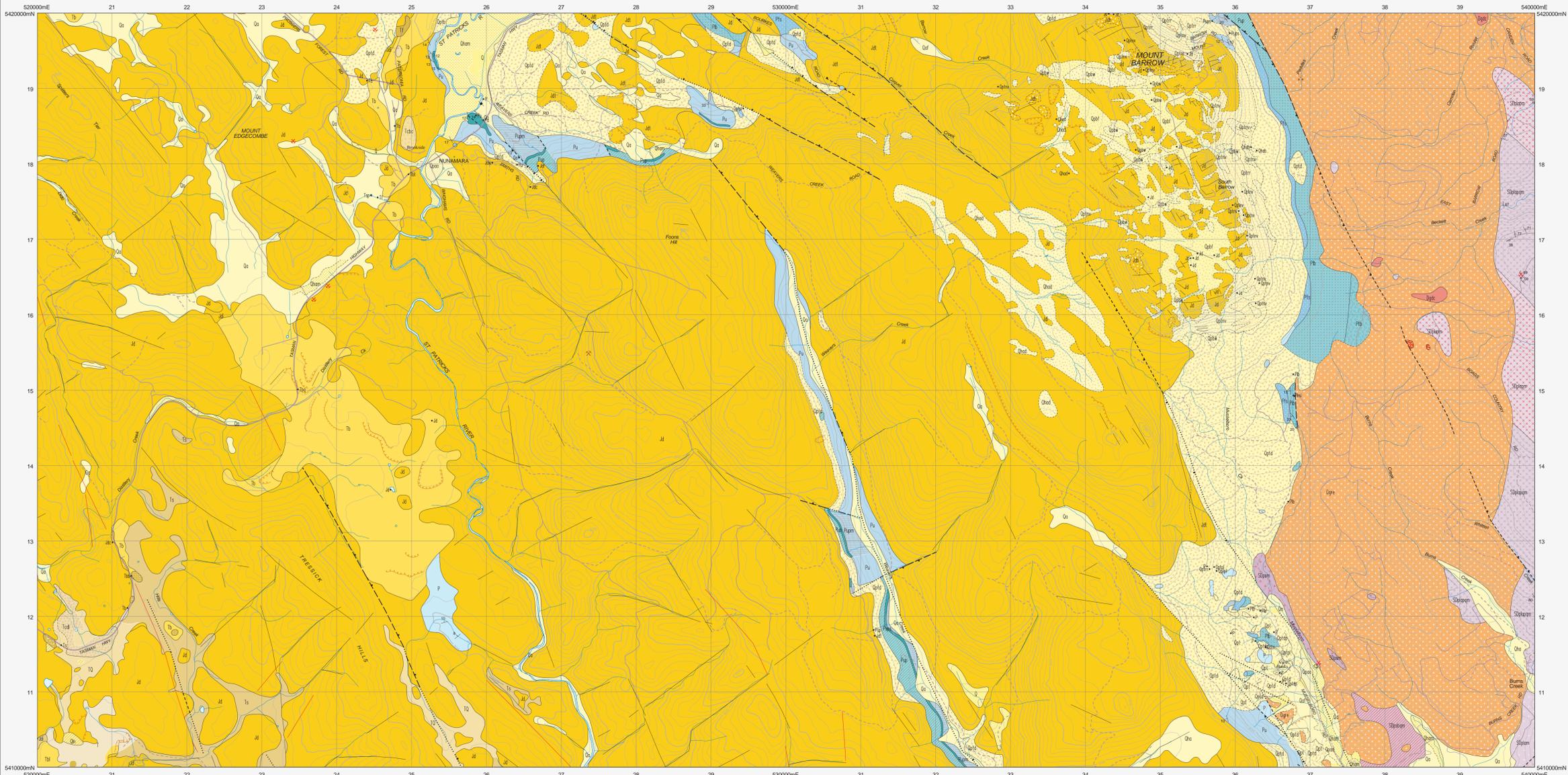


NUNAMARA

Scale: 1:25 000



PERMIAN	DEVONIAN	PALEOGENE-NEOGENE	QUATERNARY
<p>Un differentiated glacio-marine mudstone, siltstone and poorly-sorted sandstone, Pleistocene marine fossils (Pu).</p> <p>Pebbly sandstone (possible correlate of Palmer Sandstone) (Psp).</p> <p>Pebbly feldspathic sandstone unit (possible correlate of Garcia Sandstone) (Psp).</p> <p>Predominantly grey and brown weathering mudstone with few small concretions, fossiliferous beds in places (Pm).</p> <p>Predominantly well-sorted quartz sandstone, usually cross-bedded and commonly with interbedded and intertruncated carbonaceous shale, minor thin-bedded conglomerate lenses and rare coal (correlate of Liffey Group and Aberfoyle Formation) (Pq).</p> <p>Dominantly mudstone and siltstone, upper interval with basal fossiliferous limestone and alternating mudstone, siltstone and conglomerate beds, lower interval predominantly of grey to black mudstone with some shales and subordinate sandstone and conglomerate beds, some fossils (Pb).</p> <p>Classic limestone indicated in places (Plm).</p> <p>Predominantly dolomite with striated and faceted clasts of pebble to cobble size, sorted conglomerate in some areas (Pb).</p> <p>Angular unconformity.</p> <p>Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Dominantly micaceous quartz-rich coarse-grained sandstone with minor interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Thin-bedded siltstone, with interbedded fine-grained quartz-rich granitic intrusion (S0pam).</p> <p>Dominantly thin-bedded siltstone with minor quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Siltstone, S0pam, S0pam - possible correlates of Liffey Group.</p>	<p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Dolerite fragmented by periglacial process (Jdb).</p> <p>Predominantly deeply-weathered dolerite (Jdw).</p> <p>Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jd), dolerite of granitic 0-0.7mm (Jd1), 0.7-15mm (Jd2), 15-3mm (Jd3), >3mm (Jd) indurated.</p> <p>Coarse-grained dolerite (Dgdc).</p> <p>Granodiorite porphyry (Dgpr).</p> <p>Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgpr), (Diodium granodiorite, l-type).</p>	<p>Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Older alluvium of river terraces (Qas).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ferriterite (Ft).</p> <p>Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Laterite derived from Jurassic dolerite (Tld).</p> <p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Sub basalt deposits (Tsp).</p> <p>Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>	<p>Qm Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Qn Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Qa Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Qad Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Qas Older alluvium of river terraces (Qas).</p> <p>Qb Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Qaw Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Qatr Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Qatv Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Qt Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>Jd In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ft Ferriterite (Ft).</p> <p>Tlb Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Tld Laterite derived from Jurassic dolerite (Tld).</p> <p>Tb Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Tsp Sub basalt deposits (Tsp).</p> <p>Tbc Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Tcd Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Ts Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>

PERMIAN	DEVONIAN	PALEOGENE-NEOGENE	QUATERNARY
<p>Un differentiated glacio-marine mudstone, siltstone and poorly-sorted sandstone, Pleistocene marine fossils (Pu).</p> <p>Pebbly sandstone (possible correlate of Palmer Sandstone) (Psp).</p> <p>Pebbly feldspathic sandstone unit (possible correlate of Garcia Sandstone) (Psp).</p> <p>Predominantly grey and brown weathering mudstone with few small concretions, fossiliferous beds in places (Pm).</p> <p>Predominantly well-sorted quartz sandstone, usually cross-bedded and commonly with interbedded and intertruncated carbonaceous shale, minor thin-bedded conglomerate lenses and rare coal (correlate of Liffey Group and Aberfoyle Formation) (Pq).</p> <p>Dominantly mudstone and siltstone, upper interval with basal fossiliferous limestone and alternating mudstone, siltstone and conglomerate beds, lower interval predominantly of grey to black mudstone with some shales and subordinate sandstone and conglomerate beds, some fossils (Pb).</p> <p>Classic limestone indicated in places (Plm).</p> <p>Predominantly dolomite with striated and faceted clasts of pebble to cobble size, sorted conglomerate in some areas (Pb).</p> <p>Angular unconformity.</p> <p>Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Dominantly micaceous quartz-rich coarse-grained sandstone with minor interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Thin-bedded siltstone, with interbedded fine-grained quartz-rich granitic intrusion (S0pam).</p> <p>Dominantly thin-bedded siltstone with minor quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Siltstone, S0pam, S0pam - possible correlates of Liffey Group.</p>	<p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Dolerite fragmented by periglacial process (Jdb).</p> <p>Predominantly deeply-weathered dolerite (Jdw).</p> <p>Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jd), dolerite of granitic 0-0.7mm (Jd1), 0.7-15mm (Jd2), 15-3mm (Jd3), >3mm (Jd) indurated.</p> <p>Coarse-grained dolerite (Dgdc).</p> <p>Granodiorite porphyry (Dgpr).</p> <p>Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgpr), (Diodium granodiorite, l-type).</p>	<p>Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Older alluvium of river terraces (Qas).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ferriterite (Ft).</p> <p>Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Laterite derived from Jurassic dolerite (Tld).</p> <p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Sub basalt deposits (Tsp).</p> <p>Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>	<p>Qm Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Qn Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Qa Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Qad Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Qas Older alluvium of river terraces (Qas).</p> <p>Qb Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Qaw Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Qatr Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Qatv Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Qt Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>Jd In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ft Ferriterite (Ft).</p> <p>Tlb Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Tld Laterite derived from Jurassic dolerite (Tld).</p> <p>Tb Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Tsp Sub basalt deposits (Tsp).</p> <p>Tbc Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Tcd Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Ts Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>

PERMIAN	DEVONIAN	PALEOGENE-NEOGENE	QUATERNARY
<p>Un differentiated glacio-marine mudstone, siltstone and poorly-sorted sandstone, Pleistocene marine fossils (Pu).</p> <p>Pebbly sandstone (possible correlate of Palmer Sandstone) (Psp).</p> <p>Pebbly feldspathic sandstone unit (possible correlate of Garcia Sandstone) (Psp).</p> <p>Predominantly grey and brown weathering mudstone with few small concretions, fossiliferous beds in places (Pm).</p> <p>Predominantly well-sorted quartz sandstone, usually cross-bedded and commonly with interbedded and intertruncated carbonaceous shale, minor thin-bedded conglomerate lenses and rare coal (correlate of Liffey Group and Aberfoyle Formation) (Pq).</p> <p>Dominantly mudstone and siltstone, upper interval with basal fossiliferous limestone and alternating mudstone, siltstone and conglomerate beds, lower interval predominantly of grey to black mudstone with some shales and subordinate sandstone and conglomerate beds, some fossils (Pb).</p> <p>Classic limestone indicated in places (Plm).</p> <p>Predominantly dolomite with striated and faceted clasts of pebble to cobble size, sorted conglomerate in some areas (Pb).</p> <p>Angular unconformity.</p> <p>Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Dominantly micaceous quartz-rich coarse-grained sandstone with minor interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Thin-bedded siltstone, with interbedded fine-grained quartz-rich granitic intrusion (S0pam).</p> <p>Dominantly thin-bedded siltstone with minor quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Siltstone, S0pam, S0pam - possible correlates of Liffey Group.</p>	<p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Dolerite fragmented by periglacial process (Jdb).</p> <p>Predominantly deeply-weathered dolerite (Jdw).</p> <p>Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jd), dolerite of granitic 0-0.7mm (Jd1), 0.7-15mm (Jd2), 15-3mm (Jd3), >3mm (Jd) indurated.</p> <p>Coarse-grained dolerite (Dgdc).</p> <p>Granodiorite porphyry (Dgpr).</p> <p>Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgpr), (Diodium granodiorite, l-type).</p>	<p>Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Older alluvium of river terraces (Qas).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ferriterite (Ft).</p> <p>Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Laterite derived from Jurassic dolerite (Tld).</p> <p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Sub basalt deposits (Tsp).</p> <p>Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>	<p>Qm Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Qn Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Qa Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Qad Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Qas Older alluvium of river terraces (Qas).</p> <p>Qb Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Qaw Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Qatr Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Qatv Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Qt Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>Jd In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ft Ferriterite (Ft).</p> <p>Tlb Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Tld Laterite derived from Jurassic dolerite (Tld).</p> <p>Tb Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Tsp Sub basalt deposits (Tsp).</p> <p>Tbc Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Tcd Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Ts Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>

PERMIAN	DEVONIAN	PALEOGENE-NEOGENE	QUATERNARY
<p>Un differentiated glacio-marine mudstone, siltstone and poorly-sorted sandstone, Pleistocene marine fossils (Pu).</p> <p>Pebbly sandstone (possible correlate of Palmer Sandstone) (Psp).</p> <p>Pebbly feldspathic sandstone unit (possible correlate of Garcia Sandstone) (Psp).</p> <p>Predominantly grey and brown weathering mudstone with few small concretions, fossiliferous beds in places (Pm).</p> <p>Predominantly well-sorted quartz sandstone, usually cross-bedded and commonly with interbedded and intertruncated carbonaceous shale, minor thin-bedded conglomerate lenses and rare coal (correlate of Liffey Group and Aberfoyle Formation) (Pq).</p> <p>Dominantly mudstone and siltstone, upper interval with basal fossiliferous limestone and alternating mudstone, siltstone and conglomerate beds, lower interval predominantly of grey to black mudstone with some shales and subordinate sandstone and conglomerate beds, some fossils (Pb).</p> <p>Classic limestone indicated in places (Plm).</p> <p>Predominantly dolomite with striated and faceted clasts of pebble to cobble size, sorted conglomerate in some areas (Pb).</p> <p>Angular unconformity.</p> <p>Dominantly fine-grained turbiditic quartz-rich sandstone, with some interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Dominantly micaceous quartz-rich coarse-grained sandstone with minor interbedded siltstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Thin-bedded siltstone, with interbedded fine-grained quartz-rich granitic intrusion (S0pam).</p> <p>Dominantly thin-bedded siltstone with minor quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Interbedded thin-bedded siltstone and fine-grained quartz-rich sandstone, contact metamorphosed by granitic intrusion (S0pam).</p> <p>Siltstone, S0pam, S0pam - possible correlates of Liffey Group.</p>	<p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Dolerite fragmented by periglacial process (Jdb).</p> <p>Predominantly deeply-weathered dolerite (Jdw).</p> <p>Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jd), dolerite of granitic 0-0.7mm (Jd1), 0.7-15mm (Jd2), 15-3mm (Jd3), >3mm (Jd) indurated.</p> <p>Coarse-grained dolerite (Dgdc).</p> <p>Granodiorite porphyry (Dgpr).</p> <p>Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgpr), (Diodium granodiorite, l-type).</p>	<p>Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Older alluvium of river terraces (Qas).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ferriterite (Ft).</p> <p>Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Laterite derived from Jurassic dolerite (Tld).</p> <p>Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Sub basalt deposits (Tsp).</p> <p>Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>	<p>Qm Marsh and swamp deposits (Qm), highland marsh with peaty clay overlying unsorted dolerite boulders (Qm).</p> <p>Qn Lag deposits of ferruginous pisoliths and terricrite fragments (Qn).</p> <p>Qa Alluvial gravel sand and clay, generally peaty clay with small weathered dolerite blocks and granules and magnetic pisoliths in dolerite areas and clay with abundant quartzite pebbles elsewhere, with in addition basalt pebbles along the St Patricks River and its tributaries (Qa), alluvial fans (Qaf), colluvium, undifferentiated alluvium, swamp and marsh deposits (Qm), alluvial and marsh deposits of modern flood plains - gravel, sand, silt and clay (Qm).</p> <p>Qad Alluvial terrace deposits of cobbles and boulders of dolerite (Qad).</p> <p>Qas Older alluvium of river terraces (Qas).</p> <p>Qb Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric and interstitial fines, vegetated (Qb).</p> <p>Qaw Periglacial, predominantly block stream and block glacial deposits of moderately sorted dolerite boulders and with flow fabric, lacks shallow interstitial fines, non-vegetated (Qaw).</p> <p>Qatr Scree deposits of angular unsorted dolerite boulders and rock masses to 30m size (Qatr).</p> <p>Qatv Cliff-fall scree deposits of Qatr type without surficial fines and non-vegetated, includes some autochthonous block field deposits (Qatv).</p> <p>Qt Talus and remobilized talus deposits (Qt), basalt talus (Qbt), silty talus breccia derived from Lower Permian rocks (Qdp), sandstone talus derived from Liffey Group (Qdl), talus dominantly of Lower Permian rocks and dolerite (Qds), and talus dominantly of large dolerite boulders and in places subordinate Permian rocks (Qdt).</p> <p>Jd In situ Jurassic dolerite or deposits of transported dolerite masses of uncertain Cenozoic age (Jd).</p> <p>Ft Ferriterite (Ft).</p> <p>Tlb Laterite derived from Paleogene-Neogene basalt (Tlb).</p> <p>Tld Laterite derived from Jurassic dolerite (Tld).</p> <p>Tb Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).</p> <p>Tsp Sub basalt deposits (Tsp).</p> <p>Tbc Dolerite boulders in clayey-gravel matrix with some quartz pebbles (Tbc).</p> <p>Tcd Moderately-consolidated dolerite conglomerate dominantly of cobble grade, with subordinate pebble or boulder grade clasts, some sandstone and rare siltstone (Tcd).</p> <p>Ts Sandstone and clay, may include residual clay and Quaternary deposits (Ts).</p>

IGNEOUS ROCKS

Tb Basalt (Tb), quartz tholeiite (Tba), olivine tholeiite (Tbt), basaltite (Tba) and limburgite (Tb).

Jdb Dolerite fragmented by periglacial process (Jdb).

Jdw Predominantly deeply-weathered dolerite (Jdw).

Jd Dolerite (Jd), dolerite inferred beneath soil or Cenozoic deposits (Jd), dolerite of granitic 0-0.7mm (Jd1), 0.7-15mm (Jd2), 15-3mm (Jd3), >3mm (Jd) indurated.

SCOTTSDALE BATHOLITH

Dgdc Coarse-grained dolerite (Dgdc).

Dgpr Granodiorite porphyry (Dgpr).

Dgpr Medium- to coarse-grained, equigranular, biotite-hornblende granodiorite (Dgpr), (Diodium granodiorite, l-type).

Geological boundary - position accurate or approximate.

Geological boundary - position inferred.

Disconformable boundary - position accurate or approximate.

Fault - position accurate or approximate.

Fault - inferred.

Fault - concealed.

Normal fault (downtown side indicated) - position accurate or approx.

Normal fault (downtown side indicated) - inferred.

Normal fault (downtown side indicated) - concealed.

Slope break.

Scarp.

Lineament visible on aerial photographs.

Lineament visible in airborne magnetic data.

(white line) Limit of mapping of sub-unit within undifferentiated rock unit.

Strike and dip of bedding - right way up; facing unknown.

Strike and dip of cleavage of unspecified type and relative age.

Strike of dominant joint set - vertical.

Notable small outcrop with rock unit indicated.

Field station for adjacent readings on map.

Mineral deposit location - hardrock.

Mineral deposit location - alluvial/talings.

Construction material/industrial mineral/gemstone location.

Other sources:

LONGMAN, M.J. 1966. Geological Atlas 1:63 900 series. Zone 7 sheet 39 (B3155). Launceston. Exploratory Report Geological Survey Tasmania.

M.J. Longman and W.L. Matthews. Original field data plotted on aerial photographs.

J.L. Everest. Geomorphological classification.

Updated by:

L. D.C. Green. 2011. 1:25 000 scale geological mapping and interpretation of airborne geophysical data as part of the TasLepide Project.

RESPONSIBILITY DIAGRAM

LOCATION DIAGRAM

INDEX TO ADJOINING SHEETS

NUNAMARA 5241

1:25000 maps available.

REFERENCE THIS MAP AS:
LONGMAN, M.J., MATTHEWS, W.L., ROWE, S.M., FORSYTH, S.M. (compiler),
MCCLENSHAN, M.P. and SEYMOUR, D.E. (compiler) 2011. Digital Geological
Atlas 1:25 000 Scale Series. Sheet 5241. Nunamara. Mineral Resources Tasmania.

Base data from the LIST, Copyright State of Tasmania.
Map produced by the Geoscience Information Branch of
Mineral Resources Tasmania using G.I.S. software.
GDAS - MGA Zone 55. Contour Interval: 20 metres.



While every care has been taken in the preparation of this data, no warranty is given
as to the correctness of the information and no liability is accepted for any statement
or opinion or for any error or omission. No reader should act or fail to act on the
basis of any material contained herein. Readers should consult professional advisers.
As a result the Crown in Right of the State of Tasmania and its employees, contractors
and agents expressly disclaim all and any liability (including all liability from or
attributable to any negligent or wrongful act or omission) to any persons whatsoever in
respect of anything done or omitted to be done by any such person in reliance whether
in whole or in part upon any of the material in this data.
Crown copyright reserved.

Compiled by S.M. Forsyth, B.Sc. and D.B. Seymour, B.Sc.(Hons), Ph.D., 2007 from the following
sources (see responsibility diagram):

**A. LONGMAN, M.J., MATTHEWS, W.L. & ROWE, S.M. 1964. Geological Atlas 1:63 900
series, sheet 39 (B3155). Launceston. (Primary original 1:36 800 compilation sheet).**

B. CAINE, T.N. 1983. The Mountains of Northeastern Tasmania. Balkema,