

# 2020

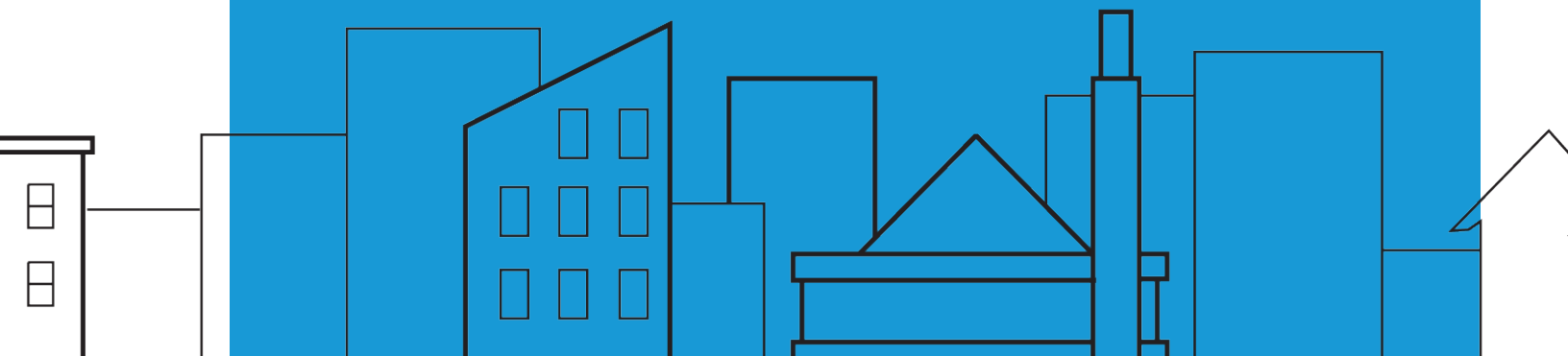
## ASSESSMENT METHODOLOGY

### RESIDENTIAL LAND

A summary of the methods used by the City of Edmonton in determining the value of residential land properties in Edmonton for assessment purposes.

[edmonton.ca/assessment](http://edmonton.ca/assessment)

Edmonton



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## Scope

This guide is an aid in explaining how residential land properties are valued for assessment purposes. The guide is intended as a tool and complements the assessor's judgment in the valuation process.

## Introduction

Property assessments in the City of Edmonton are prepared in accordance with the requirements of the Municipal Government Act, R.S.A. 2000, c. M-26, (hereinafter "MGA") and the Matters Relating to Assessment and Taxation Regulation, 2018, Alta Reg 203/17, (hereinafter "MRAT"). (hereinafter The MRAT regulation establishes the valuation standard to be used, defines the procedures to be applied, and purposes objectives for the quality to be achieved in the preparation of assessments. The legislation requires the municipality to prepare assessments that represent market value by application of the mass appraisal process. All assessments are expected to meet quality standards prescribed by the province in the regulation.

Property assessments represent:

- an estimate of the value;
- of the fee simple estate in the property;
- as the property existed on December 31, 2019;
- reflecting typical market conditions;
- as if the property had been sold on July 1, 2019;
- on the open market;
- from a willing seller to a willing buyer.

The assessment is a prediction of the value that would result when those specific, defined conditions are met.

The legislation requires the City of Edmonton to assess the fee simple estate.

"Fee simple interest [is] absolute ownership unencumbered by any other interest or estate... leased fee interest [is] the ownership interest held by the lessor, which includes the right to the contract rent specified in the lease plus the reversionary right when the lease expires... leasehold interest [is] the interest held by the lessee (the tenant or renter) through a lease conveying the rights of use and occupancy for a stated term under certain conditions."

*Appraisal Institute of Canada, **The Appraisal of Real Estate Third Canadian Edition**,  
Vancouver, Canada, 2010, page 6.4*

Both *market value* and *property*, along with additional terms are defined in the *MGA* and *MRAT* :

s.284(1)(r) "**property**" means

- (i) a parcel of land
- (ii) an improvement, or
- (iii) a parcel of land and the improvements to it

*MGA s.284(1)(r)*

s.1(k) "**regulated property**" means

- (i) land in respect of which the valuation standard is agricultural use value,
- (ii) designated industrial property, or
- (iii) machinery and equipment

*MRAT s.1(k)*

s.9(1) the **valuation standard** for the land and improvements is market value unless subsection (2)... applies

*MRAT s.9(1)*

s.1(1)(n) "**market value**" means the amount that a property, as defined in section 284(1)(r), might be expected to realize if it is sold on the open market by a willing seller to a willing buyer

*MGA s.1(1)(n)*

s.5 An assessment of property based on **market value**

- (a) must be prepared using mass appraisal,
- (b) must be an estimate of the value of the fee simple estate in the property, and
- (c) must reflect typical market conditions for properties similar to that property

*MRAT s.5*

s.289(2) Each assessment must reflect

- (a) the characteristics and physical condition of the property on **December 31** of the year prior to the year in which a tax is imposed

*MGA s.289(2)(a)*

s.6 Any assessment prepared in accordance with the Act must be an estimate of the value of a property on **July 1** of the assessment year

*MRAT s.6*

s.1(g) "**mass appraisal**" means the process of preparing assessments for a group of properties using standard methods and common data and allowing for statistical testing

*MRAT s.1(g)*

## Mass Appraisal

Mass appraisal is the legislated methodology used by the City of Edmonton for valuing individual properties, and involves the following process:

- properties are stratified into groups of comparable properties
- common property characteristics are identified for the properties in each group
- a uniform valuation model is created for each property group

31(c) **“valuation model”** means the representation of the relationship between property characteristics and their value in the real estate marketplace using a mass appraisal process

*MRAT s.31(c)*

The following two quotations indicate how the International Association of Assessing Officers distinguishes between mass appraisal and single-property appraisal:

“... single-property appraisal is the valuation of a particular property as of a given date: mass appraisal is the valuation of many properties as of a given date, using standard procedures and statistical testing.”

“Also, mass appraisal requires standardized procedures across many properties. Thus, valuation models developed for mass appraisal purposes must represent supply and demand patterns for groups of properties rather than a single property.”

*Property Appraisal and Assessment Administration, pg. 88-89*

For both mass appraisal and single-property appraisal, the process consists of the following stages:

	Mass Appraisal	Single Appraisal
<b>Definition and Purpose</b>	Mass appraisal is used to determine the assessment base for property taxation in accordance with legislative requirements	The client specifies the nature of the value to be estimated, this includes: rights to be valued, effective date of valuation, and any limiting conditions.
<b>Data Collection</b>	Mass appraisal requires a database of property characteristics and market information.	The extent of data collection is specific to each assignment and depends on the nature of the client's requirements.
<b>Market Analysis</b>	Mass appraisal is predicated on highest and best use.	Market analysis includes the analysis of highest and best use
<b>Valuation Model</b>	Valuation procedures are predicated on groups of comparable properties.	Subject property is the focus of the valuation. The analysis of comparable properties is generally six or less
<b>Validation</b>	The testing of acceptable analysis and objective criteria	The reliability of the value estimate is more subjective. Acceptability can be judged by the depth of research and analysis of comparable sales

## Valuation Model

A valuation model creates an equation of variables, factors and coefficients that explains the relationship between estimated market value and property characteristics. An assessed value is then calculated by applying the appropriate valuation model to individual properties within a property type.

s31	(a) <b>“coefficient”</b> means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process  (b) <b>“factor”</b> means a property characteristic that contributes to a value of a property;  (d) <b>“variable”</b> means a quantitative or qualitative representation of a property characteristic used in a valuation model	<i>MRAT, s.31 (a), (b) and (d)</i>
s.33	Information prescribed ... does not include coefficients	<i>MRAT, s.33(3)</i>

### Valuation Model

- variables are identified from property characteristics
- statistical analysis determines how variables affect market value
- factors and coefficients are determined
- the resulting valuation models are applied to property characteristics

## Property Groups

### Residential

Residential properties are the lands and improvements, which are intended or developed to be self-contained dwelling units having one or more rooms accommodating sitting, sleeping, sanitary facilities, and a principal kitchen for food preparation, cooking and serving.

### Residential Land

Residential Land is vacant land zoned for future low density residential uses.

## Approaches to Value

The approaches to determine market value are the direct comparison, income, and cost approaches.

<b>Direct Comparison Approach</b>	Typical market value (or some other characteristic) is determined by referencing comparable sales and other market data. It is often used when sufficient sales or market data is available. It may also be referred to as the Sales Comparison Approach.
<b>Income Approach</b>	This approach considers the typical actions of renters, buyers and sellers when purchasing income-producing properties. This approach estimates the typical market value of a property by determining the present value of the projected income stream. Often used to value rental or leased property.
<b>Cost Approach</b>	Typical market value is calculated by adding the depreciated replacement cost of the improvements to the estimated value of land. It is often used for properties under construction or when there is limited market data available.

### Direct Comparison Approach

For this property group, the assessment is determined using the Direct Comparison Approach. It is the most appropriate method of valuation for Residential Land properties in the City of Edmonton because it mirrors the actions of buyers and sellers in the marketplace and sufficient residential land sales data exists in order to derive reliable market estimates.

The income and cost approaches were not used in the valuation of this property group, as these approaches are more applicable to income producing properties or in limited markets, respectively. The majority of these properties in this inventory are owner occupied with only a portion of the inventory traded based on the property's ability to generate income.

The City of Edmonton validates all land title transactions (sales). The validation process can include site inspections, interviews with parties involved, a review of land title documents, corporate searches, third party information, and sale validation questionnaires.

The City of Edmonton reviews sales occurring from July 1, 2014 to June 30, 2019 in valuing Residential Land properties. Time adjustments are applied to sale prices to account for any market fluctuations occurring between the sale date and the legislated valuation date. The City of Edmonton uses the date the legal title transfer was registered at the Land Titles Office as the sale date of a property.

**Sale price reflects the condition of a property on the sale date and may not be equal to the assessment.**



## Zoning

The rules and regulations for land development within Edmonton are contained in the Zoning Bylaw, No. 12800.

s.6.123 **zone**: a specific group of listed Uses and Development Regulations which regulate the Use and Development of land within specific geographic areas of the City...

**Zoning Bylaw No. 12800, 2017, s. 6.123**

Residential land use zones vary in part due to density.

s.6.24 density: when used in reference to Residential and Residential-Related development, the number of Dwellings on a Site expressed as Dwelling per hectare.

**Zoning Bylaw No. 12800, 2017, s. 6.24**

A residential zone summary is in the Appendix.

Not all properties conform to the zoning use set out in the Edmonton Zoning Bylaw. When property doesn't conform to the zoning bylaw, property assessors apply effective zoning. Effective zoning helps ensure that your property is grouped with and compared to similar properties—based on the current use of your land and not on what it's permitted to be developed as (e.g. a legal non-conforming use).

643(1) If a development permit has been issued on or before the day on which a land use bylaw or a land use amendment bylaw comes into force in a municipality and the bylaw would make the development in respect of which the permit was issued a nonconforming use or nonconforming building, the development permit continues in effect in spite of the coming into force of the bylaw.

**MGA, s.643(1)**

## Factors Affecting Value

The definitions of factors and related variables affecting value within the valuation models are itemized in the following sections:

- Location
- Positive site influences
- Negative site influences
- Lot characteristics
- Adjustments

Location	
Market area	Neighbourhood groups
Neighbourhood	Study area

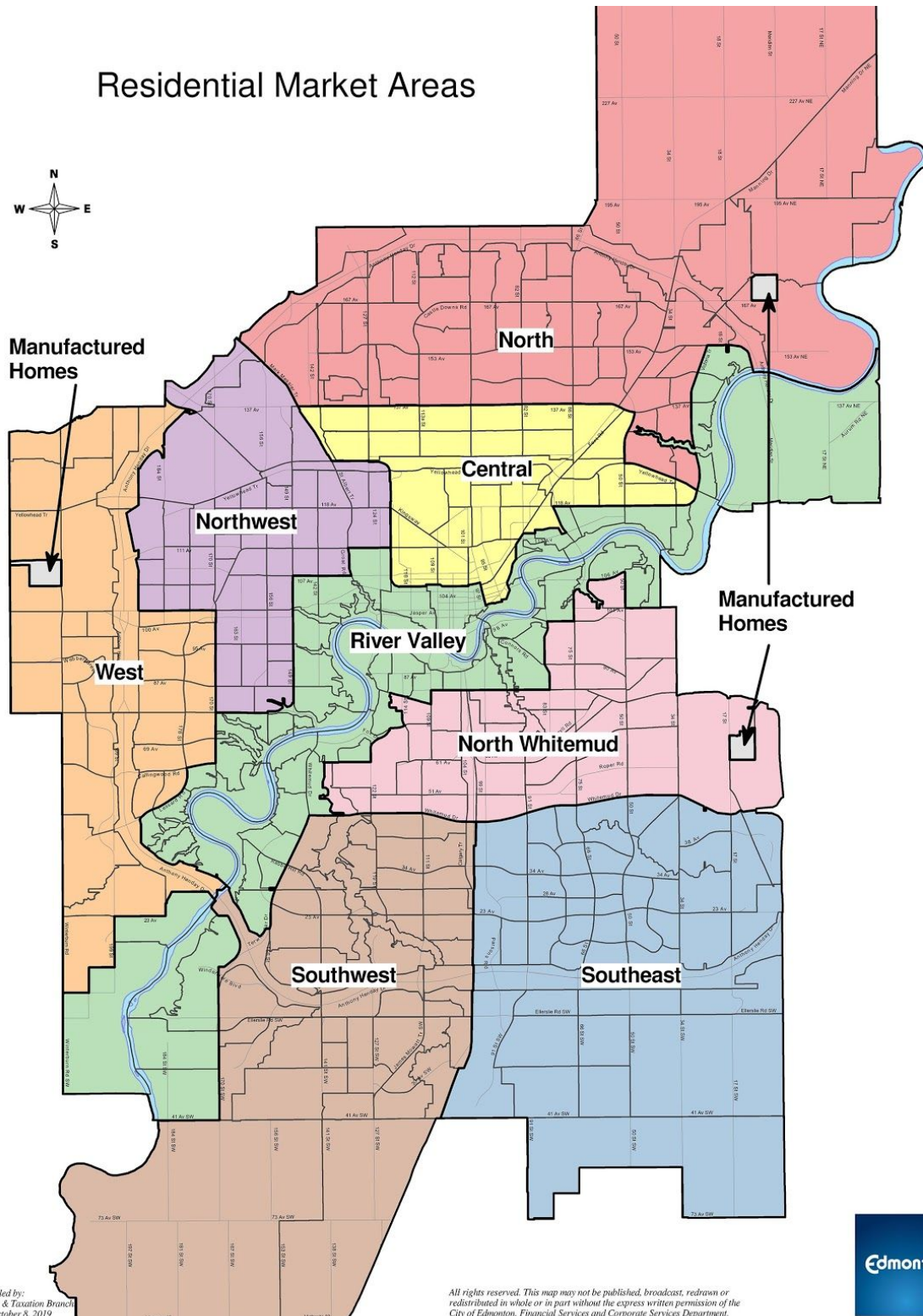
Location references not only a particular parcel of land, but also describes larger geographic areas. The following location characteristics are listed in alphabetical order:

### Market area

A market area is a geographic grouping of neighbourhoods or study areas; major arterial roads and natural boundaries within the municipal corporate limits typically define the boundaries. Eight residential land market areas are defined in Edmonton. These market areas are:

- North
- West
- Northwest
- Central
- River Valley
- North Whitemud
- Southwest
- Southeast

The boundaries of these market areas are identified below. A valuation model was created for each market area (excluding manufactured home park lands- for this inventory refer to the 2020 *Multi-Residential Manufactured Home Park Land* assessment methodology guide).



## Neighbourhood

A property is located in this geographical area as defined by the City of Edmonton.

### Study area

Within the market areas, there are sub-groups or sub-sectors of properties within neighbourhoods that show different market trends from the rest of the neighbourhood they are located in. These properties are assigned to study areas to more accurately analyze and value the market trends in these locations.

- **Neighbourhood study areas**

Maps identifying these study areas are accessible on the City website, [https://www.edmonton.ca/residential\\_neighbourhoods/property\\_tax\\_assessment/reference-materials.aspx](https://www.edmonton.ca/residential_neighbourhoods/property_tax_assessment/reference-materials.aspx). See the document, 2020 Residential Neighbourhood – Study Areas.

- **Rural Residential study areas**

The market areas also contain groups of rural residential properties identified by their assigned effective zoning code ('RR'). These properties, with larger acreage sized lots, exist in recognized subdivisions with servicing that may differ from the rest of the surrounding neighbourhoods. Maps identifying these study areas are accessible on the City website, [https://www.edmonton.ca/residential\\_neighbourhoods/property\\_tax\\_assessment/reference-materials.aspx](https://www.edmonton.ca/residential_neighbourhoods/property_tax_assessment/reference-materials.aspx). See the document, 2020 Rural Residential – Study Areas.

Positive site influences		
Golf course influence	Greenbelt influence	Lake influence
Noise attenuation barrier	Park influence	Ravine influence
River valley influence		

The impact of a positive site influence may vary by other Factors Affecting Value. The following positive site influences affecting assessment value are as listed (alphabetically):

### Golf course influence

A property is located in close proximity to a golf course.

- **Abutting**

Property backs directly onto a golf course or is separated from it only by a park, green space or walking trail.

- **Across from, major**

Property is separated from a golf course by a road or lane normally used by local traffic (with traffic count equal to or less than 5,000). The separation by a local road or lane could also include a park, green space or walking trail.

- **Across from, minor**

Property is separated from a golf course by a major road (with traffic count greater than 5,000). The separation by a major road could also include a park, green space or walking trail.

### **Greenbelt influence**

A property is next to a strip of publicly accessible green space.

This green space runs between residential properties, is between eight and 30 metres (26 and 98 feet) wide, includes public utility corridors and may have a walking trail. The greenbelt influence does not include areas used for overhead transmission lines, parks, lakes, ravines, walkways or the river valley.

For widths below eight metres, refer to the Walkway influence definition. For widths over 30 metres, refer to the Park influence definition.

### **Lake influence**

A property is in close proximity to a lake or storm reservoir.

- **Abutting**  
Property backs directly onto a lake or large storm reservoir.
- **Abutting, minor**  
Property backs onto a lake or large storm reservoir but is separated from it by a park, green space or walking trail.
- **Across from**  
Property is separated from a lake or storm reservoir by a road or lane normally used by local traffic. The separation by a local road or lane could also include a park, green space or walking trail.

### **Noise attenuation barrier**

Noise attenuation barriers are structures designed to protect from noise pollution. They are located in proximity to noise sources like commercial, industrial, institutional, LRT, multi-residential, utility, railway or traffic.

Barriers include earthen berms, concrete wall structures and corrugated steel wall structures or their combination with a minimum combined height of six feet. Noise attenuation barriers do not include wooden screen fences typically erected by either the City or property owners.

- **Minor**  
The barrier is between six and 10 feet high and is located on the property line.
- **Moderate**  
The barrier is between six and 10 feet high when measured from the side that faces the noise source. Or, the barrier is between 10 and 20 feet high and is located on the property line.
- **Major**  
The barrier is between 10 and 20 feet high when measured from the side that faces the noise source. Or, the barrier is more than 20 feet high and is located on the property line.
- **Extreme**  
The barrier is more than 20 feet high when measured from the side that faces the noise source.

### **Park influence**

A property is in close proximity to a park.

Parks include any developed or undeveloped green space, neighbourhood parks, cul-de-sac islands and flat, wooded areas. They may or may not have walking trails. Parks exclude greenbelts, lakes, ravines, walkways, the river valley and any areas used for overhead transmission lines.

- **Abutting, major**

Property has a common boundary with a park. The park is more than 0.75 hectares (1.85 acres) in total size and is at least 30 metres (98 feet) wide when measured from the property line.

- **Across from, major**

Property is across a road or lane from a park. The park is more than 0.75 hectares (1.85 acres) in total size and is at least 30 metres (98 feet) wide.

- **Abutting, minor**

Property has a common boundary with a park. The park ranges between 0.25 hectares (0.62 acres) and 0.75 hectares (1.85 acres) in total size and is at least 30 metres (98 feet) wide.

Or, property has a common boundary with a major park. However, the portion of the park that abuts the property is less than 30 metres (98 ft) wide when measured from the property line.

- **Across from, minor**

Property is across a road or lane from a park. The park ranges between 0.25 hectares (0.62 acres) and 0.75 hectares (1.85 acres) in total size and is at least 30 metres (98 ft) wide.

Or, property is across a road or lane from a major park where the portion of the park is less than 30 metres (98 ft) wide.

- **Abutting, recreational**

Property has a common boundary with a park or green spaces used for recreational purposes: playgrounds, soccer or football fields, baseball diamonds, outdoor hockey rinks or open fields within 91 metres (300 feet) of a school.

- **Across from, recreational**

Property is located across a road or lane from a park or green space used for recreational purposes: playgrounds, soccer or football fields, baseball diamonds, outdoor hockey rinks or open fields within 91 metres (300 feet) of a school.

### **Ravine influence**

A property is in close proximity to a ravine ([land included in the City's protection overlay](#)).

- **Abutting**

Property backs directly onto a portion of a ravine or is separated from it by parks, green spaces or walking trails. Property assessors classify the ravine influence as abutting when the portion of the ravine is more than 50 metres (164 feet) wide.

- **Abutting, minor**

Property backs directly onto a portion of a ravine or is separated from it only by parks, green spaces or walking trails. Property assessors classify the ravine influence as “abutting, minor” when the portion of the ravine is less than 50 metres (164 feet) wide.

- **Across from, major**  
Property is separated from a ravine by a road or lane normally used by local traffic. The separation by the local road or lane may also include parks, green spaces and walking trails.
- **Across from, minor**  
Property is separated from a ravine by a major road (not solely used by local traffic). The separation by a major road may also include parks, green spaces and walking trails.

### River valley influence

A property is in close proximity to or within the boundaries of the North Saskatchewan River Valley ([land included in the City's protection overlay](#)).

- **Abutting**  
Property backs directly onto the boundary of the river valley or is separated from it only by parks, green spaces, wooded areas, walking trails or golf courses.

Where property is located within the river valley (for example, in neighbourhoods like Rossdale, Riverdale and Cloverdale), it receives an abutting river valley influence factor if it backs directly onto the bank of the North Saskatchewan River or is separated from the bank by parks, green spaces, wooded areas, walking trails and golf courses.

- **Across from, major**  
Property is separated from the boundaries of the river valley by a road or lane normally used by local traffic. This separation may also include parks, green spaces, wooded areas, walking trails and golf courses.

Where property is located within the river valley (for example, in neighbourhoods like Rossdale, Riverdale and Cloverdale), it receives a major river valley influence factor if it is separated from the bank of the North Saskatchewan River by a road or lane normally used by local traffic. This separation may also include parks, green spaces, wooded areas, walking trails and golf courses.

- **Across from, minor**  
Property is separated from the boundaries of the river valley by a major road (not solely used by local traffic). This separation may also include parks, green spaces, wooded areas, walking trails and golf courses.

Where property is located within the river valley (for example, in neighbourhoods like Rossdale, Riverdale and Cloverdale), it receives a minor river valley influence factor if it is separated from the bank of the North Saskatchewan River by a major road (not solely used by local traffic). This separation may also include parks, green spaces, wooded areas, walking trails and golf courses.

Negative site influences		
Bus stop influence	Cemetery influence	Commercial influence
Community mailbox influence	Industrial influence	Institutional influence
LRT influence	Multi-residential influence	Railway influence
Traffic influence	Utilities influence	Walkway influence

The impact of a negative site influence may vary by other Factors Affecting Value. The following negative site influences affecting assessment value are as listed (alphabetically):

### **Bus stop influence**

A property is adjacent to an Edmonton Transit System bus stop or bus shelter.

### **Cemetery influence**

A property is adjacent to a cemetery.

### **Commercial influence**

A property is in close proximity to a commercial property.

- **Minor**  
Property receives a minor commercial influence factor if it has one commercial property like a neighbourhood corner store, gas station, shop or convenience store in front, behind or beside.
- **Moderate**  
Property receives a moderate commercial influence factor if it has
  - two small commercial properties like a neighbourhood corner store, gas station, shop or convenience store or
  - one large commercial property like a neighbourhood strip mall, hotel or fast food facility in front, behind or beside.
- **Major**  
Property receives a major commercial influence factor if it has one of the following or a combination of
  - three or more commercial properties that create minor influence,
  - two or more commercial properties that create moderate influence or
  - one commercial property like a mall, box centre or bar in front, behind or beside.

### **Community mailbox influence**

A property is adjacent to a Canada Post community mailbox.



### Industrial influence

A property is in close proximity to an industrial property.

- **Minor**  
Property receives a minor industrial influence factor if it has one industrial property or vacant industrial land in front, behind or beside.
- **Moderate**  
Property receives a moderate industrial influence factor if it has two or three industrial properties in front, behind or beside.
- **Major**  
Property receives a major industrial influence factor if it has one of the following or a combination of
  - one industrial property that emits a large amount of pollution or smell (for example, the Gold Bar Wastewater Treatment Plant) or
  - more than three industrial properties in front, behind or beside.

### Institutional influence

A property is in close proximity to an institutional facility.

- **Minor**  
Property receives a minor institutional influence factor if it has one institution like a church, elementary school, ski hill or community hall in front, behind or beside.
- **Moderate**  
Property receives a moderate institutional influence factor if
  - it has two institutions like a church, elementary school, ski hill or community hall or
  - one institution like a high school, junior high school, recreation facility, community pool and stand-alone police station in front, behind or beside.
- **Major**  
Property receives a major institutional influence factor if it has one of the following or a combination of
  - three or more institutions that create minor influence,
  - two or more institutions that create moderate influence or
  - one major institution (for example, a large sports facility like Commonwealth Stadium or Telus Field, a post-secondary institution, a hospital or other emergency facility) in front, behind or beside.

### LRT influence

A property is in close proximity to the Edmonton Light Rail Transit (LRT) system.

- **Abutting**  
Property backs directly onto an LRT right of way or is separated from it only by parks, green spaces, walking trails or walkways.
- **Across from**  
Property is separated from an LRT right of way by a road or lane. The separation by a road or lane could also include a park, green space and walking trail.

### **Multi-residential influence**

A property is in close proximity to a multi-residential property (condominiums, rental apartments or rental row houses).

Multi-residential properties considered for this influence must

- abut a property; or
- be located across lanes or roads with up to moderate traffic counts; or
- be within 50 metres of a property and separated by utility right of ways, parks, lakes or other green spaces; and
- not be individually titled when it comes to single-family triplexes, fourplexes and row houses.

This classification is based on the total unit count from the adjacent multi-residential property and any other multi-residential properties contiguous to it (or separated only by small gaps of land like lanes, greenbelts or walkways).

- **Minor**  
Property is in close proximity to multi-residential properties with a total unit count of four to 30.
- **Moderate**  
Property is in close proximity to multi-residential properties with a total unit count of 31 to 75.
- **Major**  
Property is in close proximity to multi-residential properties with a total unit count of more than 75.

### **Railway influence**

A property is in close proximity to a railway.

- **Minor**  
Property backs directly onto or is adjacent to a rail right of way with single or multiple rail lines. Property also could be separated from the rail right of way by a road or lane.
- **Moderate**  
Property directly backs onto or is adjacent to a railway yard or switching station. Property also could be separated from the railway yard or switching station by a road or lane.

### **Traffic influence**

A property is adjacent to a traffic source. We assign these factors according to the latest City traffic count data

[[https://www.edmonton.ca/transportation/traffic\\_reports/traffic-reports-flow-maps.aspx](https://www.edmonton.ca/transportation/traffic_reports/traffic-reports-flow-maps.aspx)].

- **Minor**  
Property is adjacent to a road with the recorded traffic flow of 1,500-5,000 vehicles per day or with an Edmonton Transit System bus route.
- **Moderate**  
Property is adjacent to a road with the recorded traffic flow of 5,001-15,000 vehicles per day.
- **Major**  
Property is adjacent to a road with the recorded traffic flow of 15,001-50,000 vehicles per day (for example, 50th Street, 170th Street or 97th Street).

- **Extreme**  
Property is adjacent to a road with the recorded traffic flow of more than 50,000 vehicles per day (for example, Whitemud Drive or Yellowhead Trail)
- **Anthony Henday Drive**  
Property is adjacent to the Anthony Henday Drive ring road.

### Utility influence

A property is in close proximity to utilities.

- **Minor**  
Property receives a minor utility influence factor if it is adjacent to underground utilities (like high pressure pipelines) generally located within a green belt.  
Municipal utility services such as low-voltage power lines, gas lines, telecommunications lines and municipal water, sanitary and storm sewer lines are not included in this category.
- **Moderate**  
Property receives a moderate utility influence factor if it is adjacent to overhead transmission lines generally located within a green belt or if it's adjacent to telecommunication transmission towers.  
Municipal utility services such as low-voltage power lines, gas lines, telecommunications lines and municipal water, sanitary and storm sewer lines are not included in this category.
- **Substation, minor**  
Property receives a substation, minor utility influence factor if it is adjacent to a utility substation other than an overhead transmission line substation. These substations include municipal utility services such as low-voltage power substations, gas substations, telecommunications substations and municipal water, sanitary and storm sewer substations
- **Substation, major**  
Property receives a substation, major utility influence factor if it is adjacent to an overhead transmission line substation.

### Walkway influence

A property shares a border with a walkway that connects a residential area—either directly or as part of a trail system—to commercial or institutional areas or major roadways.

Walkways are less than eight metres (26.2 feet) wide and located between two residential properties.

For widths over eight metres, refer to the Greenbelt influence definition.

Lot Characteristics		
Corner lot	Land use	Lot area with applied adjustment
Lot shape	Lot size	Walkout grading
Zoning		

The impact of a lot characteristic may vary by other Factors Affecting Value. The following lot characteristics affecting assessment value are as listed (alphabetically):

### Corner lot

Land is located at the intersection of two public roadways, other than lanes. For a detailed definition, see the Edmonton Zoning Bylaw 12800 (part 1, section 6.1).

### Land use

Land use is used to categorize the current use of a property.

- Undeveloped residential land
- Residential bare land condominium (land only)
- Paved/fenced parking lot for non-residential use
- Unpaved/unfenced parking lot for non-residential use

These land uses, in tandem with the effective zoning, identify properties belonging to the residential land group.

### Lot area with applied adjustment

A property received an assessment adjustment to a portion of the total lot size due to the negative impacts of encumbrance, adverse topography or irregular shape.

### Lot shape

A property is of irregular or pie shape.

- **Pie**  
The front width of the lot is significantly smaller than the back width, which results in an overall "pie" shape.
- **Irregular**  
The shape of the lot is substantially different from a rectangular-, pie- or otherwise regularly shaped residential lot. It could be, for example, a triangular lot, L-shaped lot or a lot with a "panhandle."

### Lot size

Lot size is the total size of land.

The calculation of this area is done by the City's Global Information System (software for analyzing geographical data) and based on the legal description of the property.

### Walkout grading

A property displays substantial grade differences from the front to the back of the lot that could allow for the development of a walkout basement.

### Zoning

The City of Edmonton regulates all development that occurs within the city by dividing municipal land into residential, commercial, industrial and other zones in which certain land uses are permitted or prohibited.

In the Edmonton Zoning Bylaw, each zone lists a number of uses and regulations which govern how the property is allowed to be developed—no matter if that development has already taken place or could happen in the future.

Not all property conforms to the zoning use set out in the Zoning Bylaw. In these cases an effective zoning is applied to reflect the current legal use and/or development potential of the property. The effective zoning may differ from the actual zoning. The two most common scenarios where effective zoning may be applied are:

- **Actual zoning is Direct Control (DC) or other specialized zoning.** In these cases the most comparable commercial zoning will be applied as the effective zoning. For example, if a DC1 zoning provision allows for development most similar to those with an RF1 zoning, that property will have an effective zoning of RF1 even though the actual zoning is DC1.
- **Legal non-conforming use:** A legal non-conforming use is one that was lawfully in existence before a new zoning bylaw came into effect. Since the lawful use existed before the zoning was changed its legal non-conforming use may continue and an effective zone reflecting current use is applied.

Adjustments		
Adverse topography	Contamination	Encumbrance
Lot instability	Remnant lot	Servicing

Adjustments may be made for the following:

### Adverse topography

Adverse topography indicates a property has certain topographical constraints that are not typical for the area and negatively affect the overall suitability of land for residential development.

These constraints may include, but are not limited to, significant slopes or wetland subsoil conditions resulting from sloughs, ponds and natural drainage onto the property. The size of the area affected will be reported as the **Lot area with applied adjustment**.

- **Minor**  
The adverse topography does not significantly impede developmental potential of the affected area. The area still provides some benefit to the owner, such as use or enjoyment of the land.

- **Moderate**  
The adverse topography has a potential to significantly impede developmental potential of the affected area. However, the area still provides some benefit to the owner, such as use or enjoyment of the land.
- **Major**  
The adverse topography significantly impedes developmental potential of the affected area. The area provides no reasonable benefit to the owner.

*Note: The Adverse topography adjustment is not applied to properties located in close proximity to or within the boundaries of the North Saskatchewan River Valley (land included in the City's protection overlay) or in close proximity to a ravine (land included in the City's protection overlay).*

### **Contamination**

Contamination refers to property that has been affected by environmental contamination which includes adverse conditions resulting from the release of hazardous substances into surface water, groundwater, or soil.

### **Encumbrance**

A property has a registered encumbrance on title that runs with the land, such as an easement or restrictive covenant. This encumbrance and the area of the lot that it affects are atypical for similar properties in the area.

Encumbrance does not include municipal utility services—such as low-voltage power, gas, telecommunication, water, sanitary sewer and storm sewer lines—that typically serve the property.

- **Minor**  
The encumbrance does not significantly impede developmental potential of the affected area. The area still provides some benefit to the owner, such as use or enjoyment of the land.
- **Moderate**  
The encumbrance has the potential to significantly impede developmental potential of the affected area. However, the area still provides some benefit to the owner, such as use or enjoyment of the land.
- **Major**  
The encumbrance significantly impedes developmental potential of the affected area. The area provides no reasonable benefit to the owner.

### **Lot instability**

Lot instability signals that land at the top of bank area of a property has experienced slope movement or erosion; therefore, the bearing capacity of the ground became diminished. Any lot instability must occur on the property being assessed and is applied only if lot instability has already occurred.

- **Minor**  
Land has experienced slope movement or erosion, which  
(a) is apparent and more than incidental in scope but does not immediately threaten structures or the use of the amenities on that property; or  
(b) has led to ongoing monitoring by a geotechnical professional to ensure continued slope stability.

- **Moderate**  
Land has experienced slope movement or erosion, which  
(a) impairs or precludes use of a significant portion of the developed part of the property;  
(b) has resulted in ongoing monitoring by Safety Codes Officers; or  
(c) poses a risk to the ongoing safe occupancy of the house or primary structure on the property.
- **Major**  
Land has experienced severe slope movement or erosion, which  
(a) has rendered a substantial portion of the top of bank area of the property unusable, hazardous or in need of substantial stabilization work, as a result of a landslide or major slope failure;  
(b) has subjected the property to a Safety Codes Act order that requires ongoing geotechnical monitoring regarding the continued use of the property or its structures; or  
(c) made the house unsafe for continued occupancy, or made any continued occupancy contingent upon compliance with a Safety Codes Act order.

### **Remnant lot**

A property is a vacant lot deemed undevelopable for residential use due to the size restrictions set under Edmonton Zoning Bylaw 12800.

### **Servicing**

The Servicing variables below do not apply to Rural Residential lots.

- **Water supply service**  
Water supply refers to the public water supply infrastructure available to a property. Property is considered serviced if a branch (stub) line from the City of Edmonton or EPCOR main line to the property line exists.
  - **Present**  
A property has water supply services.
  - **Absent**  
A property does not have water supply services.
- **Sanitary sewer service**  
Sanitary sewer refers to a system of sewers designed to collect and convey household and industrial wastewater from urban areas to Edmonton's Gold Bar Wastewater Treatment Plant. Property is considered serviced if a branch (stub) line from the City of Edmonton or EPCOR main line to the property line exists.
  - **Present**  
A property is connected to Edmonton's sanitary sewer system.
  - **Absent**  
A property is not connected to Edmonton's sanitary sewer system.
- **Storm sewer service**  
Storm sewer refers to a system of sewers designed to collect, store and convey runoff from urban areas to a receiving body of water. Property is considered serviced if it's located next to a road with storm water sewer.
  - **Present**  
A property is considered to be connected to Edmonton's storm sewer system.

- **Absent**  
A property is not connected to Edmonton's storm sewer system.
- **Access to paved public roads**  
Paved public roads are part of the public road access infrastructure and must be adjacent to the property.
  - **Present**  
A paved public road is adjacent to the property.
  - **Absent**  
A paved public road is not adjacent to the property.Access to paved public roads doesn't include paved back lanes and alleys.
- **Access to sidewalks, curbs or gutters**  
Sidewalks, curbs and gutters are part of the City's public road and sidewalk access infrastructure and must be adjacent to the property.
  - **Present**  
Sidewalks, curbs and gutters are adjacent to the property.
  - **Absent**  
Sidewalks, curbs and gutters are not adjacent to the property.
- **Street lighting**  
Street lighting is part of the City's public road and sidewalk access infrastructure and must be adjacent to the property.
  - **Present**  
Street lighting is adjacent to the property.
  - **Absent**  
Street lighting is not adjacent to the property.




## Sample Assessment Detail Report

On the sample shown below, the factors and variables used to calculate each individual property assessment are displayed in the 'Factors Used to Calculate Your 2020 Assessed Value' section of each property's Property Assessment Detail Report.

**Property Assessment Detail Report**  
Assessment and Taxation

Account **10000000**



page 1 of 1

<b>Report Date</b>	January 2, 2020
<b>2020 Assessed Value</b>	<b>\$201,500</b>
<b>Date of Issue</b>	January 2, 2020
<b>Property Address</b>	10000 100 STREET NW
<b>Legal Description</b>	Plan: 1000000 Block: 10 Lot: 10
<b>Neighbourhood</b>	Crystallina Nera West
<b>Assessment Class</b>	RESIDENTIAL
<b>Land Use</b>	100% Undeveloped residential land
<b>Zoning</b>	RSL - Residential Small Lot District
<b>Effective Zoning</b>	RSL - Residential Small Lot District
<b>Taxable Status</b>	January 1 - December 31, 2020; FULLY TAXABLE
<b>Unit of Measurement</b>	METRIC (metres, square metres)

### Factors Used to Calculate Your 2020 Assessed Value

	MARKET VALUE APPROACH	DIRECT SALES
LAND		
Variable	Factor	Type
Zoning	RSL	Site
Lot size	488	Site
Walkout grading	YES	Site
Lake influence	ABUTTING, MINOR	Site
Multi-residential influence	MAJOR	Site
Water supply service	PRESENT	Site
Sanitary sewer service	PRESENT	Site
Storm sewer service	PRESENT	Site
Access to paved public roads	PRESENT	Site
Sidewalk / curb / gutter	PRESENT	Site
Street lighting	PRESENT	Site
<b>Land Value</b>		<b>201,618</b>

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## Methods to Adjust Comparables

There are two techniques for adjusting comparables: **quantitative** and **qualitative**.

### Quantitative Adjustments

Each characteristic of a property can be measured or quantified by a mathematical expression and adjusted for.

*Several techniques are available to quantify adjustments to the sale prices of comparable properties: data analysis techniques such as paired data analysis, grouped data analysis, and secondary data analysis, statistical analysis, including graphic analysis...*

(AIC, 2010, p. 14.2)

*In the direct comparison approach, the best comparables are those sales that require the least **absolute** adjustment.*

(AIC, 1995, p. 245).

Quantitative adjustments involve adjusting a known value (sale price for example) by adding or subtracting an amount that a given characteristic adds to or subtracts from that value. A quantitative adjustment should be made for each characteristic that differs between the subject property and the comparable property.

Due to the legislative requirement to use mass appraisal, the City has used statistical analysis to determine annual assessments.

*"coefficient" means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process.*

MRAT s.31(a)

The City is not required to disclose the coefficients. In the absence of quantitative adjustments, an alternative technique is qualitative analysis.

### Qualitative Analysis

Each comparable property is compared with the subject property on an overall basis. In a qualitative analysis, comparable properties are identified as inferior, similar, or superior overall to the subject property in order to bracket the probable value range of the subject property.

*When a sale property is considered to offer important market evidence but finding the means to make quantitative adjustments is lacking, the appraiser may turn to other major direct comparison techniques, qualitative analysis.*

(AIC, 2005, p. 19.10)

*Qualitative analysis recognizes ... the difficulty in expressing adjustments with mathematical precision.*

(AIC, 2010, p. 14.6 )

*...reliable results can usually be obtained by bracketing the subject between comparables that are superior and inferior to it.*

(AIC, 2010, p. 14.7)

*If one or two comparable properties require fewer total adjustments than the other comparable transactions, an appraiser may attribute greater accuracy and give more weight to the value indications obtained from these transactions, particularly if the magnitude of the adjustments is approximately the same.*

(AIC, 2010, p. 13.16)

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## References

- City of Edmonton. (2018). *Zoning Bylaw No. 12800*. Retrieved from City of Edmonton:  
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## Appendix

### Zone Chart: Residential

#### Residential Zonings

<b>RF1</b>	<b>Single Detached Residential Zone (s.110)</b> is to provide for single detached housing while allowing other forms of small scale housing
<b>RSL</b>	<b>Residential Small Lot Zone (s.115)</b> is to provide for smaller lot single detached housing with attached garages
<b>RF2</b>	<b>Low Density Infill Zone (s.120)</b> is to retain single detached housing, while allowing infill on narrow lots, uses include duplex housing
<b>RPL</b>	<b>Planned Lot Residential Zone (s.130)</b> is to provide for small lot single detached housing, serviced by both a public roadway and a lane
<b>RF3</b>	<b>Small Scale Infill Development Zone (s.140)</b> is to provide for single detached housing and semi-detached housing while allowing small-scale conversion and infill redevelopment to buildings containing up to four dwellings
<b>RF4</b>	<b>Semi-Detached Residential Zone (s.150)</b> is to provide a zone primarily for Semi-detached Housing and Duplex Housing
<b>RMD</b>	<b>Residential Mixed Dwelling Zone (s.155)</b> is to provide for a range of dwelling types and densities including single detached, semi-detached and row housing
<b>RF5</b>	<b>Row Housing Zone (s.160)</b> s to provide for relatively low to medium density housing, generally referred to as Row Housing
<b>UCRH</b>	<b>Urban Character Row Housing Zone (s.165)</b> is to provide for medium density Row Housing in a manner that is characteristic of urban settings and can include more intensive development
<b>RF6</b>	<b>Medium Density Multiple Family Zone (s.170)</b> is to provide for medium density housing, where some units may not be at Grade

## Residential Zonings

<b>RA7</b>	<b>Low Rise Apartment Zone (s.210)</b> provides for low rise apartment buildings
<b>RA8</b>	<b>Medium Rise Apartment Zone (s.220)</b> provides for medium rise apartment buildings
<b>RA9</b>	<b>High Rise Apartment Zone (s.230)</b> provides for high rise apartment buildings
<b>RR</b>	<b>Rural Residential Zone (s.240)</b> is to provide for single detached residential development of a permanent nature in a rural setting, generally without the provision of the full range of urban utility services
<b>RMH</b>	<b>Mobile Home Zone (s.250)</b> is to provide for Mobile Homes developed within a Mobile Home Park or Mobile Home Subdivision.

\*For zonings not listed above, please see zoning Bylaw 12800.

## Measure Conversion Chart

Imperial to Metric - Length	Imperial to Metric - Area
1 inch (in) = <b>2.54</b> centimetres (cm)	1 square foot (sqft) = <b>0.09290</b> square metre (m <sup>2</sup> )
1 foot (ft) = <b>0.3048</b> metres (m)	1 acre (ac) = <b>4,046.86</b> square metre (m <sup>2</sup> )
	1 acre (ac) = <b>0.40469</b> hectares (ha)
Imperial Conversions	Metric Conversions
1 acre (ac) = <b>43,560</b> square feet (sqft)	1 square kilometer (sq km) = <b>100</b> hectares (ha)
1 square mile = <b>640</b> acres (ac)	1 hectare (ha) = <b>10,000</b> square metres (m <sup>2</sup> )
1 section = <b>640</b> acres (ac)	