Appendix 1 – Data distribution tables

Location

Area

Physiographic Unit	Area (ha)	Total Area (%)
Alpine	684,313	22%
Bedrock/Hill Country	1,516,337	49%
Central Plains	18,151	<1%
Gleyed	308,273	10%
Lignite/Marine Terraces	100,713	3%
Old Mataura	14,969	<1%
Oxidising	277,185	9%
Peat Wetlands	61,867	2%
Riverine	122,932	4%
Total	**3,104,741**	**100%**

Variant	Area (ha)	Area (%)	
		Physiographic Unit	Region
Bedrock/Hill Country$_{(a)}$	28,794	2%	<1%
Bedrock/Hill Country$_{(o)}$	1,303,767	86%	42%
Gleyed$_{(o)}$	96,852	31%	3%
Lignite/Marine Terraces$_{(a)}$	36,998	37%	1%
Lignite/Marine Terraces$_{(o)}$	58,729	58%	2%
Oxidising$_{(a)}$	48,235	17%	2%
Oxidising$_{(o)}$	93,619	34%	3%
Riverine$_{(o)}$	24,391	20%	<1%
Total	**1,691,384**		**54%**

Landscape characteristics

Elevation

Elevation (m RSL)	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
<100	-	10.2%	93.5%	52.2%	50.9%	0.2%	42.6%	67.9%	25.5%
100 – 200	-	15.9%	6.4%	23.9%	32.0%	89.2%	20.1%	6.8%	22.1%
200 – 500	-	44.1%	0.0%	17.4%	12.7%	10.6%	30.3%	22.9%	43.5%
500 – 1,000	38.2%	29.7%	-	6.4%	4.4%	-	6.9%	2.2%	8.8%
1,000 – 2,000	61.6%	-	-	-	-	-	-	-	-
>2,000	0.2%	-	-	-	-	-	-	-	-
No Data	-	0.1%	-	-	-	-	-	0.2%	0.1%

Elevation (m RSL)	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
<100	40.9%	6.8%	21.8%	72.7%	34.3%	80.3%	14.5%	4.6%
100 – 200	25.4%	14.0%	25.6%	25.9%	37.9%	11.6%	24.8%	11.6%
200 – 500	33.7%	45.2%	32.3%	1.4%	20.2%	8.1%	42.7%	58.5%
500 – 1,000	-	33.9%	20.2%	0.0%	7.6%	-	18.0%	25.3%
1,000 – 2,000	-	-	-	-	-	-	-	-
>2,000	-	-	-	-	-	-	-	-
No Data	-	-	0.1%	-	-	-	-	-

Slope

Slope	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Flat to gently undulating	1.4%	9.8%	99.8%	76.3%	48.1%	86.8%	74.9%	92.4%	65.5%
Undulating	2.1%	12.1%	0.2%	7.7%	21.6%	7.7%	12.5%	4.4%	13.5%
Rolling	7.5%	23.8%	<0.1%	6.2%	18.6%	4.8%	8.0%	1.8%	11.5%
Strongly rolling	7.8%	12.5%	-	3.0%	5.0%	0.6%	2.2%	0.7%	3.6%
Moderately steep	10.3%	10.3%	-	2.4%	2.9%	0.1%	1.2%	0.4%	2.3%
Steep	30.7%	16.2%	-	2.9%	2.8%	<0.1%	1.0%	0.3%	2.4%
Very steep	40.2%	15.2%	-	1.3%	0.9%	-	0.3%	<0.1%	1.1%
No data	-	0.1%	-	<0.1%	<0.1%	-	<0.1%	<0.1%	<0.1%

Slope	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Flat to gently undulating	56.6%	7.6%	35.9%	75.1%	28.8%	93.1%	46.4%	55.9%
Undulating	28.7%	10.9%	15.3%	16.9%	25.0%	6.0%	22.5%	16.6%
Rolling	13.2%	23.0%	17.9%	7.2%	26.9%	0.9%	18.6%	15.6%
Strongly rolling	1.3%	12.5%	9.5%	0.6%	8.1%	0.1%	5.7%	5.3%
Moderately steep	0.3%	10.7%	7.7%	0.1%	4.9%	<0.1%	3.3%	3.0%
Steep	<0.1%	17.9%	9.4%	<0.1%	4.8%	<0.1%	2.8%	2.7%
Very steep	<0.1%	17.5%	4.2%	<0.1%	1.5%	-	0.7%	0.9%
No data	<0.1%	<0.1%	0.1%	-	<0.1%	-	<0.1%	<0.1%

Geology

Geology	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Carbonate	0.3%	1.5%	-	-		-	-	<0.1%	<0.1%
Hard rock	85.4%	84.2%	-	1.0%	50.1%	-	0.4%	3.2%	11.5%
Lignite measures	1.9%	7.1%	-	-	<0.1%	-	-	0.3%	1.0%
Quaternary sediments	5.8%	4.8%	100.0%	97.5%	49.9%	100.0%	98.3%	95.7%	84.9%
Volcanics	4.5%	2.0%	-	-	<0.1%	-	-	-	0.2%
Unmapped	2.1%	0.4%	-	1.4%	<0.1%	-	1.3%	0.7%	2.4%

Geology	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Carbonate	2.6%	1.7%	-	-	-	-	-	<0.1%
Hard rock	54.2%	83.4%	0.6%	28.6%	65.2%	0.4%	0.7%	14.0%
Lignite measures	23.1%	7.6%	-	-	-	-	-	4.0%
Quaternary sediments	20.1%	4.6%	95.5%	71.4%	34.8%	99.2%	98.0%	80.5%
Volcanics	-	2.3%	-	-	-	-	-	0.8%
Unmapped	-	0.5%	3.9%	-	<0.1%	0.4%	1.3%	0.6%

Landform age

Landform Age	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Q1	2.5%	<0.1%	-	17.2%	0.2%	-	10.6%	9.2%	58.1%
Q2 - Q4	1.1%	3.1%	100.0%	48.1%	23.4%	5.2%	50.2%	81.0%	24.7%
Q4 - Q6	1.2%	1.4%	-	4.9%	9.7%	-	8.0%	2.3%	2.2%
Q7 - Q9	<0.1%	0.1%	-	23.7%	8.6%	94.8%	22.5%	3.1%	0.6%
>Q10	1.1%	0.7%	-	4.7%	1.5%	-	7.4%	0.3%	0.3%
Pre-Quaternary	92.0%	94.3%	-	-	56.6%	-	-	3.4%	11.6%
No data	2.1%	0.4%	-	1.4%	<0.1%	-	1.3%	0.7%	2.4%

Landform Age	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Q1	-	<0.1%	48.4%	-	<0.1%	1.2%	16.7%	50.8%
Q2 - Q4	9.2%	2.9%	16.3%	40.6%	9.3%	19.4%	37.2%	22.6%
Q4 - Q6	10.4%	1.2%	14.2%	9.4%	10.5%	0.7%	8.1%	5.5%
Q7 - Q9	0.3%	0.1%	8.4%	11.5%	7.4%	74.4%	22.2%	1.4%
>Q10	2.3%	0.8%	8.7%	0.1%	2.6%	4.0%	14.4%	0.9%
Pre-Quaternary	77.8%	94.5%	-	38.4%	70.2%	-	-	18.2%
No data	-	0.5%	3.9%	-	<0.1%	0.4%	1.3%	0.6%

Average annual rainfall

Average Rainfall (mm/year) 1960 – 2010	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Minimum	619	758	838	748	775	790	744	779	762
Average	**4,279**	**2,655**	**959**	**1,953**	**1,346**	**860**	**1,267**	**1,396**	**2,896**
Maximum	9,716	9,699	1,138	9,632	8,485	998	9,552	8,937	9,593
Standard Deviation	2,789	2,055	66	2,082	771	46	799	1,022	2,545

Average Rainfall (mm/year) 1960 – 2010	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Minimum	778	758	788	782	776	751	757	904
Average	**1,089**	**2,772**	**3,965**	**1,102**	**1,506**	**1,092**	**1,378**	**2,198**
Maximum	1,572	9,699	9,632	1,445	8,485	1,671	9,552	8,890
Standard Deviation	129	2,168	2,781	91	935	138	1,177	1,798

Surface zone characteristics

Dilution potential

Dilution Potential	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
High mixing potential	-	0.0%	-	6.5%	-	-	20.5%	0.1%	60.2%
High to moderate recharge flux	99.7%	94.6%	-	0.1%	31.1%	-	0.0%	0.0%	12.5%
Low recharge flux	-	4.3%	100%	93.0%	68.6%	100%	78.8%	99.4%	26.8%
No data	0.3%	1.1%	-	0.4%	0.4%	-	0.7%	0.4%	0.4%

Dilution Potential	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
High mixing potential	<0.1%	0.0%	19.7%	-	-	0.1%	39.9%	66.2%
High to moderate recharge flux	64.2%	95.5%	0.4%	4.3%	49.6%	-	<0.1%	19.8%
Low recharge flux	35.4%	3.7%	78.9%	95.4%	50.1%	99.7%	59.5%	13.9%
No data	0.3%	0.8%	0.9%	0.3%	0.2%	0.2%	0.5%	0.1%

Drainage density

Drainage Density	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Very low	✓								
Low		✓				✓			
Moderate					✓		✓		
High			✓	✓				✓	
Very high									✓

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Drainage Density	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Very low								
Low		✓			✓	✓		
Moderate	✓						✓	
High			✓	✓				
Very high								✓

Stream size

Stream Size	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Very small	✓								
Small		✓					✓		
Moderate					✓	✓		✓	
Large			✓	✓					
Very large									✓

Stream Size	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Very small					✓			
Small		✓				✓		
Moderate				✓				
Large	✓		✓				✓	
Very large								✓

Overland flow potential

Overland Flow	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Very low	0.6%	2.4%	-	12.5%	20.8%	77.1%	47.1%	28.7%	2.4%
Low	2.6%	1.5%	100.0 %	56.1%	20.8%	6.4%	11.3%	49.5%	77.8%
Moderate	15.7%	29.1%	-	5.8%	33.9%	1.0%	22.4%	2.8%	0.5%
Moderately high	18.5%	20.2%	-	11.5%	15.5%	13.9%	9.4%	11.8%	18.8%
High	17.7%	28.4%	-	11.4%	8.4%	1.6%	1.2%	0.9%	0.7%
Very high	45.2%	8.4%	-	2.8%	0.9%	-	0.8%	0.2%	-
No data	-	9.9%	-	-	-	-	7.8%	6.2%	-

Overland Flow	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Very low	56.7%	-	-	45.1%	-	88.9%	-	-
Low	43.3%	-	-	54.9%	-	10.7%	-	-
Moderate	-	33.9%	18.5%	-	58.1%	-	66.2%	2.6%
Moderately high	-	23.5%	36.5%	-	26.6%	-	27.8%	94.6%
High	-	33.1%	36.4%	-	14.5%	-	3.6%	3.4%
Very high	-	9.8%	8.9%	-	1.5%	-	2.4%	-
No data	-	-	-	-	-	0.3%	-	-

Soil zone characteristics

Soil order

NZSC Order	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Allophanic	-	0.2%	-	-	-	0.9%	<0.1%	-	-
Anthropic	-	<0.1%	-	-	0.7%	-	0.9%	-	-
Brown	29.5%	39.3%	-	17.5%	51.8%	78.8%	73.6%	4.5%	0.1%
Gley	-	1.6%	70.7%	34.2%	10.5%	-	-	6.8%	1.2%
Melanic	0.2%	2.6%	-	0.3%	1.3%	0.2%	2.9%	<0.1%	0.2%
Organic	0.2%	-	-	-	-	-	-	72.1%	-
Pallic	0.2%	4.8%	29.3%	24.7%	16.5%	15.9%	5.5%	1.6%	<0.1%
Podzol	50.2%	37.5%	-	22.9%	13.4%	-	0.1%	3.4%	0.4%
Raw	-	<0.1%	-	-	-	-	-	-	-
Recent	0.1%	0.4%	-	0.3%	0.7%	2.3%	5.5%	5.0%	94.5%
Ultic	-	<0.1%	-	-	0.3%	0.2%	1.5%	-	-
No data	19.6%	13.5%	-	0.2%	4.7%	1.9%	10.0%	6.6%	3.6%

NZSC Order	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Allophanic	-	0.2%	-	-	-	-	<0.1%	-
Anthropic	-	-	-	-	-	-	-	-
Brown	57.5%	42.8%	3.7%	47.7%	52.7%	92.2%	72.4%	0.7%
Gley	17.9%	1.3%	13.1%	26.4%	1.3%	-	-	4.1%
Melanic	0.3%	3.0%	0.9%	-	2.2%	<0.1%	1.9%	<0.1%
Organic	-	-	-	-	-	-	-	-
Pallic	23.6%	4.9%	12.5%	18.3%	16.8%	4.4%	9.5%	<0.1%
Podzol	<0.1%	43.6%	69.3%	7.1%	18.3%	-	0.3%	1.8%
Raw	-	<0.1%	-	-	-	-	-	-
Recent	0.6%	0.2%	-	-	0.8%	2.9%	5.0%	92.7%
Ultic	-	<0.1%	-	-	0.6%	-	4.6%	-
No data	-	3.8%	0.5%	0.5%	7.3%	0.4%	6.3%	0.7%

Profile drainage

Soil Profile Drainage	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Very poorly drained	0.2%	0.7%	-	0.4%	0.0%	-	-	59.4%	-
Poorly drained	-	2.3%	100.0%	57.4%	25.6%	-	1.0%	7.6%	1.8%
Imperfectly drained	-	2.4%	-	19.8%	22.1%	-	2.2%	2.2%	0.1%
Moderately well drained	4.4%	12.6%	-	0.8%	20.7%	27.1%	20.0%	0.9%	1.2%
Well drained	3.6%	9.5%	-	0.3%	8.0%	58.1%	52.8%	1.4%	41.7%
No data	91.8%	72.6%	-	21.2%	23.7%	14.8%	24.0%	28.6%	55.2%

Soil Profile Drainage	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Very poorly drained	-	0.8%	1.3%	-	<0.1%	-	-	-
Poorly drained	39.0%	1.7%	28.8%	42.0%	17.2%	-	3.0%	7.2%
Imperfectly drained	22.7%	2.3%	4.5%	33.1%	17.0%	-	6.4%	-
Moderately well drained	35.5%	13.5%	2.4%	17.4%	22.7%	41.3%	30.6%	3.2%
Well drained	0.9%	10.2%	1.0%	1.7%	7.7%	56.5%	31.1%	42.7%
No data	1.9%	71.6%	61.9%	5.8%	35.4%	2.2%	28.8%	46.9%

Permeability

Soil Permeability	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Moderate over Slow		4.1%	93.7%	56.6%	26.1%	10.2%	7.8%	10.9%	2.1%
Moderate over Slow - Moderate		0.2%	0.3%	2.3%	-	-	1.0%	<0.1%	0.2%
Moderate over Slow, moderate, rapid		<0.1%	<0.1%	-	<0.1%	-	0.1%	-	<0.1%
Moderate over Moderate - slow		2.4%	0.7%	8.2%	29.1%	13.8%	20.2%	3.6%	0.6%
Moderate over Moderate		2.4%	1.7%	1.5%	2.2%	10.7%	6.5%	0.4%	6.3%
Moderate over Moderate - Rapid		<0.1%	0.7%	0.5%	0.5%	8.5%	4.1%	0.2%	0.7%
Moderate over Rapid		<0.1%	-	0.1%	<0.1%	<0.1%	0.1%	<0.1%	<0.1%
Rapid over Rapid		0.5%	2.0%	1.8%	0.9%	41.0%	17.0%	0.7%	18.0%
No Data	100.0%	90.4%	0.8%	29.0%	41.2%	15.9%	43.2%	84.2%	72.1%

Soil Permeability	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Moderate over Moderate	5.0%	2.4%	0.4%	<0.1%	<0.1%	1.1%	2.8%	0.6%
Moderate over Moderate - Rapid	0.2%	<0.1%	<0.1%	<0.1%	<0.1%	0.3%	0.4%	0.4%
Moderate over Moderate - slow	26.2%	1.9%	2.2%	0.6%	0.1%	68.2%	5.4%	0.2%
Moderate over Rapid	0.2%	<0.1%	<0.1%	-	-	0.0%	0.1%	<0.1%
Moderate over Slow	70.3%	2.7%	11.0%	0.4%	0.1%	17.0%	7.3%	0.9%
Moderate over Slow - Moderate	0.5%	0.1%	0.0%	-	-	0.1%	0.6%	<0.1%
Moderate over Slow, moderate, rapid	<0.1%	<0.1%	-	-	-	0.3%	0.0%	-
Rapid over Rapid	2.3%	0.5%	0.3%	<0.1%	<0.1%	1.1%	1.9%	0.4%
No data	-	92.4%	86.0%	99.0%	99.8%	11.9%	81.4%	97.5%

Anion storage capacity

Soil Anion Exchange	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Very low	-	0.1%	0.4%	0.6%	0.9%	0.0%	1.6%	38.3%	0.5%
Low	-	2.2%	27.7%	21.3%	13.3%	26.0%	5.9%	1.3%	19.7%
Moderate	-	4.8%	68.8%	47.7%	38.7%	58.1%	37.3%	10.9%	6.0%
High	-	2.3%	2.7%	1.6%	6.7%	0.0%	12.1%	2.9%	1.7%
Very high	-	0.1%	-	0.0%	-	0.0%	0.0%	0.0%	-
No data	100.0%	90.5%	0.5%	28.8%	40.4%	15.9%	43.1%	46.5%	72.1%

Soil Anion Exchange	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Very low	1.2%	0.1%	0.1%	0.1%	<0.1%	0.5%	0.9%	0.4%
Low	21.3%	1.8%	4.8%	0.1%	<0.1%	3.9%	3.8%	0.6%
Moderate	42.4%	4.1%	8.7%	0.6%	0.1%	76.4%	12.0%	1.2%
High	40.0%	1.4%	0.5%	0.4%	<0.1%	7.6%	1.9%	0.3%
Very high	0.2%	0.2%	-	-	-	<0.1%	<0.1%	-
No data	-5.1%	92.5%	86.0%	98.9%	99.8%	11.6%	81.4%	97.5%

Reduction potential

Soil Reduction Potential	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Low	93.6%	10.4%	4.6%	29.2%	22.4%	90.3%	80.8%	11.9%	80.1%
Moderate	-	4.0%	29.2%	38.8%	43.4%	4.9%	6.1%	6.2%	1.3%
High	6.1%	84.5%	66.2%	31.6%	33.8%	4.7%	12.4%	81.5%	18.2%
No data	0.3%	1.1%	-	0.4%	0.4%	-	0.7%	0.4%	0.4%

Soil Reduction Potential	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Low	24.5%	10.6%	63.4%	25.5%	17.0%	76.7%	77.5%	73.8%
Moderate	51.7%	3.1%	12.7%	51.4%	40.7%	14.2%	5.2%	0.5%
High	23.4%	85.5%	23.0%	22.8%	42.1%	8.9%	16.8%	25.6%
No data	0.3%	0.8%	0.9%	0.3%	0.2%	0.2%	0.5%	0.1%

Artificial drainage density

Artificial Drainage Density	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
None (not agriculture)	99.6%	66.7%	-	24.4%	22.1%	-	21.1%	17.5%	55.1%
Very low to none	-	2.0%	-	-	1.8%	43.6%	24.3%	0.3%	37.7%
Low	-	1.1%	-	4.1%	8.5%	32.8%	12.0%	0.8%	0.8%
Low (slope)	0.4%	18.4%	-	5.4%	28.9%	17.0%	17.4%	8.4%	6.3%
Moderate	-	1.1%	-	18.4%	20.4%	6.6%	17.1%	7.0%	<0.1%
High	-	0.8%	100.0%	47.8%	16.3%	-	0.2%	6.5%	0.2%
Very high	-	-	-	-	-	-	0.1%	56.0%	-
No data	-	9.9%	-	-	2.0%	-	7.7%	3.6%	-

Artificial Drainage Density	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
None (not agriculture)	-	76.6%	75.5%	-	36.9%	-	47.9%	75.3%
Very low to none	-	2.1%	-	-	1.4%	-	2.0%	1.2%
Low	-	0.3%	8.2%	-	9.4%	-	3.3%	<0.1%
Low (slope)	-	21.1%	16.3%	-	49.2%	-	46.8%	23.4%
Moderate	59.9%	-	-	55.6%	-	98.3%	-	-
High	40.1%	-	-	44.4%	-	1.4%	-	-
Very high	-	-	-	-	-	0.3%	-	-
No data	-	-	-	-	3.1%	-	-	-

Lateral drainage potential

Lateral Drainage Potential	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Localised	-	12.3%	100%	93.3%	64.3%	96.2%	98.2%	99.4%	86.9%
Extensive	100.0%	87.7	-	6.7%	35.7%	3.8%	1.8%	0.6%	13.1%

Lateral Drainage Potential	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Localised	100.0%	0.2%	82.8%	100.0%	40.1%	100.0%	94.9%	79.2%
Extensive	-	99.8%	17.2%	-	59.9%	-	5.1%	20.8%

Saturated zone characteristics

Water table depth

Water Table Depth	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Shallow	-	1.5%	85.9%	45.0%	19.3%	16.1%	32.7%	56.9%	34.2%
Moderate	-	0.8%	13.0%	15.3%	25.3%	31.9%	18.2%	7.4%	1.3%
Moderately deep	-	0.3%	-	1.6%	8.2%	27.9%	2.7%	1.0%	0.1%
Deep	-	0.3%	-	<0.1%	-	9.0%	0.4%	0.7%	<0.1%
No data	100.0%	97.1%	1.1%	38.1%	47.3%	15.2%	46.1%	34.0%	64.3%

Water Table Depth	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Shallow	18.0%	1.3%	7.0%	35.8%	6.8%	37.5%	12.5%	13.1%
Moderate	10.5%	0.6%	3.0%	39.5%	16.5%	46.9%	7.0%	1.1%
Moderately deep	3.8%	0.3%	0.3%	11.3%	6.8%	4.1%	0.7%	0.3%
Deep	6.3%	0.1%	-	-	-	<0.1%	0.1%	0.2%
No data	61.4%	97.7%	89.6%	13.3%	69.9%	11.4%	79.7%	85.3%

Aquifer permeability

Aquifer Permeability	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Low	✓	✓	✓	✓	✓			✓	
Moderate						✓			
High							✓		✓

Aquifer Permeability	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Low	✓	✓	✓	✓	✓			
Moderate						✓	✓	
High								✓

Active groundwater storage

Active Groundwater Storage	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Minor	✓	✓							
Moderate			✓	✓	✓	✓		✓	
Extensive							✓		✓

Active Groundwater Storage	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Minor		✓	✓		✓			
Moderate	✓			✓		✓	✓	
Extensive								✓

Reduction potential

Aquifer Reduction Potential	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Low	100.0%	99.6%	99.5%	98.0%	48.7%	99.9%	98.0%	30.3%	99.6%
Intermediate	-	0.1%	<0.1%	0.9%	18.7%	<0.1%	1.3%	5.0%	0.1%
High	-	0.2%	0.5%	1.1%	32.7%	<0.1%	0.7%	64.7%	0.2%
No data	0.3%	1.1%	-	0.4%	0.4%	-	0.7%	0.4%	0.4%

Aquifer Reduction Potential	Bedrock/Hill Country(a)	Bedrock/Hill Country(o)	Gleyed(o)	Lignite/Marine Terraces(a)	Lignite/Marine Terraces(o)	Oxidising(a)	Oxidising(o)	Riverine(o)
Low	97.0%	98.8%	97.5%	35.7%	56.0%	97.9%	96.9%	99.5%
Intermediate	1.8%	0.1%	0.3%	37.0%	7.0%	1.3%	1.3%	<0.1%
High	0.9%	0.2%	1.3%	27.0%	36.8%	0.6%	1.2%	0.4%
No data	0.3%	0.8%	0.9%	0.3%	0.3%	0.2%	0.5%	0.1%

Deep drainage potential

Deep Drainage Potential	Alpine	Bedrock/Hill Country	Central Plains	Gleyed	Lignite/Marine Terraces	Old Mataura	Oxidising	Peat Wetlands	Riverine
Low	100.0%	98.0%	99.6%	42.6%	14.8%	18.4%	1.2%	44.0%	2.9%
Moderate	-	1.9%	0.4%	57.4%	85.1%	64.4%	39.1%	2.7%	21.7%
High	-	0.1%	-	-	-	17.2%	59.7%	53.3%	75.4%

Deep Drainage Potential	Bedrock/Hill Country$_{(a)}$	Bedrock/Hill Country$_{(o)}$	Gleyed$_{(o)}$	Lignite/Marine Terraces$_{(a)}$	Lignite/Marine Terraces$_{(o)}$	Oxidising$_{(a)}$	Oxidising$_{(o)}$	Riverine$_{(o)}$
Low	69.8%	98.7%	2.8%	39.4%	0.6%	1.6%	0.0%	0.6%
Moderate	30.2%	1.3%	97.2%	60.6%	99.4%	82.7%	7.9%	0.5%
High	-	<0.1%	-	-	<0.1%	15.7%	92.0%	98.9%