

**FEES ARE SUBJECT TO CHANGE BY THE BOARD OF DIRECTORS AT ANY BOARD MEETING WITHOUT FORMAL NOTICE.
IT IS THE RESPONSIBILITY OF THE BUILDER/DEVELOPER TO CONTACT OUR OFFICES FOR CHANGES.
FEES ARE TYPICALLY ADJUSTED IN APRIL (Rates) and OCTOBER (Tap fees) OF EACH YEAR.**

HIGHLANDS RANCH METROPOLITAN DISTRICT
RULES AND REGULATIONS
EXHIBIT A
Rates, Charges and Restrictions

I. DEFINITIONS

The following definitions apply to this section on Rates and Charges:

- A. Residential Dwelling Unit Service: A residential dwelling unit is a structure or part of a structure containing one or more rooms and a single kitchen arranged, designed and intended as a unit for occupancy by one family living independently of others, including panelized, prefabricated, modular or other factory-produced buildings and mobile homes; but excluding there from hotels and motels.
- B. Multi-family Residential Dwelling Unit Service: A residential dwelling unit as defined above located in a single structure containing three or more residential dwelling units on a single lot which is served by one meter with a common plumbing system.
- C. Nonresidential Service: Service to any nonresidential use (excluding service identified above under Multi-Family Residential use), including, but not limited to, the following: retail, office, general commercial, manufacturing, warehouse, service commercial, recreation commercial uses and various institutional uses such as museums, convention centers, hospitals, schools, etc. A separate meter is required for each nonresidential structure requiring service. In order to be considered a single structure, the structure must have; a common foundation; a common wall; a common roof; and common ownership. If any of the above are missing the structure will be classified as multiple structures and require payment of tap fees for each structure.
- D. Water Irrigation Service: Service for water irrigation available only for the common landscaped area of any Multi-Family Residential use or Nonresidential use, including, but not limited to, the following, retail, office, general commercial, manufacturing, warehouse, service commercial, recreation commercial uses and various institutional uses such as museums, convention centers, hospitals, schools, association common landscape areas, etc.
- E. Open Space Irrigation Service: Service provided to any user whose land qualifies as open space per the definitions applied by Douglas County and is approved by the appropriate Highlands Ranch Metropolitan Districts as to the public use and who contracts with both the Highlands Ranch and Centennial Water and Sanitation Districts for a special water consumption rate. The rate may be a

result of either contracting for use of potable or non-potable (untreated) water or for any other use that may be restricted or interrupted by Centennial Water and Sanitation.

- F. Highlands Ranch Exempt Organizations: All Highlands Ranch Metropolitan Districts, Centennial Water and Sanitation District, and the Highlands Ranch Community Association but not the sub-associations thereof.
- G. Application for Water and Wastewater Service: An application form, as designated by the General Manager of Centennial to provide the necessary information for evaluating water or wastewater sewer service.
- H. Water Budgets will be established for each customer service type as shown in Exhibit A-1.

II. TAP FEES

A. Any applicant, Owner or Customer desiring water or wastewater sewer service from the District shall pay to the District a Tap Fee pursuant to the following schedule. Such a fee shall be paid in addition to all other charges relating to water or wastewater sewer service described elsewhere in this section on Rates and Charges.

<u>Category</u>	<u>Total</u>
Residential Dwelling Unit (Per unit)(Definition I.A.)	\$ 7,545
Multi-Family Residential Dwelling Unit (per unit) (Definition I.B.)	\$ 5,365
Nonresidential Service (Per meter) (Definition I.C.)	
3/4" meter	\$ 11,235
1" meter	\$ 22,470
1 1/2" meter	\$ 44,940
2" meter	\$ 89,880
3" meter or larger Determined by negotiation with minimum of	\$202,230
Water Irrigation Service (Per meter) (Definition I.D.)	
3/4" meter	\$ 7,535
1" meter	\$ 15,070
1 1/2" meter	\$ 30,140
2" meter	\$ 60,280
3" meter or larger Determined by negotiation with minimum of	\$135,630
Open Space Irrigation Service (Definition I.E.)	By contract (see Section IV)
Highlands Ranch Exempt Organizations (Definition I.F.)	\$ -

B. Any District customer whose development qualifies for the Multi-family Tap Fee must separately meter their irrigation usage and pay the appropriate Tap Fee as found under the category "Water Irrigation Service.

C. Tap Fee Payments and Applications

1. The Tap Fee for Residential Dwelling Units or structures containing Multi-Family Residential Dwelling Units shall be paid prior to receipt of a certificate of occupancy.
2. The Tap Fees for Nonresidential Service Water Irrigation Service and Open Space Irrigation Service shall be paid at the time of application for Water and Sewage Service, in accordance with the meter size as approved by the District.

The applicant shall have filed this Application for Water and Sewage Service; obtained the District's approval thereof; and have executed an Industrial Pretreatment Plant or Industrial Sewer Agreement, if applicable prior to the application for a building permit.

3. Payment of Tap Fees may be made in advance of the above time limits as long as the following conditions are met:
 - a. For residential development a building permit from Douglas County has been obtained
 - b. For commercial development Douglas County has approved a Site Plan.
 - c. The uses for which Tap Fees are being paid are to be located with the District or within an area that the District is contractually obligated to serve.
 - d. The number of Residential Dwelling Units, Multi-Family Dwelling Units, or Nonresidential taps for which Tap Fees are being paid does not exceed the number allowed for the property upon which they are to be located.
4. After payment of the Tap Fee, the applicant or owner has 365 days to complete the connection to the property. Said connection will be considered complete upon approval of the District of the installation of the required meter(s). Failure to complete the connection within such 365-day period requires the applicant or owner to pay the incremental cost, if any, necessary to adjust the amount paid to equal the Tap Fee current at the time of connection in order to complete the connection.

D. Temporary Service Connection Permit Charge

A charge of \$500 per year per equivalent shall be paid for temporary water service or temporary sanitary sewer service. A temporary service connection cannot exceed five years. Any charges pursuant to this service will not be applied against the cost of the Tap Fee for permanent service. An initial deposit of \$2,000 will be required to cover the cost of removal of the temporary connection if permanent service is not initiated within five years.

- E. The purpose of these Tap Fees is to allocate the cost of facilities equitably among the users of the facilities. The General Manager shall interpret the provisions of this document in order to establish such equity.

III. CONSTRUCTION PERIOD FEES and PENALTIES

A. Water Meter, Construction Water and Inspection Fees and Penalties

The charge for providing and installing a meter, miscellaneous water usage during the construction period and inspection of the improvements shall be based on the size of the water meter in accordance with the following schedule:

Meter Size	Meter Type	Meter Fee		Construction Water Fee (a)	Inspection Fee (e)
		Cost	Install		
3/4"	Disc	(b)	\$35	\$ 68	\$150
1"	Disc (Res.)	(b)	\$35	\$ 112	\$250
1"	Disc (Nonres.)	(b)	\$35	\$ 112	\$700
1 1/2"	Disc (Res.)	(b)	\$35	\$ 112	\$450
1 1/2"	Disc (Nonres.)	(b)	\$35	\$ 112	\$800
2"	Disc (Res.)	(b)	\$35	\$ 215	\$700
2"	Disc (Nonres.)	(b)	\$35	\$ 215	\$900
2"	Turbine	(b)	\$35	\$ 215	\$800
2"	Compound	(b)	\$35	\$ 215	\$900
3"	Turbine	(b)	\$35	\$ 484	\$800
3"	Compound	(b)	\$35	\$ 484	\$900

Notes:

- (a) One time fee per meter for water used during construction period. The 3/4" fee also includes \$30 for water usage between meter set and occupancy and \$10 for final service transfer charges. This fee does not include water for landscaping installed prior to installation of a meter. Any landscaping installed prior to installation of a water meter shall be assessed a \$100 fee plus a billing for water consumption based upon an estimate of water consumed.
- (b) The District shall charge the actual cost of the meter purchased.
- (c) All meters shall be installed by the District at the Applicant or Owner's expense.
- (d) Meter size shall be as reviewed and approved by the District. Water demand shall be based on the fixture unit count method as specified by the Uniform Plumbing Code published by the International Conference of Building Officials. Meter sizing shall be based on the specifications outlined in Manual M22 "Sizing Water Service Lines and Meters" as published by the American Water Works Association as modified from time to time by administrative directive of the Centennial General Manager. The water service line between the main and the meter shall be the same size as the meter, unless otherwise approved by the District Engineering Department.
- (e) The inspection fee is allocated between water and sanitary sewer service. Said fee covers the inspector's time for insuring that the water and sewer laterals are constructed per specifications as well as associated administrative costs of establishing the new account.

- (f) For each additional inspection required due to failure of the Owner or Customer to have facilities ready for the requested inspection, or if the facility has not been brought within specifications as noted on earlier inspections, an additional re-inspection fee of \$100 will be charged.
- (g) All meters shall be installed prior to receiving a Certificate of Occupancy from the Douglas County Building Department. The fine for failing to install a meter prior to receiving the Required Certificate of Occupancy shall be \$1,000.

B. Hydrant Meter Fees

1. Permit Fees

Temporary construction water may be provided by Centennial by application for and approval of a Permit for Hydrant Use as approved by the General Manager of Centennial, in accordance with the terms thereof. The permit will be accompanied by a deposit determined by the Centennial staff which will be at least 25% greater than the replacement cost of the hydrant meters and will be returned net of any damages to the meter or unpaid charges for hydrant water consumed.

2. Usage Fees

The minimum monthly charge shall be \$50.00. All usage shall be billed at the rate of \$3.00 per thousand gallons. A \$10.00 late/non-reporting fee shall be assessed on any account not reporting their meter reading as required on Hydrant Permit.

IV. USER RATES AND CHARGES

The District bills for Residential and Multi-family Residential Dwelling Units usage bimonthly. The District bills for all other customer classifications usage monthly. The charges are as follows:

A. Water Service Availability Charge

<u>Meter Size</u>	<u>Single-Family Residential (Bimonthly)</u>	<u>All Others (Monthly)</u>
Single Family	\$25.00/unit	
Multi-Family		\$7.48/unit
3/4 Inch		\$12.50
1 Inch		\$25.00
1 1/2 Inch		\$50.00
2 Inch		\$100.00
3 Inch		\$225.00
4 Inch		\$450.00

B. Potable Water Consumption Charge

The Potable Water Consumption Charge is determined for consumption relative to the Water Budget calculated for each customer as defined in Exhibit A-1.

Charges are per 1,000 gallons for usage less than or equal to the percent of budget established for each meter or service.

<u>Usage of Budget</u>	Rate by Type			
	<u>Residential</u>		<u>Nonresidential</u>	
	Summertime	Wintertime (non-irrigation)	Indoor Only	Irrigation Only
up to 100 %	\$2.55	\$2.55	\$2.55	\$2.55
100 % - 120 %	\$3.50	\$3.50	\$3.50	\$4.00
120 % - 140 %	\$5.25	\$3.50	\$3.50	\$7.00
140 % and over	\$7.90	\$5.80	\$5.80	\$12.00

**C. Non-potable Water Consumption Charge
By Contract**

D. Wastewater Charge

Single Family or Multi Family individually metered residential service - **no household population adjustment** - per bimonthly billing period

- The bimonthly rate for the twelve months billing period beginning after the Winter Billing Period shall be established for each individual residential dwelling unit based upon the metered water consumed during the Winter Billing Period. The winter billing period is defined as the two month billing cycle which includes a portion of any two of the following months: December, January or February.
- The bimonthly rate shall be:
 - **\$12.23**
 - plus **\$2.55** per thousand gallons of metered water up to **18,000** gallons bimonthly during the winter billing period
 - plus **\$2.55** per thousand gallons of metered water in excess of **18,000** gallons during the winter billing period
- A minimum fee of **\$19.88** shall be assessed during each bimonthly period.
- For new customers because there is no historic water consumption for the customer during the immediately preceding winter billing period, the rate will be set at **\$42.83** bimonthly which assumes that the winter time usage is 12,000 gallons bimonthly plus the **\$12.23** base.

Single Family residential service – **with household population adjustment** per bimonthly billing period

- The bimonthly rate for the next twelve months billing periods shall be established for each individual residential dwelling unit requesting a Household Population Adjustment (“HPA”) based upon the metered water consumed during the winter billing period. The winter billing period is defined as the two month billing cycle which includes a portion of any two of the following months: December, January or February.
- The bimonthly rate shall be:
 - **\$42.83**
 - plus **\$7.65** per additional HPA requested (which results in water budget increment of 3,000 gallons)
 - plus **\$2.55** per thousand gallons of metered water in excess of the greater of
 - **18,000** gallons, or
 - **12,000** gallons plus 3,000 gallons times the number of HPA’s requested.

Multi-family residential service – non-individually metered service (master meter)

- The monthly rate for the next twelve months billing periods shall be established for each master metered service based upon the metered water consumed during the Winter Billing Period. The winter billing period is defined as the one month billing cycle which includes a portion of December or January.
- The monthly rate shall be:
 - **\$6.11** times the number of units served by the master meter
 - plus **\$2.55** per thousand gallons of master metered water consumed during the winter billing period up to **9,000** gallons times the number of units

- plus **\$2.55** per thousand gallons of master metered water consumed during the winter billing period **in excess of 9,000** gallons times the number of units.
- The minimum charge for the service shall be **\$9.93** times the number of dwelling units served by the master meter.
- For new customers because there is no historic water consumption for the customer during the immediately preceding winter billing period, the rate will be set at **\$21.41 per unit which assumes that the winter billing period consumption per unit is 6,000 gallons plus the \$6.11 per unit.**

Nonresidential and all other service

- **\$6.11** per month per ¾” equivalent plus **\$2.55 per 1,000 gallons times 80% of actual water consumption** registered on combined water/sewer meter.

E. Nonresidential Service Variances

For any use other than Single Family or Multi-family Residential the user may petition the Centennial Board of Directors for adjustment of the 80% actual water consumption provision included in the wastewater charge. Said petition will require the user to document how their sanitary sewer usage materially varies from the established 80% criteria. The Centennial Board at its discretion will grant or deny the petition.

F. Open Space Irrigation Service

A contract for Open Space Irrigation Service will contain the following conditions:

1. The user must pay the appropriate tap fees for the meter size requested and approved. To the extent that the user wishes to be connected to the potable system as a backup they will pay only one capacity fee which will be calculated based upon the meter size that would be required for the aggregate simultaneous flow.
2. The actual costs of all meters and the related construction water, meter vaults and other incidentals to make such a connection will be borne by the user.
3. To the extent that the user has requested a tap to the primary system as a backup and uses water through that tap they will be charged for that water based upon the primary water consumption rate then in effect.
4. The appropriate water rate will be established for each specific connection by contract and reevaluated and if necessary adjusted annually.

G. Service Outside District

For service pursuant to any or all of the foregoing paragraphs A, B or C outside of the boundaries of the District, such charges and Rates shall equal twice the amount set forth in such paragraphs A, B and C.

H. Backflow Prevention Device Penalty

Pursuant to Section 8.4 a penalty of **\$15 per month** (billed bimonthly) will be imposed and assessed for all District customers who have not installed a proper backflow prevention device.

I. Delinquent Payment Penalty

Pursuant to Section 8.5 of the Rules and Regulations, a penalty of **\$10.00** will be assessed on all past due accounts.

J. Shutoff Posting Charge

A fee of **\$20** will be assessed upon posting of notice of shut off.

K. Interest Charge

Interest at a rate of **12%** per annum shall be assessed on the past due balance of accounts that have had service suspended.

L. Failure to Provide Access Penalty

A penalty of **\$25** per month will be assessed for all customers who fail to provide access pursuant to Section 4.4 of the Rules and Regulations after proper notice has been provided.

M. Initial and Final Billing Charges

Requests for change in service that requires a meter reading and/or bill outside the normal billing cycle will be assessed a **\$15** fee.

N. Disconnection and Reinstatement Charge

Charges for disconnection and reinstatement of service attributable to delinquent accounts will be assessed as follows: Charges for all services will be billed through the shut off date, and then resume when water is reinstated.

Actual disconnection and reinstatement	\$50
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O. Returned Check Fee

A fee shall be assessed for any dishonored checks as follows:

First Occurrence	Double the cost charged by bank
Second Occurrence	Triple the cost charged by bank
Third Occurrence	Notice pursuant to CRS 13-21-109(2) will be given and the District shall collect the amount due thereunder

P. Bankruptcy

Upon receipt of written notification of bankruptcy, a final meter reading for the account will be ordered. The account will be final billed and a new account number established. Notation will be made on both accounts as to the details of the bankruptcy.

To continue service to the new account receipt of a deposit, equal to three times the average monthly bill rounded to the next highest \$5 increment, must be received within 10 working days of the mailing of notice. Notification of the required deposit will be made to the address by first class mail. Failure to make the required deposit will result in the shut off of service.

Until paid all such charges shall remain a perpetual lien on and against the property.

Q. Meter Testing Deposit

A deposit of \$25.00 shall accompany all written requests by customers to have their water meter tested.

R. Wastewater Treatment Surcharge

A surcharge may be charged to customers that discharge wastewater with higher oxygen demand or solids loadings than those found in typical domestic wastewater. These charges will cover the additional costs incurred to treat the wastewater. The surcharge is calculated using a formula specified in Exhibit A-3.

S. Charges for violation of Mandatory Outdoor Water Use Restrictions:

Compliance with the Mandatory Outdoor Water Use Restrictions (see Exhibit A-2) will be determined by Centennial and the following charges for violations thereof shall apply:

The first annual offense will result in a recorded violation documented by a door hanger followed by a letter. The second offense would result in a recorded violation documented by a letter and assessing a fee to the customer's bill water bill. All following offenses would result in a recorded violation documented by certified letter and assessing a fee to the customer's water bill as stated in the table below.

All violations would allow for a reasonable grace period prior to the next violation being recorded allowing for mail delivery and system corrections. Failure to pay charges will result in suspension of water service.

Meter type/size	OFFENSE				
	2nd	3rd	4th	5th	Subsequent
Residential	\$50	\$100	\$250	\$500	Water Shut off
1" or less	\$100	\$200	\$500	\$1,000	Water Shut off
1-1/2" or greater	\$600	\$1,200	\$3,000	\$6,000	Water Shut off

HIGHLANDS RANCH METROPOLITAN DISTRICTS
 RULES AND REGULATIONS
 EXHIBIT A -1
Water Budget Definition and Calculation

A. Water Budget Calculation:

For each tap a Water Budget will be established by Centennial that will serve as the benchmark for where different rate tiers take effect. The Water Budget for different types of customers shall be determined as follows:

1. Residential Customers

a. Single Family

For each bimonthly billing period the Water Budget shall be the sum of indoor usage and outdoor usage.

Indoor Usage: 12,000 gallons per bimonthly period for all residential dwelling units

Household Population Adjustment for indoor use – in addition to the Base Indoor Usage an additional 3,000 gallons per bimonthly period for each additional person in a household subject to the provisions of the Household Population Adjustment affidavit attached as Exhibit A-1a.

Outdoor Usage: The amount of water necessary to apply the irrigation amounts shown in Section B below, on the Irrigated Area of each lot which is defined as an area equal to 45% of the gross lot size of a single family residence. Provided however, that the minimum outdoor usage will be 1,000 gallons per bimonthly period.

Landscape permit outdoor usage adjustment: An additional allotment of irrigation for outdoor usage pursuant to the provisions of the Landscape Permit attached as Exhibit A-1b

b. Multi-Family

Indoor Usage: 6,000 gallons per monthly period for all residential dwelling units

2. Non-Residential Indoor Customers

Indoor Usage: Based on 189,000 kgal per ¾” equivalent as tabulated below:

Meter Size	Proposed Annual Water Budget
¾"	189,000
1"	378,000
1.5"	756,000
2"	1,512,000
3"	3,402,000

3. Non-Residential Irrigation Customers

For non-residential irrigation customers the outdoor irrigation budget will be calculated based on the actual number of irrigated square feet (irrigated area) including turf and landscape beds. The customer is responsible for fully completing the Non-Residential Irrigators Water Budget Application. The customer may utilize agents, contractors or management companies to complete the application however the customer assumes responsibility for the application. It is the responsibility of the customer to inform the District if any changes are made which change the irrigated area. If the customer does not submit the completed Non-Residential Irrigators Water Budget Application the water budget will be based on 15% of the total lot size.

If a customer believes that the measurement used to calculate their budget is incorrect the following steps will be taken:

- The customer must report to the District the corrected measurement to be used as a basis for calculating the water budget in writing.
- The District will verify the information provided.
- A refund will be provided but is limited to the irrigation periods 2 years prior to when notice was given to the District.

a. Outdoor Irrigation Usage for Multi- Family common areas and Associations

Outdoor Usage: The amount of water necessary to apply the irrigation amounts shown in Section B below on an area equal to the actual irrigated area of landscape.

b. Non-Residential

Outdoor Usage: The amount of water necessary to apply the irrigation amounts shown in Section B below on an area equal to the actual irrigated area of landscape.

c. Highlands Ranch Metropolitan Districts

Outdoor Usage: The amount of water necessary to apply the irrigation amounts shown in Section B below on an area equal to the actual irrigated area of landscape.

B. Irrigation Application Rates used in calculation of Water Budget:

April	1 st week	0.00 inches of irrigation
April	2nd week	0.00 inches of irrigation
April	3rd week	0.50 inches of irrigation
April	4th week	0.50 inches of irrigation
May	1 st week	0.50 inches of irrigation
May	2nd week	0.50 inches of irrigation
May	3rd week	1.00 inches of irrigation
May	4th week	1.00 inches of irrigation
June	1 st week	1.00 inches of irrigation
June	2nd week	1.00 inches of irrigation
June	3rd week	1.25 inches of irrigation
June	4th week	1.25 inches of irrigation
July	1 st week	1.25 inches of irrigation
July	2nd week	1.50 inches of irrigation
July	3rd week	1.50 inches of irrigation
July	4th week	1.50 inches of irrigation
August	1 st week	1.50 inches of irrigation
August	2nd week	1.50 inches of irrigation
August	3rd week	1.25 inches of irrigation
August	4th week	1.25 inches of irrigation
September	1 st week	1.25 inches of irrigation
September	2nd week	1.00 inches of irrigation
September	3rd week	1.00 inches of irrigation
September	4th week	1.00 inches of irrigation
October	1 st week	1.00 inches of irrigation
October	2nd week	0.50 inches of irrigation
October	3rd week	0.50 inches of irrigation
October	4th week	0.00 inches of irrigation
	5 th week of a month to balance	1.00 inches of irrigation
	To be assigned to month necessary adjust for that year's actual calendar	
	ANNUAL TOTAL (25 weeks)	27.00 inches of irrigation

HIGHLANDS RANCH METROPOLITAN DISTRICTS
RULES AND REGULATIONS
EXHIBIT A -2
Water Use Restrictions

A. Water Use:

Consistent with the Amended Water Conservation Plan as part of the Highlands Ranch Rules and Regulations, wasteful use of water is prohibited at all times. Examples of wasteful water use include:

- Excess water flowing in street gutters from irrigation or other outdoor uses,
- Unrepaired leaks or fixture malfunctions that lead to excess water use

B. Mandatory Outdoor Water Restrictions:

Consistent with the Amended Water Conservation Plan as part of the Highlands Ranch Rules and Regulations concerning Mandatory Outdoor Water Restrictions the following restrictions apply at all times:

- Outdoor irrigation is prohibited between the hours of 10:00 A.M. and 6:00 P.M. on all days with exception of prior approved daytime watering permit.
- Hand watering of landscape materials is allowed at any time. Hand watering is defined as the application of irrigation from a hose held in the hand with a shut off valve; or a water-conserving method such as a drip, trickle, micro spray, deep root watering device or watering can are used.
- Car washing is allowed at any time. However, if water for car washing is coming from a hose rather than a bucket, a hose end shut off device must be in use to prevent uninterrupted water flow.

C. Changes to Mandatory Outdoor Water Restrictions:

The mandatory Outdoor Water Restrictions imposed by the District's Rules and Regulations may be changed at any time by declaration of Centennial Board of Directors at a regular or special board meeting. Such changes may include, but are not limited to:

- Mandatory day-of- week limits on irrigation
- Mandatory limits on the hours of watering
- Mandatory limits on the allowed run times of irrigation systems
- Mandatory prohibitions of all outdoor water use under severe water supply shortages

HIGHLANDS RANCH METROPOLITAN DISTRICTS
RULES AND REGULATIONS
EXHIBIT A-3
Wastewater Treatment Surcharge

Wastewater Treatment Surcharge

A surcharge may be charged to customers that discharge wastewater with higher oxygen demand or solids loadings than those found in typical domestic wastewater. These charges will cover the additional costs incurred to treat the wastewater. The surcharge is calculated using the following formula.

$$SC = V (8.34) [(AOD) \times (UCo) + (TSS-300) \times (UCs)]$$

SC = surcharge in dollars and cents.

V = volume of wastewater discharged in units of million gallons.

8.34 = conversion factor (gallons to pounds)

AOD = additional oxygen demand in units of milligrams per liter.

Note: for use in the formula above, first determine if BOD (Biochemical oxygen demand) or COD (Chemical Oxygen Demand) should be used in the determination of AOD by using the following determination:

1) If the ratio of COD to BOD (as mg/l) is less than 3.0 then AOD = (BOD – 250) (Typical domestic wastewater contains less than 250 mg/l BOD)

2) If the ratio of COD to BOD (as mg/l) is greater than or equal to 3.0 then AOD = (COD – 500). (Typical domestic wastewater contains less than 500 mg/l COD).

UCo = cost of treating a pound of additional oxygen demand (AOD) The cost is \$0.07 per pound of AOD.

TSS = total suspended solids in units of milligrams per liter. (Typical domestic wastewater contains less than 300 mg/l TSS)

UCs = cost of treating a pound of total suspended solids (TSS) in dollars and cents. The cost is \$0.03 per pound of TSS.