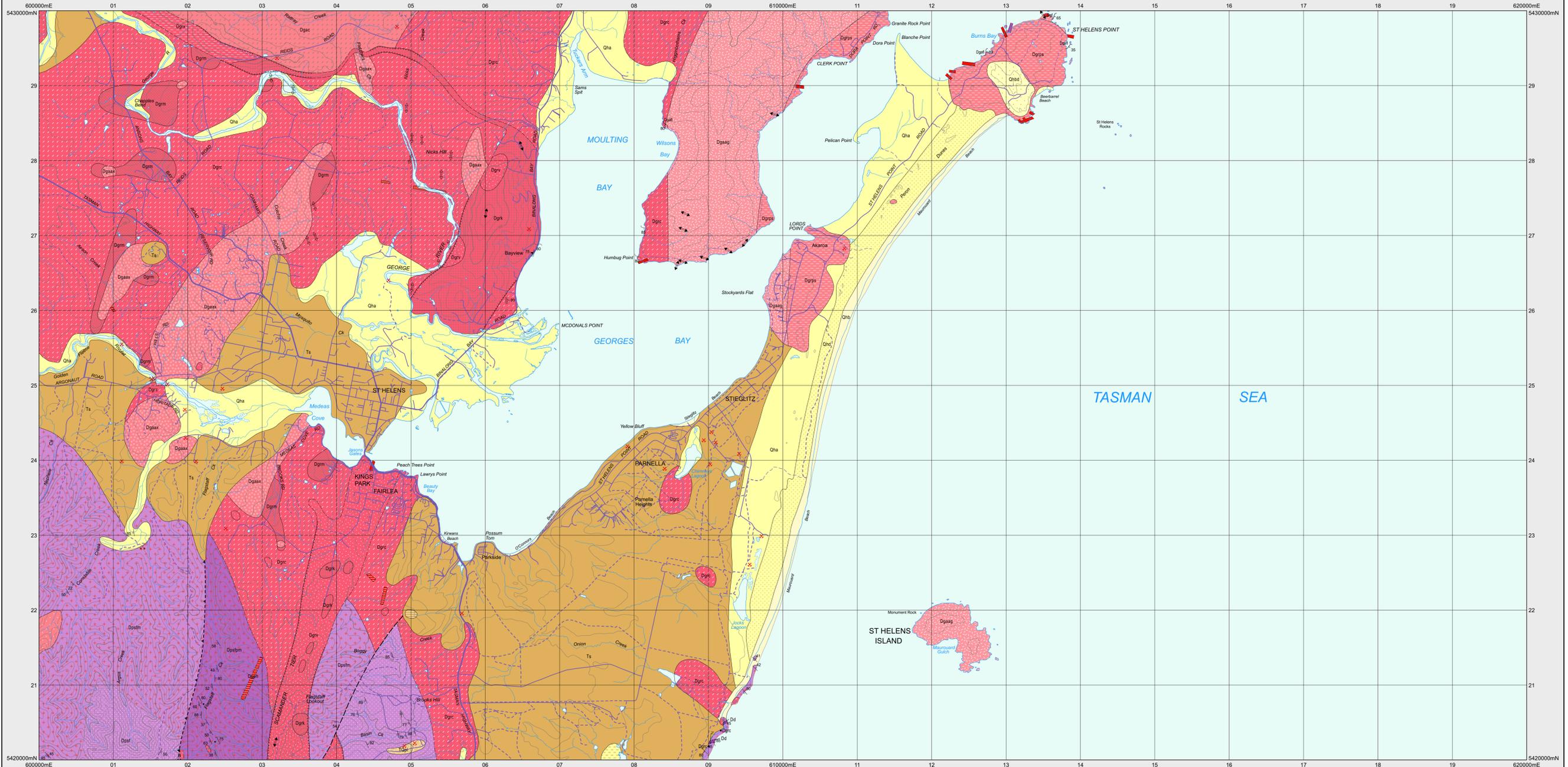


# ST HELENS

Scale 1:25 000



CEANOZOIC		PALEOZOIC	
QUATERNARY	Qha	Stream alluvium, swamp and marsh deposits (Qha).	DEVONIAN(?)
	Qhb	Active dune and beach sand and beach gravel (Qhb); beach sand (Qhb); dune sand (Qhd).	
	Qhcd	Clay, sand and gravel with minor peat. May have ferruginous cement and contain marine shells (Qpsc).	
PALEOGENE - NEOGENE	Ts	Conglomerate, gravel, sand and derived fall (Ts); Silcrete (Tfjb).	DEVONIAN
	TQpl	Gravel, sand and derived fall (TQpl).	
DEVONIAN	Dpsf	Turbidite succession dominated by quartz-rich sandstones with minor siltstones and mudstones. Current related sedimentary structures abundant. Contains Devonian marine macrofossils, graptolites and vascular plant fossils (Dpsf). Contact metamorphosed Dpsf (Dpsfm).	MATHINNA SUPERGROUP
	Dpsfm	Mappable mudstone-rich units within Dpsf (Dpsfm). Contact metamorphosed Dpsf (Dpsfm).	
LOWER DEVONIAN	Dpsfm	Mappable mudstone-rich units within Dpsf (Dpsfm). Contact metamorphosed Dpsf (Dpsfm).	SCAMANDER
	Dpsfm	Mappable mudstone-rich units within Dpsf (Dpsfm). Contact metamorphosed Dpsf (Dpsfm).	

IGNEOUS ROCKS	
Dd	Dolerite (Dd).
MINOR GRANITIC INTRUSIONS	
Dgf	Quartz-feldspar porphyry (Dgf).
Dgph	Quartz-plagioclase-hornblende porphyry (Dgph).
Dgaf	Leucocratic muscovite granite (Dgaf).
BLUE TIER BATHOLITH	
Dgaag	Medium- to coarse-grained, very porphyritic (small K-feldspar phenocrysts) monzogranite (Grant Point Granite; I-type) (Dgaag).
Dgrv	Coarse- to fine-grained, variably porphyritic granodiorite (Dgrv).
Dgrx	Variety with very abundant Mathinna Supergroup xenoliths (Dgrx).
Dgrk	Coarse- to fine-grained, porphyritic (very abundant large K-feldspar phenocrysts) granodiorite, with minor or no hornblende (Dgrk). (Dgrv, Dgrx, Dgrk - Scamander Tier Granodiorite; I-type).
Dgac	Coarse-grained, porphyritic to seriate to equigranular biotite-minor muscovite monzogranite (Mt Pearson Granite; I-type) (Dgac).
Dgap	Coarse-grained, generally pink porphyritic to seriate to equigranular biotite-minor muscovite syenogranite/alkali feldspar granite, with abundant minor intrusions of fine-grained pink biotite granite (Constable Creek phase of Mt Pearson Granite) (Dgap).
Dgaax	Fine- to coarse-grained biotite syenogranite/monzogranite (Medeas Cove Granite) (Dgaax).
Dgipa	Medium- to coarse-grained biotite granodiorite (Akaroa Granodiorite; I-type) (Dgipa).
Dgrc	Coarse-grained, sparsely porphyritic biotite-hornblende granodiorite (George River Granodiorite; I-type) (Dgrc).
Dgrm	Coarse-grained monzodiorite/monzonite ("Priority Monzonite", albited variant of George River Granodiorite) (Dgrm).

CONTACTS	
—	Geological contact.
—	Unconformable lithological contact.
—	Metamorphic contact.
—	Igneous intrusive contact.
—	Igneous intrusive contact with associated chilled or fine-grained marginal zone in igneous body.
—	Limit of mapping of sub-unit within undifferentiated rock unit.
—	Limit of detailed mapping.
FAULTS	
—	Fault.
—	Thrust fault (teeth on upper plate) - inferred.
—	Strike-slip fault (sinistral).
—	Strike-slip fault (sinistral) - inferred.
LINEARS	
—	Lineament - visible in magnetic data.

SOURCE DIAGRAM	
—	Strike and dip of bedding - right way up; overturned; facing unknown.
—	Strike of vertical bedding, facing unknown.
—	Strike and dip of cleavage of unspecified type and relative age.
—	Strike and dip of foliation due to alignment of K-feldspar phenocrysts in granitic rock.
—	Trend of preferred orientation of K-feldspar phenocrysts in granitic rock.
—	Trend of preferred orientation of hornblende and/or biotite in granitic rock.
—	Trend of preferred orientation of hornblende and/or biotite in granitic rock.
—	Strike and dip of dyke or vein, rock type or mineral unspecified; specified by RCODE in Point Attribute Table.
—	Trend and plunge of hinge line of reclined minor fold.
—	Field station for adjacent readings on the map.
—	Notable small outcrop with rock unit indicated.
—	Mineral deposit location - hardrock.
—	Mineral deposit location - alluvial/tailings.
—	Construction material/industrial mineral/germanite location.

**REFERENCE THIS MAP AS:**  
McLennaghan, M.P. (compiler) 2002. Digital Geological Atlas 1:25 000 Scale Series, Sheet 6042 St Helens. Mineral Resources Tasmania.  
Map produced by Spatial Information Services, Mineral Resources Tasmania.  
Base data from the LIST, Copyright State of Tasmania.  
Website: www.mrt.tas.gov.au  
GDA94 - MGA Zone 55. Contour interval: 20 metres.

