

TWEED SHIRE COUNCIL

TWEED DISTRICT WATER SUPPLY AUGMENTATION OPTIONS STUDY - Social Impact Quantifier

Social Attribute	Raising of the Clarrie Hall Dam	New Byrrill Creek Dam (Small)	New Byrrill Creek Dam (Large)	Pipeline connection to Seq Water Grid (Alignment A)	Pipeline connection to Seq Water Grid (Alignment B)	Pipeline connection to Seq Water Grid (Alignment C)	Contingency Option	Comments
Number of affected properties requiring compensation	Due to land acquisitions for inundation of land or road deviation construction.	Due to land acquisitions for inundation of land or road deviation construction.	Due to land acquisitions for inundation of land or road deviation construction.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipelines and borefields can be positioned to mitigate impacts.	Numbers assume highest dam inundation levels. Includes properties affected if road deviation between Doon Doon Rd & Commissioners Creek Rd occurs.
No of known records	24	9	12	0	0	0	0	
Number of residents affected by compensation	Land is rural, single residence.	One property is an M.O.	One property is an M.O.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipeline can be positioned to mitigate impacts.	Unknown, but expected that pipelines and borefields can be positioned to mitigate impacts.	Estimated from number of residences and approx known inhabitants based on visits.
No of known records	60	30	35	0	0	0	0	
Number of residences inundated / lost	One residence directly impacted, two residences near flood inundation level 77AHD.	Two privately owned residences inundated. Two additional TSC owned residences	Two privately owned residences inundated. Two additional TSC owned residences	No direct impact expected.	Numbers assume highest dam inundation levels.			
No of known records	1 - 3	2	2	0	0	0	0	
Number of properties severed into two (or more) areas	Inundation severs direct overland connection, access via alternative route.	Inundation severs direct overland connection, access via alternative route.	Inundation severs direct overland connection, access via alternative route.	No direct impact expected.	Properties where cross-property access to all areas is severed, thus requiring alternative access and/or infrastructure to remain viable. Numbers assume highest dam inundation			
No of known records	8	2	2	0	0	0	0	
Total land inundated / lost	This is the additional land inundated around the existing water storage						Assumes Alignment C for SEQ pipeline plus 5ha groundwater sites	
Land area (hectares)	210 ha	235 ha	398 ha	7 ha	9 ha	13 ha	55 ha	
Loss of Regionally Significant Farmland	Low-lying areas upstream of the existing dam have been labelled Regionally Significant.							Farmland is categorised into State significant, Regionally significant and Other rural land by state government agencies. Accuracy of boundaries is moderately reliable.
Land area (hectares)	25ha	0ha	0ha	0ha	0ha	2ha	2ha	
Loss of Grazing land								Information is taken from the environmental matrix (cleared areas) and Agricultural suitability layer (GIS) for pipeline options. Assumes 5ha for

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Land area (hectares)	71.3	81.9	127.9	0	0	0	5	groundwater site.
Loss of commercially Forested land								Information is taken from the environmental matrix.
Land area (hectares)	6.5	64.1	119.9	0	0	0	0	
Loss of other productive land								
Land area (hectares)	0	0	0	0	0	0	0	
Properties affected by public road alignment / access issues	Up to 3 directly impacted by road realignments / replacements. Potentially 7 adversely impacted by increased travel time, and approx 25 positively impacted by reduced travel time.	4 directly impacted						Properties which would be affected by changes to the public road system.
No. properties				0	0	0	0	
Private or commercial groundwater bores impacted	No direct impact expected.	No direct impact expected.	No direct impact expected.	No direct impact expected.	No direct impact expected.	No direct impact expected.	Potential impacts from localised drawdown effects.	Unknown, but unlikely to affect a significant number of other boreholes, nor over a large area as long as extraction rate is
No of extractors	0	0	0	0	0	0	0-10?	
Non-Indegenous Cultural Heritage sites	Crams farm partially inundated.							
No of known records								
"Cultural Landscape" value lost								This relates to a deep connection of a spiritual nature to the land. The figures shown are the total area of land lost.
Land area (hectares)	210 ha	235 ha	398 ha	7 ha	9 ha	13 ha	55 ha	
Reduced water autonomy / Increased water restrictions	No change. Tweed's water restriction regime to remain.	No change. Tweed's water restriction regime to remain.	No change. Tweed's water restriction regime to remain.	Likely that SEQ restrictions would apply to Tweed.	Likely that SEQ restrictions would apply to Tweed.	Likely that SEQ restrictions would apply to Tweed.	Likely that SEQ and Rous restrictions would apply to Tweed.	
Frequency								