Australian Government
Bureau of Meteorology

Australian Hydrological Geospatial Fabric
V2.1 product relationships

Water Information
DATA › INFORMATION › INSIGHT

Surface Network
(SH Network)

AHGF Waterbody Polygon
NetNodeID 0..*
MapNodeID 0..*
drains ↑
(drains ↑)
(←matches)
AusHydroID 0..*
0..1 AusHydroID
AHGF Network Stream Polyline
DrainID 0..1
AHGF Mapped Stream Polyline
0..1
AHGF Network Node Point
HydroID 0..1
ConNodeID 0..1
(←matches)
ConNodeID 0..1
AHGF Mapped Node Point
HydroID 1
ConNodeID 0..1
HydroID 1
(←duplicates)
drains to ↑
AHGF Network Connectivity (Upstream)
AHGF Network Connectivity (Downstream)
drains ↓
AHGF Network Stream FS
1 HydroID
NetNodeID 0..*
AHGF Catchment Polygon
1 NCB_ID
is extended by ↓
1 NCB_ID
NCB Level 1 Drainage Division Polygon
DivNumber 1
contains ↓
Level1 1..*
NCB Pfafstetter
1..* Level2
NCB Level 2 Drainage Basin Group Polygon
Level2Num 1
contains →

AHGF Mapped Connectivity (Upstream)
AHGF Mapped Connectivity (Downstream)
AHGF Mapped Stream FS

Surface Cartography
(SH Cartography)

AHGF Canal Line Polyline
AHGF Dam Point
AHGF Estuary Polygon
AHGF Hydro Area Polygon
AHGF Hydro Line Polyline
AHGF Hydro Point Point
AHGF Sea Polygon
AHGF Structure Point
AHGF Terrain Break Line Polyline
AHGF Water Pipeline Polyline

Hydrology Reporting Catchments
(HR Catchments)

drains ↓
HydroID 0..1
AHGF Node Point
ConNodeID 0..1
drains ↓
1..* ConNodeID 0..*
AHGF Contracted Catchment Polygon
1 HydroID
AHGF Link Polyline
DrainID 0..1
← drains to
AHGF Node-Link Connectivity (Upstream)
AHGF Node-Link Connectivity (Downstream)
1 (maps to →)
HydroID
(maps to →) 1
ConCatID

Hydrology Reporting Regions
(HR Regions)

AWRA DD Contracted Catchment Lookup
1 ←maps to 1..*
AWRA Drainage Division Polygon
AWRAID HydroID
RR Contracted Catchment Lookup
1 ← maps to 1..*
River Region Polygon

Surface Catchments
(SH Catchments)

Groundwater Cartography
(GW Cartography)

AHGF Aquifer Outcrop Polygon
AqifrBndID 0..* ← has
1 HydroID 1
AHGF Aquifer Boundary Polygon
has property of →
AqifrBndID 0..*
IGW Aquifer Salinity Polygon
AHGF Aquifer Contour Polyline
AqifrBndID 0..* ← has
1 HydroID 1
has property of →
AqifrBndID 0..*
IGW Aquifer Yield Polygon
IGW Water Table Hydraulic Conductivity Polygon
IGW Water Table Salinity Polygon
IGW Water Table Yield Polygon
AHGF Surficial Hydrogeological Unit Polygon
AHGF Water Table Aquifer Polygon

AHGF Feature Class
AHGF Table
Non-AHGF Feature Class
Non-AHGF Table

Supplied relationship class
Optional relationship class
Strong spatial alignment