



ADAC Asset Data Dictionary

4th April 2022

V5.01.00

GROUP	Project	DESCRIPTION	Data structure constraining information for Project.				
ASSET ELEMENT	DESCRIPTION	FEATURE	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL	DESCRIPTION
ADAC	<i>The ADAC element is the root element of an ADAC XML. It constrains all enclosed elements as follows. There can be no other element in the root level of the document.</i>	Project	<p><i>The Project element encloses all data that is common to the whole project.</i></p> <p><i>In Version 4.1.0, for technical simplicity, only a single project may exist within an instance document, but in future it may be feasible for multiple independent projects to be delivered in a single instance.</i></p> <p><i>In version 4.2.0 while this limitation remains, certain fields at the project level have been repeated at the asset level to allow assets to differ from the global values set in Project</i></p>	<p>ExportDateTime <i>Export date and time in UTC. Format is yyyy-mm-ddThh:mm:ssZ (eg 2006-08-08T20:00:00Z) ISO 8601.</i></p> <p>Name <i>The project or development name.</i></p> <p>Owner <i>Are assets for the whole project owned by Council or another entity.</i></p> <p>Receiver <i>The receiver of the ADAC file</i></p> <p>WorksApprovalID <i>The works approval ID for the development that this information represents.</i></p> <p>DrawingNumber <i>The Council drawing number of the as constructed plans. This may not be known at the time of compilation.</i></p> <p>DrawingRevision <i>Date the drawing was revised. ISO 8601 is the accepted format.</i></p> <p>ConstructionDate <i>The accepted date of construction for the whole project. Usually the project completion date. ISO 8601 is the accepted format.</i></p> <p>CoordinateSystem <i>Date may be used to calculate remaining life in an asset management system.</i> <i>Records the particulars of the horizontal and vertical coordinate systems for the whole project.</i></p> <p>DrawingExtents <i>The rectangular coordinate envelope enclosing the project area</i></p> <p>Description <i>Descriptive text summarising the project.</i></p> <p>ProjectStatus <i>The reason for the ADAC file creation. This is not the same as Asset_status, which is at the asset level</i> <i>Submission Status is usually related to the development assesment process or to data transfer between entities or systems</i></p> <p>Software <i>Details of the software product used to create the ADAC data set.</i></p> <p>Surveyor <i>Structure containing information from the certifying surveyor.</i></p> <p>Engineer <i>Structure containing information from the certifying engineer.</i></p> <p>ProjectData</p>	<p>HorizontalCoordinateSystem <i>Specifies the horizontal coordinate system used. e.g. MGA56. Well known projections may be referred to by name only. All spatial information in the project will be considered to be referenced to this system. If custom local plane systems or projections are used by agreement with the receiver, then any parameters should be specified in the notes.</i></p> <p>HorizontalDatum <i>To Specify the Datum that the Horizontal Coordinate System is based on. E.g. GDA94.</i></p> <p>VerticalDatum <i>To Specify the Datum of Height values. E.g. AHD.</i></p> <p>IsApproximate <i>Are the values supplied accurate or approximations. If data is plane rectangular approximating MGA-56 then set to true</i></p> <p>OriginMark <i>When data is plane rectangular this is the Permanent Survey Mark used as the origin.</i></p> <p>Notes <i>To contain any additional data required to specify the coordinate system</i></p> <p>SouthWest <i>The coordinates of the southwest corner.</i></p> <p>NorthEast <i>The coordinates of the northeast corner.</i></p> <p>Product <i>The name of the software product.</i></p> <p>Version <i>The version or release number of the product.</i></p> <p>SurveyorName <i>The name of the surveyor.</i></p> <p>DateFinalSurvey <i>The date of the final survey. ISO 8601 is the accepted format.</i></p> <p>DateApproved <i>The date of the final approval. ISO 8601 is the accepted format.</i></p> <p>EngineerName <i>The name of the consulting engineer</i></p> <p>DateApproved <i>The date of approval. ISO 8601 is the accepted format.</i></p> <p>Sewerage <i>The Sewerage element encloses all sewerage (waste water) feature descriptions.</i></p> <p>Transport <i>The Roads element encloses all roads feature descriptions.</i></p> <p>WaterSupply <i>The Water element encloses all water supply feature descriptions.</i></p> <p>StormWater <i>The StormWater element encloses all stormwater feature descriptions.</i></p> <p>OpenSpace <i>The OpenSpace element encloses all public open space feature descriptions.</i></p> <p>Cadastre <i>The Cadastre element encloses all cadastral feature descriptions.</i></p> <p>Surface <i>The Surface element encloses Supplementary surface feature descriptions.</i></p> <p>Enhancements <i>The Enhancements element encloses enhancements such as annotations and dimensions.</i></p> <p>Supplementary <i>The Supplementary element encloses all feature data not described specifically in the schema. It is recommended to keep the use of unstructured data to a bare minimum.</i></p>		

ASSET GROUP	Transport	DESCRIPTION	Data structure constraining information for Road related features.
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ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION	DESCRIPTION		
Pavement	Represents an area of road pavement.	Name	The gazetted, or proposed, road name.	String 254							
		Surface	Data container for surface characteristics.	SurfaceType	The surface type of the road or street	AC	Asphalt				
						FDA	Full Depth Asphalt				
						2CBS	2 Coat Prime and Seal				
						1CBS	1 Coat Prime and Seal				
						DUST	Dust Seal				
						SMA	Stone Mastic Asphalt				
						SSSL	Slurry Seal				
						CPAV	Concrete Pavers				
						Concrete	Concrete, Stencilled/Aquaregate				
						BPAV	Brick Pavers				
		GRVL	Gravel Road								
		PMB	Poly Modified Bitumen								
		Earth	Earth								
		GCELL	Grass Cell								
		SurfaceThickness mm	The surface thickness in millimetres	positiveInteger							
		SurfaceNomWidth_m	The nominal width of the surface of the road or street as a decimal number in metres.	Float_Positive_NonZero							
		PavementStructure	Data container for pavement structure characteristics.	PavementType	Pavement construction type	Flexible	Flexible pavement				
Rigid	Rigid pavement										
BaseLayer	Describes the pavement base layer			LayerType	Construction type of the base layer. Must be Concrete if PavementType is Rigid, otherwise must not be Concrete	GR21	Gravel 2.1 CBR80				
						GR22	Gravel 2.2 CBR60-80				
						GR23	Gravel 2.3 CBR45-60				
						GR24	Gravel 2.4 CBR35-45				
						GR25	Gravel 2.5 CBR15-35				
						NGRL	Natural Gravel/Conglomerate				
						Earth	Earth				
						AC	Asphalt				
						Concrete	Concrete				
						LayerDepth mm	Base layer depth in millimetres	Float_Positive_NonZero			
Stabilisation	Base layer stabilisation method	Lime	Lime								
		Foamed Bitumen	Foamed Bitumen								
Geogrid	Earth Reinforcing Mat	Geogrid	Earth Reinforcing Mat								
		Cement	Cement								
SubBaseLayer	Describes the pavement sub-base layer	LayerType	Construction type of the sub-base layer.	GR21	Gravel 2.1 CBR80						
				GR22	Gravel 2.2 CBR60-80						
				GR23	Gravel 2.3 CBR45-60						
				GR24	Gravel 2.4 CBR35-45						
				GR25	Gravel 2.5 CBR15-35						
				NGRL	Natural Gravel/Conglomerate						
				Earth	Earth						
				LayerDepth mm	Sub-base layer depth in millimetres	Float_Positive_NonZero					
				Stabilisation	Sub-base layer stabilisation method	Lime	Lime				
						Foamed Bitumen	Foamed Bitumen				
Geogrid	Earth Reinforcing Mat	Geogrid	Earth Reinforcing Mat								
		Cement	Cement								
LowerSubBaseLayer	Describes the pavement lower sub-base layer	LayerType	Construction type of the lower sub-base layer.	GEOT	Geotextile						
				Rock	Rock						
				GTRK	Geotextile/Rock						
				GR25	Gravel 2.5 CBR15-35						
				LayerDepth mm	Lower sub-base layer depth in millimetres	Float_Positive_NonZero					
				Stabilisation	Lower sub-base layer stabilisation method	Lime	Lime				
						Foamed Bitumen	Foamed Bitumen				
				Geogrid	Earth Reinforcing Mat	Geogrid	Earth Reinforcing Mat				
						Cement	Cement				
				PavementGeoTextile	Pavement geotextile type. Road Pavement Geotextile Types As per MRS11-27 Table 3.	Class A	G Rating range 900 up to 1350				
Class B	G Rating range 1350 up to 2000										
Class C	G Rating range 2000 up to 3000										
Class D	G Rating range 3000 up to 4500										
Class E	G Rating 4500										
SubGrade	Data container for subgrade structure characteristics.	CBR	California Bearing Ratio. An expression of the load bearing and shear properties of the material.	positiveInteger							
				Stabilisation	Subgrade stabilisation method	Lime	Lime				
				Foamed Bitumen	Foamed Bitumen						
				Geogrid	Earth Reinforcing Mat						
				Cement	Cement						
				geometry_area_multipatch_complex							
Geometry	Polygon geometry delineating the pavement area in coordinate space										
Parking	Represents an area of parking pavement.	Name	Parking area name	String 254							
		NoOfCarparks	Number of individual vehicle spaces.	positiveInteger							
		OnOffStreet	Value indicating whether the parking is an uninterrupted part of the road pavement, or	On Street	On street parking						
				Off Street	Off street parking						
		Surface	Data container for surface characteristics.	SurfaceType	The surface type of the parking area	AC	Asphalt				
						FDA	Full Depth Asphalt				
						2CBS	2 Coat Prime and Seal				
						1CBS	1 Coat Prime and Seal				
						DUST	Dust Seal				
						SMA	Stone Mastic Asphalt				
						SSSL	Slurry Seal				
						CPAV	Concrete Pavers				
CONC	Concrete, Stencilled/Aggregate										
BPAV	Brick Pavers										
GRVL	Gravel Road										
PMB	Poly Modified Bitumen										
Earth	Earth										
GCELL	Grass Cell										
SurfaceThickness mm	The surface thickness in millimetres	positiveInteger									
SurfaceArea_sqm	The area of the parking surface as a decimal number in square metres.	Float_Positive_NonZero									
PavementStructure	Data container for pavement structure characteristics.	PavementType	Pavement construction type	Flexible	Flexible pavement						
				Rigid	Rigid pavement						
BaseLayer	Describes the pavement base layer	LayerType	Construction type of the base layer. Must be Concrete if PavementType is Rigid, otherwise must not be Concrete	GR21	Gravel 2.1 CBR80						
				GR22	Gravel 2.2 CBR60-80						
GR23	Gravel 2.3 CBR45-60										

ASSET TYPE	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION	DESCRIPTION
								GR24 GR25 NGRL ERTH AC Concrete	Gravel 2.4 CBR35-45 Gravel 2.5 CBR15-35 Natural Gravel/Conglomerate Earth Asphalt Concrete
						LayerDepth mm	Base layer depth in millimetres		Float Positive NonZero
						Stabilisation	Base layer stabilisation method	Lime Foamed Bitumen Geogrid Cement	Lime Foamed Bitumen Earth Reinforcing Mat Cement
				SubBaseLayer	Describes the pavement sub-base layer	LayerType	Construction type of the sub-base layer.	GR21 GR22 GR23 GR24 GR25 NGRL ERTH	Gravel 2.1 CBR80 Gravel 2.2 CBR60-80 Gravel 2.3 CBR45-60 Gravel 2.4 CBR35-45 Gravel 2.5 CBR15-35 Natural Gravel/Conglomerate Earth
						LayerDepth mm	Sub-base layer depth in millimetres		Float Positive NonZero
						Stabilisation	Sub-base layer stabilisation method	Lime Foamed Bitumen Geogrid Cement	Lime Foamed Bitumen Earth Reinforcing Mat Cement Default Value
				LowerSubBaseLayer	Describes the pavement lower sub-base layer	LayerType	Construction type of the lower sub-base layer.	GEOT Rock GTRK GR25	Geotextile Rock Geotextile/Rock Gravel 2.5 CBR15-35
						LayerDepth mm	Lower sub-base layer depth in millimetres		Float Positive NonZero
						Stabilisation	Lower sub-base layer stabilisation method	Lime Foamed Bitumen Geogrid Cement	Lime Foamed Bitumen Earth Reinforcing Mat Cement
		PavementGeoTextile	Pavement geotextile type.	Class A Class B Class C Class D Class E	G Rating range 900 up to 1350 G Rating range 1350 up to 2000 G Rating range 2000 up to 3000 G Rating range 3000 up to 4500 G Rating 4500				
		SubGrade	Data container for subgrade structure characteristics.	CBR	California Bearing Ratio. An expression of the load bearing and shear properties of the material.		positiveInteger		
				Stabilisation	Subgrade stabilisation method	Lime Foamed Bitumen Geogrid Cement	Lime Foamed Bitumen Earth Reinforcing Mat Cement		
		Geometry	Polygon geometry delineating the pavement area in coordinate space.		geometry_area_multipatch_complex				
RoadEdge	Represents an edge feature of a pavement area.	Type	Road edge configuration	Barrier Kerb Barrier Kerb and Channel Semi-Mountable Kerb Semi-Mountable Kerb and Channel Mountable Kerb Mountable Kerb and Channel Edge Restraint Channel Separation Kerb	Barrier Kerb Barrier Kerb and Channel Semi-Mountable Kerb Semi-Mountable Kerb and Channel Mountable Kerb Mountable Kerb and Channel Edge Restraint Channel Separation Kerb				
		Material	Material of Road Edge.	Concrete Reinforced Concrete Asphalt Other	Concrete Reinforced Concrete Asphalt Other				
		Width mm	Width in millimetres of the Edge feature.		positiveInteger				
		Length m	Length in metres of edge material.		Float Positive NonZero				
		PavementExtension_mm	The pavement extension, in millimetres, behind the back of kerb.		positiveInteger				
		Geometry	Polyline geometry describing the feature in coordinate space.		geometry_linear_multipath_complex				
RoadIsland	Represents an area of road island, local traffic calming, or median structure. Where the structure incorporates water sensitive urban design (WSUD) features, those features should be independently captured.	Type	Type of Road Island	Splitter Pedestrian Refuge Center Median Roundabout Road Hump Chicane LATM	Splitter Island Pedestrian Refuge Center Median Roundabout Road Hump - speed management measure Chicane - often constricting passage to a single lane Local Area Traffic Management feature				
		Area_sam	The area, in square metres, of the infill.		Float Positive NonZero				
		InfillType	Type of Road Island Infill	AC Concrete Grass Gravel Landscape Pavers Synthetic Grass Rubber Other Material	Asphalt Concrete Grass Gravel Landscape Pavers Synthetic Grass Rubber Other Material				
		Geometry	Polygon geometry describing the feature in coordinate space.		geometry_area_multipatch_complex				
Pathway	Represents an on-ground footpath or cycleway feature. Do not use to describe on-road cycleway.	Use	Intended traffic use of the structure.	Shared CycleWay Pedestrian Horse Trail Mountain Bike Fire Trail	Shared Pedestrian and Cycleway Bicycles only Pedestrians only Defined use horse trail Defined use mountain bike trail Fire Trail				
		Structure	Type of pathway structure. A fixed value of In Ground is required for this sub type	In Ground (hardcoded)	String_32				
		SurfaceMaterial	Surface material of the structure.	Concrete CPAV BPAV Bitumen Gravel	Concrete Concrete Pavers Brick Pavers Bitumen Gravel				

ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION	DESCRIPTION
				Earth Steel Stone Timber Sand	Earth Steel Stone Timber Sand				
		Width_m	Nominal width of the pathway in metres.		Float_Positive_NonZero				
		Depth_mm	The nominal depth of the pathway material in millimetres.		positiveInteger				
		Geometry	Polyline geometry describing the feature in coordinate space.		geometry_linear_singlepath_complex				
RoadPathway	Represents a linear section of on-road cycleway.	Use	Intended traffic use of the structure. A fixed value of CycleWay is applied to this sub type.	Shared CycleWay (hardcoded) Pedestrian Horse Trail Mountain Bike Fire Trail	Shared Pedestrian and Cycleway Bicycles only Pedestrians only Defined use horse trail Defined use mountain bike trail Fire Trail				
		Structure	Type of pathway structure. A fixed value of On Road is required for this sub type	On Road (hardcoded)	String_32				
		SurfaceMaterial	Surface material of the structure. A fixed value of Road Pavement is applied to this sub type.	Road Pavement (hardcoded)	String_32				
		Width_m	Nominal width of the marked pathway in metres.		Float_Positive_NonZero				
		Geometry	Polyline geometry describing the feature in coordinate space.		geometry_linear_singlepath_complex				
PathStructure	Represents a structure functioning as a linear section of footpath or cycleway. Do not use to describe on-road cycleway.	Use	Intended traffic use of the structure.	Shared CycleWay Pedestrian Horse Trail Mountain Bike Fire Trail	Shared Pedestrian and Cycleway Bicycles only Pedestrians only Defined use horse trail Defined use mountain bike trail Fire Trail				
		Structure	Type of pathway structure.	Boardwalk Causeway Foot Bridge Stairs Ramp Underpass	Boardwalk Causeway Foot Bridge Stairs Ramp Underpass				
		SurfaceMaterial	Surface material of the structure.	Concrete CPAV BPAV Blumen Gravel Earth Steel Stone Timber Sand	Concrete Concrete Pavers Brick Pavers Blumen Gravel Earth Steel Stone Timber Sand				
		SubStructureMaterial	Material of the sub structure.	Concrete Steel Stone Brick Timber	Concrete Steel Stone Brick Timber				
		Width_m	Nominal width of the pathway in metres.		Float_Positive_NonZero				
		Geometry	Polyline geometry describing the feature in coordinate space.		geometry_linear_singlepath_complex				
RoadSafetyBarrier	Represents a barrier dedicated to transport features.	Type	The type of road safety barrier employed.	Energy-absorbing Bollard Energy-absorbing Terminal Flexible Flexible/Rigid Combination Flexible/Semi-rigid Combination Rigid Rigid/Semi-rigid Combination Semi-rigid	Energy-absorbing Bollard Energy-absorbing Terminal Wire Rope Combination of wire rope and concrete or similar barrier Flexible/Semi-rigid Combination Concrete barrier or similar with very little deflection Combination of concrete or similar barrier and W or Thrie beam W beam or Thrie beam				
		LeadingEndTreatment	The type of Leading End treatment.	Breakmaster ET2000 Plus Extension 350 FLEAT MELT NEAT Omnistop QuadGuard QuadGuard Elite QuadGuard Wide QuadTrend 350 React 350 Rubber Crash Cushion SKT TAU II Thrie-Beam bull nose TRACC	Breakmaster ET2000 Plus Extension 350 FLEAT MELT NEAT Omnistop QuadGuard QuadGuard Elite QuadGuard Wide QuadTrend 350 React 350 Rubber Crash Cushion SKT TAU II Thrie-Beam bull nose TRACC				
		TrailingEndTreatment	The type of Trailing End treatment.	Breakmaster DOT ET2000 Plus Extension 350 FLEAT MELT Omnistop QuadGuard QuadGuard Elite QuadGuard Wide QuadTrend 350 React 350 Rubber Crash Cushion SKT TAU II Thrie-Beam bull nose	Breakmaster DOT ET2000 Plus Extension 350 FLEAT MELT Omnistop QuadGuard QuadGuard Elite QuadGuard Wide QuadTrend 350 React 350 Rubber Crash Cushion SKT TAU II Thrie-Beam bull nose				

ASSET TYPE	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION \DETAIL	DESCRIPTION	ENUMERATION	DESCRIPTION
		StandardHeight	Is barrier height standard?	TRACC	TRACC				
		Height_m	Nominal height of the barrier in metres.		boolean				
		Length_m	Nominal length of the barrier in metres including terminals.		Float_Positive NonZero				
		MotorcyclistProtectionType	The type of motorcyclist protection rail.	Rub Rail Hiassa Rail None	Rub Rail Hiassa Rail None				
		PedestrianProtectionSheeting	as pedestrian protection sheeting been installed?		boolean				
		BridgeTransition	Is this a bridge transition?		boolean				
		StandardPostSpacing	Is the post spacing standard?		boolean				
		PostSpacing_m	Spacing of posts in metres.		Float_Positive NonZero				
		PostType	The type of post installed with road safety barrier.	Steel Timber	Steel Timber				
		RailType	The type of rail installed with road safety barrier.	Steel Timber	Steel Timber				
		HorizontalAlignment	Horizontal alignment of road safety barrier.	Straight Convex Concave	Straight Convex Concave				
		NumberOfBollards	Number of bollards.		positiveinteger				
		Geometry	Polyline geometry describing the feature in coordinate space.		geometry_linear_multipart_complex				
PramRamp	Represents a pram ramp or disabled entry-point to a road edge as a point object	Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction				
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint				
PramRampPolygon	Represents a pram ramp or disabled entry-point to a road edge as a polygon object	Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction				
		Geometry	The geometry representing this feature in coordinate space.		geometry_area_singlepatch_complex				
SubSoilDrain	Represents a road sub-soil drain. Formerly called RoadSubsoilDrain in ADAC Version 3.0.1	Use	The use (orientation) of the drain.	Side Drain Mitre Drain	Parallel to the kerb Cross road drain				
		Type	The type (configuration) of the drain.	Perforated Pipe Strip Filter	Perforated Pipe with textile sleeve Strip Filter Drain				
		Length_m	The length in metres of the drain.		Float_Positive NonZero				
		Geometry	Polyline geometry representing the centreline of the sub-soil drain in coordinate space.		geometry_linear_singlepath_simple				
FlushPoint	Represents a sub-soil drain flush point.	Function	The function of the flushing out point	Cleanout Surface Outlet	A cleanout flushpoint inlet generally protected by a sunken valve box. May have a removable cap on the pipe mouth. A subsoil drain outlet point discharging to the surface, rather than into a gully pit or manhole etc.				
		Geometry	Point geometry representing the flush point of the sub-soil drain in coordinate space.		geometry_point_singlepoint				
BridgeExtent	Describes the envelope or footprint for the whole structure and all of its parts. It holds properties that apply at the assembly level.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		Name	Road name or nearest road where bridge resides, or the recognised name of the bridge.		String_254				
		Use	Predominant use of bridge.	Cycleway Fauna Pedestrian Rail Road Shared Stock	Cycleway Fauna Pedestrians and/or bicycle. Rail Road Road Shared Stock				
		Type	Type of bridge construction.	Arch Beam Box Girder Cable-Stayed Cantilever Deck Unit Moveable Open Girder Slab Suspension Tressle Truss	Arch Beam Box Girder Cable-Stayed Cantilever Deck Unit Moveable Open Girder Slab Suspension Tressle Truss				
		CrossingType	The layout and configuration of this structure.	Fresh Water Land Rail Road Salt Water	Fresh Water Land Rail Road Salt Water				
		Spans	Number of spans.		positiveinteger				
		MinimumClearance_m	Minimum clearance in metres.		float				
		PredominantMaterial	Predominant Material of bridge.	Aluminium Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel Timber	Aluminium Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel Timber				
		DesignLoad	Design load of bridge as per AS5100.		String_64				
		Geometry	The geometry representing this feature in coordinate space.		geometry_area_singlepatch_complex				
BridgeDeck	Represents a single deck unit between abutments or supports. There may be one or more BridgeDeck objects for any given bridge assembly.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		Material	Material types for Bridge deck.	Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel	Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel				

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		NomWidth_m	Nominal Width of deck in metres.	Timber	Timber				
		DeckLength_m	Length of Bridge deck between joints at abutments in metres.		Float_Positive_NonZero				
		Geometry	The geometry representing this feature in coordinate space.		Float_Positive_NonZero				
					geometry_area_multipart_complex				
ContainmentClass	Containment Class of Parapet/Railing as per AS5100.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		ContainmentClass	Containment Class of Parapet/Railing as per AS5100.	Low Regular Medium Special	Low Regular Medium Special				
BridgeSuperstructure	Represents superstructure of bridge.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		Material	Material types for the Superstructure.	Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel Timber	Fibre Composite Prestressed Cast-Insitu Concrete Prestressed Precast Concrete Reinforced Concrete Steel Timber				
		Geometry	The geometry representing this feature in coordinate space.		geometry_area_multipart_complex				
BridgeAbutment	Represents the extent of one abutment for a bridge assembly. A BridgeAbutment will be independently described at each end of the structure.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		Material	The predominant material of the abutment.	Compressed Aggregate Masonry Prestressed Precast Concrete Reinforced Concrete Steel Timber	Compressed Aggregate Masonry Prestressed Precast Concrete Reinforced Concrete Steel Timber				
		Geometry	The geometry representing this feature in coordinate space.		geometry_area_multipart_complex				
BridgePier	Represents a single supporting structure that supports deck spans between abutments.	BridgeID	Unique identifier, used to associate components of the same bridge assembly.		String_64				
		Material	Predominant Pier material type.	Composite Masonry Prestressed Precast Concrete Reinforced Concrete Steel Stone Timber	Composite Masonry Prestressed Precast Concrete Reinforced Concrete Steel Stone Timber				
		Geometry	The geometry representing this feature in coordinate space.		geometry_area_multipart_complex				

ASSET GROUP	Stormwater	DESCRIPTION	Data structure constraining information for Stormwater features.										
ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION		
Pit	Represents a stormwater maintenance hole or pit feature.	PitNumber	The pit identifier.	String_32									
		Use	Purpose of the feature in the network.	Maintenance Hole Pit Kerb Inlet Field Inlet Roofwater Inspection Chamber Roofwater Outlet	Maintenance or access point Pit only - no access Kerb Inlet Field Inlet Roofwater Inspection Chamber Roofwater outlet to swale								
		ChamberConstruction	Method of chamber construction.	Prefabricated Insitu	Prefabricated Built or poured in-situ								
		ChamberSize	Represents the essential dimensions of the chamber. Contains a choice of structures that pertain to different configurations.	Rectangular	Dimensions of a rectangular chamber.	Length_m Width_m	Length in millimetres Width in millimetres			positiveInteger			
				Circular	Dimensions of a circular chamber. Drainage Manhole Circular Internal Diameter.	Diameter_m	Diameter in millimetres			positiveInteger			
				Extended	Dimensions of a circular chamber.	Radius_m Extension_m	Radius in millimetres, of the circular ends Distance, in millimetres, between the centre points of the circular ends			positiveInteger		positiveInteger	
		LidType	The type of lid or grate covering the opening.	Circ Cast Iron Circ Conc Infill Sqr Cast Iron Sqr Conc Infill Rect Cast Iron Rect Conc Infill CI Frame Conc Infill Precast Cover Slabs	Circular Cast Iron Lid Circular Concrete Infill Lid Square Cast Iron Lid Square Concrete Infill Lid Rectangular Cast Iron Rectangular Concrete Infill Lid Cast Iron Frame Concrete Infill Long Rectangular Concrete Cover Slabs (usually 2 per pit)								
		SurfaceLevel_m	Surface level of this feature (in metres against the vertical datum).		float								
		InvertLevel_m	Invert level of this feature (in metres against the vertical datum).		float								
		Depth_m	The depth of the structure in metres. May be user-entered, or auto-calculated as the difference between the surface level and the invert level of the pit.		Float_Positive_NonZero								
		Inlet	Represents a surface inlet to the pit. Set to nil if this pit does not have a surface inlet	InletConfig	Positioning of the inlet against the pit.	Left Centre Right	Left hand side Centre Right hand side						
				InletType	The type of inlet employed.	Galv Grate Cast Iron Grate Hydroflow Grate Cast Iron Bike/Ped Safe Grate Field Inlet Dome Top Grate Field Inlet Surcharge Grate Field Inlet Flush Grate KIL Gully LIL Gully Anti-Ponding Gully Bro-Pit Kerb Inlet Drainway Kerb Inlet OTHER - Field Inlet OTHER - KIL Gully OTHER - LIL Gully OTHER - Side Entry Pit OTHER - Trench Grate Null Note	Galvanised Steel Grate Cast Iron Grate Hydroflow Grate Cast Iron Bicycle and Pedestrian Safe Grate Galvanised, raised dome top grate for a field inlet Field Inlet Surcharge Grate Field Inlet Flush Grate Kerb Inline Gully Pit Lip Inline Gully Pit Anti-Ponding Gully Bro-Pit Kerb Inlet Drainway Kerb Inlet Council Specific Field Inlet Council Specific Kerb Inline Gully Pit Council Specific Lip Inline Gully Pit Council Specific Side Entry Pit Council Specific Trench Grate Null asset only applicable when Use != Pit.						
				InletSize	Dimensions of the inlet e.o. Diameter or Length x Width.		String_32						
				InletConstruction	Method of inlet construction.		Prefabricated Insitu						
				InletLength_m	Represents the length in metres of the inlet.		Float_Positive_NonZero						
		OutletType	The type of outlet for this pit.	Dry Surcharge	Dry Surcharge								
		FireRetardant	True of false value indicating whether fire retardant measures are incorporated.		boolean								
		Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction								
		Geometry	Point geometry representing the manhole or pit feature in coordinate space.		geometry_point_singlepoint								
		EndStructure	Represents a stormwater endstructure feature as a Point object	StructureID	The identifier for this end structure. Usually the textual identifier it would be labelled with on the face of a plan.	String_32							
StructureLevel_m	The surface level of the structure in metres against the vertical datum for the project.				float								
EndWall	Data structure representing the end wall. Set to nil if this End Structure does not have an end wall.			Type	The type of stormwater end wall structure	Pipe Endwall Box Endwall Multi Cell Pipe Endwall Multi Cell Box Endwall Multi Cell Pipe and Box Endwall Sloping Pipe Endwall	Pipe Endwall Box Endwall Multi Cell Pipe Endwall Multi Cell Box Endwall Multi Cell Pipe and Box Endwall Sloping Pipe Endwall						
				Size	Define the number of cells and sizes penetrating the End Structure ie. 3/750 or 2/1200x900 or 2/900x600+1/600		String_32						
				Length_m	Represents the length in metres of the end wall.		Float_Positive_Zero						
				Height_m	Represents the height in metres of the end wall.		Float_Positive_Zero						
				Thickness_m	Represents the Thickness in metres of the end wall.		Float_Positive_Zero						
				Material	The predominant construction material of the end wall structure.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A	Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present						
				Construction	The method of construction of the end wall structure.		Prefabricated Insitu						
WingWall	Data structure representing the wing wall. Set to nil if this End Structure does not have any wing walls.			LWW_Length_m	Represents the length in metres of the left wing wall.		Float_Positive_Zero						
				LWW_Height_m	Represents the height in metres of the left wing wall.		Float_Positive_Zero						
				LWW_Thickness_m	Represents the thickness in metres of the left wing wall.		Float_Positive_Zero						
				LWW_Material	The predominant construction material of the left wing wall.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A	Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present						
				LWW_Construction	The method of construction of the left wing wall.		Prefabricated Insitu						
RWW_Length_m	Represents the length in metres of the right wing wall.				Float_Positive_Zero								
RWW_Height_m	Represents the height in metres of the right wing wall.		Float_Positive_Zero										
RWW_Thickness_m	Represents the thickness in metres of the right wing wall.		Float_Positive_Zero										
RWW_Material	The predominant construction material of the right wing wall.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A	Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present										

ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION			
		Apron	Data structure representing the apron.	RWW_Construction	The method of construction of the right wing wall.	Prefabricated In situ	Prefabricated Built or poured in-situ							
			Apron_Width_m	Represents the width in metres of apron on the End Structure.	Apron_Thickness_m	Represents the thickness in metres of apron on the End Structure.		Float_Positive_Zero						
			Apron_Area_m2	Represents the area in square metres of apron on the End Structure.	Apron_Material	The predominant construction material of apron on the End Structure.	Grassed Concrete Stone Pitched Placed Rock Grouted Rock Revetment Mattress Rock Filled Wire Basket Geotextile Concrete Energy Dissepiment N/A	Grassed banks Concrete Stone Pitched Placed Rock Grouted Rock Revetment Mattress Rock Filled Wire Basket Geotextile Concrete Energy Dissepiment Not Applicable - To be used if not present						
			Apron_Construction	The method of construction of apron on the End Structure.		Prefabricated In situ	Prefabricated Built or poured in-situ							
			GrateType	Type of grate used, if applicable.	Baffled Grated Stilling Basin None	Baffled Grated Siltino basin No grate fitted								
			TideGate	Type of tide or flood gate used, if applicable.	Fibreglass Proprietary Fabricated Controlled Rubber None	Fibreglass proarietary Fabricated Controlled Rubber No tidegate fitted								
			Geometry	Point geometry representing the EndStructure in coordinate space.	geometry_point_singlepoint									
			EndStructurePolyline	Represents a stormwater endstructure feature as a Polyline object	StructureID	The identifier for this end structure. Usually the textual identifier it would be labelled with on the face of a plan.	String_32							
			StructureLevel_m	The surface level of the structure in metres against the vertical datum for the project.	float									
					EndWall	Data structure representing the end wall. Set to nil if this End Structure does not have an end wall.	Type	The type of stormwater end wall structure	Pipe Endwall Box Endwall Multi Cell Pipe Endwall Multi Cell Box Endwall Multi Cell Pipe and Box Endwall Sloping Pipe Endwall	Pipe Endwall Box Endwall Multi Cell Pipe Endwall Multi Cell Box Endwall Multi Cell Pipe and Box Endwall Sloping Pipe Endwall				
Size	Define the number of cells and sizes penetrating the End Structure ie. 3/750 or 2/1200x900 or 2/900x600+1/600.					String_32								
Length_m	Represents the length in metres of the end wall.					Float_Positive_Zero								
Height_m	Represents the height in metres of the end wall.					Float_Positive_Zero								
Thickness_m	Represents the Thickness in metres of the end wall.					Float_Positive_Zero								
Material	The predominant construction material of the end wall structure.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A				Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present								
Construction	The method of construction of the end wall structure.					Prefabricated In situ	Prefabricated Built or poured in-situ							
WingWall	Data structure representing the wing wall. Set to nil if this End Structure does not have any wing walls.	LWW_Length_m				Represents the length in metres of the left wing wall.		Float_Positive_Zero						
LWW_Height_m	Represents the height in metres of the left wing wall.					Float_Positive_Zero								
LWW_Thickness_m	Represents the thickness in metres of the left wing wall.					Float_Positive_Zero								
		LWW_Material	The predominant construction material of the left wing wall.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A	Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present									
			LWW_Construction	The method of construction of the left wing wall.		Prefabricated In situ	Prefabricated Built or poured in-situ							
			RWW_Length_m	Represents the length in metres of the right wing wall.		Float_Positive_Zero								
			RWW_Height_m	Represents the height in metres of the right wing wall.		Float_Positive_Zero								
			RWW_Thickness_m	Represents the thickness in metres of the right wing wall.		Float_Positive_Zero								
			RWW_Material	The predominant construction material of the right wing wall.	Concrete Reinforced Concrete Grouted Rock Revetment Mattress N/A	Concrete Reinforced Concrete Grouted Rock Revetment Mattress Not Applicable - To be used if not present								
			RWW_Construction	The method of construction of the right wing wall.		Prefabricated In situ	Prefabricated Built or poured in-situ							
			Apron	Data structure representing the apron.	Apron_Width_m	Represents the width in metres of apron on the End Structure.	Apron_Thickness_m	Represents the thickness in metres of apron on the End Structure.		Float_Positive_Zero				
			Apron_Area_m2	Represents the area in square metres of apron on the End Structure.	Apron_Material	The predominant construction material of apron on the End Structure.	Grassed Concrete Stone Pitched Placed Rock Grouted Rock Revetment Mattress Rock Filled Wire Basket Geotextile Concrete Energy Dissepiment N/A	Grassed banks Concrete Stone Pitched Placed Rock Grouted Rock Revetment Mattress Rock Filled Wire Basket Geotextile Concrete Energy Dissepiment Not Applicable - To be used if not present						
			Apron_Construction	The method of construction of apron on the End Structure.		Prefabricated In situ	Prefabricated Built or poured in-situ							
		GrateType	Type of grate used, if applicable.	Baffled Grated Stilling Basin None	Baffled Grated Siltino basin No grate fitted									
			TideGate	Type of tide or flood gate used, if applicable.	Fibreglass Proprietary Fabricated Controlled Rubber None	Fibreglass proarietary Fabricated Controlled Rubber No tidegate fitted								
			Geometry	Point geometry representing the EndStructure in coordinate space.	geometry_linear_singlepath_simple									
			Fitting	Represents a point fitting in a stormwater system.	FittingType	The type of stormwater fitting.	End Cap Tide Gate Froq Flap Duckbill Valve	A stormwater end cao Tide Gate Froq Flap Duckbill Valve						
			Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction								
			Geometry	Point geometry representing the fitting in coordinate space.	geometry_point_singlepoint									
			Pipe	Represents a stormwater pipe feature.	US_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum).	float							

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		DS_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum).	float					
		US_SurfaceLevel_m	Surface level (in metres against the vertical datum) vertically above this pipe end.	float					
		DS_SurfaceLevel_m	Surface level (in metres against the vertical datum) vertically above this pipe end.	float					
		PipeStructure	Container for a choice of pipe cross-sectional measures.	CircPipe	Data structure describing stormwater pipe with a circular cross section	Diameter mm	The internal diameter of the pipe in millimetres.	Material	The pipe wall material
								RCP	Steel Reinforced Concrete Pipe
								FRC	Fibre Reinforced Concrete Pipe
								PVC-U	PolyVinylChloride Unplasticised
								HDPE	High Density Polyethylene (includes the product known commercially as Haries Black Brute)
								PP	Polypropylene Pipe (also known as Black Max)
								RPP	Ribbed Polypropylene Pipe (also known as RibStruct)
								GRP	Glass Reinforced Plastic (includes the product known commercially as Hobas)
								CSP	Helically Corrugated Galv Steel Pipe
								CAP	Helically Corrugated Aluminium Pipe
								SFRC	Slotted fibre reinforced concrete
						Class	The pipe wall class		Class 1
									Class 2
									Class 3
									Class 4
									Class 6
									Class 8
									Class 10
									Class SN2
									Class SN4
									Class SN6
						JointType	The joint type of the pipe section		FJ
									Flush Joint
									RJ
									Rubber Ring Joint
									SWJ
									Solvent Welded Joint
				BoxPipe	Rectangular pipe cross-sectional description.	Height mm	Height in millimetres of the internal cross section	Material	Wall material of the box section.
						Width mm	Width in millimetres of the internal cross section		
								RBCB	Reinforced Concrete Box Culvert
								SLBC	Slab Link Box Culvert
								RUBBLE	Rubble Infiltration Drain
						Class	The pipe wall class		Class 1
									Class 2
									Class 3
									Class 4
									Class 6
									Class 8
									Class 10
									Class SN2
									Class SN4
									Class SN6
		Cells	The number of cells in the pipe course.	positiveInteger					
		ConcreteCoverType	The pipe protection regime employed.	Standard	Standard				
				Saltwater	Saltwater				
		Grade	Pipe gradient as a percentage. Derivable from invert levels and horizontal length.	Float_Positive_Zero					
		Length_m	Pipe material length in metres.	Float_Positive_NonZero					
		Geometry	Polyline geometry representing the feature in coordinate space. The recommendation for multicell courses is to store multiple paths within the polyline. It is recommended that all paths are digitised in the direction of flow.	geometry_linear_multipart_simple					
SurfaceDrain	Represents a linear surface drain. May include natural features as well as constructed where they function as part of a contributed asset.	Type	The type of drain or channel.	Canal	Canal				
				Open Drain	Open Drain				
				Overland Flow Path	Overland Flow Path				
				Flat Open Surface	Flat Open Surface				
				Natural Waterway	Natural Waterway				
				Infiltration Trench	Infiltration Trench				
				Batter Chute	Structure to convey runoff down a cut or fill batter and discharge at either non-rosive velocities or onto a non-erodable surface.				
				Diversion Drain	Diversion Drain. Also called Whoa Boy, check, cross or roll over banks. Constructed to divert water off a track without causing erosion.				
		DrainShape	Cross-sectional shape of the drain.	Flat Bottom Drain	Flat Bottom Drain				
				Vee Drain	Vee Drain				
				Swale Drain	Swale Drain				
				Natural Channel	Natural Channel				
				Diversion Profile	Diversion Profile				
		LiningMaterial	The material that the channel is lined with.	Grassed	Grassed				
				Earth	Earth				
				Concrete	Concrete				
				Stone Pitched	Stone Pitched				
				Placed Rock	Placed Rock				
				Grouted Rock	Grouted Rock				
				Revelment Mattress	Revelment Mattress				
				Rock Filled Wire Basket	Rock Filled Wire Basket				
				Natural Channel	Natural Channel				
		LinedWidth_m	The width, in metres, of the lined portion of the channel.	Float_Positive_NonZero					
		BatterMaterial	The material that the drain batter is lined with. A null value may be supplied where the drain has no batter.	Grassed	Grassed				
				Earth	Earth				
				Concrete	Concrete				
				Stone Pitched	Stone Pitched				
				Placed Rock	Placed Rock				
				Grouted Rock	Grouted Rock				
				Revelment Mattress	Revelment Mattress				
				Rock Filled Wire Basket	Rock Filled Wire Basket				
				Natural Channel	Natural Channel				
		BatterWidth_m	The total width, in metres, from lip of batter to opposite lip of batter. A null value may be supplied where the drain has no batter.	Float_Positive_NonZero					
		US_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum).	float					
		DS_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum).	float					

ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	
		AverageGrade	The average gradient over the whole length of the feature, as a percentage. Derivable from the difference in invert levels and the horizontal length of the geometry.	Float_Positive_Zero						
		Length_m	The material length, in metres, of the centreline of the channel.	Float_Positive_NonZero						
		Geometry	Polyline geometry representing the feature in coordinate space. Digitise each individual length of channel as a single unbroken path.	geometry_linear_singlepath_simple						
GPTComplex	Represents a complex commercial or custom StormWater Quality Improvement Device (SQID).	Sqid_Id	The string identifier of the device, as it would appear on a plan.	String_32						
		Construction		Commercial	Manufacturer Model	The manufacturer of the unit	String_64			
					Size	The standard code, model number or part number for the unit	String_64			
						The planimetric size of the device. This element is niltable because the manufacturer and model are mandatory, but if capture software designers wish to automatically populate the sizes from a list of known	Rectangular	Planimetric dimensions of a rectangular device	Length_mm Width_mm	Length in millimetres Width in millimetres
				Custom	Size	The dimensions of the device. This element is mandatory for custom built devices. The appropriate dimensions must be supplied	Circular	Planimetric dimensions of a circular device	Diameter_mm	Diameter in millimetres
		Function1	The first function of the WSUD point. The device must have at least one function. Usually Gross Pollutant Capture will be the most important function.	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Filtration of fine particulates from stormwater before discharging to a downstream drainage system.				
		Function2	The second function of the WSUD point, if applicable	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Filtration of fine particulates from stormwater before discharging to a downstream drainage system.				
		Function3	The third function of the device, if applicable	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Gross Pollutant Capture Sediment Capture Oil / Grit Separation Filtration	Filtration of fine particulates from stormwater before discharging to a downstream drainage system.				
		US_PipeDiameter mm	The upstream pipe diameter in millimetres	positiveInteger						
		DS_PipeDiameter mm	The downstream pipe diameter in millimetres	positiveInteger						
		SurfaceLevel_m	The surface level at the top of the device	float						
		US_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum)	float						
		DS_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum)	float						
		CleanoutLevel_m	The level to which the device must be cleaned out, in metres against the vertical datum of the project.	float						
		Depth_m	The depth, in metres, of the device.	Float_Positive_NonZero						
		SumpDepth_m	The depth, in metres, of the sump, if applicable	Float_Positive_NonZero						
		HasFilterMedia	True if the device has filtration media or a filter capsule installed.	boolean						
		HasBasket	True if the device has a litter basket installed.	boolean						
		HasBoards	True if the device has drop-boards or penstock installed.	boolean						
		DesignFlow_m3s	Design Flow in cubic metres per second	Float_Positive_NonZero						
		MaxContaminantVolume_m3	Maximum contaminant retention volume in cubic metres.	Float_Positive_NonZero						
		MaxInternalVolume_m3	Maximum internal volume in cubic metres.	Float_Positive_NonZero						
		MaintenanceCycle_mnths	The minimum maintenance cycle in months (refer to specifications)	positiveInteger						
		Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)	Float_Direction						
		Geometry	Point geometry representing the feature in coordinate space	geometry_point_singlepoint						
GPTSimple	Represents a Water Sensitive Urban Design point feature that is a simple grate, basket or net fitted to existing infrastructure. Includes custom In-Pit or End-of-Line features or In-Line features such as trash-racks on drainage lines. Spatially, these features must be collocated with pits, endstructures or placed on pipes or drainage lines. Therefore, as in reality, whether the feature is In-Pit, In-Line or End-of-Line is determined by its placement with other features.	Sqid_Id	The string identifier of the device, as it would appear on a plan.	String_32						
		Construction	The construction method	Prefabricated Insitu	Prefabricated	Built or poured in-situ				
		Manufacturer	The manufacturer if applicable		String_64					
		ModelNumber	The model if applicable		String_64					
		TreatmentMeasure	Simple treatment measures fitted to existing infrastructure to intercept solid litter being transported in stormwater.	Basket		A simple basket fitted to existing infrastructure to intercept solid litter being transported in stormwater.				
				Net		A simple net fitted to existing infrastructure to intercept solid litter being transported in stormwater.				
				Vertical Grate		A vertical grate across a drainage line or endstructure to intercept solid litter being transported in stormwater.				
				Horizontal Grate		A horizontal grate across an inlet to intercept solid litter being transported in stormwater.				
		Function1	The first function of the WSUD point. Has a fixed value because all GPTSimple points are.	String_32						
		Length mm	The length of the device	positiveInteger						
		Width mm	The width of the device	positiveInteger						
		Material	Predominant material of device	String_64						
		MaintenanceCycle_mnths	The minimum maintenance cycle in months. This is the revisit interval for clearing captured rubbish.	positiveInteger						
		Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)	Float_Direction						
		Geometry	Point geometry representing the feature in coordinate space	geometry_point_singlepoint						
NonGPTSimple	Represents a WSUD point feature that is not a simple litter trap, such as a small sand filter, sediment pond, aquifer storage, infiltration measure or energy dissipater.	Sqid_Id	The string identifier of the device, as it would appear on a plan.	String_32						
		Construction	The construction method	Prefabricated Insitu	Prefabricated	Built or poured in-situ				
		Manufacturer	The manufacturer if applicable		String_64					
		ModelNumber	The model if applicable		String_64					
		TreatmentMeasure	Treatment measures applicable to WSUD points that are neither simple nor complex Gross Pollutant Traps	Aquifer Storage Tank Energy Dissipater	Aquifer Storage Tank	An installation in a drainage line, usually of concrete or stone, designed to dissipate the kinetic energy of flowing stormwater, to minimise its potential for erosion and damage. Often placed immediately downstream of an endstructure, but may conceivably be anywhere needed in a drainage line.				
				Floating Boom Infiltration Pond	Floating Boom	Infiltration measure designed to promote infiltration of appropriately treated water to surrounding soils. The primary function of these devices is runoff volume control rather than pollutant removal.				

ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Infiltration Tank	Infiltration measure designed to promote infiltration of appropriately treated water to surrounding soils. The primary function of these devices is runoff volume control rather than pollutant removal.						
				Rubble Pit	A rubble pit designed to promote infiltration of untreated runoff to surrounding soils.						
				Sand Filter	A sand filter is a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Sediment Forebay	A Sediment Forebay, usually associated with a WSUD area to intercept coarse sediment.						
	Function1	The first function of the WSUD point. Must be supplied.		Sediment Capture	Sediment Capture						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Infiltration	Infiltration measures typically consist of holding pond or tank designed to promote infiltration of appropriately treated water to surrounding soils. The primary function of these devices is runoff volume control rather than pollutant removal.						
				Aquifer Storage	Aquifer Storage						
				Energy Dissipation	The dissipation of kinetic energy from flowing stormwater to reduce its potential for erosion and damage.						
	Function2	The second function of the WSUD point, if applicable		Sediment Capture	Sediment Capture						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Infiltration	Infiltration measures typically consist of holding pond or tank designed to promote infiltration of appropriately treated water to surrounding soils. The primary function of these devices is runoff volume control rather than pollutant removal.						
				Aquifer Storage	Aquifer Storage						
				Energy Dissipation	The dissipation of kinetic energy from flowing stormwater to reduce its potential for erosion and damage.						
	Function3	The third function of the device, if applicable		Sediment Capture	Sediment Capture						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Infiltration	Infiltration measures typically consist of holding pond or tank designed to promote infiltration of appropriately treated water to surrounding soils. The primary function of these devices is runoff volume control rather than pollutant removal.						
				Aquifer Storage	Aquifer Storage						
				Energy Dissipation	The dissipation of kinetic energy from flowing stormwater to reduce its potential for erosion and damage.						
	Length mm	The length of the device				positivelnteger					
	Width mm	The width of the device				positivelnteger					
	MaintenanceCycle_mnths	The minimum maintenance cycle in months. This is the revisit interval for maintenance or inspection, if applicable.				positivelnteger					
	Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)				Float_Direction					
	Geometry	Point geometry representing the feature in coordinate space				geometry_point_singlepoint					
Flow Management Device	Represents a Flow Management Device. Also often called a Stormwater Quality Improvement Device (SQID).										
		Sqid_id	The string identifier of the device, as it would appear on a plan.			String_32					
		Type	Stormwater Flow Management Device Type	Levee	Levee						
				Spillway	Spillway						
				Weir	Weir						
		Material	The predominant material of the Stormwater Flow Management Device.	Concrete	Concrete						
				Earth	Earth						
				Grassed	Grassed						
				Grouted Rock	Grouted Rock						
				Metal	Metal						
				Placed Rock	Placed Rock						
				Timber	Timber						
		Length m				Float_Positive_NonZero					
		CrestElevation m				Float					
		Geometry	Polyline geometry representing the feature in coordinate space			geometry_linear_multipart_simple					
WSUD Area	Represents a Water Sensitive Urban Design (WSUD) area feature. Also often called a Stormwater Quality Improvement Device (SQID). Use area features to represent constructed wetlands, bioretention basins, biofiltration beds, swales etc.										
		Sqid_id	The string identifier of the device, as it would appear on a plan.			String_32					
		TreatmentMeasure	The treatment measure employed. Choose from a list relevant to complex area features.	Buffer Strip	A buffer strip is a vegetated slope. Stormwater flows across a buffer strip. Treatment is provided by infiltration to the soil and by filtration of shallow flow through the vegetation.						
				Swale	A swale is a shallow trapezoidal channel lined with vegetation. Stormwater flows along a swale. Treatment is provided by infiltration to the soil and by filtration of shallow flow through the vegetation.						
				Bioretention Swale	Bioretention swales include a vegetated infiltration trench within the invert of a swale. Incorporating the infiltration trench enhances removal of both particles and nutrients.						
				Sedimentation Basin	A sedimentation basin is a small pond, about 1m deep, designed to capture coarse to medium sediment from urban catchments. Treatment is provided primarily through settling of suspended particles.						
				Bioretention Basin	A bioretention basin is a vegetated bed of filter material, such as sand and gravel. The basin is designed to capture stormwater runoff which then drains through the filter media. Pollutants are removed by filtration and by biological uptake of nutrients.						
				Constructed Wetland	Constructed wetland systems are shallow, vegetated water bodies that use enhanced sedimentation, fine filtration and biological uptake processes to remove pollutants from stormwater.						
	Function1	The first function of the WSUD area. At least one function must be supplied. Choose from a list relevant to complex area features.		Gross Pollutant Capture	Gross Pollutant Capture is the function of removing coarse particulate matter from stormwater.						
				Sediment Capture	Sediment Capture is the function of capturing coarse to medium sediment from urban catchments. Treatment is provided primarily through settling of suspended particles.						
				Oil / Grit Separation	Oil / Grit Separation						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Permeation	Permeation allows water to penetrate the surface and join subterranean flows						
				Vegetated Filtration	Vegetated Filtration						
				Bioretention	Bioretention						
	Function2	The second function of the WSUD area, if applicable.		Gross Pollutant Capture	Gross Pollutant Capture is the function of removing coarse particulate matter from stormwater.						

ASSET TYPE	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Sediment Capture	Sediment Capture is the function of capturing coarse to medium sediment from urban catchments. Treatment is provided primarily through settling of suspended particles.						
				Oil / Grit Separation	Oil / Grit Separation						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Permeation	Permeation allows water to penetrate the surface and join subterranean flows						
				Vegetated Filtration	Vegetated Filtration						
				Bioretention	Bioretention						
		Function3	The third function of the WSUD area, if applicable.	Gross Pollutant Capture	Gross Pollutant Capture is the function of removing coarse particulate matter from stormwater.						
				Sediment Capture	Sediment Capture is the function of capturing coarse to medium sediment from urban catchments. Treatment is provided primarily through settling of suspended particles.						
				Oil / Grit Separation	Oil / Grit Separation						
				Sand Filtration	Sand Filtration occurs in a sand layer designed to filter fine particulates from stormwater before discharging to a downstream drainage system.						
				Permeation	Permeation allows water to penetrate the surface and join subterranean flows						
				Vegetated Filtration	Vegetated Filtration						
				Bioretention	Bioretention						
		PondingArea_m2	Area of Temporary Ponding or Extended Detention in square metres.			Float_Positive_NonZero					
		PondingDepth_m	Average depth of Temporary Ponding or Extended Detention in metres.			Float_Positive_NonZero					
		FilterArea_m2	Area of Bioretention filter media in square metres.			Float_Positive_NonZero					
		FilterDepth_m	Depth of Bioretention filter media in metres.			Float_Positive_NonZero					
		TransitionDepth_m	Depth of the Bioretention Transition Layer in metres.			Float_Positive_NonZero					
		DrainageDepth_m	Depth of the Bioretention Drainage Layer in metres.			Float_Positive_NonZero					
		MacrophyteZoneArea_m2	The vegetated area in square metres (may be zero). Area of vegetated portion of constructed wetland (macrophyte zone)			Float_Positive_Zero					
		MacrophyteZoneDepth_m	Average depth of vegetated portion of constructed wetland (macrophyte zone)			Float_Positive_NonZero					
		CoarseSedimentArea_m2	Maximum area of ponding (for coarse sediment capture) before bypass.			Float_Positive_Zero					
		SedimentVolume_m3	Volume of sediment capacity in cubic metres			Float_Positive_NonZero					
		MinSurfaceLevel_m	Minimum surface level within structure (above or below water surface level)			float					
		PermanentPondLevel_m	Water surface level during normal dry weather.			float					
		OutletLevel_m	The surface level in metres of the bypass, or spillway, or other overflow outlet structure.			float					
		DesignFlow_m3s	The maximum design flow of the feature in cubic metres per second			Float_Positive_NonZero					
		HasSpillway	Whether the feature has a spillway			boolean					
		MaintenanceCycle_mths	The minimum maintenance cycle in months (refer to specifications)			positiveInteger					
		Geometry	Polygon geometry representing the feature in coordinate space.			geometry_area_multipath_complex					

ASSET GROUP	Open Space	DESCRIPTION	Data structure constraining information for Open Space features.
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ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
OpenSpaceArea	Represents a top-level area of open space regarded as a single functional area, such as a park or recreation area. May be, but not necessarily, coincident with cadastral boundary	Name	The official name or description of the Open Space area (eg: Smith St Park, Stockland Park Sporting complex)		String_64		
		Type	The type of Open Space area eg: Recreational, Bushland, Sporting Complex	Recreational Bushland Road Reserve Special Facility	Recreational Bushland Road Reserve Special Facility		
		Geometry	The geometry representing this feature in coordinate space.		geometry area multipatch_complex		
ActivityArea	Represents an activity area such as a playground or exercise area	Use	The type of use for the Activity Site eg: Animal, Fitness, Play, Sport	Animal Fitness General Play Sports	Animal Fitness General Play Sports		
		Type	The type of Activity Site. Eg: Sports Field, Cycling Facility		String_64		
		Material	The material type of Undersurfacing eg: Bark, Rubber, Grassed	Bark Bitumen Concrete Grass Gravel Rubber Matting Sand Synthetic Grass	Bark Bitumen Concrete Grass Gravel Rubber Matting Sand Synthetic Grass		
		Thickness mm	Thickness of material in millimetres.		Float_Positive_NonZero		
		Geometry	The geometry representing this feature in coordinate space.		geometry area multipatch_complex		
Edging	Represents the Edging of an Activity Area or Landscaped Area	Material	The material type of edging	Aluminium Brick Concrete Paver Plastic Rock Rubber Timber	Aluminium Brick Concrete Paver Plastic Rock Rubber Timber		
		Length mm	Length of material in millimetres.		positiveInteger		
		Width mm	Width of material in millimetres.		positiveInteger		
		Geometry	The geometry representing this feature in coordinate space.		geometry linear_singlepath_complex		
ActivityPoint	Represents an activity point feature. E.g: Animal, Fitness, Play or Sports activity item.	Use	The activity use category	Animal Fitness Play Sports	Animal Fitness Play Sports		
		Type	The activity item type		String_64		
		Material	The material type of Activity Item eg: Timber, Aluminium	Aluminium Combination Fibreglass Plastic Rubber Steel Galvanised Steel Powder Coated Stainless Steel Timber	Aluminium Combination Fibreglass Plastic Rubber Steel Galvanised Steel Powder Coated Stainless Steel Timber		
		Theme	The theme of the Activity item. Eg: Kangaroo, Boat, Fort, Car		String_64		
		Units	The number of units present eg: 1, 2, 3		positiveInteger		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry point_singlepoint		
Barbeque	Represents an individual barbeque facility	EnergySource	The Source of energy for the BBQ. ie: Mains, Bottled, Solar	Main Solar Bottled Gas Wood	Mains power Solar power Bottled gas Wood fired		
		Plates	The number of plates fitted in the BBQ structure.	Minimum (Inclusive) Value: 1 Maximum (Inclusive) Value: 10	At least one plate must be recorded. Up to ten plates are provided for, where they are built into a single structure.		
		SurroundingMaterial	The material type of the surround structure ie: brick, steel and Timber	Masonry Steel and Timber	Masonry Steel and Timber		
		TopMaterial	The material type of the top structure ie: Tiled, marble, steel	Concrete Tiled Marble Stainless Steel	Concrete Tiled Marble Stainless Steel		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
Table	Represents a table unit that may include fixed seating. Not to be used for seating that does not include a table as its main feature.	Geometry	The geometry representing this feature in coordinate space.		geometry point_singlepoint		
		Type	The type of Unit eg: Table, Bench or counter.	Bench Counter Table	Bench Counter Table		
		Seating	Seating details. Element should be nil if no seating is present.	SeatType	The configuration of the associated seating.	Bench Post and Stool	Bench seat Fixed post with stool top

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Places	The number of individuals the seating is designed for. This attribute may be used to help determine the capacity of a recreational facility.		Post and Seat Fixed post with non-swivelling seat Fixed post with swivelling seat positiveInteger
		Material	The material type of Table/Seat eg: Timber, Aluminium	Aluminium Concrete Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel	Aluminium Concrete Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint		
Seat	Represents a seat feature. Includes freestanding seats and border seating mounted in garden walls. Represents a seat unit that does not include a table as its main feature.	SeatType	The configuration of the seating.	Freestanding Border	Freestanding bench seat Border seating set in garden wall or similar low structure.		
		Places	The number of individuals the seating is designed for. This attribute may be used to help determine the capacity of a recreational facility.		positiveInteger		
		Material	The primary material type of Seat eg: Timber, Aluminium	Aluminium Concrete Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel	Aluminium Concrete Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint		
WasteCollectionPoint	Represents a waste collection point feature	Type	The type of Bin/Waste collection point eg: Std Litter Bin, Wheelie Bin Enclosure	Recycle Bin Standard Litter Bin Wheelie Bin Enclosure Wheelie Bin Stand	Recycle Bin Standard Litter Bin Wheelie Bin Enclosure Wheelie Bin Stand		
		Material	The material type of Bin/Waste collection point eg: Aluminium, Steel	Aluminium Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel	Aluminium Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint		
BicycleFitting	Represents a bicycle fitting feature Represents an individual fitting for the use or safety of cyclists.	Type	The type of Bicycle fitting eg: Bicycle Rack, Bannana Rail	Banana Rail Bicycle Rack Chicane	Banana Rail Bicycle Rack Chicane		
		Material	The material type of Bicycle fitting eg: Timber, Aluminium	Aluminium Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel	Aluminium Stainless Steel Steel Galvanised Steel Powder Coated Timber Timber and Steel		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint		
GeneralFixture	Represents a general fixture feature. This is a class of minor point based fixtures not complex enough for a specific fixture class.	Type	The type of Fixture eg: Dog bag dispensers, Fish cleaning station			String_32	
		Material	The material type of Fixture eg: Timber, Aluminium	Aluminium Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Masonry Combination	Aluminium Plastic Stainless Steel Steel Galvanised Steel Powder Coated Timber Masonry Combination		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint		
BarrierContinuous	Represents a continuous linear barrier feature, such as fencing, walls, handrail or bollard run.	Type	The type of Barrier eg: Safety Fencing, Bollard Run, Gate	Bollard Run Dunal Fencing	Bollard Run Dunal Fencing		

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION		
	<i>Do not use for retaining walls.</i>			General Fencing Handrail Noise Barrier Pedestrian Gate Safety Fencing Slide Rail Stock Fencing Vehicle Gate Wall	General Fencing Handrail An acoustic barrier fence, normally between road or rail and residential areas. Pedestrian Gate Safety Fencing A lockable slide bar between two fixed uprights. Stock Fencing Vehicle Gate Wall				
		UprightMaterial	The material type of Barrier Uprights eg: Timber, Aluminium	Aluminium Concrete Steel Stainless Steel Steel Galvanised Steel Powder Coated Stone Boulder Timber	Aluminium Concrete Steel Stainless Steel Steel Galvanised Steel Powder Coated Stone Boulder Timber				
		LinkMaterial	The material type of Barrier Link Material eg: None, Chain, Wire	None Aluminium Brick Chain Concrete Concrete Block Safety Glass Timber Panel Timber Paling Wire Mesh Wire Strand Chain Wire Steel Wire Rope Corrugated Galvanised Steel Coated Rolled Steel	None Aluminium Brick Chain Concrete Concrete Block Safety Glass Timber Panel Timber Paling Wire Mesh Wire Strand Chain Wire Steel Wire Rope Corrugated galvanised steel sheeting Rolled steel sheeting, with a primed and painted or baked finish. (includes the product commercially known as Colorbond) Abutting vertical posts, driven.				
		TopMaterial	The material type of Barrier Topping Material eg: None, Chain, Barbed Wire	None Aluminium Chain Steel Rail Timber Rail Wire Barbed Wire Strand Plastic	None Aluminium Chain Steel Rail Timber Rail Wire Barbed Wire Strand Plastic				
		Length_m	The lineal length of the barrier in metres			Float_Positive_NonZero			
		Height_m	The height of the barrier in metres			Float_Positive_NonZero			
		UprightNumber	Total number of uprights in the run. For fencing, this will be the number of posts. For a bollard run, it will be the number of bollards.			positiveInteger			
		Geometry	The geometry representing this feature in coordinate space. It is recommended, but not mandatory, that each vertex represents an upright, particularly for bollard runs. This allows the geometry to be exploited to identify the individual features if necessary.			geometry_linear_singlepath_complex			
		BarrierPoint	Represents a barrier feature that controls access at a single point, such as a locking post or single bollard.	Type	The type of Barrier Point eg: Bollard, Locking Post	Bollard Bollard Removable Horse Stepovers Locking Post	A permanently fixed individual bollard, usual forming a barrier to vehicle entry, while permitting pedestrians or cyclists. Runs of bollards forming a barrier line may be better described by BarrierContinuous, especially if linked with a joining material such as chain or stainless wire rope. A removeable bollard, usually with a fixed base mounting to accept a padlock or similar security device. Horse Stepovers A simple removeable post, usually with a fixed base mounting to accept a padlock or similar security device.		
				UprightMaterial	The material type of Barrier Uprights eg: Timber, Aluminium	Aluminium Concrete Steel Stainless Steel Steel Galvanised Steel Powder Coated Stone Boulder Timber	Aluminium Concrete Steel Stainless Steel Steel Galvanised Steel Powder Coated Stone Boulder Timber		
Geometry	The geometry representing this feature in coordinate space.					geometry_point_singlepoint			
RetainingWall	Represents a continuous retaining wall feature. Includes	Use	Context of use for this wall. i.e Terrestrial or Marine	Terrestrial	Terrestrial (land based) revetment wall				

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
	<i>terrestrial, freshwater and marine revetment walls.</i>			Freshwater	<i>Freshwater revetment wall. Designed to cope with freshwater flood levels. Also engineered walls for pools and ponds.</i>		
				Marine	<i>Marine revetment wall</i>		
		Material	<i>The material/type of Retaining Wall eg: Rock, Conc. Block, Conc. Crib</i>	Boulder Concrete Concrete crib Precast Concrete Slab Masonry Rock Timber Sleeper Timber Crib Shot Binding	Boulder <i>Concrete, poured in situ.</i> <i>Concrete crib</i> <i>Precast Concrete Slab</i> <i>Masonry bricks or blocks</i> <i>Rock or stone, either placed, or mortared</i> <i>Timber sleepers or logs</i> <i>Timber Crib</i> <i>Pneumatically projected binding material, usually concrete or stabilising mortar</i>		
		Construction	<i>Construction principle of this wall (eg: Gravity, Piled, Cantilever)</i>	Gravity Piled Cantilever	<i>These walls use their own weight and any captured soil or fill weight to resist the lateral soil pressure.</i> <i>These walls use the embedded depth of vertical posts and the strength of the posts to resist lateral soil forces.</i> <i>These walls cantilever vertically from the concrete footing and typically resist overturning by the mass of the soil or material on the heel of the footing.</i>		
		Length_m	<i>The lineal length of the wall in metres</i>		Float Positive NonZero		
		Height_m	<i>The height (or average height) of the wall in metres</i>		Float Positive NonZero		
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry linear multipath complex		
Shelter	<i>Represents an individual open space shelter feature as a point object</i>	Type	<i>The type of structure eg: Sail, Rigid</i>	Rigid Sail	<i>Rigid</i> <i>Sail</i>		
		ConstructionType	<i>The type of shelter constructed eg: Prefab or Built insitu</i>	Prefabricated Insitu	<i>Prefabricated</i> <i>Built or poured in-situ</i>		
		FloorMaterial	<i>The material type of the Floor eg: Concrete, Timber</i>	Concrete Paved Timber	<i>Concrete</i> <i>Paved</i> <i>Timber</i>		
		WallMaterial	<i>The material type of the Walls eg: Timber/cladding, Reinforced Block</i>	None Concrete Cladding Masonry Stainless Steel Galvanised Steel Powder Coated Steel Timber	<i>None</i> <i>Concrete</i> <i>Cladding</i> <i>Masonry</i> <i>Stainless Steel</i> <i>Galvanised Steel</i> <i>Powder Coated Steel</i> <i>Timber</i>		
		RoofMaterial	<i>The material type of the Roof eg: Steel Sheeting, Masonary tiles</i>	Masonry Tiles Sail Steel Sheets Timber slats	<i>Masonry Tiles</i> <i>Sail</i> <i>Steel Sheets</i> <i>Timber slats</i>		
		Manufacturer	<i>The Manufacturer of the unit</i>		String_64		
		ModelNumber	<i>The standard code, model number or part number for the unit</i>		String_64		
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry point singlepoint		
ShelterPolygon	<i>Represents an individual open space shelter feature as a polygon object</i>	Type	<i>The type of structure eg: Sail, Rigid</i>	Rigid Sail	<i>Rigid</i> <i>Sail</i>		
		ConstructionType	<i>The type of shelter constructed eg: Prefab or Built insitu</i>	Prefabricated Insitu	<i>Prefabricated</i> <i>Built or poured in-situ</i>		
		FloorMaterial	<i>The material type of the Floor eg: Concrete, Timber</i>	Concrete Paved Timber	<i>Concrete</i> <i>Paved</i> <i>Timber</i>		
		WallMaterial	<i>The material type of the Walls eg: Timber/cladding, Reinforced Block</i>	None Concrete Cladding Masonry Stainless Steel Galvanised Steel Powder Coated Steel Timber	<i>None</i> <i>Concrete</i> <i>Cladding</i> <i>Masonry</i> <i>Stainless Steel</i> <i>Galvanised Steel</i> <i>Powder Coated Steel</i> <i>Timber</i>		
		RoofMaterial	<i>The material type of the Roof eg: Steel Sheeting, Masonary tiles</i>	Masonry Tiles Sail Steel Sheets Timber slats	<i>Masonry Tiles</i> <i>Sail</i> <i>Steel Sheets</i> <i>Timber slats</i>		
		Manufacturer	<i>The Manufacturer of the unit</i>		String_64		
		ModelNumber	<i>The standard code, model number or part number for the unit</i>		String_64		
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry area singlepatch complex		
Artwork	<i>Represents an individual instance of open space artwork</i>	Type	<i>The type of Artwork eg: Sculpture, Statue</i>	Entry Statement Memorial Monument Mosaic Plaque Sculpture	<i>Entry Statement</i> <i>Memorial</i> <i>Monument</i> <i>Mosaic</i> <i>Plaque</i> <i>Sculpture</i>		

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Statue Other	Statue Other		
		Material	The material type of Artwork eg: Timber, Aluminium	Aluminium Bronze Concrete Fibreglass Masonry Plastic Stainless Steel Steel Galvanised Steel Powder Coated Stone Tile Timber Combination	Aluminium Bronze Concrete Fibreglass Masonry Plastic Stainless Steel Steel Galvanised Steel Powder Coated Stone Tile Timber Combination		
		Geometry	The geometry representing this feature in coordinate space.		geometry point singlepoint		
Building	Represents an open space building feature, such as a toilet block, bandstand. Not to be used for shelters.	Type	The type of Building eg: Grandstand, Bandstand	Amenities Amphitheatre Arbour Bandstand Grandstand Open Seating Sheds Toilet Block Viewing Platform Demountable	Amenities Amphitheatre Arbour Bandstand Grandstand Open Seating Sheds Toilet Block Viewing Platform Demountable site office		
		Material	The material type of Building eg: Timber, Brick	Aluminium Concrete Masonry Stainless Steel Steel Galvanised Steel Powder Coated Timber Combination	Aluminium Concrete Masonry Stainless Steel Steel Galvanised Steel Powder Coated Timber Combination		
		Geometry	The geometry representing this feature in coordinate space.		geometry area singlepatch complex		
BoatingFacility	Represents a boating facility feature, such as a pontoon, ramp or jetty.	Type	The type of Boating Facility eg: Jetty, Pier	Jetty Pier Ramp Slipway	Jetty Pier Ramp Slipway		
		Material	The material type of Boating Facility eg: Timber, Aluminium	Aluminium Concrete Stainless Steel Steel Galvanised Steel Powder Coated Timber Combination	Aluminium Concrete Stainless Steel Steel Galvanised Steel Powder Coated Timber Combination		
		Geometry	The geometry representing this feature in coordinate space.		geometry area singlepatch complex		
ElectricalFitting	Represents an electrical fitting point feature, including lighting, whether freestanding or fixed to an existing structure.	Type	The type of Electrical Component eg: Light, Switch Board, Power Outlet	Light Pit Pole Power Outlet Switch Board/Meter Box	Light Pit Pole Power Outlet Switch Board/Meter Box		
		Base	The type of base (eg: Fixed or Slip)	Fixed Slip	Fixed Slip		
		Material	The material type of the component eg: Aluminium, Steel	Aluminium Concrete Plastic Stainless Steel Galvanised Steel Powder Coated Steel Stone Wood	Aluminium Concrete Plastic Stainless Steel Galvanised Steel Powder Coated Steel Stone Wood		
		EnergySource	The type of Power Source eg: Mains, Solar	Main Solar	Main Solar		
		Manufacturer	The Manufacturer of the unit		String_64		
		ModelNumber	The standard code, model number or part number for the unit		String_64		
		Geometry	The geometry representing this feature in coordinate space.		geometry point singlepoint		
ElectricalConduit	Represents a continuous linear course of electrical conduit.	Type	The conduit type eg: Medium Duty, Heavy Duty	Medium Duty Heavy Duty	Medium Duty Heavy Duty		
		Material	The conduit material type	PVC	PolyVinylChloride		
		Diameter mm	The conduit diameter		positiveInteger		
		Length m	The lineal length of the barrier in metres		Float Positive NonZero		
		Protection	The type of conduit protection used eg: Concrete encased, rubber mat, tape only	Concrete Encased Rubber Mat Tape Wrapped	Concrete encased Rubber Mat Tape Wrapped		
		Geometry	The geometry representing this feature in coordinate space.		geometry linear multipath complex		
LandscapeArea	Represents a landscape area feature, such as a garden,	Type	The type of Garden/L'scape Area eg: Garden, Grass, Rem	Garden	Garden		

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	
	<i>shaped lawn, or landscape feature area.</i>		<i>Vegetation</i>	Grass Gravel Earth Remnant Vegetation Revegetation Synthetic Grass	Grass Gravel/ Earth Remnant Vegetation Revegetation Synthetic Grass			
		RootBarrier	<i>Does Root Barrier exist - Yes or No</i>		boolean			
		Irrigated	<i>Is Landscaped Area irrigated?</i>		boolean			
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry area multipatch complex			
Tree	<i>Represents a tree feature. Trees may qualify as assets when planted as street trees, or when significant specimens are retained or planted as part of an open space development.</i>	Species	<i>The Tree Species</i>		String_32			
		Genus	<i>The Tree Genus</i>		String_32			
		RootBarrier	<i>Does Root Barrier exist - Yes or No</i>		boolean			
		Grate	<i>Does Tree Grate exist - Yes or No</i>		boolean			
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry point singlepoint			
Sign	<i>Represents a sign. May also be used for transport signs</i>	Type	<i>The type of Sign eg: Regulatory, Naming, Information The purpose of a sign. Applied to individual sign blades as blades may have different purposes in a compound sign.</i>	Traffic Control Regulatory Information Direction Warning Naming	<i>Traffic control signs such as speed, parking, hazard, street name and guide signs. Signs with standard meanings or mandated specifications as defined in a Manual of Standard Traffic Control Devices relevant to a state or country should be given this value. Where this value is used, then the sign feature should also be attributed with the applicable standard identifying code in the ModelNumber property.</i> <i>Regulating non-traffic control matters such as council regulations, prohibited behaviours etc.</i> <i>Providing non-traffic control information of a historical, environmental or other topical nature.</i> <i>Providing non-traffic control directions, distances or maps to places of interest</i> <i>Providing non-traffic control warning of general hazards</i> <i>Non-traffic control sign identifying a locality, park, facility or place of interest</i>			
		Material	<i>The material type of sign eg: Timber, Steel/Aluminium, Carved stone</i>	Stainless Steel Aluminium Timber Masonry Steel Galvanised Plastic Steel Powder Coated Glass	Stainless Steel Aluminium Timber Masonry Steel Galvanised Plastic Steel Powder Coated Glass			
		Manufacturer	<i>The Manufacturer of the unit</i>		String_64			
		ModelNumber	<i>The standard code, model number or part number for the unit</i>		String_64			
		Structure	<i>The type of structure this sign blade is fixed to.</i>	Post Gantry Free Standing Monopole Overpass	<i>Fixed to an existing post or pole</i> <i>Fixed to a gantry</i> <i>Free standing, having its own poles or supports</i> <i>Fixed to a monopole</i> <i>Fixed to an overpass or bridge</i>			
		SignText	<i>Sign Text</i>		string			
		Rotation	<i>Rotation angle (cartesian - anti-clockwise 0 degrees = East) May be used to denote direction of facing.</i>		Float_Direction			
		Geometry	<i>The geometry representing this feature in coordinate space.</i>		geometry point singlepoint			

ASSET GROUP	Water Supply	DESCRIPTION	Data structure constraining information for Water Supply features.
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ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION				
WaterServices	Represents the feature class of domestic sized water services	WaterService	Represents a domestic water service feature.	Diameter_mm	Nominal diameter of the pipe in millimetres.	Minimum (Inclusive) Value: 20 Maximum (Inclusive) Value: 63	Minimum service diameter is 20mm Maximum service diameter to use this feature class is 63mm				
				Material	The service pipe material.	DI Copper PE M 1 Other Unknown	Ductile Iron Copper Polyethylene A new material not in the schema as agreed with the receiving entity Material not currently in the schema Material Unknown at time of data submission				
				Class	The service pipe class as specified by the manufacture and relevant to the material.	PN6 PN6.3 PN8 PN9 PN10 PN12 PN12.5 PN16 PN18 PN20 PN35 Type A Other Unknown	Class PN6 for poly services Class PN6.3 for poly services Class PN8 for poly services Class PN9 for poly services Class PN10 for poly services Class PN12 for poly services Class PN12.5 for poly services Class PN16 - default for PE-100, PVC-O and PVC-M Class PN18 for poly services Class PN20 for poly services Class PN35 (Standard for DI) Type A for copper services Some other service pipe class not included in the schema Service class unknown at time of data submission				
				Protection	Provision of conduit or other protection	Conduit No Conduit Other Unknown	The water service is laid in a protective conduit The water service is not in a protective conduit Some other type of protection Service protection type unknown at time of data submission				
				Termination	Fitting or valve at the customer end of the service	Ball Valve No Valve Other Unknown	Service ends in a Ball Valve Service ends in an open pipe or blank end Service ends in some other way Service termination unknown at time of data submission				
				WaterQuality	Type of water supplied through water service. Drinking water, recycled water or disused service	Drinking Water Recycled Aplus Recycled A Other Disused Unknown	Service supplying drinking quality water to a premises Service providing class A+ or better recycled water to a premises served by dual reticulation for toilet flushing, laundry and external use Service providing class A recycled water to a premises via dual reticulation for outdoor uses only Another use not specified in the schema A disused water service Water service providing a type of water unknown at time of data submission				
				Length_m	Material length of the pipe in metres.	Float	Positive NonZero				
				Geometry	Point geometry representing the feature in coordinate space.	geometry	point singlepoint				
				Pipes	Represents the feature class of water supply pipes	Pipe	Represents a water supply pipe feature.	Use	The purpose of this feature in the network.	Commercial Service Conduit Disused Fire Service Fire Domestic Fire Sprinkler Fire Service Thru Meter Intake Internal Irrigation Reticulation Scour Service Trunk Waste Other	Commercial Service pipes. Pipe protecting a water pipe running inside it. Not hydraulically connected to the network Disused Main Fire Service - usually used for private customer-owned infrastructure not owned by the water service provider Domestic Fire Service - usually used for private customer-owned infrastructure not owned by the water service provider Dedicated un-metered fire sprinkler service - usually used for private customer-owned infrastructure not owned by the water service provider Metered Fire Service - usually used for private customer-owned infrastructure not owned by the water service provider Intake pipe feeding a water treatment plant or irrigation system (usually with non potable water) Customer owned pipe on customer side of the meter distributing water from mains to internal fixtures Irrigation Pipe - usually used for private customer-owned infrastructure not owned by the water service provider Normal mains water distribution Pipe Scour main from reticulation to an outlet Used for service connections > DN63 from main to meter. Domestic Services use water service feature class Trunk Water Main being a reticulation main above a size as defined by the receiving entity Waste Pipe from a reservoir or tank Another use not specified in the schema
								WaterQuality	The quality of the water being carried by the pipe.	Drinking Water Recycled Aplus Recycled A Treated Effluent Rain Water Raw Water Ground Water Process Water Other Unknown	Drinking-quality (potable) water for normal mains supply by the municipal water service provider Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses Treated Effluent to class B through class D for irrigation only Rain Water collected directly into the system for irrigation Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system Untreated water from bores used to feed a water treatment plant or irrigation system Non-potable process water of some description Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent) Type of water carried by this pipe is unknown at time of submission
Alignment_m	Offset from cadastral boundary to the main	Float	Positive NonZero								
Diameter_mm	Nominal diameter of the pipe in millimetres.	positiveInteger									
Material	The pipe material.	DI PVC-U PVC-M PVC-O ABS Copper GRP	Ductile Iron PolyVinylChloride Unplasticised PolyVinylChloride Modified PolyVinylChloride Orientated Acrylonitrile Butadiene Styrene Copper Glass Reinforced Plastic (includes the product known commercially as Hobas)								

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						MS SS PE-100 PE-80B RCP AC M 1 M 2 Other Unknown	Mild Steel Stainless Steel Polyethylene 100 Polyethylene 80B Reinforced Concrete Pipe Asbestos Cement (Existing Infrastructure Only) A new material not in the schema as agreed with the receiving entity A new material not in the schema as agreed with the receiving entity Material not currently in the schema Material Unknown at time of data submission
			The pipe class as specified by the manufacture. Pipe class refers to the wall thickness and performance of the material.	Class		SN5000 SN8000 SN10000 PN6 PN6.3 PN8 PN9 PN10 PN12 PN12.5 PN16 PN18 PN20 PN35 FLCL Type A Type B 4.8mm 5mm 6mm 7mm 8mm 9mm 10mm 11mm 12mm 16mm Other Unknown	Class SN5000 Class SN8000 Class SN10000 Class PN6 Class PN6.3 Class PN8 Class PN9 Class PN10 Class PN12 Class PN12.5 Class PN16 - default for PE-100, PVC-O and PVC-M Class PN18 Class PN20 Class PN35 (Standard for DI) Class FLCL (ductile iron flanged class) Type A Type B 4.8mm wall thickness class (Mild Steel) 5mm wall thickness class (Mild Steel) 6mm wall thickness class (Mild Steel) 7mm wall thickness class (Mild Steel) 8mm wall thickness class (Mild Steel) 9mm wall thickness class (Mild Steel) 10mm wall thickness class (Mild Steel) 11mm wall thickness class (Mild Steel) 12mm wall thickness class (Mild Steel) 16mm wall thickness class (Mild Steel) Another class not specified by the schema Pipe class unknown at time of data submission
			The internal corrosion protection method employed on the pipe material.	Lining		CL CL SR CL AC PVC FBE Unlined Unknown Other	Cement Lined normal (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined Lining type unknown at time of data submission Another type of liner that is not currently in the Schema
			The external corrosion protection method employed on the pipe material.	Protection		FBE FBPE Plastic Wrapped Concrete Encased Tape Wrapped Uncoated Epoxy P 1 P 2 Zinc Zinc-Aluminium Alloy Unknown Other	Fusion Bonded Epoxy Fusion Bonded Polyethelene (Includes the product known commercially as Sintakote) Plastic Wrapped Concrete Encased Wrapped in pipe and flange protection anti-corrosion tape. Commonly a synthetic fabric tape coated with a neutral petroleum compound. Uncoated Epoxy paint or coating A new protection type not yet in the schema as agreed with the data receiving entity A new protection type not yet in the schema as agreed with the data receiving entity Galvanized or zinc painted Zinc Aluminium alloy coating (Petail Saint-Gobain) Protection type unknown at time of data submission Another type of protection not covered by the schema
			Pipe jointing method employed.	JointType		RRJ RRRJ SWJ WJ FJ MCJ BW EFW JT_1 Unknown Other	Rubber Ring Rubber Ring Restrained Joint (Ductile Iron) Solvent Welded Joint (PVC) Welded Joint (Mild Steel pipe) Flanged Joint Mechanical Compression Joint (PE pipe and Copper) Butt Weld (PE pipe) Electrofusion Weld (PE pipe) A new joint type not yet included in the Schema used by agreement with the receiving entity. Joint type unknown at time of data submission A joint type not already included in the above choices
			The average depth in metres that the pipe is buried. This measure is useful in most residential developments, but will be less reliable in sharply changing terrain or where significant cuts and fills have been applied. Negative depths may be used to indicate exposed or suspended pipes above the surface.	Depth_m			Float
			Embedment types.	Embedment		Natural GBH GBS GBSonConc GBSonGTP GBSonCSS GBSonPiles CemStabBS ConcBS ConcBSonPiles Enveloped Above Ground None	Pipe laid directly on natural in-situ material Granular bed and haunch Granular bed and surround Granular bed and surround on concrete support Granular bed and surround on geo-textile pillow Granular bed and surround on cement stabilised support Granular bed and surround on piles Cement stabilised bed and surround Concrete bed and surround Concrete bed and surround on piles Within an enveloper pipe Pipe is above ground on piers or a bridge deck Thrust bored or Trenchless method

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						Unknown Other EB 1 EB 2	<i>Embedment Type unknown at time of data submission</i> <i>Another type of embedment type that is not already included in the standard types</i> <i>A non-standard or new type of embedment as agreed with the data receiving entity</i> <i>A non-standard or new type of embedment as agreed with the data receiving entity</i>
				Length_m	<i>Material length of the pipe in metres.</i>		Float_Positive_NonZero
				Geometry	<i>Polyline representing the geometry of the feature in coordinate space</i>		geometry_linear_singlepath_simple
Valves	Represents the feature class of water supply valves	Valve	<i>Represents a water supply valve feature.</i>	Use	<i>The purpose of the valve in the network.</i>	Non-Return Stop Scour Diversion Zone Boundary Flow Control Pressure Control Gas Release Other Service	<i>A valve allowing flow in only one direction of types Generic, Rubber Gate, Swing Check Water of RPZ</i> <i>A valve to prevent flow down a pipe.</i> <i>A valve that is opened to scour a water main</i> <i>A valve the main function of which is to select an alternative flow path</i> <i>A Valve normally closed to separate water supply zones</i> <i>A valve used to control or stop the rate of flow</i> <i>A valve designed to control the pressure in a water supply system of types Overflow, Pressure Relief, Altitude Valve, or Vacuum Release</i> <i>A valve used to purge air or gas from the high points of a water pipeline</i> <i>A valve use for a use not provided for in the schema</i> <i>A valve controlling flow between a water main and a water service</i>
				Type	<i>The type of valve.</i>	Generic NR Rubber Gate Swing Check Wafer RPZ Gate Butterfly Knife Gate Eccentric Plug Globe Ball Valve Vee Ported Ball Control Overflow Pressure Relief Pressure Sustaining Altitude Valve Vacuum Release Air Valve Special	<i>A generic type of non return valve</i> <i>A rubber gate type non-return valve eg Val-Matic Swing-Flex</i> <i>A swing check type non-return valve</i> <i>A wafer type non-return valve</i> <i>An Reduced Pressure Zone type non return valve</i> <i>A standard gate valve</i> <i>Butterfly Valve.</i> <i>Knife Gate Valve.</i> <i>An eccentric plug type control Valve</i> <i>Globe Valve</i> <i>A ball valve for flow control</i> <i>A vee-ported ball valve</i> <i>A generic or unknown type of control valve</i> <i>An overflow valve</i> <i>An pressure releasing valve</i> <i>A pressure sustaining valve</i> <i>Altitude Valve</i> <i>Vacuum Release or surge control valve</i> <i>Air valve for gas or air release</i> <i>A special type of valve not specified elsewhere in the schema</i>
				Diameter_mm	<i>The nominal bore diameter of the valve.</i>		positiveInteger
				Manufacturer	<i>The Manufacturer of the unit</i>		String_64
				ModelNumber	<i>The standard code, model number or part number for the unit</i>		String_64
				Rotation	<i>Rotation angle (cartesian - anti-clockwise 0 degrees = East)</i>		Float_Direction
				WaterQuality	<i>The quality of the water in the network the valve is part of.</i>	Drinking Water Recycled Aplus Recycled A Treated Effluent Rain Water Raw Water Ground Water Process Water Other Unknown	<i>Drinking-quality (potable) water for normal mains supply by the municipal water service provider</i> <i>Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses</i> <i>Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses</i> <i>Treated Effluent to class B through class D for irrigation only</i> <i>Rain Water collected directly into the system for irrigation</i> <i>Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system</i> <i>Untreated water from bores used to feed a water treatment plant or irrigation system</i> <i>Non-potable process water of some description</i> <i>Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent)</i> <i>Type of water carried by this pipe is unknown at time of submission</i>
				Geometry	<i>Point geometry representing the feature in coordinate space.</i>		geometry_point_singlepoint
Hydrants	Represents the feature class of water supply hydrants	Hydrant	<i>Represents a water supply hydrant feature.</i>	Use	<i>The purpose of the hydrant in the network.</i>	Spring Filling Point Pillar	<i>Spring Hydrant.</i> <i>Hydrant (usually of spring type) with a metered standpipe semi-permanently in place.</i> <i>Pillar Hydrant.</i>
				Diameter_mm	<i>The nominal bore size of the hydrant.</i>		positiveInteger
				Rotation	<i>Rotation angle (cartesian - anti-clockwise 0 degrees = East)</i>		Float_Direction
				WaterQuality	<i>The quality of the water being delivered through the hydrant.</i>	Drinking Water Recycled Aplus Recycled A Treated Effluent Rain Water Raw Water Ground Water Process Water Other Unknown	<i>Drinking-quality (potable) water for normal mains supply by the municipal water service provider</i> <i>Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses</i> <i>Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses</i> <i>Treated Effluent to class B through class D for irrigation only</i> <i>Rain Water collected directly into the system for irrigation</i> <i>Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system</i> <i>Untreated water from bores used to feed a water treatment plant or irrigation system</i> <i>Non-potable process water of some description</i> <i>Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent)</i> <i>Type of water carried by this pipe is unknown at time of submission</i>
				Geometry	<i>Point geometry representing the feature in coordinate space.</i>		geometry_point_singlepoint
Meters	Represents the feature class of water supply meters	Meter	<i>Represents a water supply meter feature.</i>	Serial Number	<i>The manufacturers serial number, as stamped or fixed on the meter.</i>		String_64
				Type	<i>Configuration of the meter.</i>	Irrigation Conventional Manifold Magflow Turbine Other Unknown	<i>Small in-line meter used in irrigation systems to give a general indication of flow volumes but not at the accuracy needed for billing or control</i> <i>Standard volumetric meter</i> <i>Meter with built-in valve</i> <i>Electro-magnetic Metering System with no moving parts</i> <i>Meter using a turbine or moving vane to measure flow</i> <i>Another unspecified type of water meter</i> <i>Meter type unknown at time of data submission</i>
				Diameter_mm	<i>The nominal bore diameter of the meter.</i>		positiveInteger
				Dials	<i>The number of dials on the reading face.</i>		positiveInteger

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Manufacturer	The Manufacturer of the unit	String	64
				ModelNumber	The standard code, model number or part number for the unit	String	64
				InitialReading	The reading on the meter face at the time of installation.	Integer	
				PrivateBooster	True indicates that the meter is associated with a private pressure boosting system.	boolean	
				OffsetSide	Is the offset from the left or the right side boundary when looking from the road.	Left Right	Left hand side - Right hand side
				Offset_m	The distance in metres to measure along the frontage from the indicated side.	Float	Positive_Zero
				InstallationDate	Installation Date of the meter. ISO 8601 is the accepted format.		date
				LotNo	The lot number as described on the originating survey plan	String	32
				PlanNo	The plan number of the originating survey plan.	String	32
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)	Float	Direction
				WaterQuality	The quality of the water being metered.	Drinking Water Recycled Aplus Recycled A Treated Effluent Rain Water Raw Water Ground Water Process Water Other Unknown	Drinking-quality (potable) water for normal mains supply by the municipal water service provider Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses Treated Effluent to class B through class D for irrigation only Rain Water collected directly into the system for irrigation Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system Untreated water from bores used to feed a water treatment plant or irrigation system Non-potable process water of some description Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent) Type of water carried by this pipe is unknown at time of submission
				Geometry	Point geometry representing the feature in coordinate space.	geometry	point, singlepoint
Fittings	Represents the feature class of water supply fittings	Fitting	Represents a water supply pipe fitting, other than a valve, meter or hydrant	Type	The fitting type.	Bend Connector Cross Connection Connector Thrust Dismantling Joint Gibault Taper Tee Wye Cathodic Protection Point Dead Plate External Dead End Tee Branch Dead End Tee Branch Ext Dead End Puddle Flange Ready Tap Sampling Point Booster Pump Surge Vessel Tapping Band Flush Point Saddle	Bend, a fitting not a recurved pipe that changes the direction of a pipeline A straight through connector with no change of direction A cross connection with 4 branches A straight through connector with no change of direction capable of transmitting axial thrust to the pipeline or a structure A straight connector specifically included to facilitate the dismantling of complex flanged pipework and valves. Standard abault connection Taper. Joining pipes of unequal diameter. T - Joint with 3 arms one of which is at right angles to the axis joining the other 2. Y - Joint with 3 arms where the angle between any 2 arms is not 90 or 180 degrees Electrical connection point for cathodic protection Blank flange on the end of a flanged pipe or fitting Fitting such as an endcap that forms a dead end in a pipe run A dead end plate pre-fitted to one branch of a Tee for access or future connection Dead end on a Tee fitting with a side branch of extended length Puddle Flange on pipe to transmit thrust or seal pipe into a structure Ready Tap collar with prefabricated water service take off points Sampling Point to sample water quality Booster Pump to boost pressure or provide motive force to water in the network Surge Vessel fitted to control surge pressures (water hammer) Tapping Band for the off-take of a water service from a main Flush Point Saddle
				Material	The fitting material.	ABS Brass Copper DI MS PVC PE AC M_1 M_2 Other Unknown	Acrylonitrile Butadiene Styrene Brass Copper Ductile Iron Mild Steel PolyVinylChloride Polyethylene Asbestos Cement - Existing Infrastructure Only A new material not in the schema as agreed with the receiving entity A new material not in the schema as agreed with the receiving entity Another material not in the Schema Material unknown at time of data submission
				Lining	The internal corrosion protection method employed on the fitting material.	CL CL SR CL AC PVC FBE Unlined Unknown Other	Cement Lined normal (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined Lining type unknown at time of data submission Another type of liner that is not currently in the Schema
				Protection	The external corrosion protection method employed on the fitting material.	FBE FBPE Plastic Wrapped Concrete Encased Tape Wrapped Uncoated Epoxy P_1 P_2 Zinc Zinc-Aluminium Alloy Unknown Other	Fusion Bonded Epoxy Fusion Bonded Polyethelene (Includes the product known commercially as Sintakote) Plastic Wrapped Concrete Encased Wrapped in pipe and flange protection anti-corrosion tape. Commonly a synthetic fabric tape coated with a neutral petroleum compound. Uncoated Epoxy paint or coating A new protection type not yet in the schema as agreed with the data receiving entity A new protection type not yet in the schema as agreed with the data receiving entity Galvanized or zinc painted Zinc Aluminium alloy coating (Petair Saint-Gobain) Protection type unknown at time of data submission Another type of protection not covered by the schema
				BodySize_mm	The nominal diameter of the largest pipe entering the fitting. Although not constrained, software may use the simpleType water_fittings_boreSize for a starting list of values		positiveInteger

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				BranchSize_mm	The nominal diameter of the smallest pipe entering the fitting. Although not constrained, software may use the simpleType water fittings boresize for a starting list of values		positiveInteger
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float Direction
				WaterQuality	The quality of the water being carried by the network to which the fitting is a part	Drinking Water	Drinking-quality (potable) water for normal mains supply by the municipal water service provider
						Recycled Aplus	Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses
						Recycled A	Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses
						Treated Effluent	Treated Effluent to class B through class D for irrigation only
						Rain Water	Rain Water collected directly into the system for irrigation
						Raw Water	Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system
						Ground Water	Untreated water from bores used to feed a water treatment plant or irrigation system
						Process Water	Non-potable process water of some description
						Other	Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent)
						Unknown	Type of water carried by this pipe is unknown at time of submission
				Geometry	Point geometry representing the feature in coordinate space.		geometry point singlepoint
MaintenanceHoles	Represents the feature class of water supply maintenance access holes	MaintenanceHole	Represents a water supply maintenance access hole feature.	Use	Purpose of Water maintenance hole.	Valve Pit	Valve Pit
						Disused	Valve Pit that is no longer used
						Complex	Valve Pit that houses a combination of valves and other equipment
						Pressure Regulation	Pit housing a pressure regulation or surge control device
						Pump Station	Water pumping station
						Temporary Works	Pit used during construction that is no longer used but has been left in place
						Other	Valve Pit with some other use not provided for in the schema
						Unknown	Valve Pit of a type that is unknown at time of data submission
				ChamberSize	Data structure describing the chamber configuration and dimensions.	Rectangular	Data container for rectangular dimensions.
						Circular	Data container for circular dimensions.
				SurfaceLevel_m	The height of the top surface of the lid, hatch, rim or roof. Surface level in metres against the vertical datum for this project.		Float
				InvertLevel_m	The height of the top surface of interior floor/bottom. Invert level in metres against the vertical datum for this project.		Float
				FloorConstruction	Method of chamber construction.	Prefabricated	Prefabricated
						Insitu	Built or poured in-situ
				FloorMaterial	Material type for chamber floor construction.	PVC	PolyVinylChloride
						PE	Polyethylene
						PP	Polypropylene
						GRP	Glass Reinforced Plastic
						Concrete	Concrete
						M_1	A new material not in the schema as agreed with the receiving entity
						M_2	A new material not in the schema as agreed with the receiving entity
						Other	Another material not included in the Schema
						Unknown	Material unknown at time of data submission
				WallConstruction	Method of chamber wall construction.	Prefabricated	Prefabricated
						Insitu	Built or poured in-situ
				WallMaterial	Material type for chamber wall construction.	PVC	PolyVinylChloride
						PE	Polyethylene
						PP	Polypropylene
						GRP	Glass Reinforced Plastic
						Concrete	Concrete
						M_1	A new material not in the schema as agreed with the receiving entity
						M_2	A new material not in the schema as agreed with the receiving entity
						Other	Another material not included in the Schema
						Unknown	Material unknown at time of data submission
				RoofMaterial	Material type for chamber roof construction.	PVC	PolyVinylChloride
						PE	Polyethylene
						PP	Polypropylene
						Concrete	Concrete
						MS	Mild Steel
						SS	Stainless Steel
						Aluminium	Aluminium
						Cast Iron Frame	Cast Iron Frame
						Grid Mesh - GRP	Grid Mesh - GRP
						Grid Mesh - Aluminium	Grid Mesh - Aluminium
						Grid Mesh - SS	Grid Mesh - Stainless Steel
						No Roof	No Roof
						M_1	A new roof material not in the schema as agreed with the receiving entity
						M_2	A new roof material not in the schema as agreed with the receiving entity
						Other	Another roof material not included in the Schema
						Unknown	Roof material unknown at time of data submission
				LidMaterial	Chamber lid configuration and material.	Aluminium	Aluminium
						Cast Iron	Cast Iron
						CI Conc Infill	Cast Iron Concrete Infill
						Concrete	Concrete
						GRP	Glass Reinforced plastic
						PVC	PolyVinylChloride
						PE	Polyethylene
						PP	Polypropylene
						MS	Mild Steel
						SS	Stainless Steel
						M_1	A new lid material not in the schema as agreed with the receiving entity
						M_2	A new lid material not in the schema as agreed with the receiving entity
						No Lid	Valve pit is open topped and has no lid
						Other	Another lid material not included in the Schema
						Unknown	Lid material unknown at time of data submission
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float Direction
				Geometry	Point geometry representing the feature in coordinate space.		geometry point singlepoint
ServiceFittings	Represents the feature class of water service fittings	ServiceFitting	Represents a water service fitting feature.	Type	The type of service fitting	Control Panel	Irrigation control panel which may or may not be hydraulically connected

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						Dog Bowl Drinking Fountain Drip Line Fountain Decorative Filling Station Filter Goose Neck Hot Water System Nipple Other Pop Up Sprinkler Shower Spray Nozzle Tap	<i>Fixed animal drinking bowl attached to customer owned water connection</i> <i>Drinking Fountain or bubbler to provide drinking water to patrons</i> <i>Fixed perforated pipe for drip irrigation</i> <i>A decorative fountain</i> <i>Card-accessed water delivery point for commercial access</i> <i>In line filter to prevent irrigation line blockages</i> <i>Downward pointing outlet on a vertical riser</i> <i>Hot Water System. Normally attached to a structure.</i> <i>Simple riser or short length of small bore pipe providing a point of discharge</i> <i>Some other irrigation fitting - do not use for pipe fittings, valves pumps etc as these exist in other feature classes</i> <i>Pop-up type sprinkler head</i> <i>Open air public shower point, such as may be found at beachside parks</i> <i>Fixed Irrigation sprayer, sprinkler, bubbler or drip nozzle</i> <i>Water delivery tap. Not a stopcock or control valve</i>
				BelowGround	<i>Is the fitting below ground</i>		boolean
				WaterSaver	<i>Does the fitting employ waste minimisation technology (other than auto shut-off)</i>		boolean
				AutoShutOff	<i>Does the fitting employ auto shut-off technology</i>		boolean
				Rotation	<i>Rotation angle (cartesian - anti-clockwise 0 degrees = East)</i>		Float Direction
				WaterQuality	<i>The quality/source of the water being supplied through the service fitting.</i>	Drinking Water Recycled Aplus Recycled A Treated Effluent Rain Water Raw Water Ground Water Process Water Other Unknown	<i>Drinking-quality (potable) water for normal mains supply by the municipal water service provider.</i> <i>Class A+ tertiary treated with reverse osmosis recycled water for supply via dual reticulation for permitted interior and exterior uses</i> <i>Class A tertiary treated recycled water for supply via dual reticulation for permitted exterior uses</i> <i>Treated Effluent to class B through class D for irrigation only</i> <i>Rain Water collected directly into the system for irrigation</i> <i>Untreated water from a watercourse or pond used to feed a water treatment plant or irrigation system</i> <i>Untreated water from bores used to feed a water treatment plant or irrigation system</i> <i>Non-potable process water of some description</i> <i>Pipe conveying some other kind of water (not recycled class B and below which is considered as treated sewage effluent)</i> <i>Type of water carried by this pipe is unknown at time of submission</i>
StorageTanks	<i>Represents the feature class of water storage points</i>	StorageTank	<i>Represents a domestic storage tank feature. Includes roofwater storage not fed from mains service. Not to be used for bulk storage features that are part of the mains distribution network.</i>	Geometry	<i>Point geometry representing the feature in coordinate space.</i>		geometry point_singlepoint
				Material	<i>The material that the storage tank is made from.</i>	Plastic Steel Concrete Other Unknown	<i>Plastic</i> <i>Steel</i> <i>Concrete</i> <i>Tank made from another material not in the schema</i> <i>Tank material is unknown</i>
				Source	<i>The source of water in the tank.</i>	Rain Water Ground Water Ponded Water Mains Service	<i>Roof water catchment</i> <i>Ground water extracted from a bore</i> <i>Ponded water pumped from a surface water catchment</i> <i>Drawn from a mains water supply service</i>
				Manufacturer	<i>The Manufacturer of the unit</i>		String 64
				ModelNumber	<i>The standard code, model number or part number for the unit</i>		String 64
				Volume m3	<i>The effective volume in cubic metres.</i>		Float Positive NonZero
				Rotation	<i>Rotation angle (cartesian - anti-clockwise 0 degrees = East)</i>		Float Direction
				Geometry	<i>Point geometry representing the feature in coordinate space.</i>		geometry point_singlepoint

ASSET GROUP	Sewerage	DESCRIPTION	Data structure constraining information for Sewerage features.
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ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
MaintenanceHoles	Element representing the feature class of Sewerage Maintenance Holes (formerly Manholes)	MaintenanceHole	Element representing a sewerage Maintenance Hole (formerly Manhole).	Use	Use or purpose of this MaintenanceHole in the network	Overflow	Maintenance Hole with an overflow to the environment, receiving waters or an emergency storage
						Blank End	Maintenance hole with no incoming connection
						Pump Station	Pit housing a sewer pump station
						Valve Pit	Access Pit for a Sewer Valve
						Grit Collector MH	Grit Collector Maintenance Hole
						Outlet	Outlet
						Rising Main Discharge MH	A sewer MH that is the receiving MH for a rising main discharge
						Vacuum Sewerage Pump Station	A pit housing a Vacuum Sewerage Pump Station
						Vacuum Sewerage MH	A Maintenance Hole on a vacuum system with incoming house connections or gravity sewers that may also contain a vacuum valve
						Vacuum Lift	A chamber on a vacuum system containing a lift or vacuum valve but no incoming laterals
						Storage Tank	An off-stream sewage storage tank for emergency or other use
						Maintenance Hole	A standard Sewerage Maintenance Hole also known as a Manhole
						Maintenance Shaft	A proprietary Maintenance Hole usually prefabricated and of smaller diameter than a standard MH
						Temporary Works	A shaft used during construction that is left in place but does not form part of the final infrastructure
TEP	Terminal Entry Point type shaft						
Unknown	Chamber of unknown use at time of data submission						
Other	Type of maintenance structure other than those used as standard in the Schema						
ChamberSize	Data structure describing the chamber configuration and dimensions.	Rectangular.Length mm	Data container for rectangular dimensions. Length in millimetres.				
		Rectangular.Width mm	Data container for rectangular dimensions. Width in millimetres.				
		Circular.Diameter mm	Data container for circular dimensions. Diameter in millimetres.				
		Custom.Area_sqm	Custom Shaped chamber. Such a feature should be associated with a plan or document describing its layout and dimensions. Area in square metres.				
SurfaceLevel_m	The height of the top surface of the lid, hatch, rim or roof. Surface level in metres against the vertical datum for this project.		float				
InvertLevel_m	The height of the top surface of interior floor/bottom. Invert level in metres against the vertical datum for this project.		float				
FloorConstruction	Method of chamber floor construction.	Prefabricated	Prefabricated				
		Insitu	Built or poured in-situ				
FloorMaterial	Material type for chamber construction	Concrete	Concrete				
		FRP	Fibre Reinforced Concrete				
		GRP	Glass Reinforced Plastic				
		PE	Polyethylene				
		PP	Polypropylene				
		PVC	Poly Vinyl Chloride				
		M 1	A new material not yet in the Schema as agreed with the receiving entity				
		M 2	A new material not yet in the Schema as agreed with the receiving entity				
		Unknown	Material is unknown at time of data submission				
		Other	Another material not included in the Schema				
WallConstruction	Method of chamber wall construction.	Prefabricated	Prefabricated				
		Insitu	Built or poured in-situ				
WallMaterial	Material type for chamber wall construction	Concrete	Concrete				
		FRP	Fibre Reinforced Concrete				
		GRP	Glass Reinforced Plastic				
		PE	Polyethylene				
		PP	Polypropylene				
		PVC	Poly Vinyl Chloride				
		M 1	A new material not yet in the Schema as agreed with the receiving entity				
		M 2	A new material not yet in the Schema as agreed with the receiving entity				
		Unknown	Material is unknown at time of data submission				
		Other	Another material not included in the Schema				
RoofMaterial	Material type for chamber roof construction	PVC	Poly Vinyl Chloride				
		PE	Polyethylene				
		PP	Polypropylene				
		Concrete	Concrete				
		FRP	Fibre Reinforced Concrete				
		MS	Mild Steel				
		SS	Stainless Steel				
		Aluminium	Aluminium				
		Cast Iron	Cast Iron				
		Grid Mesh - GRP	Grid Mesh - GRP				
		Grid Mesh - Aluminium	Grid Mesh - Aluminium				
		No Roof	No Roof				
		Grid Mesh - SS	Grid Mesh - Stainless Steel				
		M 1	A new material not yet in the Schema as agreed with the receiving entity				
		M 2	A new material not yet in the Schema as agreed with the receiving entity				
		Unknown	Material is unknown at time of data submission				
		Other	Another material not included in the Schema				
Lining	Material type of chamber lining	PVC	Poly Vinyl Chloride				
		Epoxy	Epoxy				
		Polyurea	Polyurea				
		PE	Polyethylene				

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						M_1 M_2 Unknown Unlined Other	A new lining material not yet in the Schema as agreed with the receiving entity A new lining material not yet in the Schema as agreed with the receiving entity Material is unknown at time of data submission An alternative to entering a null value where there is no lining Another lining material not included in the Schema
				LidMaterial	Chamber lid configuration and material	Cast Iron Aluminium CI Concrete Infill Composite Concrete DI PVC PE PP MS SS No Lid	Cast Iron Default Value Aluminium Cast Iron with Concrete Infill Composite Concrete Ductile Iron Poly Vinyl Chloride Polyethylene Polypropylene Mild Steel Stainless Steel This structure has no lid (possibly because it has no roof)
				DropType	Chamber drop types	Straight Through MH Change In Direction Through MH External Drop Alternative External Drop Internal Drop Oblique 45deg Backdrop	Straight through MH with one entry, one exit, no change of direction, no backdrop but may have change of grade Straight through MH with one entry, one exit, no backdrops, a change of direction and may also have change of grade MH with one or more external backdrop vertical entries Alternative drop type with complex access arrangement or modified benching as shown on WSAA drawing SEW-206 MH with one or more internal backdrop vertical entries MH with an oblique 45° backdrop entry
				CatchmentPS	The identifier of the pumpstation that this node flows to.		String_32
				LineNumber	The identifier of the line that this node connects to		String_32
				MH Number	The identifier of this manhole or pit.		String_32
				Chainage_m	The distance upstream from end of line.		Float_Positive NonZero
				TieDistance_m	The tie distance in metres to a cadastral corner		Float_Positive NonZero
				OffsetDistance_m	The offset distance in metres from a cadastral boundary		Float_Positive NonZero
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction
				Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint
PipesNonPressure	Element representing the feature class of Sewerage Pipes Non-Pressure	PipeNonPressure	Element representing a sewer pipe non-pressurised. Includes all gravity reticulation and trunk gravity mains.	LineNumber	The sewer line identifier		String_32
				Use	The function of this pipe in the network.	Conduit Pipe Disused Effluent Overflow Reuse Stub Trunk Vent Syphon Vacuum Reticulation Unknown Other	Conduit Pipe (enveloper), which does not connect hydraulically with the reticulation system Non-pressure (gravity) pipe that is no longer in use but still present Pipe conveying treated effluent (usually from a treatment plant) A pipe that directs excessive sewer flows to another system or the external environment A pipe conveying low-grade (class B and below) treated effluent for reuse. Class A and A+ should use the water feature classes. A short length of pipe for a future connection pipe that is not connected at its upstream end at time of data submission A larger size sewer as defined by the receiving entity's standard definition A pipe to a vent pipe or deodorising apparatus, which not primarily designed to convey sewage A gravity sewer that flows uphill over part of its length due to syphonic action A gravity sewer flowing into a vacuum sewerage system (vacuum system pipes are part of the pressure pipe schema). A standard reticulation sewer that is not a trunk sewer Use unknown at time of submission A use other than those specified above
				Diameter_mm	Nominal pipe diameter in millimetres.		positiveInteger
				Material	Pipe material	PVC-U DI MS RCP FRC PRC GRP ABS PE-100 SWPP HDPE VC AC M_1 M_2 Unknown Other	Unplasticised PolyVinylChloride Ductile Iron Mild Steel Steel Reinforced Concrete Pipe Fibre Reinforced Concrete Polyester Resin Concrete jacking pipe e.g. Iplex Polycrete Glass Reinforced Plastic (includes the product known commercially as Hobas) Acrylonitrile Butadiene Styrene Medium Density Polyethylene Structural Wall Polypropylene Pipe (includes commercial brands SewerMax and SewerPro) High Density Polyethylene (includes the product known commercially as Haries Black Brute) Vitrified Clay Asbestos Cement (Only used for existing infrastructure not new works) A new material not yet in the Schema used by agreement with the receiving entity A new material not yet in the Schema used by agreement with the receiving entity A pipe material that is unknown at the time of the submission A pipe material other than those provided above
				Class	The pipe class as specified by the manufacture. Pipe class		4 Class 4

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
					<i>refers to the wall thickness and performance of the material.</i>	6 8 9 10 12 16 18 20 SN4 SN8 SN12 SN5000 SN8000 SN10000 PN1 PN6 PN6.3 PN8 PN10 PN12 PN12.5 PN16 PN18 PN20 PN35 FLCL X Y Z SDR7.4 SDR9 SDR11 SDR13.5 SDR17 SDR21 Unknown Other	Class 6 Class 8 Class 9 Class 10 Class 12 Class 16 Class 18 Class 20 Class SN4, formerly Sewer Heavy Class SN8, formerly Sewer Extra Heavy Class SN12 SN5000 SN8000 SN10000 PN1 PN6 PN6.3 PN8 PN10 PN12 PN12.5 PN16 PN18 PN20 PN35 (Standard for ductile iron) Class FLCL (ductile iron flanged class) Class X (Reinforced Concrete) Class Y (Reinforced Concrete) Class Z (Reinforced Concrete) SDR7.4 SDR9 SDR11 SDR13.5 SDR17 SDR21 Unknown at time of submission A class other than provided above
				Lining	<i>The internal corrosion protection method employed on the pipe material.</i>	CL CL_SR CL_AC PVC FBE Unlined L_1 L_2 Rehab_NS Rehab_ST Unknown Other	Cement Lined Normal. Centrifugally spun cement mortar (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined (Default for plastic pipes) A new protection type not yet included in the Schema as agreed with the receiving entity. A new protection type not yet included in the Schema as agreed with the receiving entity. A non-structural rehabilitation liner. A structural rehabilitation liner. The protection type is not known at the time of the data submission. A protection type not included above.
				Protection	<i>The external corrosion protection method employed on the pipe material.</i>	FBE FBPE Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated Unknown Other P_1 P_2	Fusion Bonded Epoxy Fusion Bonded Polyethylene (Includes the product known commercially as Sintakote) Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated Protection Type unknown at time of data submission Another type of protection not covered in the schema choices above A new protection type not yet included in the Schema as agreed with the receiving entity. A new protection type not yet included in the Schema as agreed with the receiving entity.
				JointType	<i>Pipe to pipe join method.</i>	RRJ RRRJ SWJ WJ FJ MCJ BW EFW JT_1 Unknown Other	Rubber Ring Rubber Ring Restrained Joint (Ductile Iron) Solvent Welded Joint (PVC) Welded Joint (Mild Steel pipe) Flanged Joint Mechanical Compression Joint (PE pipe and Copper) Butt Weld (PE pipe) Electrofusion Weld (PE pipe) A new joint type not yet included in the Schema used by agreement with the receiving entity. Joint type unknown at time of data submission A joint type not already included in the above choices
				US_InvertLevel_m	<i>Invert level of this pipe end (in metres against the vertical datum).</i>		Float

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				DS_InvertLevel_m	Invert level of this pipe end (in metres against the vertical datum).		Float
				US_SurfaceLevel_m	Surface level (in metres against the vertical datum) vertically above this pipe end.		Float
				DS_SurfaceLevel_m	Surface level (in metres against the vertical datum) vertically above this pipe end.		Float
				Alignment_m	Average offset distance in metres from cadastral boundary to the main.		Float_Positive_NonZero
				Depth_m	Nominal depth in metres to the top of the pipe.		Float
				Embedment	Embedment type.	Natural GBH GBS GBSonConc GBSonGTP GBSonCSS GBSonPiles CemStabBS ConcBS ConcBSonPiles Enveloped Above Ground None Unknown Other	Pipe laid directly on natural in-situ material Granular bed and haunch Granular bed and surround Granular bed and surround on concrete support Granular bed and surround on geo-textile pillow Granular bed and surround on cement stabilised support Granular bed and surround on piles Cement stabilised bed and surround Concrete bed and surround Concrete bed and surround on piles Within an envelope pipe Pipe is above ground on piers or a bridge deck Thrust bored or Trenchless method Embedment Type unknown at time of data submission
				EB_1			Another type of embedment type that is not already included in the standard types
				EB_2			A non-standard or new type of embedment as agreed with the data receiving entity
				RockExcavated	Value indicating whether rock was excavated from the pipe channel.		boolean
				PipeGrade	Pipe grade as a percentage. Derivable as the difference in invert levels divided by the horizontal length (not the length of pipe) multiplied by 100.		Float_Positive_Zero
				Length_m	Actual material length of the pipe. Not the horizontal length of the geometry.		Float_Positive_NonZero
				Geometry	The linear geometry of the pipe feature in coordinate space. At version 4.1.0 these features may include curves due to modern flexible materials.		geometry_linear_singlepath_complex
PipesPressure	Element representing the feature class of Sewerage Pipes Pressure	PipePressure	Element representing a sewer pipe pressurised (rising main).	Use	The function of this pipe in the network.	Disused Effluent Reuse Rising Scour Vacuum PressureSewerCollection Unknown Other	Disused Pressure Pipe that remains in place Pressure pipe conveying treated effluent (usually from a treatment plant) Treated Wastewater Reuse Pipe for class B and below. Class A and A+ should use the water supply feature classes A standard rising main or pressure sewer A pipe maintained under pressure to scour a pressure main to a discharge point. Gravity scours should use the non-pressure pipe feature class A pressure pipe in a vacuum system that is subject to negative pressure The connection pipe from a household proprietary pressure sewer pump unit to the external pressure main Use unknown at time of data submission A use other than those provided above in the schema
				Diameter_mm	Nominal pipe diameter in millimetres.		positiveInteger
				Material	Pipe material	ABS GRP DI MS PE-100 PE-80B PVC-M PVC-O PVC-U AC FRC M 1 M 2 Unknown Other	Acrylonitrile Butadiene Styrene Glass Reinforced Plastic (includes the product known commercially as Hobas) Ductile Iron Mild Steel Polyethylene (100) Polyethylene (80B) Polyvinyl Chloride (Modified) Polyvinyl Chloride (Oriented) Polyvinyl Chloride (Unplasticised) Asbestos Cement (not for new works - legacy pipes only) Fibre reinforced concrete New material not included in schema as agreed with data receiving entity New material not included in schema as agreed with data receiving entity Material type unknown at time of data submission A material not included in schema types provided above
				Class	The pipe class as specified by the manufacture. Pipe class refers to the wall thickness and performance of the material.	SN5000 SN8000 SN10000 PN1 PN6 PN6.3 PN8 PN9 PN10 PN12 PN12.5 PN16 PN18 PN20 PN35	Class SN5000 Class SN8000 Class SN10000 Class PN1 Class PN6 Class PN6.3 Class PN8 Class PN9 Class PN10 Class PN12 Class PN12.5 Class PN16 - default for PE_100, PVC_O and PVC_M Class PN18 Class PN20 Class PN35 (Standard for DI)

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						FLCL X Y Z 4.8mm 5mm 6mm 7mm 8mm 9mm 10mm 11mm 12mm 16mm Unknown Other	Class FLCL (ductile iron flanged class) Class X (Reinforced Concrete) Class Y (Reinforced Concrete) Class Z (Reinforced Concrete) 4.8mm wall thickness Class (Mild Steel) 5mm wall thickness Class (Mild Steel) 6mm wall thickness Class (Mild Steel) 7mm wall thickness Class (Mild Steel) 8mm wall thickness Class (Mild Steel) 9mm wall thickness Class (Mild Steel) 10mm wall thickness Class (Mild Steel) 11mm wall thickness Class (Mild Steel) 12mm wall thickness Class (Mild Steel) 16mm wall thickness Class (Mild Steel) Class unknown at time of data submission A Class other than those currently provided for in the Schema
				Lining	The internal corrosion protection method employed on the pipe material.	CL CL_SR CL_AC PVC FBE Unlined Unknown Other	Cement Lined Normal. Centrifugally spun cement mortar (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined Lining type unknown at time of data submission Another type of liner that is not currently in the Schema
				Protection	The external protection for the pipe.	FBE FBPE Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated P_1 P_2 Zinc Zinc-Aluminium Alloy Unknown Other	Fusion Bonded Epoxy Fusion Bonded Polyethylene (Includes the product known commercially as Sintakote) Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated A new protection type not yet in the schema as agreed with the data receiving entity A new protection type not yet in the schema as agreed with the data receiving entity Galvanized or zinc painted Zinc Aluminium alloy coating (Petair Saint-Gobain) Protection type unknown at time of data submission Another type of protection not covered by the schema
				JointType	Pipe to pipe join method.	RRJ RRRJ SWJ WJ FJ MCJ BW EFW JT_1 Unknown Other	Rubber Ring Rubber Ring Restrained Joint (Ductile Iron) Solvent Welded Joint (PVC) Welded Joint (Mild Steel pipe) Flanged Joint Mechanical Compression Joint (PE pipe and Copper) Butt Weld (PE pipe) Electrofusion Weld (PE pipe) A new joint type not yet included in the Schema used by agreement with the receiving entity. Joint type unknown at time of data submission A joint type not already included in the above choices
				Alignment_m	Average offset distance from cadastral boundary to the main.		Float_Positive_NonZero
				Depth_m	Nominal depth in metres to the top of the pipe.		Float
				Embedment	Embedment type.	Natural GBH GBS GBSonConc GBSonGTP GBSonCSS GBSonPiles CemStabBS ConcBS ConcBSonPiles Enveloped Above Ground None Unknown Other EB_1 EB_2	Pipe laid directly on natural in-situ material Granular bed and haunch Granular bed and surround Granular bed and surround on concrete support Granular bed and surround on geo-textile pillow Granular bed and surround on cement stabilised support Granular bed and surround on piles Cement stabilised bed and surround Concrete bed and surround Concrete bed and surround on piles Within an envelope pipe Pipe is above ground on piers or a bridge deck Thrust bored or Trenchless method Embedment Type unknown at time of data submission Another type of embedment type that is not already included in the standard types A non-standard or new type of embedment as agreed with the data receiving entity A non-standard or new type of embedment as agreed with the data receiving entity
				RockExcavated	Value indicating whether rock was excavated from the pipe channel.		boolean
				Length_m	Actual material length of the pipe. Not the horizontal length of the geometry.		Float_Positive_NonZero

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				Geometry	The linear geometry of the pipe feature in coordinate space. At version 4.1.0 these features may include cruves due to modern flexible materials.		geometry_linear_singlepath_complex
Valves	Element representing the feature class of Sewerage Valves	Valve	Element representing a sewer valve fitting	Use	The function of this valve in the network.	Non-Return Service Stop Scour Diversion Zone Boundary Flow Control Pressure Control Gas Release Other Unknown	Used to prevent backflow can be of type Generic, Rubber Gate or Swing Check Used to isolate a service on a pressure sewer or vacuum sewerage system Used to stop flow in a pipeline Used to open and close access to a scour pipe Used to divert flow along another route Used to isolate sewer catchments or service zones Used to control the rate of flow in a pipe Used to control or maintain the pressure in a pipeline; can be of the type Overflow, Pressure Relief or Vacuum Release. Used to release gas or air from a pipeline and should be of type Air Valve Used to for some other purpose not provided for in the Schema and can be of Type Special Use is unknown at time of data submission
				Type	The physical configuration of the valve	Generic Rubber Gate Swing Check Gate Butterfly Knife Gate Eccentric Plug Globe Ball Penstock Overflow Pressure Release Vacuum Release Air Valve Special	Non-return valve of an unknown or generic type. Also control or stop valve of a generic type Non-return valve of a the rubber gate type Non-return valve of the swing check type Gate Valve Butterfly Valve Knife Gate Valve Eccentric Plug valve Globe Valve Ball Valve A Penstock formally known as Penstock Gate An overflow valve A pressure release valve A vacuum release valve A proprietary valve for releasing gas or air A Specialist type of valve not covered in the Schema
				Diameter mm	The nominal bore diameter of the valve		positiveInteger
				Lining	The internal corrosion protection method employed on the pipe material.	CL CL_SR CL_AC PVC FBE Unlined Unknown Other	Cement Lined Normal. Centrifugally spun cement mortar (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined (Default for plastic pipes) Lining type unknown at time of data submission Another type of liner that is not currently in the Schema
				Protection	The external protection for the pipe.	FBE FBPE Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated P_1 P_2 Zinc Zinc-Aluminium Alloy Unknown Other	Fusion Bonded Epoxy Fusion Bonded Polyethylene (Includes the product known commercially as Sintakote) Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated A new protection type not yet in the schema as agreed with the data receiving entity A new protection type not yet in the schema as agreed with the data receiving entity Galvanized or zinc painted Zinc Aluminium alloy coating (Petair Saint-Gobain) Protection type unknown at time of data submission Another type of protection not covered by the schema
				Manufacturer	The Manufacturer of the unit		String_64
				ModelNumber	The standard code, model number or part number for the unit		String_64
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction
				Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint
				Fittings	Element representing the feature class of Sewerage Fittings	Fitting	Element representing a sewer fitting other than a valve

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
						Tee Branch Dead End Tee Branch Ext Dead End Puddle Flange Sampling Point Booster Pump Inspection Opening	A dead end plate pre-fitted to one branch of a Tee for access or future connection An end cap pre fitted externally to a Tee Branch for access or future connection A Puddle Flange fitted externally to a pipe to transmit axial thrust into a structure or to provide sealing with a structure A point designed for taking sewage or effluent samples A pump providing the motive force to move sewage through a pressure main against the force of gravity An Inspection Opening on a pressure pipe
				Material	Fitting material	ABS Aluminium GRP DI MS PE-100 PE-80B PVC-M PVC-O PVC-U Rubber SS VC Concrete AC FRC M 1 M 2 Unknown Other	Acrylonitrile Butadiene Styrene Aluminium Glass Reinforced Plastic (includes the product known commercially as Hobas) Ductile Iron Mild Steel Polyethylene (100) Polyethylene (80B) Polyvinyl Chloride (Modified) Polyvinyl Chloride (Oriented) Polyvinyl Chloride (Unplasticised) Rubber Stainless Steel Vitreous Clay Concrete Asbestos Cement (Existing infrastructure only) Fibre reinforced concrete New material not included in schema as agreed with data receiving entity New material not included in schema as agreed with data receiving entity Material type unknown at time of data submission A material not included in schema types provided above
				Lining	The internal corrosion protection material or method for the fitting.	CL CL_SR CL_AC PVC FBE Unlined Unknown Other	Cement Lined Normal. Centrifugally spun cement mortar (default for Ductile Iron and Mild Steel) Cement Lined - Sulphate Resistant (DI and MS) Cement Lined - Calcium Aluminate (DI and MS) Plasticised PVC (includes Humes Plastiline) Fusion Bonded Epoxy Unlined (Default for plastic pipes) Lining type unknown at time of data submission Another type of liner that is not currently in the Schema
				Protection	The external protection for the fitting.	FBE FBPE Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated P_1 P_2 Zinc Zinc-Aluminium Alloy Unknown Other	Fusion Bonded Epoxy Fusion Bonded Polyethylene (Includes the product known commercially as Sintakote) Plastic Wrapped Tape Wrapped Concrete Encased Sheathed Epoxy Paint Uncoated A new protection type not yet in the schema as agreed with the data receiving entity A new protection type not yet in the schema as agreed with the data receiving entity Galvanized or zinc painted Zinc Aluminium alloy coating (Petair Saint-Gobain) Protection type unknown at time of data submission Another type of protection not covered by the schema
				BodySize mm	The nominal diameter of the major connecting pipe.		positiveInteger
				BranchSize mm	The nominal diameter of the minor connecting pipe.		positiveInteger
				Rotation	Rotation angle (cartesian - anti-clockwise 0 degrees = East)		Float_Direction
				Geometry	The geometry representing this feature in coordinate space.		geometry_point_singlepoint
Connections	Element representing the feature class of sewer property connections	Connection	Element representing a sewer property connection	SurfaceLevel_m	Surface level of this feature (in metres against the vertical datum).		Float
				InvertLevel_m	Invert level of this feature (in metres against the vertical datum).		Float
				Use	The function of the house connection in the network.	House Combined	House Drain - standard sanitary drain conveying sewage only Combined House Drain - a sanitary drain conveying both sewage and storm water in a combined sewerage system
				Diameter mm	The nominal diameter of the connection conduit.		positiveInteger
				Material	The material of the connection conduit.	PVC-U PVC-M PVC-O Cast Iron RCP DI FRC FRP PE VC M 1	PolyVinylChloride Orientated PolyVinylChloride Modified PolyVinylChloride Orientated Cast Iron Steel Reinforced Concrete Pipe Ductile Iron Fibre Reinforced Concrete Fibre Reinforced Plastic Polyethylene Vitrified Clay A new material not yet in the Schema as agreed with the receiving entity

ASSET TYPE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION
				M 2 Unknown Other	A new material not yet in the Schema as agreed with the receiving entity Lid Material is unknown at time of data submission Another material not included in the Schema
			Class	The pipe class as specified by the manufacture. Pipe class refers to the wall thickness and performance of the material.	SH SEH SN4 SN6 SN8 SN10 SN12 SDR21 Unknown Other
			Length_m	The material length in metres of the house connection branch conduit.	Float_Positive_NonZero
			Type	Physical configuration of connection.	Sloped Branch Ramp Riser Jump Up Stub Twin Jump Up Twin Ramp Riser
			Chainage_m	The distance in metres from the centre of the downstream manhole to the point of connection of the offshoot branch.	Float_Positive_Zero
			Offset_m	The distance measured square from the centre of the sewer main to the point of connection.	Float_Positive_NonZero
			LineNumber	The line identifier of the sewer main.	String_32
			DSMHID	Downstream manhole identifier.	String_32
			IO_Distance_m	Distance from a point perpendicular to the inspection opening to the centre of the downstream manhole along the axis of the sewer main.	Float_Positive_NonZero
			SO_Nearest_m	Perpendicular distance from the inspection opening to the nearest cadastral boundary.	Float_Positive_NonZero
			SO_Other_m	Perpendicular distance from the inspection opening to the next nearest cadastral boundary.	Float_Positive_NonZero
			Sediment_Trap	True indicates that the connection includes an inline sediment trap.	boolean
			Geometry	The linear geometry of the house connection feature in coordinate space. Digitise this line downstream from the inspection opening to the pipe or pit If a point is desired, the inspection opening position may be taken as the start of the line At version 4.1.0 these features may include curves due to modern flexible materials.	geometry_linear_singlepath_complex

ASSET GROUP	Cadastre	DESCRIPTION	Data structure constraining information for Cadastre features.
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ASSET ELEMENT	DESCRIPTION	FEATURE	DESCRIPTION	DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION	ENUMERATION \ DETAIL	DESCRIPTION						
Cadastre	Data structure constraining information	LandParcels	Represents the feature class of cadastral parcels	Lot	Represents a cadastral lot feature.	LotNo	The lot number as described on the originating survey plan	String	32						
					Represents the boundary of a titled, or proposed lot	PlanNo	The plan number of the originating survey plan.	String	32						
						CancelledLotPlan	The lot on plan cancelled by this boundary if applicable.	String	32						
						TitledArea_sqm	The area in square metres enclosed by the boundary, as described by the survey plan.	Float	Positive_NonZero						
						Geometry	The geometry of this feature in coordinate space. May contain holes and islands. Boundaries must consist of straight lines.	geometry_area	multipatch_simple						
				WaterCourseReserve	Represents the boundary of a Water Course Reserve.	Name	The name of the watercourse reserve represented by this boundary	String	128						
						Geometry	The geometry of this feature in coordinate space. May contain holes and islands. Boundaries must consist of straight lines.	geometry_area	multipatch_simple						
						RoadReserve	Represents the boundary of a Road Reserve.	Name	The name of the road reserve represented by this boundary	String	128				
								Geometry	The geometry of this feature in coordinate space. May contain holes and islands. Boundaries must consist of straight lines.	geometry_area	multipatch_simple				
								Easements	Represents the feature class of cadastral easements	Easement	Represents a cadastral easement feature. Represents the boundary of a existing or new easement	LotNo	The lot number as described on the originating survey plan	String	32
												PlanNo	The plan number of the originating survey plan.	String	32
		Geometry	The geometry of this feature in coordinate space. May contain holes and islands. Boundaries must consist of straight lines.	geometry_area	multipatch_simple										
		SurveyMarks	Represents the feature class of Survey Marks	SurveyMark	Represents a cadastral SurveyMark feature.	MarkName	The name by which the survey mark may be uniquely identified from control records.	String	64						
						Geometry	The geometry of this feature in coordinate space.	geometry_point	singlepoint						
		Connections	Represents the feature class of cadastral Connections	Connection	Represents an observed and reduced cadastral connection feature. A connection must run from the survey mark to the connected feature. If this feature is used, the bearing and distance must be measured from the survey mark to the connected feature. If this feature is used, the bearing and distance must be measured from the survey mark to the connected feature.	Bearing	The bearing in decimal degrees clockwise from North in the coordinate system of this project.	Float	Positive_Zero						
						Distance_m	The distance in metres on the coordinate system of this project.	Float	Positive_NonZero						
						Geometry	The geometry of this feature in coordinate space.	geometry_linear	segment_simple						
		ChainageLines	Represents the feature class of cadastral Connections	ChainageLine	A line of measured chainage with a defined start and end value. Polyline shape is only an approximation of true curve geometry, but the start and end points should coincide exactly with the actual start and end of chainage.	ChainageID	Unique ID of this chainage line.	String	64						
						StartChainage_m	Start Chainage in metres of this section.	Float	Positive Zero						
						EndChainage_m	End Chainage in metres of this section.	Float	Positive Zero						
						Geometry	The geometry of this feature in coordinate space.	geometry_linear	singlepath_complex						