pipe. This leads to a reduced hydraulic capacity, and grease attaches to the pipe walls – the 'arteries' of the system. Removal of the grease is expensive but necessary. Without removal, the system will experience blockages and resulting in flooding; a serious hazard for the municipality."

The article went on to state that coastal cities have the additional concern of dealing with "greaserelated overflows" that threaten sensitive neighbouring ecosystems.

In addition to the public health and environmental concerns, the City must contend with costs associated with the removal of grease from the City's sanitary sewer line. The associated costs from 2008 were estimated in excess of \$310,000. Engineering Design & Construction staff have identified that the majority of grease entering the sewer systems was from food sector establishments located on mainly on Alexandra and No. 3 Road.

Since 2008, Community Bylaws staff has been very active, on a part-time basis, visiting over 900 restaurants and food establishments within the City educating owners and operators on the process of maintaining the grease trap or interceptor systems in an exemplary manner to mitigate the impact on the City's sewer system.

Community Bylaws staff has also been very active in the Food Sector Code of Practice Task Force meetings, under the GVRD's coordination, to augment grease management programs in all affected municipalities, to explore additional education and enforcement factors and to promote 'best management practices' in standardizing the approach to fats, oils and grease in the Lower Mainland. The grease management program in Richmond has been recognized in many forums as an effective, innovative and pro-active approach to this very expensive problem.

Staff will continue to work with representatives from the GVRD, stakeholder groups, industry associations, suppliers and neighbouring municipalities to mitigate the impact of fats, oils and grease (FOG) on the region's sanitary sewer system. Some pending initiatives include:

- enhanced training to address FOG issues for food sector employees within the 'Serving It Right' program administered partly by the BC Restaurant & Food Services Association;
- the integration of responsible FOG management by restaurants to the successful renewal of their annual municipal business licences; and
- further exploration of software-based grease management and trap/interceptor maintenance records to streamline the inspection and enforcement practices for municipalities with the City of Richmond providing a leadership role.

In the short term, enhancements recommended in the attached bylaw amendments would address the following operational issues:

- enhance the ability of enforcement personnel to inspect food sector establishments and gain access to the grease trap or interceptor systems under section 16 of the Community Charter;
- ensure that the food sector establishment maintains complete maintenance records and subsequently provides these for inspection by City staff;
- imbed the best management practices established by the GVRD group for food sector establishments in the City's bylaw; and
- provide additional enforcement tools and incentives to promote compliance in difficult situations.

Financial Impact

Temporary full-time staffing and vehicle costs are funded through Engineering Department's operating budget. No new funds are required.

Conclusion

Staff recommends the adoption of the attached amendment Bylaws to:

enhance the education of owners and operators of food sector establishments in the City; and

 augment the enforcement tools available to City staff to promote compliance under the City's innovative and widely-recognized grease management program.

Wayne G. Mercer

Manager, Community Bylaws

(604.247.4601)

ML:wgm

Jim Young

Manager, Engineering Design & Construction

(604.247.4610)





Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551 Amendment Bylaw No. 8595

 The Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, as amended, is further amended by deleting PART THREE in its entirety and substituting the following:

PART THREE: GREASE MANAGEMENT

Restriction

3.1 No person responsible for a food sector establishment or a building, including an operator, property owner, agent or contractor, shall discharge or suffer, allow, cause or permit fat, oil or grease to be discharged into a sanitary sewer or drainage system within the City.

Inspection and Maintenance

- 3.2.1 The General Manager of Engineering & Public Works, an employee of the City acting under his or her direction or a bylaw enforcement officer may enter on and into a property to inspect, investigate and determine whether all provisions and regulations under Part Three of this bylaw are being met.
- 3.2.2 The operator, agent or contractor of a food sector establishment must maintain and repair all grease traps or grease interceptors, according to established schedules and standards provided by the manufacturer, so that they are fully operational and effective at all times.
- 3.2.3 At least one (1) person among the operator, property owner, agent or contractor responsible for the operation of a food sector establishment at any given time is required to have the knowledge, ability and tools to open and provide access to a grease trap or grease interceptor, upon request, during inspection and investigation by a bylaw enforcement officer or City employee under section 3.2.1 of this bylaw.
- 3.2.4 The operator of a food sector establishment must keep and maintain on site:
 - (a) all maintenance records, for a minimum period of two (2) years, of all grease trap or grease interceptor inspections and maintenance conducted, recording the date of the inspection, the date of cleaning or

Bylaw 8595 Page 2

maintenance, the type and quantity of material removed from the grease trap or grease interceptor and the disposal location and address,

- which must be available, upon request, for inspection and investigation by a bylaw enforcement officer or City employee under section 3.2.1 of this bylaw.
- 3.2.5 The maximum depth of fat, oil or grease which an operator of a food sector establishment may allow to accumulate in a grease trap or grease interceptor prior to servicing must not exceed the lesser of 15.2cm (six inches) or 25% of the wetted height of the grease trap or grease interceptor.
- 3.2.6 Each grease trap or grease interceptor within a food sector establishment must have a visible label that shows its rated flow capacity or documents from the manufacturer that state its rated flow capacity must be kept at the food sector establishment. The documentation must be available for viewing, upon request, by a bylaw enforcement officer or City employee during an inspection or investigation under section 3.2.1 of this bylaw.
- 3.2.7 No person shall use enzymes, solvents, hot water or other agents in order to facilitate the passage of fat, oil or grease through a grease trap or grease interceptor.
- 3.2.8 All food sector establishments shall implement best management practices in its operation to minimize the discharge of fat, oil or grease into a sanitary sewer or drainage system within the City.

Violations and Penalties

- 3.3.1 (a) A violation of any of the provisions identified in this bylaw shall result in liability for penalties and late payment amounts established in Schedule A of the Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122; and
 - (b) A violation of any of the provisions identified in this bylaw shall be subject to the procedures, restrictions, limits, obligations and rights established in the Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122 in accordance with the Local Government Bylaw Notice Enforcement Act, SBC 2003, c. 60.
- 3.3.2 Every person who contravenes any provision of this bylaw is considered to have committed an offence against this bylaw and is liable on summary conviction, to a fine of not more than Ten Thousand Dollars (\$10,000), and each day that such violation is caused, or allowed to continue, constitutes a separate offence.
- The Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, as amended, is further amended at PART FIVE by deleting OIL or GREASE and substituting the following definition, in alphabetical order:

Bylaw 8595 Page 3

FAT, OIL OR GREASE

means any solvent or extractable material of animal, vegetable or mineral origin, including but not limited to hydrocarbons, esters, fats, oils, waxes and high molecular weight carboxylic acids.

The Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, as amended, is further amended at PART FIVE by adding the following definitions, in alphabetical order:

BEST MANAGEMENT PRACTICES

means schedules of activities, prohibitions of practices, maintenance procedures and other management practices to prevent or reduce the discharge of fat, oil or grease into a sanitary sewer or drainage system, as outlined in Schedule C attached to and forming part of this bylaw.

BYLAW ENFORCEMENT OFFICER

means a person appointed by Council as a bylaw enforcement officer.

GREASE TRAP OR GREASE INTERCEPTOR

means a device designed and installed to separate and retain fat, oil or grease from wastewater, while permitting wastewater to discharge into a sanitary sewer or drainage system.

MAINTENANCE RECORDS

means the written documentation of the complete removal of all contents, including fat, oil or grease, floating materials, wastewater, and bottom sludge and solids, from a grease trap or grease interceptor.

OPERATOR

means a proprietor, lessee, manager, employee, or other person who carries on the operations of a facility or business on behalf of the owner of the business and includes any person managing or supervising such facility or business.

- The Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, as amended, is further amended by adding Schedule A attached to and forming part of this bylaw as Schedule C to Bylaw No. 7551.
- This Bylaw is cited as "Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, Amendment Bylaw No. 8595".

FIRST READING	CITY OF RICHMOND
SECOND READING	APPROVED for content by originating
THIRD READING	Division
ADOPTED	APPROVED for legality by Solicitor
MAYOR	CORPORATE OFFICER

SCHEDULE A to Bylaw No. 8595

SCHEDULE C to Bylaw No. 7551 BEST MANAGEMENT PRACTICES

FATS, OILS AND GREASE (FOG) CONTROL AT FOOD SECTOR ESTABLISHMENTS

All food sector establishments should implement the provisions of the following best management practices:

1) Installation of Drain Screens

Drain screens shall be installed on all drainage pipes in food preparation and kitchen areas.

Collection of Waste Cooking Oil

All **food sector establishment** employees must properly dispose of cooking oil and recycle FOG.

Disposal of Food Waste

All food waste shall be disposed of directly into the trash or garbage, and not in sinks or toilets.

4) Food Sector Establishment Employee training

Persons responsible for operating a **food sector establishment** must ensure that all employees are trained within 180 days of the effective start date of the establishment, and twice each calendar year thereafter, on the following:

- How to "dry wipe" pots, pans, dishware and work areas before washing to remove grease.
- (ii) How to properly dispose of food waste and solids prior to disposal in trash bins or containers to prevent leaking and odours.
- (iii) How to properly dispose of grease or oils from cooking equipment into a grease receptacle such as a barrel or drum without spilling.
- (iv) How to properly use a sink strainer, and remove solids from the sink strainer.

Bylaw 8650

Municipal Ticket Information Authorization Bylaw No. 7321, Amendment Bylaw No. 8650

The Council of the City of Richmond enacts as follows:

 Municipal Ticket Information Authorization Bylaw No. 7321, as amended, is further amended by deleting the following from Schedule A and substituting "INTENTIONALLY DELETED":

Column 1

Column 2

- Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551
- Bylaw Enforcement Officer
- Licence Inspector
- Municipal Ticket Information Authorization Bylaw No. 7321, as amended, is further amended by deleting the following from Schedule B and substituting "INTENTIONALLY DELETED":

SCHEDULE B 6

DRAINAGE, DYKE AND SANITARY SEWER SYSTEM BYLAW NO. 7551

Column 1	Column 2	Column 3
Offence	Bylaw Section	Fine
Oil or Grease discharge into sanitary sewer or drainage system within the City:	3.1	
First Offence		\$100
Second Offence		\$500
Third and Subsequent Offences		\$1,000

 This Bylaw is cited as "Municipal Ticket Information Authorization Bylaw No. 7321, Amendment Bylaw No. 8650".

FIRST READING		CITY OF RICHMOND
SECOND READING	<u> </u>	APPROVED for content by
THIRD READING		originating
ADOPTED	8	APPROVED for legality by Solicitor
		102
MAYOR	CORPORATE OFFICER	



Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122, Amendment Bylaw No. 8651

The Council of the City of Richmond enacts as follows:

- Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122, as amended, is further amended at Part One – Application by deleting Section 1.1 and substituting the following:
 - 1.1 This bylaw applies only to those contraventions included in the following bylaws as enacted by the City of Richmond:
 - (a) Commercial Vehicle Licencing Bylaw No. 4716, as amended;
 - (b) Traffic Bylaw No. 5870, as amended;
 - (c) Parking (Off-Street) Regulation Bylaw No. 7403, as amended;
 - (d) Newspaper Distribution Regulation Bylaw No. 7954;
 - (e) Dog Licencing Bylaw No. 7138, as amended;
 - (f) Drainage, Dyke and Sanitary Sewer System Bylaw No. 7551, as amended and that are identified in Schedule A, attached hereto and forming part of this bylaw.
- Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122, as amended, is further amended by deleting Schedule A and substituting Schedule A attached to and forming part of this bylaw as Schedule A to Bylaw No. 8122.
- This Bylaw is cited as "Notice of Bylaw Violation Dispute Adjudication Bylaw No. 8122, Amendment Bylaw No. 8651".

FIRST READING	CITY OF RICHMOND
SECOND READING	APPROVED for content by originating Division
THIRD READING	
ADOPTED	APPROVED for legality by Solicitor
MANOR	GODDOD ATT OFFICER
MAYOR	CORPORATE OFFICER

SCHEDULE A to BYLAW NO. 8651

SCHEDULE A to BYLAW NO. 8122

Designated Bylaw Contraventions and Corresponding Penalties

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A1	Α2	A3	A4	A5	A6	A7	A8
Bylaw	Description of Contravention	Section	Compliance Agreement Available	Penalty	Early Payment Option	Late Payment Amount	Compliance Agreement Discount
	Period of Time from Receipt (inclusive)		n/a	29 to 60 days	1 to 28 days	61 days or more	n/a
Traffic Bylaw	Stopping on a crosswalk	12.3 ()	No	\$ 70.00	\$ 45.00	\$ 95.00	n/a
No. 5870 (1992)	Stopping within 6 metres of a crosswalk	12.3 (k)					
	Stopping within a bus stop at an intersection	12.3 (1)					
	Stopping within 16 metres of a bus stop sign in mid block	12.3 (m)					
	Stopping on a bridge	12.3 (n)					
	Stopping within 5 metres of a fire hydrant	12.3 (o)					
	Stopping so as to obstruct a traffic sign	12.3 (r)					
	Stopping within 15 metres of a railway crossing	12.3 (s)					
	Stopping in a construction zone	12.3 (t)					
	Stopping beside a yellow curb	12.3 (u)					a a
	Parking in a lane	12.4 (a)					
	Parking on a roadway where it is practicable to park off the roadway	12.4 (b)					
	No parking zone	12.4 (c)					
	Parking abutting a centre median	12.4 (e)					
	Parking on the roadway side of a vehicle already stopped or parked	12.4 (g)					
	Parking vehicle to display for sale	12.4 (h)(i)					
	Parking vehicle for repairs on street	12.4 (h)(ii)					
	Parking vehicle to sell from vehicle	12.4 (h)(iii)					
	Parking opposite or adjacent to excavation so as to obstruct traffic	12.4 ()					
	Parking abutting elementary school between 8 am and 5 pm	12.4 (m)					
	Parking in loading zone over 5 minutes for passenger	12.4 (0)					

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A1	Α2	А3	A4	A5	A6		A7
Bylaw	Description of Contravention	Section	Compliance Agreement Available	Penalty	Early Payment Option	¥ _	Late Payment Amount
	Period of Time from Receipt (inclusive)		n/a	29 to 60 days	1 to 28 days	ys	ys 61 days or more
Traffic Bylaw No. 5870 (1992)	Remove, obliterate or otherwise interfere with any markings made by a Bylaw Enforcement Officer	35.B.1	ON.	\$ 70.00	\$ 45.00	7 1 1 2 2	\$ 95.00
Traffic Bylaw No. 5870 (1992)	Parking a commercial vehicle during prohibited hours	12.8	N _O	\$ 110.00	\$ 65.00		\$ 135.00
	Parking a commercial vehicle over 3 hours from 7 am to 7 pm	12.9					
	Parking a commercial vehicle abutting property used for residence, church, school or public park	12.10					
	Parking an unattached trailer	12.11					
	Parking in a disabled parking space without specified hanger	12.13					
Parking (Off-Street)	Parking beyond posted time limit	2.1.1 (0)	o _N	\$ 50.00	\$ 35.00		\$ 75.00
No. 7403 (2002)	Parking without valid proof of payment	5.1.2					
Parking (Off-Street) Regulation Bylaw	Parking in a reserved parking space without an authorized parking permit	2.1.1 (1)	o N	\$ 70.00	\$ 45.00		\$ 95.00
NO. 7403 (2002)	Parking in loading zone over 5 minutes for passenger	2.1.1 (g)(l)					
	Parking in loading zone over 30 minutes for materials	2.1.1 (g)(ii)					
	Stopping or parking a vehicle where prohibited	3.2.1 (c)			ľ		
	Parking outside of designated lines	3.2.1 (d)					
	Parking in an area not designated for parking	3.3.1 (b)(i)					
	Parking with expired plates or no plates	3.3.1 (b)(ii)					

A8	Compliance Agreement Discount		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
A7	Late Payment Amount		\$ 125.00	\$ 525.00	\$ 1,025.00	\$ 225.00	\$ 325.00	\$ 325.00	\$ 325.00	\$ 325.00	\$ 225.00	\$ 325.00	\$ 225.00
A6	Early Payment Option		\$ 75.00	\$ 450.00	\$ 900.00	\$150.00	\$ 250.00	\$ 250.00	\$ 250.00	\$ 250.00	\$ 150.00	\$ 250.00	\$ 150.00
AS	Penalty		\$ 100.00	\$ 500.00	\$ 1,000.00	\$ 200.00	\$ 300.00	\$ 300.00	\$ 300.00	\$ 300.00	\$ 200.00	\$ 300.00	\$ 200.00
44	Compliance Agreement Available		No No	No	o _N	o N	8	§.	_Q	o _N	ž	8	o _N
A3	Section		3.1	3.1	3.1	3.2.1	3.2.2	3.2.3	3.2.4	3.2.5	3.2.6	3.2.7	3.2.8
A2	Description of Contravention	Prohibited discharge into sanitary sewer or drainage system	First Offence	Second Offence	Third and Subsequent Offences	Failure to permit access by authorized Officer to food sector establishment	Failure to maintain and repair all grease traps or grease interceptors	Failure to have person who can provide access to grease trap or grease interceptor	Failure to maintain or produce maintenance records	Failure to limit maximum depth of fats, oils or grease in trap or interceptor	Failure to display or provide documentation on flow rate of grease trap or grease interceptor	Use of prohibited enzymes, solvents, hot water or agents in grease trap or grease interceptor	Failure to implement best management practices
F4	Bylaw	Drainage, Dyke and Sanitary Sewer	System Bylaw No.										