

CITY OF
LANGLEY



EXPLANATORY MEMO

DRINKING WATER CONSERVATION PLAN BYLAW, 2017 No. 3037

PURPOSE:

To regulate the consumption of water in accordance with the Metro Vancouver Drinking Water Conservation Plan.



CITY OF LANGLEY

DRINKING WATER CONSERVATION PLAN

BYLAW NO. 3037

A bylaw to regulate the consumption of Water in accordance with the Metro Vancouver Drinking Water Conservation Plan

WHEREAS the Metro Vancouver Drinking Water Conservation Plan is based on four key principles:

1. Recognize drinking water as a precious resource that must be conserved;
2. Maintain the environmental economic vitality and health and safety of the region to the extent possible in the face of a water shortage;
3. Optimize available water supplies and reduce water use;
4. Minimize adverse impacts to public activity and quality of life for the region's residents.

The Council of the City of Langley, in open meeting assembled, ENACTS AS FOLLOWS:

Part 1 Definitions and Administration

1.1 This bylaw may be cited as "Drinking Water Conservation Plan Bylaw, 2017, No. 3037".

1.2 In this bylaw:

Aesthetic Cleaning means the use of water for cleaning when it is not for a health or safety reason.

Aesthetic Water Feature means a fountain, pond, or other water feature that primarily serves an aesthetic purpose. It does not include ponds that contain fish.

Automatic Shut-off Device means a device attached to a water hose that shuts off the supply of water automatically unless hand pressure is applied to operate the device.

City means the City of Langley.

Commercial Cleaning Operation means a company, partnership or person that offers commercial cleaning services, including pressure washing, window cleaning and other similar building cleaning services, to the public for a fee.

Commercial vehicle washing means commercial vehicle washing services offered to the public for a fee, but excludes car dealerships, fleet vehicle washing facilities, and charity car washes.

Commissioner means the Commissioner of Metro Vancouver.

Drip Irrigation means an irrigation system that delivers water directly to the root zone of the plant at a low flow rate through individual emission points (emitters) using droplets of water and excludes sprinkler irrigation systems, micro-spray systems, misting systems, and soaker hoses.

Edible Plant means a plant grown for the purpose of human consumption.

Engineer means the Director of Engineering, Parks, and Environment or his or her designate.

Golf Course means the greens, tee areas, and fairways that are designed and maintained as playing surfaces for golf, but does not include rough areas or lawns that are not maintained as playing surfaces.

GVWD means the Metro Vancouver.

Impermeable Surface means a material added to the surface of the ground, or on the exterior of a building or structure that is impermeable to water, including but not limited to glass, wood, concrete, asphalt, paving stones and other similar materials.

Lawn means a cultivated area surrounding or adjacent to a building that is covered by grass, turf, or a ground cover plant such as clover, including areas such as boulevards, parks, school yards and cemeteries, but excluding golf courses, soil-based playing fields, and sand-based playing fields.

New Lawn means a lawn that is newly established either by seeding or laying of new sod or turf.

Permit means a permit issued under Part 5 of the bylaw.

Public Announcement means an advertisement or public service announcement in any one of mediums:

- (a) a television or radio broadcast from a station that broadcasts to the City or
- (b) a newspaper or other publication intended for general circulation, including one that is distributed without charge to the reader that contains news and advertising, and is distributed within the City at least once per week.

Restriction Stage means Stage 1 Restrictions, Stage 2 Restrictions, Stage 3 Restrictions, or Stage 4 Restrictions.

Stage 1 Restrictions means the restrictions on Water use described in Stage 1 Water Restrictions of Schedule A.

Stage 2 Restrictions means the restrictions on Water use described in Stage 2 Water Restrictions of Schedule A.

Stage 3 Restrictions means the restrictions on Water use described in Stage 3 Water Restrictions of Schedule A.

Stage 4 Restrictions means the restrictions on Water use described in Stage 4 Water Restrictions of Schedule A.

Sand-based Playing Field means a playing field that is constructed with a highly permeable sand-based root zone typically 30 to 40 centimetres deep over a drainage system with drain pipes bedded in gravel, and is designed and maintained to be playable year-round.

Soaker Hose means a garden hose or pipe with small holes that allows water to seep into the ground to the roots of plants, discharging water through the entire length of its porous surface.

Soil-based Playing Field means a playing field that is covered with grass, sod or turf that is designed and maintained to be played upon, or that is used for sporting or other community events and activities, but does not include lawns, golf courses, or sand-based playing fields.

Water used as a noun means Water supplied directly or indirectly by GVWD or the City, whether or not mixed with rain Water, gray Water or recycled Water.

Water used as a verb, and "Watering" or "Watered", mean the application or distribution of Water (used as a noun) to lands or plants but does not include Drip Irrigation.

Water Management Plan means a plan proposed by the owner or operator of a golf course, soil-based playing field, and sand-based playing field operators and approved by the City of Langley. The plan sets out terms

such as water use targets during the different stages of the DWCP, restrictions to reduce water use, and reporting requirements for the owner or operator.

Water Play Park means a recreational facility that is primarily outdoors, including spray pools and wading pools, spray parks, splash pads, and water slides.

Watering Lawn means applying water to a lawn with any device or tool including but not limited to a sprinkler, hose, mister, or drip irrigation.

1.3 Schedule A – Restriction Stages is attached to and forms part of the bylaw.

1.4 The Engineer is authorized to administer this Bylaw.

Part 2 Declaration and Announcement of Restriction Stages

2.1 Stage 1 Restrictions come into effect automatically on May 1 every year.

2.2 Stages 2, 3 and 4 are activated and deactivated by the GVWD Commissioner. Metro Vancouver will alert local governments of the decision within 24 hours.

2.3 The GVWD Commissioner has the authority to activate, extend or deactivate stages at any time.

2.4 The Restriction Stages set out in section 2.2 comes into force 72 hours after the City has made a Public Announcement of the declaration which contains the information set out in Schedule 1 for that Restriction Stage coming into force and the date when the Restriction Stage ceases to be in force.

2.5 When a Restriction Stage comes into force, a Restriction Stage that had been in force, if any, ceases to be in force.

2.6 A Restriction Stage ceases to be in force after October 15 each year; unless the Commissioner declares that a Restriction Stage will come into force or continue to be in force after October 15.

Part 3 Restrictions by the City

3.1 If the Engineer deems it to be in the public interest, the Engineer may direct that any less essential service be reduced or curtailed until the Engineer is of the opinion that it is advisable to restore the service.

3.2 The Engineer may impose the restrictions under 3.1 in any part of the City including the whole of the City.

3.3 The restrictions under 3.1 come into force 72 hours after the City makes a Public Announcement of the restrictions.

Part 4 Water Management Plan

- 4.1 An owner or operator of a golf course or an operator of a soil-based or sand-based playing field may apply in writing to the Engineer for approval of a Water Management Plan which indicates:
- (a) the volume of Water historically consumed from the first day of May 1st to October 15th of each year;
 - (b) the volume of Water to be consumed from May 1st to October 15th of each year under the proposed Water Management Plan;
 - (c) the measures to be followed by the operation to conserve Water and to reduce the use of Water;
 - (d) the schedule for Watering specified areas within the operation for each Restrictions Stage, except Stage 4;
 - (e) reporting of actual Water use to the Engineer not less than once per month when Stage 1 Restrictions or Stage 2 Restrictions are in force, and not less than once every two weeks when Stage 3 Restrictions are in force; and
 - (f) any other information, commitments, conditions or restrictions the Engineer may require.
- 4.2 The Engineer may:
- (a) approve the Water Management Plan in whole or in part;
 - (b) amend the Water Management Plan; or
 - (c) impose additional commitments, conditions and restrictions that the Engineer considers advisable.
- 4.3 If an applicant agrees to adopt the Water Management Plan as approved by the Engineer and to comply with the commitments, conditions and restrictions in the Water Management Plan, the applicant will indicate his or her consent in writing and will specify the date on which the applicant will adopt the Water Management Plan.
- 4.4 The Water Management Plan will come into effect on the date specified in the written consent under section 4.3, or on the date on which the Engineer receives the written consent, whichever is later.
- 4.5 If an applicant does not agree to adopt the Water Management Plan as approved by the Engineer, the Water Management Plan is not in force and the Restriction Stages in this bylaw apply.
- 4.6 The Engineer may terminate or suspend a Water Management Plan by notifying the owner or operator in writing at least seven days before the termination or suspension date.
- 4.7 An owner or operator may terminate a Water Management Plan by notifying the Engineer in writing on the date specified in the written termination or the date on which the Engineer receives the written termination, whichever is later.

- 4.8 Any and all Water Management Plan noncompliance issues will be considered an infraction under this bylaw.

Part 5 Permit

- 5.1 A person who:
(a) installs a new lawn, either by seeding or by placing sod or turf; or
(b) wishes to apply nematodes to an existing lawn
may apply to the Engineer for a Permit authorizing the applicant to Water when Stage 1 Restrictions or Stage 2 Restrictions are in force at the premises, during the times, and for the duration specified in the Permit.
- 5.2 The Engineer may issue a Permit to the applicant upon payment of the applicable fee as set out in the City's Fees and Charges Bylaw, together with proof of purchase of sod, seed or nematodes.
- 5.3 The Permit issued under 5.2 will expire 21 days after the date of issue unless the Person has received an extension for the Permit or Stage 4 Restrictions come into effect. Permits issued for nematode application may not be renewed.
- 5.4 Before or after the expiration of a Permit issued under section 5.2(a), a person may apply for one 21 day extension of the Permit on the same terms and conditions as may be imposed under section 5.2.
- 5.5 A Permit issued under section 5.2(b) for nematode application shall expire and be of no force or effect 21 days after the date of its issue. Permits issued for nematode application may not be renewed.
- 5.6 In the event that Stage 3 Restrictions are announced, a person who has a Permit which was issued in Stages 1 Restrictions or Stage 2 Restrictions will be in effect until the Permit expires. No new Permits or Permit extensions will be issued in Stage 3.
- 5.7 A person who has a Permit is subject to the Stage 4 Restrictions. No permits will remain in effect in Stage 4, and no permits will be issued or extended during Stage 4 restrictions.
- 5.8 A person who has a Permit must fix the Permit to a post on the premises facing the street, beside the principal driveway so that it is visible from the street.
- 5.9 The Engineer may revoke a Permit issued under this section for any reason.

Part 6 Offences and Penalties

- 6.1 A person who contravenes any of the provisions of this Bylaw, or who suffers or permits any act or thing to be done in contravention or violation of, or neglects to do or refrains from doing anything required to be done pursuant to any provision of this bylaw and shall be liable, upon summary conviction, to a fine of:
- (a) not less than \$3,000 but not more than \$10,000 for a first conviction for an offence;
 - (b) not less than \$5,000 but not more than \$10,000 for a second or subsequent conviction for an offence;
 - (c) not less than \$5,000 for conviction of an offence by a commercial entity for offence committed while Stage 4 Restrictions are in force, whether or not the commercial entity has a Water Management Plan in effect.
- 6.2 Section 6.1 (b) applies whether or not a second or subsequent conviction is for conduct that preceded the conduct that is the subject matter of the conviction before the court.
- 6.3 Each day of a violation, contravention or breach of this Bylaw shall constitute a separate and distinct offence.

Part 7 General Exemption for Local Government for Health and Safety Reasons

- 7.1 Notwithstanding the activation of any stage of water restrictions, the City of Langley may use water and is exempt from the water restrictions applicable to that stage, where use of water is needed to carry out activities needed for the purpose of protecting public health and safety.

Part 8 Severability

- 8.1 If any portion of this bylaw is declared invalid by a court of competent jurisdiction, then the invalid portion must be severed and the remainder of the bylaw is deemed valid.

Part 9 Repeal

- 9.1 The City's Water Shortage Response Plan Bylaw 2005, No. 2589 and all amendments thereto are repealed.

READ A FIRST, SECOND AND THIRD TIME this fourth day of December, 2017.

ADOPTED this day of , 2017.

MAYOR

CORPORATE OFFICER



CITY OF LANGLEY
DRINKING WATER CONSERVATION PLAN

BYLAW NO. 3037

Schedule “A” – Restriction Stages

GENERAL RESTRICTIONS FOR ALL STAGES (1 THROUGH 4)

- 1) All hoses must have an automatic shut-off device.
- 2) Water must not unnecessarily run off on impermeable surfaces such as driveways, curbs, pathways, or gutters when watering lawns and plants.
- 3) Artificial playing turf and outdoor tracks must not be watered except for a health or safety reason.
- 4) Hoses and taps must not run unnecessarily.
- 5) Irrigation systems must not be faulty, leaking, or misdirected.

STAGE 1 WATER RESTRICTIONS

Stage 1 comes into effect automatically each year – on May 1 until October 15 – to prevent drinking water wastage and ensure water users employ efficient and effective watering practices.

User	Water Use	Restriction
RESIDENTIAL	Watering lawns	Even-numbered civic addresses: on Wednesdays and Saturdays from 4 am to 9 am Odd-numbered civic addresses: on Thursdays and Sundays from 4 am to 9 am
	Watering new lawns or lawns being treated for the European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 4 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation

User	Water Use	Restriction
NON-RESIDENTIAL	Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non-residential watering times)	Even-numbered civic addresses: on Mondays from 1 am to 6 am and on Fridays from 4 am to 9 am Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am and on Fridays from 4 am to 9 am
	Watering new lawns or lawns being treated for European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 1 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation
User	Water Use	Restriction
GOVERNMENTS/ SCHOOLS/PARKS	Watering lawns and grass boulevards	Even-numbered civic addresses: on Mondays from 1 am to 6 am and on Fridays from 4 am to 9 am Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am and on Fridays from 4 am to 9 am
	Watering new lawns or lawns being treated for the European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 1 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation
	Watering soil-based playing fields	On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Watering sand-based playing fields	On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Flushing water mains	Prohibited

STAGE 2 WATER RESTRICTIONS

Stage 2 restrictions conserve drinking water to ensure the existing supply will last until the return of seasonal rainfall or until the water shortage situation is over. These restrictions are designed to conserve enough drinking water to avoid or delay moving to Stage 3 as long as possible.

User	Water Use	Restriction
RESIDENTIAL	Watering lawns	Even-numbered civic addresses: on Wednesdays from 4 am to 9 am Odd-numbered civic addresses: on Thursdays from 4 am to 9 am
	Watering new lawns or lawns being treated for the European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 4 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation
	Washing impermeable surfaces	Prohibited except if: <ul style="list-style-type: none"> - For a health or safety reason - Preparing a surface for painting or similar treatment - Aesthetic cleaning by a commercial cleaning operation
	Topping up or filling aesthetic water features	Prohibited

User	Water Use	Restriction
NON-RESIDENTIAL	Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non- residential watering times)	Even-numbered civic addresses: on Mondays from 1 am to 6 am Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am
	Watering new lawns or lawns being treated for the European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 1 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation
	Watering golf courses	Fairways watering anytime on any one day in a 7-day period, except if operating under an approved local government water management plan
	Washing impermeable surfaces	Prohibited except if: <ul style="list-style-type: none"> - For a health or safety reason - Preparing a surface for painting or similar treatment - Aesthetic cleaning by a commercial cleaning operation
	Topping up or filling aesthetic water features	Prohibited

User	Water Use	Restriction
GOVERNMENTS/SCHOOLS/PARKS	Watering lawns and grass boulevards	Even-numbered civic addresses: on Mondays from 1 am to 6 am Odd-numbered civic addresses: on Tuesdays from 1 am to 6 am
	Watering new lawns or lawns being treated for the European Chafer Beetle	Outside restricted lawn watering times if in compliance with a local government permit
	Watering trees, shrubs, and flowers excluding edible plants	On any day from 1 am to 9 am if using a sprinkler On any day at any time if using a handheld hose, soaker hose, water container, or drip irrigation
	Watering soil-based playing fields	No more than 4 days in a 7-day period from 7 pm to 9 am, except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Watering sand-based playing fields	On any day from 7 pm to 9 am, except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Flushing water mains	Prohibited
	Operating water play parks and pools	Prohibited except water play parks with user-activated switches
	Topping up or filling aesthetic water features	Prohibited

PART 3 – STAGE 3 WATER RESTRICTIONS

Stage 3 restrictions respond to serious drought conditions, or other water shortage, and achieve further reductions in drinking water use by implementing a lawn watering ban and additional stricter measures.

User	Water Use	Restriction
RESIDENTIAL	Watering lawns	Prohibited
	Watering new lawns or lawns being treated for the European Chafer Beetle	Local government permits issued in Stages 1 or 2 remain in effect until permit expires No new permits issued or renewed
	Watering trees, shrubs, and flowers excluding edible plants	Prohibited if using a sprinkler or soaker hose On any day at any time if using a handheld hose, water container, or drip irrigation
	Washing impermeable surfaces	Prohibited except if: <ul style="list-style-type: none"> - For a health or safety reason - Preparing a surface for painting or similar treatment by a commercial cleaning operation
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, license plates, and boat engines for safety

User	Water Use	Restriction
NON-RESIDENTIAL	Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non- residential watering times)	Prohibited
	Watering new lawns or lawns being treated for the European Chafer Beetle	Local government permits issued in Stages 1 or 2 remain in effect until permit expires No new permits issued or renewed
	Watering trees, shrubs, and flowers excluding edible plants	Prohibited if using a sprinkler or soaker hose On any day at any time if using a handheld hose, water container, or drip irrigation
	Watering golf courses	Fairways watering prohibited except if operating under an approved local government water management plan
	Washing impermeable surfaces	Prohibited except if: <ul style="list-style-type: none"> - For a health or safety reason - Preparing a surface for painting or similar treatment by a commercial cleaning operation
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited except for pools and hot tubs with a permit to operate in accordance with health authorities having jurisdiction over pool and hot tub regulation
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety
	Commercial vehicle washing	Prohibited except if: <ul style="list-style-type: none"> - A facility that installed an automatic vehicle wash system before November 1, 2017, is operating on a basic wash and rinse cycle only - A facility that installed an automatic vehicle wash system after November 1, 2017, is operating using a water recycling system that achieves a minimum 60% water recovery rate over the full wash cycle A hand wash and self-service facility, is operating using high-pressure wands or brushes that achieve a maximum flow rate of 11.4 litres per minute

User	Water Use	Restriction
GOVERNMENTS/SCHOOLS/PARKS	Watering lawns and grass boulevards	Prohibited
	Watering new lawns or lawns being treated for the European Chafer Beetle	Local government permits issued in Stages 1 or 2 remain in effect until permit expires No new permits issued or renewed
	Watering trees, shrubs, and flowers	Prohibited if using a sprinkler or soaker hose On any day at any time if using a handheld hose, water container, or drip irrigation
	Watering soil-based playing fields	No more than 3 days in a 7-day period from 7 pm to 9 am except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Watering sand-based playing fields	No more than 5 days in a 7-day period from 7 pm to 9 am, except if: <ul style="list-style-type: none"> - Watering newly over-seeded fields if in compliance with a local government permit - Operating under an approved local government water management plan
	Flushing water mains	Prohibited
	Operating water play parks	Prohibited except water play parks with user-activated switches
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited except for pools and hot tubs with a permit to operate in accordance with health authorities having jurisdiction over pool and hot tub regulation
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety

PART 4 – STAGE 4 WATER RESTRICTIONS

Stage 4 is an emergency stage that limits both indoor and outdoor water uses as much as possible to ensure an adequate supply of drinking water for human consumption, use in firefighting and to protect the quality of drinking water within the water system for public health.

Stage 4 is activated based on the rare occurrence of a significant emergency, such as an earthquake, flood, wild land and interface fire, severe weather, or a prolonged regional power outage that causes significant impacts to the water system infrastructure (e.g. damage to major water transmission lines, pump stations, or treatment plants).

In addition to the following outdoor water restrictions, Metro Vancouver could request that industrial water users implement voluntary reductions or reschedule production processes that consume large amounts of water until Stage 4 is deactivated.

User	Water Use	Restriction
RESIDENTIAL	Watering lawns	Prohibited
	Watering new lawns or lawns being treated for the European Chafer Beetle	All local government permits issued for lawn watering are invalidated
	Watering trees, shrubs, flowers and edible plants	Prohibited
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited
	Washing impermeable surfaces	Prohibited except if ordered by a regulatory authority having jurisdiction for a health or safety
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety

User	Water Use	Restriction
NON-RESIDENTIAL	Watering lawns (mixed-use buildings e.g. residential and commercial should follow Non- residential watering times)	Prohibited
	Watering new lawns or lawns being treated for the European Chafer Beetle	All local government permits issued for lawn watering are invalidated
	Watering trees, shrubs, flowers and edible plants	Prohibited
	Watering golf courses	Prohibited
	Washing impermeable surfaces	Prohibited except if ordered by a regulatory authority having jurisdiction for health or safety
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety
	Commercial vehicle washing	Prohibited

User	Water Use	Restriction
GOVERNMENTS/SCHOOLS/PARKS	Watering lawns and grass boulevards	Prohibited
	Watering new lawns or lawns being treated for European Chafer Beetle	All local government permits issued for lawn watering are invalidated
	Watering trees, shrubs, flowers and edible plants	Prohibited
	Watering soil-based playing fields	Prohibited
	Watering sand-based playing fields	Prohibited
	Flushing water mains	Prohibited
	Operating water play parks	Prohibited
	Topping up or filling aesthetic water features	Prohibited
	Topping up or filling pools and hot tubs	Prohibited
	Washing vehicles and boats	Prohibited except to clean windows, lights, mirrors, licence plates, and boat engines for safety