

THE CORPORATION OF THE TOWN OF COBALT

BY-LAW NO. 2023-25

Being a By-Law to Adopt a Water Utilities Management Policy for the Corporation of the Town of Cobalt

WHEREAS under Section 11 of the Municipal Act, 2001, S.O. 2001, c.25, as amended, provides that Council may pass By-Laws respecting matters related to water production, treatment, storage and distribution;

AND WHEREAS Section 79 of the Municipal Act, 2001, S.O. 2001, c.25, as amended, provides that if a municipality has the consent of an owner or occupant to connect a public utility to a part of a building and other parts of the building belong to different owners or are in the possession of different occupants, the municipality may, at reasonable times, without consent, enter on their land and install, construct and maintain pipes, equipment, machinery and other works necessary to make the connection;

AND WHEREAS Section 80 of the Municipal Act, 2001, S.O. 2001, c.25, as amended, provides that a municipality may, at reasonable times, enter on land to which it supplies a public utility:

- to inspect, repair, alter or disconnect the service pipe or wire, machinery, equipment and other works used to supply the public utility; or
- to inspect, install, repair or alter a public utility meter; or
- to shut off the supply or the public utility; or
- to determine whether the public utility has been or is being unlawfully used.

NOW THEREFORE the Council of the Corporation of the Town of Cobalt hereby enacts as follows:

- 1. That Council adopts a "*Water Utilities Management Policy*" By-Law identified as Schedule "A", hereto attached and forming part of this By-Law.
- 2. That By-Law 1989-015, as amended, is hereby repealed.
- 3. That the Clerk of the Town of Cobalt is hereby authorized to make any minor modifications or corrections of an administrative, numerical, grammatical, semantically or descriptive nature of kind to the By-Law and Schedule as may be deemed necessary after the passage of this By-Law, where such modifications or corrections do not alter the intent of the By-Law.

4. That this By-Law shall take force and effect upon final passage hereof.

READ a first and second time this 19th day of September 2023;

Mayor

Clerk

READ a third time and finally passed this 17th day of October 2023;

AND FURTHER THAT the said By-Law be signed and sealed by the Mayor and Clerk.

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Clerk



Schedule "A" to

By-Law No. 2023-25

Water Utilities Management Policy

PART 1 TITLE

1.1 This By-Law shall be cited as the "Water Utilities Management Policy".

PART II DEFINITIONS AND INTERPRETATIONS

- 2.1 For purposes of this By-Law, the following definitions shall apply:
 - a. "bleeder" shall mean a device installed by the Town of Cobalt in the water system to provide for a continuous flow of water in order to prevent freezing;
 - b. "combined service" means a service connection used or intended to be used to supply water for fire protection, as well as water for purposes other than fire protection;
 - c. "commercial" shall mean all premises within the Municipality which are not building projects or dwelling units;
 - d. "consumer" shall mean the registered owner, purchaser, occupant or other person in charge of the land or building to which water is being supplied by the Town of Cobalt, and in whose name a water billing account has been established;
 - e. "curb stop box box" shall mean the casing and stem attached to the curb stop box to facilitate the turning-on and turning-off of the service connection;
 - f. "dwelling unit" shall mean any building occupied or used as living quarters.
 - g. "Municipal Administrator" shall mean the Town Manager for the Town of Cobalt, or their designate;
 - Municipal Official" shall mean the employee(s) of the Town of Cobalt charged with the responsibility of maintaining or administering any aspect of the Town of Cobalt's water system;
 - i. "municipal water area" shall mean the area within the Town of Cobalt serviced by the Municipal Water System;
 - j. "municipal water supply" shall mean the water supplied from the Municipal Water System;
 - k. "municipal water system" shall include all water works established within the Town of Cobalt and shall further include any present or future extensions to the water works under any Act or under an agreement between the Municipality or its

predecessors, but shall not include any private waterworks which have not been acquired, established, maintained or operated by the Municipality or its predecessors;

- I. "municipality" shall mean the Town of Cobalt;
- m. "persons" shall include a partnership, firm, body corporate, entity or other legal representatives of the person to whom the context applies according to the law;
- n. "registered owner" shall mean the person listed as the registered owner of a parcel of land as shown on the land title for that parcel registered;
- o. "service connection" shall mean that portion of pipe used to supply water from the water main to a building or other place on a parcel of land for the purpose of providing water to the parcel and includes the pipe running up to the building, located on or within the exterior walls of the building, and running from exterior walls to couplings, stock-cocks, meters and any other apparatus placed inside the building by the Municipality;
- "service curb stop box" means a shut-off valve located on the service connection between the water main and the structure or improvement receiving water service, for the purpose of isolating the utility service from the parcel of land;
- "shut-off" shall mean an interference with, or discontinuance of, the supply of water to a parcel of land, building or portion of a building situated upon a parcel of land;
- r. "turn-on" shall mean the turning on of water supply to a parcel of land, building or portion of a building situated upon a parcel of land after the utility service application has been approved, or for the purpose of restoring service on an existing utility account;
- s. "utility service application" shall mean a written request made by a consumer to the Municipality after the construction and installation of a service connection line for the supply of water to a building, and to establish a water billing account in that consumer's name;
- t. "water main" shall mean those pipes installed for the conveyance of water within the Municipality to which service connections may be connected;
- u. "water works" shall mean any works for the collection, production, treatment, storage, supply, and distribution of water, or any part of such works, but does not include plumbing or other works to which the Ontario Building Code Act and its regulations apply.

PART 3 GENERAL PROVISIONS

- 3.1 This By-Law shall apply to the Municipal Water System located within the geographical boundaries of the Municipality.
- 3.2 No person shall lay, or cause to be laid, any pipe or main to communicate with any pipe or main of the Municipal Water System, or in any way obtain or use the Municipal Water Supply without the written consent of the Municipality.
- 3.3 Any extensions or connections to the Municipal Water System shall be constructed in accordance with the approved engineering standards of the Municipality, comply with relevant provincial legislation including the *Safe Drinking Water Act* and the *Ontario Water Resources Act* and be subject to final inspection and approval by the Municipality.
- 3.4 No person, being an owner, tenant, occupant or inmate of any house or building or other place supplied with water from the Municipal Water System, shall improperly waste water or, without consent from the Council, lend, sell or dispose of water, give water away, permit water to be taken or carried away, use or supply water to the use and benefit other than the person's own or increase the supply of water.
- 3.5 No person who resides in, occupies, or conducts business from a building in the Municipality and situated on land lying along the water main shall have water supplied to that building by way of a well, spring, or other source of water supply that is not connected to the Municipality's water distribution system.
- 3.6 The consumer having applied for the provisions of the utility service shall be responsible for paying the rates and charges provided, from time to time, in the User Fee By-Law of the Municipality, as amended from time to time.
- 3.7 All buildings which are to be connected to the water main shall have all necessary apparatus and appliances installed which are required to ensure the proper sanitary condition of the building and premises.
- 3.8 All pipes, valves, fittings and other equipment between the water main and the curb stop box shall remain the property and responsibility of the Municipality. All pipes, valves, fittings and other equipment between the curb stop box and the dwelling unit shall remain the property and responsibility of the registered owner.
- 3.9 The Municipality does not guarantee the continuous supply or pressure of water from a Municipal Water System. The Municipality is not liable for damage caused by the breaking of any service pipe or attachment, or for shutting off of water to repair or to tap mains, if reasonable notice of the intention to shut off the water is given.
- 3.10 The Municipality or its designated Operating Authority shall be responsible for the operation and maintenance of the Municipal Water System, including required testing, servicing, and the removal of snow from around all hydrants, as deemed necessary.
- 3.11 The Council or other duly authorized employee, in the case of an emergency, which may imperil the supply or quality of water, may shut off the Municipal Water System and take such remedial actions as may be necessary. Such remedial action may include limiting the supply of water in any area or restricting the use of water for any specific purpose.

PART 4 ADMINISTRATION

- 4.1 Every owner of a property located within the Municipal Water Area shall connect an existing building to the Municipal Water System.
- 4.2 Every new building constructed on a property located within the Municipal Water Area shall be connected to the Municipal Water System. A request in writing for connection to the Municipal Water System shall be filed with the issuance of a building permit and shall be accompanied by the connection fee as per the Town of Cobalt's User Fee By-Law.
- 4.3 The Municipality reserves the right to refuse any application for connection to the Municipal Water System if the existing system is at capacity, or where excess capacity has been allocated to other properties within the Municipal Water Area.
- 4.4 No owner of a property located within the Municipal Water Area and connected to the Municipal Water System shall be granted an exemption in order to disconnect from the Municipal Water System except those owners:
 - a) Whose building has been declared as unsafe by the Chief Building Official pursuant to the provisions of Section 15.9 of the *Building Code Act*, as amended; or
 - b) Whose building remained unoccupied after a period of twelve consecutive months from the date of passage of this By-Law.

Any exemption granted from connection to the Municipal Water System under this Section shall not relieve the owner from payment of any minimum water maintenance rate as established by the By-Law.

- 4.5 No owner shall be granted an exemption under section 4.4 where any arrears is owing from non-payment of a water bill on the property.
- 4.6 Any owner desiring to have the Municipal Water Supply turned off or on for any reason, shall apply, in writing, to the Municipality who may direct that the water be turned off or on. The turning off of the Municipal Water Supply shall not relieve the owner from the payment of the full unit rate as established by By-Law.
- 4.7 A Disconnection/Re-Connection Fee, as established by By-Law, shall be charged by the Municipality for the turning off or on of the Municipal Water Supply. Where such action is necessitated by:
 - a) A written request by the owner; or
 - b) Non-payment of a water bill
 - c) Exemptions listed under Section 4.4
- 4.8 No person shall willfully let off or discharge water so that water runs wasted or useless out of the Municipal Water System. No person shall willfully discharge water or cause to be discharged water from the Municipal Water System directly into bodies of water.
- 4.9 The Municipality reserves the right to turn off the Municipal Water Supply to any house, building or other place supplied with water from the Municipal Water System, as deemed necessary by the Town of Cobalt Administration to stop and prevent waste.

- 4.10 Failure to comply with any requirements relative to the use and protection of the Municipal Water Supply shall be sufficient reason for refusing connection or immediate disconnection of water service by the Municipality until such time as it is determined that the policies and requirements by the Municipality, Ontario Building Code Act, any order or approval by a Medical Officer of Health, Public Health Inspector, or Ministry of Environment, have been met.
- 4.11 A consumer who is indebted to the Municipality under a previous utility account shall not be permitted to complete a utility service application, or be entitled to the supply of water until payment in full of the indebted amount has been received by the Municipality.
- 4.12 The utility bill with all applicable rates and charges may be mailed to the consumer at intervals consistent with the User Fee By-Law and payment of the total billing amount shall be due and payable within twenty-one (21) calendar days from the date of billing.
- 4.13 The utility bill shall contain a notice advertising that failure to pay by the date fixed for payment shall first result in an additional percentage charge as provided for in the User Fee By-Law.
- 4.14 Failure to receive an invoice does not absolve the consumer of the obligation to pay the utility account or to make inquiries of the Municipality as to amounts that may be presently outstanding.
- 4.15 Payments may be made at any of the following locations and in any of the following manners:
 - a) At the public service counter located in the Municipal Office during regular office hours Monday through Friday except Statutory Holidays;
 - b) At any chartered bank which has made collecting arrangements with the Municipality;
 - c) By mailing the payment to the Municipality;
 - d) By using the bank's website.
- 4.16 All payments made on an account shall be first applied against the penalty owing in respect to the length of time the penalty has been owing, with the penalty imposed earlier being discharged before the penalty imposed later. The payment shall then be applied against charges owing according to the length of time they have been owing. In the event that any such current utility bill remains unpaid after twenty-one (21) calendar days following the date of billing, there shall be an additional percentage charge, as provided in the User Fee By-Law. The said percentage charge shall form part of the unpaid utility bill.
- 4.17 A consumer who is supplied with water to a parcel of land, building or portion of a building situated on a parcel of land is prohibited from lending, selling, disposing, giving away, permitting to be taken or otherwise using or applying any water to the use and benefit of any other person, including another parcel of land, building, or portion of a building on a parcel of land, supplied with water through a separate service connection regardless of whether the service connection to the other consumer has been turned-off or shut-off.

PART 5

ACCESS TO PROPERTY FOR THE PURPOSE OF WATER SERVICE

- 5.1 As a condition of receipt of the utility service and operational needs dictate, employees of the Municipality shall have free access to all parts of a property, structure or other premises in which water is delivered and consumed, or intended to be delivered and consumed, at any reasonable hour of the day and upon reasonable notice for the purpose of:
 - a) Installation, maintenance, repair, and removal of the water system and water service connections;
 - b) Installation, testing, repair and removal of parts of the water system;
 - c) Inspection of cross-connection control devices or other equipment and works associated with the water system and the customer plumbing system;
 - d) Inspection and compliance with this By-Law.
- 5.2 No person shall hinder, interrupt or cause to be hindered any employee of the Municipality or its contractors, servants and agents or workers, in the exercise of any of the powers or duties relating to the water system as authorized or required in this By-Law.
- 5.3 Upon termination of water service, any employee of the Municipality employed for that purpose may, at all reasonable times, enter the parcel or premises which was supplied with water service for the purpose of removing from the parcel or premise any fittings, machines, apparatus, pipes, or any other thing that are the property of the Municipality.
- 5.4 Employees of the Municipality may, at any time, specify the required position or require the relocation, or abandonment, at the property owner's expense, of any water cross connection control device, pipe, valve or fitting forming part of the water system.

PART 6 SERVICE AND MAINS

- 6.1 The registered owner or person responsible for the development of lands shall be responsible for the construction of all service connections, which shall be constructed in compliance with the Municipality's Approved Standards and:
 - a) Shall ensure that all proposed service connections receive approval from the Municipality prior to construction; and
 - b) Shall not backfill the excavation until such time as the Municipality has inspected the work or has advised approval of the work.
- 6.2 If any parcel of land contains one or more self-contained buildings, then a maximum of one (1) service connection per self-contained building may be installed as approved by the Municipal Official.
- 6.3 No branch lines shall be connected to any service connection unless approved by the Municipal Official. In the event that that a branch line is approved, the developer must ensure that it is constructed in accordance with the Municipality's Engineering Servicing Standards. In instances where the Municipality either connects or arranges for connections of the branch line to the service connection, the contractor, developer or

owner who makes the request for a branch line connection shall be responsible for payment of the service connection fee as outlined in the User Fee By-Law.

- 6.4 All service connections shall be constructed of approved materials in accordance with the Safety Codes Act, the Regulations thereunder, and all other standards adopted by the Municipality from time to time.
- 6.5 No person, other than the authorized municipal official, shall turn-on water to any premises before a certificate of approval has been issued in accordance with Section 6.4. This requirement shall apply to all new construction, alterations, additions, enlargements, renovations, and all piping changes of any nature whatsoever.
- 6.6 Unless otherwise exempted by this By-Law, no person other than an authorized municipal official shall operate, interfere with, or handle any article or thing having to do with water mains and appurtenances.
- 6.7 A plumber shall not be in violation of Section 6.5 when testing the piping in the case of new installation, where the plumber is conducting the work with reasonable care and in a manner consistent with the applicable legislation, regulations, standards and established industry best practices.
- 6.8 Unless otherwise authorized by this By-Law, no person other than an authorized municipal official shall by any means whatsoever obstruct or impede direct and free access to water mains and appurtenances.
- 6.9 The Municipality is the owner of the water mains and that portion of all service connections between a water main and the curb stop box box The remainder of the service connection is owned by the registered owner of the lands under which the service connection is located. The registered owner shall be responsible for all maintenance and repair costs associated with the portion of the service connection owned by the registered owner.
- 6.10 Whenever a consumer no longer requires a service connection, or wishes to abandon a service connection, the consumer shall first obtain approval from the Municipal Official for the method and location of abandonment. The consumer shall be responsible for contacting Public Works to disconnect the service connection at the curb stop box and shall assume responsibility for all cost associated with same.
- 6.11 In instances where property subject to redevelopment has been previously serviced to the property line by the Municipality, the registered owner shall:
 - a) Supply and install an approved curb stop box box in a manner consistent with the standards established by the Municipality;
 - b) Be responsible for maintenance of the curb stop box box until the property is completely landscaped and inspected by the Municipality as being in good working condition;
 - c) Be responsible for cleaning, and pressure testing the existing service connection prior to any activation; and
 - d) Be responsible for the abandonment of any existing service and be responsible for all costs associated with the abandonment. The abandonment will be undertaken consistent with standards established by the Municipality.

- 6.12 The cost of thawing a frozen service connection shall be borne by the consumer if:
 - a) In the determination of the Public Works Department, the location of the frozen section of the service connection is within the boundaries of the private property owned or occupied by the consumer;
 - b) In the determination of the Public Works Department, the location of the frozen section of the service connection lies between the water main and the boundary of the road, right-of-way or easement and the freezing has incurred as a result of tampering by the consumer; or
 - c) The consumer has refused the installation of a bleeder, recommended by the Public Works Department pursuant to Section 8.1 through 8.5 of this By-Law.

PART 7 SERVICE PIPING FOR THE FIRE PROTECTION

- 7.1 Unless authorized by the Municipal Administrator, no person shall operate or interfere with any hydrants owned by the Municipality.
- 7.2 No person shall use water supplied through a hydrant, public or private, except as necessary for firefighting or testing unless prior authorization has been obtained from the Municipal Administrator. In instances where authorization is granted to a person for use of a public hydrant, that person shall be responsible for any damages occurred to the public hydrant or the Municipality's Water System while the hydrant is in use. Any person authorized to use water from either a public or private hydrant shall be responsible for payment of the hydrant consumption rate, and the hydrant rental fee as outlined in the User Fee By-Law, including Public Works and License Distributor Operator wages to be on site.
- 7.3 Where an unmetered water supply is provided to a building sprinkler, standpipe or other fire protection system, no person shall use such water supply for any purpose except as necessary for firefighting or testing.
- 7.4 All standpipe and hose system shall be installed in accordance with the Ontario Building Code and maintained in accordance with Ontario Fire Code.
- 7.5 Services constructed pursuant to this part shall not be tapped in any location whether on the Municipality's portion of the services or the private property portion of the services without authorization from the Municipal Administrator.

PART 8 BLEEDERS

- 8.1 Bleeders shall be installed under the following circumstances:
 - a) If the Municipal Official determines that the portion of the service connection lying on municipal property has a recurring propensity to freeze in cold weather, the bleeder shall be installed, the cost of which shall be borne by the Municipality;
 - b) If the Municipal Official determines that the portion of the service connection lying between the property line and the building has a recurring propensity to freeze in cold weather, the bleeder shall be installed after the curb stop and the consumer

shall be required to pay the bleeder installation and the consumption as outlined in the User Fee By-Law.

- 8.2 A bleeder may be installed in a building as a permanent fixture under the complete control of the Municipal Official. In such cases the bleeder shall be controlled by a valve and shall be considered the property of the Municipality.
- 8.3 All permanent bleeders shall be sealed.
- 8.4 If a consumer refuses the installation of a bleeder, a release form shall be signed by the consumer waiving the Municipality of all responsibilities for damages caused due to freezing of any portion of the service connection lying between the water main and the building.
- 8.5 Not withstanding section 8.1(b), the Municipal Administrator may require a consumer to allow the Municipality to install a bleeder or other remedial equipment where the Municipal Administrator determines that freezing of the service connection lying between the water main and the property line is the result of a period of discontinued use of the utility by the consumer. In this instance, cost of installation shall be borne by the consumer.

PART 9 SHUT-OFF

- 9.1 A Municipal Official may, without notice, shutoff the utility to any consumer where, in the opinion of the Municipal Official, an emergency condition exists, rendering such action necessary.
- 9.2 A Municipal Official may shutoff the utility service to any consumer whenever:
 - a) In the opinion of the Municipal Administrator, leakage from the service connection constitutes a waste of water;
 - b) The rates and charges associated with the supply of water remain unpaid after 1 billing cycle following the due date and the consumer has been provided a shutoff notice; or
 - c) A consumer fails to comply with any provisions of this By-Law.
- 9.3 When a consumer has met the terms and conditions as set out in this By-Law with respect to water which has been shutoff, the Municipality may turn on the water within two (2) working days of compliance with the terms and conditions of this By-Law.

PART 10 CONSERVATION

- 10.1 No consumer shall allow water to run or flow in a wasteful manner for any reason.
- 10.2 The Municipal Administrator may, at such times and for lengths of time as is considered necessary or advisable, provide for a water restriction program which restricts water usages to any or all parts of the Municipality.
- 10.3 All water restriction programs shall be duly advertised by use of local media, printed or otherwise, prior to taking effect.
- 10.4 No consumer shall contravene the terms or conditions of any water restriction program after it has been advertised, without first obtaining the Municipal Administrator's authorization.

PART 11 UNAUTHORIZED USE OF WATER

- 11.1 Except as otherwise authorized under this By-Law, no person shall obtain water from the Municipal Water System, or allow water to be obtained from the Municipal Water System to be used:
 - a) In an illegal manner;
 - b) In a manner that will impede use by other consumers;
 - c) Unless an account has been opened
- 11.2 If the Municipality finds an unauthorized use of water, including tampering with part of the Municipal Water System, the Municipality may take corrective action to remedy the unauthorized use and repair its appliances or other facilities, and ensure the safety of the general public.
- 11.3 Upon finding an unauthorized use of water or tampering with the Municipal Water System, the Municipality may disconnect the service connection immediately, without notice, and may charge the consumer, or other person responsible, all costs incurred in correcting the condition, in addition to any other rights and remedies which may be available to the Municipality.
- 11.4 Any person who uses water in contravention of Section 11 may pay the following charges:
 - a) All charges for water consumed or obtained in accordance with the water rates as per the User Fee By-Law, as estimated by the Municipality; and
 - b) All charges to cover the Municipality's costs associated with the unauthorized uses of water.
- 11.5 No consumer shall cause, permit to allow, to remain connected to any portion of the Municipal Water System any piping, fixture, fitting, container, or other apparatus which may cause water from a source other than the Municipal Water System or any other

actual or potential harmful or deleterious liquid or substance to enter the Municipal Water System.

PART 12 DISCHARGE OF WATER

- 12. 1 A person may discharge or permit the discharge of residential pool water into a municipal storm sewer only in accordance with the conditions set out below:
 - (a) The residential pool water is held in the pool/spa/hot tub for at least 7 days after the last dosage of chlorine or other chemical treatment;
 - (b) The copper and chlorine concentrations of the residential pool water are at or below the limits for the parameters in Appendix "1" of Schedule A;
 - (c) The person discharging the residential pool water complies with all applicable Town or other regulatory guidelines and requirements for the disposal of residential pool water;
 - (d) The residential pool water is discharged by way of slow, controlled discharge to the curb in front of the owner's premises such that the discharge is at all times safely entering a storm sewer; and
 - (e) The discharge does not occur within 24 hours of a storm event.

PART 13 OFFENCES AND PENALTIES

- 13.1 Every person who contravenes any of the provisions of this By-Law is guilty of an offence pursuant to section 425 of the Municipal Act, 2001 and pursuant to section 429, all contraventions of this By-Law are continuing offences.
- 13.2 Any person who contravenes any of the provisions of this By-Law is guilty of an offence and:
 - a) Upon a first conviction is subject to a minimum fine of five hundred dollars (\$500.00) with a maximum fine of fifty thousand (\$50,000); and
 - b) Upon a subsequent conviction is subject minimum fine of five thousand dollars (\$5,000.00) to a maximum fine of hundred thousand dollars (\$100,000.00) for a subsequent offence.
- 13.3 Where an offence is a continuing offence, each day that the offence is continued shall constitute a separate and distinct offence.
- 13.4 If this By-Law is contravened and a conviction is entered, in addition to any other remedy and to any penalty imposed by the By-Law, the court in which the conviction has been entered and any court of competent jurisdiction thereafter may make an order:
 - a) prohibiting the continuation or repetition of the offence by the person convicted; and

b) requiring the person convicted to correct or remedy the contravention in the manner and within the time period that the court considers appropriate.

13.5 If any court of competent jurisdiction finds that any of the provisions of this By-Law are ultra vires the jurisdiction of Council, or are invalid for any reason, such provisions shall be deemed to be severable and shall not invalidate any of the other provisions of the By-Law, which shall remain in full force and effect.

PART 14 MISCELLANEOUS

- 14.1 If any provision of this By-Law is inconsistent with the Municipal Act, or any other Act, the provisions of the applicable Act shall prevail.
- 14.2 Where the context permits, words importing the singular also include more than one persons, parties or things of the same kind. Where the context permits, words importing the masculine gender also include female as well as male.



THE CORPORATION OF THE TOWN OF COBALT

BY-LAW NO. 2023-XXX

APPENDIX "1" OF SCHEDULE "A" TO WATER UTILITIES MANAGEMENT POLICY

Limits for Discharge

Parameter	Limit
Chlorine	1.0 mg/L
Copper	0.04 mg/L