



Corporate Production GIS Metadata

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Layer Name: Storm_Outlets

General Information

Layer Name:	Storm_Outlets
# of Features:	1245
Status:	ACTIVE
Layer Source:	GIS_DATA.STM_OUTLET
Layer Quality:	Good
Feature Accuracy:	+/- 1m
Type:	POINT
Description:	Locations where surface water drained through underground pipes are released to natural or engineered creeks, rivers, streams, ponds, storm water management facilities.
Projection:	NAD 83 UTM Zone 17N (EPSG 26917)
Disclaimer:	The City of Kitchener assumes no responsibility for the accuracy of the provided data. Any use of this information is done so at the users risk. Good survey practices must be applied when utilizing this information. The City of Kitchener and its partners have created this data for information purposes on an as-is and as available basis and is under no circumstances a substitute for a Legal Survey. The City does not make any representations or warranty, express or implied, concerning the accuracy, quality, likely results, or reliability of the use of the data. The City of Kitchener assumes no responsibility for any errors and is not liable for any damages of any kind resulting from the use of, or reliance on, the information and material contained in this layer. All information should be verified independently before being used or relied on. Users are encouraged to contact the City of Kitchener to ensure the accuracy of the information provided by Kitchener.

Source and Constraints

Source Map Label:	Storm Water Outlets: Development & Technical Services - Engineering Design Construction (Sept 2002), Corporate Services - Information Technology - GIS (2002 - current)
History:	August 2004 - Conversion of DGN files maintained by Engineering into SDE September 1 2004 - Conversion of attributes from MS Access database maintained by Engineering into SDE August 2005 started updating layer based on Service Agreement: DTS - Engineering : Sanitary, Storm Drainage, Road Infrastructure, Sidewalk, Survey Monumentation. Please see Service Agreement for details
Original Source:	INS - Engineering
Original Source Process:	
Maintenance:	Service Agreement: DTS - Engineering : Sanitary, Storm Drainage, Road Infrastructure, Sidewalk, Survey Monumentation. Please see Service Agreement for details
Current Info Source:	Ortho Imagery & Kitchener As_Built
Outstanding Issues:	
Update Frequency:	CONTINUOUS

Data Fields & Domain Information

Storm_Outlets

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
OBJECTID	OBJECTID	NUMBER	ESRI system maintained integer field used to uniquely identify rows in tables in a geodatabase. Note that OBJECTID values change upon export or import of the data and should not be used as a primary field for searching or identifying records.			
STMOUTLETID	Stmoutlet ID	NUMBER	Database maintained field that permanently assigns a unique value for each record. This ID value should be the one referred to when identifying a record.			
STATUS	Status	VARCHAR2	Indicates the status of feature. A pick list is used for this field - contact GIS for pick list values.	GISStatus	ACTIVE	ACTIVE; HISTORIC; PLANNED; UNKNOWN
SOURCE	Source	NUMBER	GIS maintained field. Source EDRA (Electronic Document Registration Application) document number, or name of department or specific staff member that the information came from.			
SOURCE_DATE	Source Date	DATE	GIS maintained field. Date of the source document or information.			
ROADSEGMENTID	Roadsegment ID	NUMBER	GIS maintained field. ROADSEGMENTID of the GIS_DATA.ROADSEGMENT layer feature that the storm water inlet is along. A value of -1 indicates that the feature does not follow a road. Roadsegments must have a CATEGORY value of 'ROAD' or 'ROUNDABOUT' and a STATUS value of 'ACTIVE', 'PLANNED', or 'REGISTERED'.			
PARCELID	Parcel ID	NUMBER	Reference Parcel ID that the feature is located in. The value is either manually entered or generated from a spatial join process.			
QUARTER_GRID_ID	Quarter Grid ID	VARCHAR2	GIS maintained field. GENERAL_GRID_ID value of the GIS_DATA.GRID_STANDARD_QUARTERED layer feature which the storm water inlet falls within. A value of -1 indicates that the feature does not fall inside a quarter grid.			
ROADCONSLIMITID	Road Construction Limit ID	NUMBER	This field is not being used at this time.			
UPDATE_BY	Update By	VARCHAR2	Database maintained field. Updates to the user name that most recently updated either an attribute or the geometry of the feature. Update takes place when the feature is created and/or changed.			
UPDATE_DATE	Update Date	DATE	Database maintained field. Updates to the current data/time when an attribute or the geometry of the feature is changed. Update takes place when the feature is created and/or changed.			
CREATE_BY	Create By	VARCHAR2	Database maintained field. Updates to the user name that created the feature. Update takes place when the feature is created.			
CREATE_DATE	Create Date	DATE	Database maintained field. Updates to the current data/time. Update takes place when the feature is created.			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
TAG1	Tag1	VARCHAR2	Temporary location to store short term data for mapping purposes only.			
TAG2	Tag2	VARCHAR2	Temporary location to store short term data for mapping purposes only.			
TAG3	Tag3	VARCHAR2	Temporary location to store short term data for mapping purposes only.			
GIS_NOTES	GIS Notes	VARCHAR2	Open text field for outlining any problems or to highlight special characteristics of the feature specific to GIS.			
SHAPE	SHAPE	ST_GEOMETRY	ESRI system maintained field. Stores the geometry type and geometry of the feature.			
FACILITY_TYPE	Type of feature water enters when exiting the outlet	VARCHAR2	Provided through as-built plan or digital submission. Indicates the type of feature the water enters when exiting the outlet. A pick list is used for this field - contact GIS for pick list values.	StmInletOutletType		NONE; OGS; POND
OWNERSHIP	Asset Owner	VARCHAR2	Asset Owner: Who owns the feature, Generally Government agencies such as CITY, REGION and MTO and private citizens and businesses shown as PUBLIC. This usually relates to the property the asset sits on.	OwnershipClass		CAMBRIDGE; DUAL CITY AND REGION; DUAL CITY AND WRDSB; PRIVATE; REGION; SCHOOL BOARD; UNKNOWN; WATERLOO; WELLESLEY; WILMOT ...See GIS for a complete list...
OUTLET_SHAPE	Outlet Shape	VARCHAR2	Provided through as-built plan or digital submission. Indicates the shape of the outlet. A pick list is used for this field - contact GIS for pick list values.	StmShape	ROUND	ARCHED; HORIZONTAL ELLIPTICAL; IRREGULAR; NOT APPLICABLE; OVAL; RECTANGULAR; ROUND; SQUARE; VERTICAL ELLIPTICAL
WIDTH	Width (mm) how the city received or acquired the feature	NUMBER	Provided through as-built plan or digital submission. Inside cross-sectional width of the outlet in millimetres. A value of -2 indicates that the width was not given or is unknown. A pick list is used for this field - contact GIS for pick list values.	StmInletWidthHeight	0	0; 1200; 1350; 1500; 1600; 2000; 2100; 825; 900; 975 ...See GIS for a complete list...
HEIGHT	Height (mm) Inside cross-sectional height of the outlet	NUMBER	Provided through as-built plan or digital submission. Inside cross-sectional height of the outlet in millimetres. A value of -2 indicates that the height was not given or is unknown. A pick list is used for this field - contact GIS for pick list values.	StmInletWidthHeight	0	0; 1200; 1350; 1500; 1600; 2000; 2100; 825; 900; 975 ...See GIS for a complete list...
ENERGY DISSIPATION	Type of Energy Dissipation Present	VARCHAR2	Provided through as-built plan or digital submission. Indicates the type of energy dissipation for the outlet.	StmOutletEnergyDisp		ENGINEERED WALL/CONCRETE BAFFLES; GROUTED RIP RAP; NONE; PLUNGE POOL

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
GRATE	Is a Grate Present	VARCHAR2	Provided through as-built plan or digital submission. Indicates if a grate is present for the outlet. A pick list is used for this field - contact GIS for pick list values.	YesNoLongOnly	NO	NO; YES
GRATE_LOCK_TYPE	Grate Lock Type Present	VARCHAR2	Provided through as-built plan or digital submission. Indicates the lock type of the outlet. A pick list is used for this field - contact GIS for pick list values.	StmLockType	NONE	BOLTED; NONE; PADLOCK
EROSION_PROTECTION	Type of Erosion Protection	VARCHAR2	Provided through as-built plan or digital submission. Indicates the type of erosion protection for the outlet. A pick list is used for this field - contact GIS for pick list values.	StmOutletErosion		ENGINEERED WALL; GABION MAT/BASKET; NONE; RIP RAP LINING; VEGETATION / GEOTEXTILE MATTING
ENDWALL_HEIGHT	Endwall Height (mm)	NUMBER	Provided through as-built plan or digital submission. Endwall height in millimetres. A value of -2 indicates that the height was not given or is unknown.			
ENDWALL_WIDTH	Endwall Width (mm)	NUMBER	Provided through as-built plan or digital submission. Endwall width in millimetres. A value of -2 indicates that the width was not given or is unknown.			
ENDWALL_MATERIAL	Endwall Material	VARCHAR2	Provided through as-built plan or digital submission. Endwall material.			
WINGWALL_HEIGHT	Wingwall Height (mm)	NUMBER	Provided through as-built plan or digital submission. Wingwall height in millimetres. A value of -2 indicates that the height was not given or is unknown.			
WINGWALL_WIDTH	Wingwall Width (mm)	NUMBER	Provided through as-built plan or digital submission. Wingwall width in millimetres. A value of -2 indicates that the width was not given or is unknown.			
WINGWALL_MATERIAL	Wingwall Material	VARCHAR2	Provided through as-built plan or digital submission. Wingwall material.			
INSTALLATION_DATE	Installation Date	DATE	Date the feature was installed			
INSTALLATION_YEAR	Installation Year	NUMBER	Year the asset was installed. Usually a database maintained field.			
ACQUISITION	How the city received or acquired the outlet	VARCHAR2	Input by GIS staff. Identification of how the city received or acquired the feature. If the feature came through the subdivision process it is considered 'DONATED' and if not it is 'PURCHASED'	PSABAacquisition		DONATED; PURCHASED
ISSUE_NOTES	Issue Notes	VARCHAR2	CoK maintained field. Open text field that is used to identify or list data issues.			
ENGINEERING_NOTES	Engineering Notes	VARCHAR2	Engineering maintained field. Open text field for notes.			
CONSULTANT	Consultant that submitted drawings	VARCHAR2	Provided through as-built plan or digital submission. Open text field used to indicate the consultant that submitted drawings using the digital submission process.			

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
GROUNDWATER_SYSTEM	Is Outlet part of a Groundwater System	VARCHAR2	Provided through as-built plan or digital submission. Indicates if the outlet is a part of the groundwater system. A pick list is used for this field - contact GIS for pick list values.	YesNoLongOnly	NO	NO; YES
REL_STMFACILITYID	Related Stm Facility ID	NUMBER				
REL_STMSTREAMREACHID	Related Stm Stream Reach ID	NUMBER				
CATEGORY	Category	VARCHAR2		StmInletOutletCategory		ENGINEERED; MANHOLE; MODIFIED DOUBLE DITCH INLET CATCH BASIN; MODIFIED DOUBLE SIDE INLET CATCH BASIN; MODIFIED SIDE INLET CATCH BASIN; MODIFIED SIDE INLET CATCH BASIN MANHOLE; MODIFIED SIDE INLET DOUBLE CATCH BASIN MANHOLE; MODIFIED SINGLE INLET CATCH BASIN; MODIFIED STORM MANHOLE; NON ENGINEERED ...See GIS for a complete list...
LOCK_TYPE	Lock Type	VARCHAR2		StmLockType	NONE	BOLTED; NONE; PADLOCK
COVER_SHAPE	Cover Shape	VARCHAR2		StmShape		ARCHED; HORIZONTAL ELLIPTICAL; IRREGULAR; NOT APPLICABLE; OVAL; RECTANGULAR; ROUND; SQUARE; VERTICAL ELLIPTICAL
COVER_WIDTH	Cover Width (mm)	NUMBER				
DEPTH	Depth (m)	NUMBER				
ELEVATION_TOP	Elevation Top (mm)	NUMBER				

Column Name	Alias	Data Type	Comments	Domain Name	Default value	Domain Values
INLET_SHAPE	Inlet Shape	VARCHAR2		StmShape	ROUND	ARCHED; HORIZONTAL ELLIPTICAL; IRREGULAR; NOT APPLICABLE; OVAL; RECTANGULAR; ROUND; SQUARE; VERTICAL ELLIPTICAL
PIPE_SHAPE	Pipe Shape	VARCHAR2		StmShape	ROUND	ARCHED; HORIZONTAL ELLIPTICAL; IRREGULAR; NOT APPLICABLE; OVAL; RECTANGULAR; ROUND; SQUARE; VERTICAL ELLIPTICAL
PIPE_SIZE	Pipe Size (mm)	NUMBER		StmPipeWidthHeight	0	0; 3330; 3500; 3700; 4000; 5000; 5050; 5180; 5500; 6200 ...See GIS for a complete list...
COVER_TYPE	Cover Type	VARCHAR2		StmInletOutletCoverType		BIRDCAGE STYLE; DOUBLE CATCH BASIN; GRATE; LID; NONE; OPEN COVER; PERFORATED; SIDE INLET; SLOPED GRATE (HONEYCOMB); SOLID ...See GIS for a complete list...
PIPE_INVERT	Pipe Invert (mm)	NUMBER				

***Layer Quality:**

SCHEMATIC - spatial representation of features are not to scale and not in accurate relative position to other features on other layers.

GENERALIZED - position of features are approximate, should not be used in conjunction with base layers (parcel fabric or Ortho-imagery)

GOOD - position of features are usually based on relative position to base layers (Ortho-imagery or parcel fabric)

Note: Dataset may not include all fields: Open Data layers will only include fields approved for sharing as open data

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