

MEMBER IRRIGATION SCHEME: RESULTS OF SOIL AUGER DRILLING

LOCATION	HOLE NO	NMP REF	DATE	SYN	GRADE	USE	MATERIAL	GEOLOGY	LL	LS	PERMEABILITY	REMARKS
Beginning of line past Meander River Siphon	12A	467952885	1/4/87	Pg	gr	CH	Clay brn high pln	Dolerite talus				
Meander right bank	13A	467952886	1/4/87	Pw	+3a	CL/ML	Clayey silt lt brn asper refused at 1.2a on talus boulder	Dolerite talus over Pora	35	4	1.6x10-7	dolerite talus overlying Permian
West side of rape field	17	467952898	31/5/87	Pg	+5a	ML/CL	Clayey silt lt brn	Permian			4x10-7	Saturated
South side of E. Meander Rd	18	467952892	31/5/87	Pg	+5a	ML	Silt (rock floor) gray Clay or brn Mudstone grey	Permian			1.3x10-8	Saturated Emerson class 4
North side E. Meander Rd	18A/1	467952893	31/5/87	Pg	+5a	ML/CL	Clayey silt or brn grading to dark soil with depth	Permian			(4.5x10-7	Saturated
Just below shearing hut - Balco	19	467952894	31/5/87	Pg	+5a	ML/CL	Clayey silt, lt brn mudstone frags and occ of rt 5-8m	Permian acc drpstones			4x10-7	Saturated Emerson class 4
Northern boundary Balco prop	22	467952901	31/5/87	Pg	+5a	ML/CL	Clayey silt or brn some ang frag and fine gravel	Permian			1.2x10-8	Saturated. Increased moisture and clay with depth Emerson class 4
Above gravel quarry on spur in woods	23	467952902	31/5/88	Pg	+5a	CL/ML	Silty clay yellow/bn trace sand patches mudst low-mud plain	Dolerite talus Pora mudst	43	18.5	1.6x10-7	Saturated. Hole dry
Above spur facing Nuttings Rd	24	470052893	31/5/87	Pg	+5a	CH	Clay lt brn clay lt brn to sand and silt	Dolerite talus	75	17	3x10-7	Saturated. Holding at 14/4/87
Along fence line above Nuttings Rd	25	470252893	1/4/87	Pg	+5a	GC	Gravelly clay, Mn to EN some fine sand/silt, high plns Clay lt brn	Dolerite talus over Permian	48	8.8	1.8x10-7	Saturated CEMEX loose fill Emerson class 3
Above gravel pit access off Nuttings Rd	26	470452896	2/4/87	Pg	+5a	CH	Clay lt brn high plns Mudst HW sandst, some silt and sand	Permian			1.5x10-8	Saturated. Holding 14/4/87
Fara access south of Nuttings Rd	38	471352899	1/4/87	Pg	+5a	CH	Clay lt brn high plns	Permian mudst	95	22	1.5x10-7	Saturated. Holding 14/4/87
On roadside near new house	32	471452928	2/4/87	Pg	+5a	CL	Gravelly clay low plns lt brn some mudst HW sand silt	Dolerite talus Permian mudst			1.7x10-7	Saturated
South of new house (150 m)	33	471529760	1/4/87	Pg	+5a	ML/CL	Silty clay lt brn rock frags Clay, mott or grey/bn, silt	Dolerite talus Permian mudst	180	22		Emerson class 3
End Nuttings Rd	34	471852896	1/4/87	Stk	+5a	ML CH	Silt, lt brn, some sand Clay, lt brn, or grey mudst, some sand, silt high plns	Permian mudst	41	11	1x10-8	Saturated. Holding at 14/4/87

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Forestry track off Nuttings Rd	35	472252885	1/4/87	Stk	+3-10m	ML	Sandy siltstone, lt brn	Dolerite talus over Permian			2x10-7	Saturated
Forestry Rd	37A	472252908	1/4/87	Stk	+6-8m	CH	Silty clay, lt brn, some silt, sand, some mudst clay, cobble boulders	Dolerite talus Permian mudst	12	7		Holding 15/4/87, some rain
Forestry rd off Nuttings Rd	38	472252909	1/4/87	Stk	+5a	SP	Sand, or clay lat, 081 clay mudstone frags	Dolerite talus Permian mudst				
North along Forestry Track off Nuttings Rd	41	472252912	1/4/87	Stk	+5a	SP	Clayey sand, lt brn/or, some sand frags	Dolerite talus Permian mudst			4x10-7	1st saturation
Malley Prop clearing	44	472529208	1/4/87	Pg	+5a	ML	Silt, yellow brn, some clay	Dolerite talus	4.8x10-7			Saturated, Emerson class 4
Malley Property House	46	472529208	2/4/87	Pg	+5a	GC	Gravelly clay, grey, low plasticity some fine sand/silt, ang frags	Dolerite talus	50	6	2x10-7	Emerson class 8
East end Native Hog Hill	49	473852924	18/6/87	To	+5a	CH	Clay, or brn, high plns 18% gravel	Open congl			1.7x10-8	CEMEX class 8 Emerson class 8
Native Hog Hill	51	473852948	18/6/87	Stk	+5a	SM	Sandy silt, lt brn, ang frag 7%	Open congl			4x10-7	1st saturation, hole dry Saturated, holding 17/4/87 Emerson class 8
Native Hog Hill	52	473329741	2/4/87	Stk	gr	SM	Gravelly sand, some clay ang frags 12%	Open congl	20	5		Emerson class 5
Top and Taylors Property	56	470529764	1/4/87	Csa	+3-2a	ML/CH	Silty clay, lt brn, some ang gravel, sand, ex weathered phyllite	Cambrian slates			4.5x10-8	Saturated
Taylors, Billa from 56	57	471329764	1/4/87	Csa	+1-2a	ML/CH	Silty clay, lt brn, sand silt ML/CH Silty clay or brn, ang frags, phyllite	Cambrian slates	20	18	High permeabil	Emerson class 4
Near Taylors Cut	58	471329770	1/4/87	Csa	gr	ML/CL	Silty clay, pink/bn, ang frags phyll some sand	Cambrian slates			5.5x10-8	Saturated, topped up
Spur to Taylors Cut	68	471829777	1/4/87	Csa	+5a	CL	Silty clay, pink brn, ang slate frags	Cambrian slates			2x10-7	Saturated, resaturated twice
North west of Taylors Cut	61	471329774	1/4/87	Csa	+5a	CL	Silty clay or brn graded gravel to 10m, some sand and silt CL Silty clay red/bn graded gravel to 25m Clay red/bn high plns. weath.slate	Cambrian slates				1st saturation
ully west of Taylors Cut	62	471329771	1/4/87	Csa	+2a	CH	Clay or grey mottl. silt, h-mud plns	Cambrian slates			1x10-8	1st saturation Emerson class 3
Forestry rd 4th west of Taylors Cut	63	471329778	1/4/87	Csa	+5a	CL	Silty clay red/bn/bn, gravel of weathered slates and mudst to 20 m, some silt	Cambrian slates ex weathered			1.7x10-7	Resaturated, Emerson class 4

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Forestry rd west of Taylors Cut	65	470452967	1/4/87	Csa	+10a	CL/ML	Silty clay or brn high plns some sand Sandy silt red/bn, some fine sand	Cambrian slates	21	2	2.7x10-7	Resaturated Emerson class 8
Cobble Superloaf	70	470529753	11/4/87	pH	gr	ML	Clayey silt red/bn Clayey silt grey/bn Clayey silt lt brn, low plns.Sand some fine sand/silt, ang frags to 5m	pva Cambrian			Highly imperv	1st saturation
Base Highway 'Pleasant View'	80	468254852	15/4/87	To	+5a	CH	Clay red/bn high plns. some silt	Basalt			1.5x10-7	Resaturated
Pleasant View' Base Hwy Deloraine	83	468054861	15/4/87	To	+5a	CH	Clay red/bn some fine silt	Basalt			2x10-7	Resaturated
Pleasant View' West boundary	84	467854866	15/4/87	To	+5a	ML GC	Silty silt, brn, some clay fines of low plns.	Basalt			3.5x10-7	Resaturated
2 km along Hole Creek Rd	85	467454865	15/4/87	To	+5a	ML	Silty sand sandy silt pink/bn Sandy clay wh/bn, and high plns.	Basalt	34	8	3.7x10-7	Resaturated, Emerson class 8
Green Hills Hole Creek Rd	86	466254865	15/4/87	To	+5a	ML/CL	Silty clay red/bn	Basalt			(7.5x10-7	
Fern Ridge off Bempso Rd	88	463954841	7/4/87	To	+4a	CH	Clay red/bn, some silt high plns. Clay red/bn some grey mottl. high plns.	Basalt			1.5x10-7	1st saturation Emerson class 9
Fern Ridge off Bempso Rd	89	463454842	7/4/87	To	+5a	CH	Clay or red some fine silt, red/bn silt	Basalt			2.5x10-7	1st saturation
Mc Plessant Cut Deloraine	91	466454857	16/4/87	To	gr	CH	Silty clay or brn, gravel frags CL Silty clay or brn some silt and fine clay or brn high plns	Basalt	60	13		Resaturated, Emerson class 4
Mc Plessant boundary	92	465954859	16/4/87	To	+5a	ML	Silty clay or brn, gravel frags CL Silty clay or brn some silt and fine clay or brn high plns	Basalt	92	22.4	3.7x10-7	Resaturated, Emerson class 4
Fern Ridge (north)	93	468854859	20/4/87	To	+1a	CL	Clay red/bn some silt and fine clay or brn some silt high plns	Basalt	129	26	2.7x10-7	Resaturated, Emerson class 6
South side of siphon across Bock Hwy Deloraine	94	467454859	20/4/87	To	+5a	CL	Clay red/bn and plns some silt CL Clay red/bn some fine gravel, and plns	Basalt			6x10-7	1st saturation
Bempso Rd Rail Crossing Deloraine	95	465454841	20/4/87	To	+5a	CL	Clay or brn and plns some fine silt, fine gravel	Basalt				
New house Cos's Rd Lenana	96	464954843	20/4/87	To	gr	CH	Silty clay or brn and high plns some fine silt asper refused at 1.0a	Basalt	70	8.5	4.6x10-8	1st saturation
Corner Lenana and Bempso Rds	97	462554834	20/4/87	To	+3a	ML/CL	Silty clay red/bn low-mud plain Silty clay/clayey silt	Basalt				
End Cos's Rd Lenana	99	463454840	20/4/87	To	+5a	ML	Clayey silt low plns, red/bn CH Clay or brn some fine silt and gravel	Basalt	84	15		Emerson class 3

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Near Large dam end of Cos's Rd Lenana	100	462954844	20/4/87	To	+5a	ML	Clayey silt yellow/bn and plns trace fine gravel	Basalt	100	21	2.7x10-7	Resaturated, Emerson class 4
End Cos's Rd Durorian South	101	462054850	20/4/87	To	+5a	ML	Silty clay lt brn and plns, some fine gravel, sand	Basalt	57	14	1.5x10-7	Resaturated, Emerson class 3
Basalt Quarry Durorian South	103	461254850	20/4/87	To	+5a	ML	Clayey silt red brn asper refused at 8.5a	Basalt				
Cur south boundary Durorian	104	461054853	20/4/87	To	+5a	ML	Clayey silt lt brn low-mud plain Basalt boulder at 8.5a Silty clay red/bn high plns	Basalt	110	27		Emerson class 4
Cur north boundary Durorian	105	460454853	20/4/87	To	+5a	ML	Clayey silt red/bn and plns Clayey silt silty clay	Basalt			1.8x10-7	Resaturated
Before Siphon Durorian	106	460754867	20/4/87	To	+5a	CH	Silty clay lt brn high plns fine gravel Csa	Basalt			7x10-8	1st saturation
Durorian Railway Station	107	461254875	20/4/87	To	gr	CH	Clay lt brn some fine sand, gravel				7.3x10-7	Resaturated, Emerson class 2
Durorian Rd Durorian	108	461054850	20/4/87	To	+5a	CH	Clay brn high plns some fine sand, fine to med gravel	Basalt	53	18	2.5x10-8	Resaturated Emerson class 2
Griffin property, Durorian	110	464054871	20/4/87	To	+5a	CH	Silty clay or brn high plns silty clay red/bn high plns some fine sand fine gravel	Basalt			6.3x10-8	Resaturated
Griffin property, Durorian, Siphon and	111	461554878	20/4/87	To	+1a	CH	Clay lt brn high plns some fine silt, fine gravel	Basalt	53	15	2x10-7	Resaturated, Emerson class 2
Back Hwy before Christmas Hills Rd	113	467854861	19/5/87	To	+5a	CH	Silty clay red/bn, some silt, gravel high plns Clay brn, grey/or mottl, silt, gravel high plns	Basalt			2.7x10-6	Resaturated
Back Hwy before Christmas Hills Rd	114	467554866	19/5/87	To	+5a	HL	Silty clay or brn some fine sand and plns Clay or brn, high plns some fine to med gravel, silt	Basalt			Highly impermeable	
Back Hwy before Christmas Hill Rd	115	474054870	19/5/87	To	+5a	CH	Clay red/bn high plns some silt Clay lt brn gravelly sand and silt high plns	Basalt			4.7x10-7	Resaturated
End of line or Christmas Hills Rd	116	460854872	19/6/87	To	+5a	CH	Clay red/bn, high plns some fine silt, some gravel, silt CH Clay or brn high plns to weathered lithic frags, some gravel, sand	Basalt			7.9x10-7	Resaturated

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Off Paulton Rd, Maltawa	118	461254870	16/6/87	To	+5a	CH	Clay red/bn and plns NE Silty clay lt brn low plns some gravel CL Silty clay red/bn high plns	Basalt	37	7.2	4x10-7	Resaturated, Emerson class 3
Wooded area above dam Elizabeth Town	120	462254873	13/5/87	To	+5a	HL	Silty clay red/bn high plns Clay red/bn high plns some gravel, silt Clay or grey mottl high plns	Basalt	125	26	1.3x10-8	Resaturated, Emerson class 2
West of Bass Hwy Elizabeth Town	122	46234118	13/5/87	To	+5a	CH	Clay brn/gn high plns some gravel silt ML/CL Clayey silt lt brn, high mud plns some gravel, sand	Basalt	41	10	2.6x10-7	Resaturated, Emerson class 3
South boundary "Edgington" Elizabeth Town	125	46254120	13/5/87	To	+5a	CH	Clay high plns, silt, clay w depth, some fine silt CL Silty clay lt brn and plns some fine gravel, sand	Basalt	50	10	1.5x10-7	Resaturated, Emerson class 4
He "Edgington" Elizabeth Town	126	462054133	14/5/87	To	+5a	HL	Clay brn/wh, ex-high plns, some fine gravel, sand CH Clay brn high plns, some fine sand, gravel	Basalt			9.4x10-7	Redrilled, resaturated, Emerson class 4
Off Bennetts Rd Elizabeth Town	126	462054140	14/5/87	To	+5a	CH	Clay brn high plns some silt, gravel GC/CH Clay red/bn high plns some well graded gravel	Basalt	53	14	6.6x10-8	Resaturated, Emerson class 2
Below Bennetts Hill Bass Hwy	128	462954145	14/5/87	To	+5a	ML/CL	Silty clay red/bn, and plns CL Clay red/bn some fine gravel CL Clay red/bn high plns, some fine silt, gravel	Basalt	115	18	2.5x10-8	Resaturated, Emerson class 4
Robison line and 080a	129	461554120	14/5/87	To	+5a	ML/CL	Silt, sandy clay low mud and plns Clay brn high plns, some silt, sand	Basalt	80	17	1.2x10-7	Resaturated, Emerson class 4
Red Hills Deloraine - silage	131	463254820	9/6/87	To	gr	CH	Clay brn high plns some silt, silt Clay brn high plns	Basalt	90	21	2x10-7	Resaturated, raining, Emerson class 4
Red Hills Deloraine	133	464754825	9/6/87	To	+5a	CH	Clay brn high plns ex weathered frags, silt	Basalt			5.5x10-8	Raining Dry hole resaturated
End line Cassidy's Rd	136	464054819	18/6/87	Cop	+5a	CH	Clay yellow/bn high plns, some silt gravel	Cambrian phyllite			1.5x10-7	Resaturated
Deloraine Golf Course	138	474548000	11/6/87	To	gr	CH	Clay yellow/bn highplns, some fine gravel Clay grey high plns	Basalt				
End line Oxenston Rd Deloraine	139	473454810	11/6/87	To	+1a	CH	Clay red/bn high plns, some fine gravel Clay or brn high plns	Basalt	135	26	3.5x10-7	Dry hole resaturated Emerson class 4

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Off Paulton Rd, Maltawa	118	461254870	16/6/87	To	+5a	CH	Clay red/bn and plns NE Silty clay lt brn low plns some gravel CL Silty clay red/bn high plns	Basalt	37	7.2	4x10-7	Resaturated, Emerson class 3
Daries Rd	142	472252968	16/6/87	Cop	+10a	GC	Gravelly clay or brn low plns some sand, silt	Cambrian ex weath slates	56	19	2.6x10-8	Resaturated, Emerson class 7
Gala "Elen Ross"	144	475452979	16/6/87	Cop	+1a	CL	Silty clay or brn and plns some fine gravel Gravelly clay grey/bn, 18% gravel, asper refused 1.3a	Cambrian mudst				
Siphon south side "Elen Ross"	145	47252975	16/6/87	Csa	gr	GC	Clayey gravel to 10m, highly weathered lithic frags, cobbles asper refused at 1a	Cambrian greywacke, cong clasts				
End Daries Rd	146	472252979	17/6/87	Csa	+5a	GC	Clayey gravel 20%, low plns fine silt, sand CL Gravelly clay lt brn or brn gravel frags to 10m, some sand	Cambrian Greywacke, cong, clasts	40	19	3.6x10-8	Resaturated, Emerson class 7
Dressell property Oxenston Rd	148A	468452970	17/6/87	To	gr	CH	Clay red/bn some fine silt Clay or brn high plns, some fine lithic frags 8% basalt	Basalt				
Oxenston Rd (Turkeys Nest)	149	470552975	17/6/87	To	gr	CH	Clay red/bn high plns, some fine silt Clay brn high, some fine gravel fine silt	Basalt			2.8x10-7	1st saturation
Siphon Bempso Rd	153	474952963	17/6/87	Stk	+5a	CH	Clay brn high plns, trace fine gravel CL Clay yellow/bn some fine sand, and plns fines, lithic frags	Dolerite	66	14		Emerson class 7
Bogan Rd House	153A	472252965	17/6/87	Stk	+10a	CH	Clay brn high plns trace gravel Clay yellow/bn, ex weath lithic frags	Dolerite				
Oxenston Rd Oxenston	154	470252991	17/6/87	To	+1a	SP	Sand, brn some clay fines CL Sand or brn clay lat sand	Triassic sandstone and shale	32	5	1.7x10-7	1st saturation Emerson class 7
Bend on Oxenston Rd	155	470252907	18/6/87	To	+5a	SM	Grey sand loam Sand or brn clay lat sand	Triassic sandstone and shale			3x10-8	1