

REGIONAL DISTRICT OF CENTRAL OKANAGAN

BYLAW NO. 402

---

Being a bylaw to regulate the operation and use of the sanitary sewer systems of the Regional District of Central Okanagan.

---

WHEREAS it is expedient that all real property capable of being served by a sanitary sewer, should be so served and connected;

AND WHEREAS there are possible components of sewage which are detrimental to the operation and maintenance of the sewage system and must be prohibited;

AND WHEREAS it is necessary to impose charges for service connections and for sewer rentals for the maintenance of the sewerage system;

AND WHEREAS there are components which, if present in excessive concentrations, cause excessive operating and maintenance costs;

AND WHEREAS the costs to each user of the sewage system should be directly proportional to the costs to transport, treat and dispose of that user's sewage;

AND WHEREAS it is deemed necessary and expedient to regulate the operation and use of the sanitary sewer systems of the Regional District;

NOW THEREFORE, THE BOARD OF THE REGIONAL DISTRICT OF CENTRAL OKANAGAN in open meeting assembled, enacts as follows:

**SECTION 1 - ADMINISTRATION AND GENERAL REQUIREMENTS**

**1.1 Scope**

1.1.1 This bylaw provides for the regulation and use of sanitary sewers.

1.1.2 This bylaw may be cited as "Regional District of Central Okanagan Sewer User Regulation Bylaw No. 402 , 1989".

1.1.3 The provisions of this bylaw shall apply to all direct or indirect discharges to any part of the public sewerage system.

1.1.4 This bylaw, among other things, regulates the quantity and quality of discharged wastes and the degree of pretreatment required; and provides for the approval of plans for waste treatment.

**1.2 Definitions**

1.2.1 In this bylaw, unless the context otherwise requires, the following words and terms shall have the meanings hereinafter assigned to them:

"B.O.D." or "biochemical oxygen demand" means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory conditions in five (5) days at 20 degrees C, expressed in milligrams per litre as determined by the appropriate procedure in "Standard Methods".

"Building Sewer" means a pipe that is connected to a building drain 1 meter outside a wall of a building and that leads to a public sewer or private sewage disposal system.

"C.O.D." or "chemical oxygen demand" means the measure of the oxygen consuming capacity of inorganic and organic matter present in domestic or industrial wastewater as determined by the appropriate procedure described in "Standard Methods".

"District" means the Regional District of Central Okanagan or its approved agents.

"District Administrator" means the Administrator or his appointed official, of the Regional District of Central Okanagan or its appointed agent.

"Domestic wastewater" means the water carried wastes produced from non-commercial or non-industrial activities and which result from normal human living processes.

"effluent" means the liquid outflow of any facility designed to treat or convey wastewater.

"flammable liquid" means any liquid having a flash point below 38 degrees C and having a vapor pressure not exceeding 280 kPa at 38 degrees C.

"grease" means an organic substance recoverable by procedures set forth in "Standard Methods" and includes but is not limited to hydrocarbons, esters, fats, oils, waxes and high molecular carboxylic acids.

"garbage" means solid wastes from the domestic and commercial preparation, cooking, and disposing of food, and from the handling, storage and sale of produce.

"industrial wastewater" means all water carried wastes and wastewater excluding domestic wastewater and uncontaminated water, and includes all wastewater from any processing, institutional, commercial, or other operation where the wastewater discharged includes wastes of non-human origin.

"offal" means waste portions of food, animals, fowl or fish.

"person" means any person, firm, partnership or corporation, or any trustee, manager or other person owning or occupying any building or place either individually or jointly with others, and includes agent, workman or employee of such person, firm, partnership, or corporation.

"pH" means the negative logarithm to the base 10 of the weight of hydrogen ions in grams per litre of solution.

"plumbing fixture" means:

- (i) a fixture which uses water and has a separate connection to a drainage waste line, or
- (ii) a drainage waste line which is existing and not currently in use, but is capable of being connected to a fixture at some future date.

"Sanitary Sewer System" means all sewerage works and all appurtenances thereto, including sewer mains, service connections, pumping stations, treatment plants, lagoons and sewer outfalls laid within any highways, municipal right-of-way or easement and owned and operated by the Municipality and installed for the purpose of conveying, treating and disposing of domestic municipal wastes and industrial wastes.

"Service Connection" means a pipe connecting a sewer to a building sewer or to land on which building or structures are situated.

"sewage treatment plant" means any arrangement of devices and structures used for treating wastewater.

"Sewer" means a pipe, including manholes and other appurtenances other than a service connection, in the sewer system.

"Standard Methods" means the Standard Methods of Water and Wastewater Analysis (16th Edition, 1985) as published by the American Public Works Association, the American Water Works Association, and the Water Pollution Control Federation.

"Suspended Solids" means the solid matter according to particle size, expressed in milligrams per litre, in a liquid as determined according to Standard Methods.

"Uncontaminated Wastewater" means water such as spent cooling water, water discharged from a swimming pool, water used in street cleaning.

"wastewater" means the water-borne wastes of the community derived from human or industrial sources including domestic wastewater and industrial wastewater, but does not include rainwater, groundwater, or drainage of uncontaminated water.

### 1.3 Connection Requirement

1.3.1 The owner of every parcel of real property to which a service connection to the sanitary sewer system can be, or has been made, and upon which a building or structure containing a plumbing fixture is situated, may be required to connect such building or structure to the service connection.

1.3.2 In the event of any owner failing to make the required connection within ninety (90) days of being notified in writing by the District so to do, the Administrator, by his workmen or others, may have the work done at the Owner's expense, and the District may recover such expense with interest at Twelve percent (12%) per year with costs in the same manner as municipal taxes.

### 1.4 Application For Sanitary Sewer Connection

No person shall connect any building sewer to a service connection to the sanitary sewer system until he has completed an application and an agreement in the form of Schedule "A" of this bylaw and paid the connection fee set out therein. The applicant shall, in completing such form of application and agreement, provide true and accurate information as to all details called for therein.

### 1.5 Service Connections Standards

1.5.1 Every service connection shall be installed in accordance with the current District standards and shall be installed prior to the installation of every building sewer. The District shall not be responsible to meet the elevation or connect to an existing building sewer installed by the owner prior to installation of the sewer connection.

1.5.2 The Regional District of Central Okanagan or its agents shall in all cases construct the sewer connection from the main to the property line of the owner requesting service, the cost of the sewer installation shall be paid by the property owners.

#### 1.6 Building Sewer and Inspection

1.6.1 Every building sewer shall be constructed at the cost of the owner in accordance with current Provincial Plumbing Codes.

1.6.2 The owner shall notify the District as soon as the work for which a connection permit has been issued is ready for inspection and no building sewer work shall be covered until it has been inspected and passed.

1.6.3 If upon inspection it is determined that any building sewer work is defective, or that such work was not ready for inspection after notification as required by Article 1.6.2, the owner shall file a further Notice of Inspection, together with the fee of \$25.00 to cover the cost of such extra inspection.

1.6.4 The building sewer shall be maintained by the property owner at his expense.

1.6.5 Where any building sewer is abandoned, the owner shall notify the District, and the owner shall block the building sewer at the service connection with an approved watertight seal and the location of the seal shall be indicated to the District.

#### 1.7 Interference With Sewer System

1.7.1 No person shall do any work upon, or interfere in any way with the sanitary sewer system without the written permission of the District Administrator.

1.7.2 No building or obstruction of any kind shall be erected within the easement limit to allow ease of access for maintenance of sewers.

#### 1.8 Sewer Rates

1.8.1 The owner of real property connected to the sanitary sewer system shall pay the rates contained in the Sewer User Regulation Bylaw.

#### 1.9 Septic Tanks

1.9.1 No septic tank shall be connected to the sanitary sewer system.

1.9.2 No person shall permit any sludge or deposit contained in any septic tank to enter into the sanitary sewer system.

1.9.3 Whenever a sewer connection is made where a septic tank or tanks exist, the sludge or deposit in the said tank or tanks, shall be removed and hauled away. The septic tank or tanks shall then be filled with fresh earth, gravel or sand or may be broken down and removed from the property.

#### 1.10 Right of Entry

1.10.1 The District Administrator and anyone authorized by him is hereby authorized to enter upon any property or premises at any reasonable time in order to ascertain whether or not the regulations contained in this bylaw have been complied with.

- 1.10.2 Any person interfering with or obstructing the entry of the District Administrator or his accredited representative into any premises, after that person has identified himself, shall be deemed to be guilty of an infraction of this bylaw and shall be liable to the penalties thereof.
- 1.10.3 No person shall hinder or prevent the District Administrator or his accredited representative from entering and making reasonable inspection of any building or premises whenever necessary to secure compliance with, or prevent a violation of any provisions of this bylaw.

## SECTION 2 - WASTE DISCHARGE

### 2.1 Prohibited Wastes

- 2.1.1 No person shall discharge or permit to be discharged into any pipe, main, conduit, manhole, or aperture draining into the sanitary sewer system:
- a) any gasoline, benzene, naphtha, alcohol, fuel, oil, solvents, acetone or flammable or explosive liquid, solid or gas.
  - b) any pesticides, insecticides, herbicides or fungicides.
  - c) any corrosive, noxious or malodorous gas, liquid, or substance which either singly or by interaction with other wastes, is capable of:
    - (i) creating a public nuisance or hazard to life;
    - (ii) preventing entry into a sewer or pump station; or
    - (iii) causing damage to the sewerage system.
  - d) radioactive material - except within such limits as are permitted by the license issued by the Atomic Energy Control Board of Canada.
  - e) any material from a cesspool or septic tank except at authorized receiving stations.
  - f) any solid or viscous substance capable of obstructing wastewater flow or interfering with the operation of the sewerage system or treatment facilities. These substances include but are not limited to ashes, cinders, grit sand, mud, straw, grass clippings, insoluble shavings, metal, glass, rags, feathers, tar, asphalt, creosote, plastics, wood, animal paunch contents, offal, blood, bones, meat trimmings and waste, fish or fowl head, shrimp, crab or clam shells, fish scales, entrails, lard, mushrooms, tallow, baking dough, chemical residues, cannery or wine waste, bulk solids, hair and fleshings, spent grain and hops, whole or ground food or beverage containers, unground garbage, paint residues, cat box litter, slurries of concrete, cement, lime or mortar.
  - g) any storm water or uncontaminated wastewater into the sanitary sewer system.
  - h) No roof drainage, cellar drainage, surface drainage, exhaust, steam or blowoff shall be connected in any way to the District's sewer collection system.

## 2.2 Standards For Restricted Wastes

Sanitary Sewer System

2.2.1 No person shall discharge or permit to be discharged into any pipe, main, conduit, manhole, street inlet, gutter, or aperture draining into the sanitary sewer systems:

- a) any water or waste having a C.O.D. of more than 750 milligrams per litre;
- b) any water or waste having a B.O.D. of more than 500 milligrams per litre;
- c) any water or waste having a suspended solids content of more than 600 milligrams per litre;
- d) any garbage unless such garbage is from premises where food is prepared for consumption on the premises and which has been properly comminuted to 7 millimeters or less in any dimension;
- e) any liquid or vapor having a temperature higher than 65 degrees Celsius;
- f) any water or waste which contains greases, (including fats, waxes and oils as determined according to Standard Methods) whether or not emulsified, whose concentration is in excess of 150 milligrams per litre of substances derived from petroleum sources;
- g) any substance which may solidify or become discernibly viscous at temperatures above 0 degrees Celsius;
- h) any soluble waste or wastewater having a pH lower than 5.5 or higher than 9.5 or having any other corrosive property which reasonable could be hazardous to structures, equipment or personnel including, but not limited to, battery or plating acid and wastes, copper sulphate, chromium salts and compounds, or brine;
- i) any water or waste that will by itself or with other water or wastes in the sewerage system, release noxious gases, or form suspended solids in excess of 600 milligrams per litre or create any other condition deleterious to structures or treatment processes;
- j) any water or waste containing a toxic or poisonous substance in sufficient quantity to injure or interfere with any sewage treatment process, to constitute a hazard to humans or animals, or to create any hazard in the receiving waters or the effluent of the sewage treatment plant.

Without limiting the generality of this clauses the concentration of the following toxic substances at the point of discharge to a public sewer shall not exceed:

MATTER (Toxic Substances)	Concentrations in Milligrams per litre
Aluminum	50.0
Arsenic	0.5
Barium	5.0
Cadmium	.05
Chloride	1500.0
Chromium (Total)	1.0
Copper	2.0
Cyanide	1.0
Fluoride	10.0
Iron	3.0
Lead	0.5
Manganese	0.5
Mercury	.006
Nickel	3.0
Phenolic compounds	1.0
Phosphorus	50.0
Silver	1.0
Sulphate	1500.0
Sulphide	2.0
Tin	5.0
Zinc	4.0

- k) any water or waste added for the purpose of diluting wastes which would otherwise exceed applicable maximum concentrations;
- l) any material which exerts or causes:
- (i) unusual concentrations of inert suspended solids, such as but not limited to fuller's earth;
  - (ii) unusual concentrations of dissolved solids such as but not limited to sodium chloride, calcium chloride or sodium sulphate;
  - (iii) excessive discoloration such as but not limited to dye wastes or vegetable canning solutions.
- m) any water or waste containing substances in such concentrations that are not amenable to treatment or reduction by the sewage treatment process employed, or are amenable to treatment only to such a degree that the sewage treatment plant effluent cannot meet the requirement of any other agency having jurisdiction over discharges to the receiving waters.

### 2.3. Accidental Discharges

- 2.3.1 Every person responsible for the accidental discharge of prohibited substances into the sanitary sewer system shall report the same immediately to the District Administrator in order that the necessary precautions can be taken to minimize the deleterious effects of the discharge.

**SECTION 3 - ADDITIONAL REQUIREMENTS FOR CONNECTION  
TO THE SEWERAGE SYSTEM****3.1 Wastewater Treatment Facilities**

- 3.1.1 Any industrial wastewaters likely to damage or increase maintenance costs on the sewerage system or which may detrimentally affect the sewage treatment plant; or contaminate surface or sub-surface waters, shall be pretreated to render them innocuous prior to discharge into a public sewer.
- 3.1.2 Discharges of liquid wastes exceeding the strength, nature, quantity or quality permitted by this bylaw, shall be treated in a facility designed, constructed and operated so as to fulfill all of the requirements of this bylaw.
- 3.1.3 All details pertaining to the treatment process or processes, capacity, location, materials, equipment, methods of construction and all operational procedures and methods of process control of treatment facilities shall be approved by the District Administrator before any portion of such facilities is installed.
- 3.1.4 All wastewater treatment facilities must be kept clear of obstructions so as to provide immediate access for inspection and servicing.

**3.2 Design Requirements For Connecting To The Sewerage System**

- 3.2.1 Where an owner or occupier of premises upon which an industrial or commercial activity is proposed or is carried on wishes to connect these premises to the sewerage system he shall comply with Article 3.2.3. herein.
- 3.2.2 Where an owner or occupier intends to expand an industrial or commercial activity so that the quantity, biochemical oxygen demand, suspended solids concentration or grease concentration of the sewage will be increased, he shall comply with Article 3.2.3 herein.
- 3.2.3 Except as provided in Article 3.2.4, the owner shall supply to the District Administrator plans and reports certified by a professional engineer indicating:
- a) the proposed or existing development or addition, including flow schematic drawing,
  - b) the daily volumes and peak discharges,
  - c) the type of waste to be processed or discharged,
  - d) the anticipated biochemical oxygen demand and the amount of suspended solids or grease,
  - e) the pH factor and temperature of the wastewater,
  - f) toxic chemicals contained in the wastewater,
  - g) the proposed pretreatment, including dimensions of the proposed facility,
  - h) flow equalizing or mixing facilities,
  - i) the location of sampling manhole,
  - j) the monitoring equipment,



k) any other information deemed necessary by the District Administrator.

- 3.2.4 The District Administrator may deal with the application and make a decision thereon without the above information if in his opinion the nature of the application is such that a decision can be properly made without such information.
- 3.2.5 Grease and oil interceptors shall be provided upstream of the service connection on private property for all food preparation facilities including restaurants, canning operations, killing and processing facilities.
- 3.2.6 Grease, oil and sand interceptors shall be provided upstream of the service connection on private property for all garages and gasoline service stations. Interceptors will be required for other types of industries or commercial establishments as appropriate for the proper handling of liquid waste containing grease in excessive amounts or any flammable wastes, sand, grit or other harmful ingredients. Such interceptors shall be so located as to be readily and easily accessible for cleaning and inspection. All interceptors shall be maintained by the owner at his expense in continuously efficient operation at all times.
- 3.2.7 Separate sand traps and oil and grease interceptors shall be provided upstream of the service connection on private property for all establishments which provide car, vehicle, or equipment washing facilities. Sand traps shall be located upstream from the oil and grease interceptors, and shall have a minimum liquid depth of 1 metre and a maximum overflow rate of 8 L/m/m<sup>2</sup> under peak flow conditions. Sand and silt shall be removed from sand traps before these materials occupy 25 percent of the liquid depth. Accumulated oil and greases shall be skimmed off the surface of the interceptors and other sumps often enough to prevent these materials from escaping to the sewer.

### 3.3 Volume Control

- 3.3.1 Where wastewater is discharged into the sewerage system in volumes which are highly variable or unusual, the owner or occupier shall ensure that discharges do not exceed the limits on flow volumes set by the District Administrator.
- 3.3.2 Equipment necessary to comply with sentence 3.3.1 shall be provided, maintained and operated by the owner or occupier of such premises in a manner satisfactory to the District Administrator.

## SECTION 4 - CONTROL OF INDUSTRIAL WASTES

### 4.1 Special Control Manholes

- 4.1.1 Any property discharging industrial wastewater to the public sewer shall have installed a control manhole at an accessible location and suitable for the inspection and sampling of the discharged waters.
- 4.1.2 The design and location of the control manhole shall be approved by the District Administrator.
- 4.1.3 The control manhole shall be installed and maintained at the sole expense of the owner of the premises and shall be accessible at all times to the District Administrator.
- 4.1.4 All industrial wastewater discharged to public sewers shall first pass through the control manholes.

- 4.1.5 The control manhole shall conform with the District's standard 1200mm dia sewer manhole. The standard cast iron frame and cover will be acceptable.

The control manhole shall be located on a straight run of service extending from 3 metres upstream of the manhole to 2 metres downstream. The section of service on which the manhole is located shall have a gradient not exceeding 2 percent. A permanent style Palmer Bowlus flume flow meter shall be installed as an integral part of the control manhole, and shall be sized to suit the peak design flows.

- 4.1.6 Where installation of a control manhole is not possible, an alternative device or facility may be substituted if approved by the District Administrator.

#### 4.2 Monitoring of Wastewater

- 4.2.1 Should any testing of wastewater show that it is not in compliance with this bylaw, the District Administrator, in addition to any other provision of this bylaw may direct the owner to so comply with the bylaw and may, in addition, direct the owner at his expense to install such automatic monitoring and recording equipment as the District Administrator deems necessary and supply the results of such monitoring to the District Administrator.

- 4.2.2 All tests, measurements, analyses and examinations of wastewater, its characteristics or contents shall be carried out in accordance with "Standard Methods".

- 4.2.3 Sampling shall be carried out by methods acceptable to the District Administrator. Normally the Analyses will be performed on samples composited by volume. Values for pH will be determined from samples composited over a short period of time.

#### 4.3 Control of Waste Disposal

- 4.3.1 The District Administrator may at any time require a person who intends to dispose of wastes of liquids, semi-liquid or solid nature to show proof that these wastes are being stored and subsequently disposed of in a place and manner which is acceptable to the District Administrator; the information must also include method of packaging, storing and transporting of the waste.

- 4.3.2 The District Administrator may require a person to provide an analysis, prepared by a qualified chemist, of the waste referred to in Article 4.3.1.

### SECTION 5 - PROTECTION OF PUBLIC SEWERAGE SYSTEM

#### 5.1 Disconnection of Sewer

- 5.1 Where any wastewater which:

- a) is hazardous or creates an immediate danger to any person, or
- b) endangers or interferes with the operation of the sewerage system is discharged to the sewerage system, the District Administrator may, in addition to any action provided for in this bylaw, disconnect, plug or seal off the sewer line discharging the unacceptable wastewater into the sewerage system or take such other action as is necessary to prevent such wastewater from entering the sewerage system.

- 5.1.2 The unacceptable wastewater described in sentence 5.1.1 may be prevented from being discharged into the sewerage system until evidence satisfactory to the District Administrator has been produced to ensure that no further discharge of hazardous wastewater will be made to the sewerage system.
- 5.1.3 The owner or occupier of the land from which the wastewater described in Article 5.1.2 herein is being discharged shall pay the costs incurred by the District in taking all necessary action relative to the sewer disconnection and/or reconnection.
- 5.1.4 The costs incurred in Article 5.1.3 shall be in addition to and not in substitution for any fine or other penalty to which the owner or occupier of the premises in question may be subject pursuant to the provisions of this bylaw.
- 5.1.5 The sewer shall not be reconnected until the costs in Article 5.1.3 are paid.
- 5.2 Recovery of Costs for Damage to the Public Sewerage System
  - 5.2.1 Where any person contravenes any provision of this bylaw and thereby causes damage to the sewerage system, such person shall be liable to the District for all costs incurred in making repairs or taking remedial action.
  - 5.2.2 If such costs are not paid forthwith after demand, the District may recover the same by action in any court of competent jurisdiction.

**SECTION 6 - OFFENCES AND PENALTIES**

**6.1 Offences**

- 6.1.1 Every person who violates any of the provisions of this bylaw or who suffers or permits any act or thing to be done in contravention or in violation of any of the provisions of this bylaw, or who neglects to do or refrains from doing anything required to be done by any of the provisions of this bylaw, or who does any act which violates any of the provisions of this bylaw is guilty of an offence against this bylaw and liable to the penalties hereby imposed.
- 6.1.2 Each day that a violation, contravention or breach is permitted to exist shall constitute a separate offence.

**6.2 Penalties**

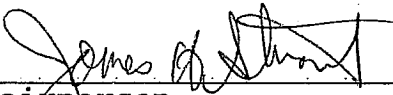
- 6.2.1 Every person who commits an offence against this bylaw is liable to a fine and penalty of not less than \$2,000.00 for each offence, and in default of payment thereof or, in the alternative, to imprisonment for any period not exceeding two months.
- 6.2.2 Every person who commits an offence of a continuing nature is liable to a fine not less than \$50.00 for each day such offence is continued. This bylaw shall come into force and take effect on and after the date of the passing hereof.

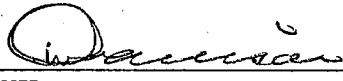
READ A FIRST TIME THIS 2nd DAY OF OCTOBER, 1989.

READ A SECOND TIME THIS 2nd DAY OF OCTOBER, 1989.

READ A THIRD TIME THIS 2nd DAY OF OCTOBER, 1989.

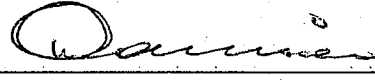
RECONSIDERED AND ADOPTED THIS 28th DAY OF May, 1990.

  
\_\_\_\_\_  
Chairperson

  
\_\_\_\_\_  
Secretary

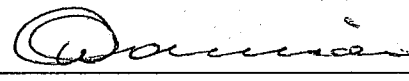
I hereby certify the foregoing to be a true and correct copy of Bylaw No. 402, cited as "Regional District of Central Okanagan Sewer User Regulation Bylaw No. 402, 1989" as read a third time by the Regional Board on the 2nd day of October, 1989.

Dated at Kelowna, B.C. this 5th day of October, 1989.

  
\_\_\_\_\_  
Secretary

I hereby certify the foregoing to be a true and correct copy of Bylaw No. 402, cited as "Regional District of Central Okanagan Sewer User Regulation Bylaw No. 402, 1989" as adopted by the Regional Board on the 28th day of May, 1990.

Dated at Kelowna, B.C. this 30th day of May, 1990.

  
\_\_\_\_\_  
Secretary

SCHEDULE 'A'

APPLICATION FOR SEWER SERVICE

Application Date: \_\_\_\_\_

Legal Description of Lot: \_\_\_\_\_

Lot # \_\_\_\_\_ Plan # \_\_\_\_\_

District Lot # \_\_\_\_\_

Owner's name \_\_\_\_\_

Mailing Address \_\_\_\_\_

Date Service Required \_\_\_\_\_

Type of Premises to be Served \_\_\_\_\_

New Service \_\_\_ (Check) Connection Fee \$50 plus installation cost

Connection to existing service \_\_\_ (Check) Connection Fee \$50

Reconnection \_\_\_ (Check) Reconnection Fee \$50

I hereby agree to comply with all requirements and provisions of the "Regional District of Central Okanagan Sewer Use Regulation Bylaw No. 402 1989" and amendments thereto.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Owner (Agent)

See attached 23