Killenaule GWB: Summary of Initial Characterisation.

Tock units. There is not a high degree of faulting mapped in this area.	Hydrometric Area Local Authority			Associated surface water bodies	Associated terrestrial ecosystems	Area (km²)	
Highest elevations are to the northeast on the lower slopes of the Silvevardagh Hills. This reduces gradually to the southwest and west. There is quite a low drainage density in this area. Aquifer type(s)	S. Tipperary Co Co		Со	•			
Main recharge Thickness Thickness of the subsoil is small, typically less than 3m. Save againgter Thickness Thickness of the subsoil is small, typically less than 3m. Save are aquifer arises of the subsoil is small, typically less than 3m. Save are appeared to be very large, as the bedrock strata are not a major aquifer. A high percentage of potential recharge may run off to surface streams. Laffansbridge (980), Coolmore large shown abstractions Groundwater Flow Parls Groundwater Surface water interactions This groundwater body is defined to the northeast by the boundary of the Surface to be south. The discharge from this groundwater body is to the mortheast on the bedrock trans are are and at areas of outerop. Recharge is not expected to be very large, as the bedrock strata are not a major aquifer. A high percentage of potential recharge may run off to surface streams. Laffansbridge (980), Coolmore large shown abstractions Groundwater Flow Parls Groundwater Flow Parls Groundwater Flow Parls Groundwater Surface water interactions Groundwater & Groundwater flow paths in this area are considered to be short. The area of the groundwater body is small and streams in the bedrock is not a major aquifer and solo to small springs and seeps. Owing to the poor productivity of the aquifers in this body it is unlikely that any major groundwater sologies. The surface water interactions score as a seeps. Owing to the poor productivity of the aquifers in this body it is unlikely that any major groundwater surface water body is defined to the northeast by the boundary of the Suir River catchment and elsewhere by the extent of the Namurian shales. Most recharge is expected to be core in the elsewhere by the extent of the Namurian shales. Most recharge is expected to be core in the elsewhere soly it is unlikely that any major groundwater surface water interactions occur. Baselon by or revealed by the perlatively to be rel				highest elevations are to the northeast on the lower slopes of the Slieveardagh Hills. This reduces gradually to			
Thickness Effective thickness is not expected to be large but the bedrock may permeable to depths of around 25m in some areas. Lithologies Rock is close to surface over the majority of this area; to the southwest there are some deposits of limestone-derived till whose boundary may overlap with this groundwater body. Thickness Thickness Thickness of the subsoil is small, typically less than 3m.		Aquifer type	e(s)	Pl – Poor Aquifer, generally unproductive except	for local zones		
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Thickness Effective thickness is not expected to be large but the bedrock may permeable to depths of around 25m in some areas. Lithologies Rock is close to surface over the majority of this area; to the southwest there are some deposits of limestone-derived till whose boundary may overlap with this groundwater body. Thickness Thickness Thickness of the subsoil is small, typically less than 3m.	Geology and	-		The extent of this groundwater body is defined by the unconformity between the Namurian and Westphalian rock units. There is not a high degree of faulting mapped in this area.			
Second			transmissivities can be considered to range $1 - 6m^2/d$.				
derived till whose boundary may overlap with this groundwater body.				areas.			
Main recharge mechanisms	ata	_		derived till whose boundary may overlap with this	dary may overlap with this groundwater body.		
Main recharge mechanisms	lying Str						
Main recharge mechanisms				85%			
mechanisms expected to be very large, as the bedrock strata are not a major aquifer. A high percentage of potential recharge may run off to surface streams. Est. recharge rates Information will be added at a later date	Over	Vulnerability		EXTREME vulnerability except for some small areas of HIGH to the south.			
Springs and large known abstractions	arge			expected to be very large, as the bedrock strata are not a major aquifer. A high percentage of potential recharge			
large known abstractions	Rech	_					
Hydrochemical Signature The bedrock strata of this groundwater body are Siliceous. The limited data available show the water is 'very hard' with high electrical conductivity values. Groundwater Flow Paths Groundwater flow paths in this area are considered to be short. The area of the groundwater body is small and the bedrock is not a major aquifer. It is likely that most groundwater flow circulates in the upper tens of metres, recharging and discharging in local zones. The age of the groundwater is considered to be young. Groundwater & surface water interactions This groundwater will discharge locally to streams and rivers crossing the aquifer and also to small springs and seeps. Owing to the poor productivity of the aquifers in this body it is unlikely that any major groundwater surface water interactions occur. Baseflow to rivers and streams is likely to be relatively low. This groundwater body is defined to the northeast by the boundary of the Suir River catchment and elsewhere by the extent of the Namurian shales. Most recharge is expected to occur in the elevated areas, especially to the northeast on the lower slopes of the slivers and also perhaps directly to the surrounding limestone aquifer. Attachments Instrumentation Stream gauge: 16030 Borehole Hydrograph: none EPA Representative Monitoring boreholes: Coolmore (#36 – S220440) Information Sources Disclaimer Note that all calculation and interpretations presented in this report represent estimations based on the information	e	large known		Laffansbridge (980), Coolmore			
Groundwater Flow Paths Groundwater Flow Paths Groundwater flow paths in this area are considered to be short. The area of the groundwater body is small and the bedrock is not a major aquifer. It is likely that most groundwater flow circulates in the upper tens of metres, recharging and discharging in local zones. The age of the groundwater is considered to be young. Groundwater & surface water interactions Groundwater will discharge locally to streams and rivers crossing the aquifer and also to small springs and seeps. Owing to the poor productivity of the aquifers in this body it is unlikely that any major groundwater - surface water interactions occur. Baseflow to rivers and streams is likely to be relatively low. This groundwater body is defined to the northeast by the boundary of the Suir River catchment and elsewhere by the extent of the Namurian shales. Most recharge is expected to occur in the elevated areas, especially to the northeast on the lower slopes of the Slieveardagh Hills. The main flow direction is considered to be to the south. The discharge from this groundwater body is to the rivers and also perhaps directly to the surrounding limestone aquifer. Attachments Instrumentation Stream gauge: 16030 Borehole Hydrograph: none EPA Representative Monitoring boreholes: Coolmore (#36 – S220440) Information Sources Disclaimer Note that all calculation and interpretations presented in this report represent estimations based on the information	Discharg	mechanisms Hydrochemical		lower elevations where the water table is closer to the ground surface. There may be some discharge to the surrounding Carboniferous aquifer along fractures that cross both groundwater bodies. The bedrock strata of this groundwater body are Siliceous . The limited data available show the water is 'very			
Croundwater & surface water interactions							
seeps. Owing to the poor productivity of the aquifers in this body it is unlikely that any major groundwater surface water interactions This groundwater body is defined to the northeast by the boundary of the Suir River catchment and elsewhere by the extent of the Namurian shales. Most recharge is expected to occur in the elevated areas, especially to the northeast on the lower slopes of the Slieveardagh Hills. The main flow direction is considered to be to the south. The discharge from this groundwater body is to the rivers and also perhaps directly to the surrounding limestone aquifer. Attachments Instrumentation Stream gauge: 16030 Borehole Hydrograph: none EPA Representative Monitoring boreholes: Coolmore (#36 – S220440) Information Sources Note that all calculation and interpretations presented in this report represent estimations based on the information			OW	the bedrock is not a major aquifer. It is likely that most groundwater flow circulates in the upper tens of metres,			
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Information Sources Disclaimer Note that all calculation and interpretations presented in this report represent estimations based on the information	Вс		Bore	orehole Hydrograph: none			
Disclaimer Note that all calculation and interpretations presented in this report represent estimations based on the information	Information		EFA	representative monitoring potenties. Coolinote (тJU — 322U 11 U)		
	Disclaimer N			Note that all calculation and interpretations presented in this report represent estimations based on the information sources described above and established hydrogeological formulae			