



**EDB Information Disclosure Requirements
Information Templates
for
Schedules 1–10**

Company Name	Waipa Networks Limited
Disclosure Date	23 August 2016
Disclosure Year (year ended)	31 March 2016

Templates for Schedules 1–10 excluding 5f–5g
Template Version 4.1. Prepared 24 March 2015

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Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2016**

SCHEDULE 1: ANALYTICAL RATIOS

This schedule calculates expenditure, revenue and service ratios from the information disclosed. The disclosed ratios may vary for reasons that are company specific and, as a result, must be interpreted with care. The Commerce Commission will publish a summary and analysis of information disclosed in accordance with the ID determination. This will include information disclosed in accordance with this and other schedules, and information disclosed under the other requirements of the determination.

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

7 1(i): Expenditure metrics

	Expenditure per GWh energy delivered to ICPs (\$/GWh)	Expenditure per average no. of ICPs (\$/ICP)	Expenditure per MW maximum coincident system demand (\$/MW)	Expenditure per km circuit length (\$/km)	Expenditure per MVA of capacity from EDB-owned distribution transformers (\$/MVA)
Operational expenditure	15,358	229	78,746	2,685	24,481
Network	7,462	111	38,261	1,305	11,895
Non-network	7,896	117	40,485	1,381	12,586
Expenditure on assets	43,440	646	222,736	7,596	69,244
Network	43,017	640	220,567	7,522	68,570
Non-network	423	6	2,169	74	674

16 1(ii): Revenue metrics

	Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)
Total consumer line charge revenue	64,140	954
Standard consumer line charge revenue	74,442	909
Non-standard consumer line charge revenue	17,004	569,500

23 1(iii): Service intensity measures

Demand density	34	Maximum coincident system demand per km of circuit length (for supply) (kW/km)
Volume density	175	Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)
Connection point density	12	Average number of ICPs per km of circuit length (for supply) (ICPs/km)
Energy intensity	14,881	Total energy delivered to ICPs per average number of ICPs (kWh/ICP)

30 1(iv): Composition of regulatory income

	(\$000)	% of revenue
Operational expenditure	5,736	24.01%
Pass-through and recoverable costs excluding financial incentives and wash-ups	8,448	35.36%
Total depreciation	3,430	14.36%
Total revaluations	534	2.24%
Regulatory tax allowance	1,508	6.31%
Regulatory profit/(loss) including financial incentives and wash-ups	5,302	22.19%
Total regulatory income	23,889	

40 1(v): Reliability

Interruption rate	11.99	Interruptions per 100 circuit km
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Company Name **Waipa Networks Limited**
For Year Ended **31 March 2016**

SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

This schedule requires information on the Return on Investment (ROI) for the EDB relative to the Commerce Commission's estimates of post tax WACC and vanilla WACC. EDBs must calculate their ROI based on a monthly basis if required by clause 2.3.3 of the ID Determination or if they elect to. If an EDB makes this election, information supporting this calculation must be provided in 2(iii).

EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

		CY-2	CY-1	Current Year CY
		31 Mar 14 %	31 Mar 15 %	31 Mar 16 %
7	2(i): Return on Investment			
8				
9	ROI – comparable to a post tax WACC			
10	Reflecting all revenue earned	7.22%	4.63%	5.35%
11	Excluding revenue earned from financial incentives	7.22%	4.63%	5.35%
12	Excluding revenue earned from financial incentives and wash-ups	7.22%	4.63%	5.35%
13				
14	Mid-point estimate of post tax WACC	5.43%	6.10%	5.37%
15	25th percentile estimate	4.71%	5.39%	4.66%
16	75th percentile estimate	6.14%	6.82%	6.09%
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	7.90%	5.41%	6.00%
21	Excluding revenue earned from financial incentives	7.90%	5.41%	6.00%
22	Excluding revenue earned from financial incentives and wash-ups	7.90%	5.41%	6.00%
23				
24	WACC rate used to set regulatory price path			
25				
26	Mid-point estimate of vanilla WACC	6.11%	6.89%	6.02%
27	25th percentile estimate	5.39%	6.17%	5.30%
28	75th percentile estimate	6.83%	7.60%	6.74%
29				
30	2(ii): Information Supporting the ROI			
31				
32	Total opening RAB value	91,209		
33	plus Opening deferred tax	(2,496)		
34	Opening RIV		88,713	
35				
36	Line charge revenue		23,956	
37				
38	Expenses cash outflow	14,184		
39	add Assets commissioned	3,622		
40	less Asset disposals	188		
41	add Tax payments	1,102		
42	less Other regulated income	(67)		
43	Mid-year net cash outflows		18,786	
44				
45	Term credit spread differential allowance		–	
46				
47	Total closing RAB value	91,746		
48	less Adjustment resulting from asset allocation	(0)		
49	less Lost and found assets adjustment	–		
50	plus Closing deferred tax	(2,901)		
51	Closing RIV		88,845	
52				
53	ROI – comparable to a vanilla WACC			6.00%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			5.26%
57	Corporate tax rate (%)			28%
58				
59	ROI – comparable to a post tax WACC			5.35%
60				

Company Name **Waipa Networks Limited**
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SCHEDULE 2: REPORT ON RETURN ON INVESTMENT

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EDBs must provide explanatory comment on their ROI in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

2(iii): Information Supporting the Monthly ROI

61									
62									
63	Opening RIV								N/A
64									
65									
66		Line charge revenue	Expenses cash outflow	Assets commissioned	Asset disposals	Other regulated income	Monthly net cash outflows		
67	April								
68	May								
69	June								
70	July								
71	August								
72	September								
73	October								
74	November								
75	December								
76	January								
77	February								
78	March								
79	Total								
80									
81	Tax payments								N/A
82									
83	Term credit spread differential allowance								N/A
84									
85	Closing RIV								N/A
86									
87									
88	Monthly ROI – comparable to a vanilla WACC								N/A
89									
90	Monthly ROI – comparable to a post tax WACC								N/A
91									

2(iv): Year-End ROI Rates for Comparison Purposes

92		
93		
94	Year-end ROI – comparable to a vanilla WACC	5.86%
95		
96	Year-end ROI – comparable to a post tax WACC	5.21%
97		

* these year-end ROI values are comparable to the ROI reported in pre 2012 disclosures by EDBs and do not represent the Commission's current view on ROI.

2(v): Financial Incentives and Wash-Ups

101		
102	Net recoverable costs allowed under incremental rolling incentive scheme	
103	Purchased assets – avoided transmission charge	
104	Energy efficiency and demand incentive allowance	
105	Quality incentive adjustment	
106	Other financial incentives	
107	Financial incentives	
108		
109	Impact of financial incentives on ROI	
110		
111	Input methodology claw-back	
112	Recoverable customised price-quality path costs	
113	Catastrophic event allowance	
114	Capex wash-up adjustment	
115	Transmission asset wash-up adjustment	
116	2013–2015 NPV wash-up allowance	
117	Reconsideration event allowance	
118	Other wash-ups	
119	Wash-up costs	
120		
121	Impact of wash-up costs on ROI	

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2016**

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

		(\$000)
7	3(i): Regulatory Profit	
8	Income	
9	Line charge revenue	23,956
10	plus Gains / (losses) on asset disposals	(166)
11	plus Other regulated income (other than gains / (losses) on asset disposals)	99
12		
13	Total regulatory income	23,889
14	Expenses	
15	less Operational expenditure	5,736
16		
17	less Pass-through and recoverable costs excluding financial incentives and wash-ups	8,448
18		
19	Operating surplus / (deficit)	9,705
20		
21	less Total depreciation	3,430
22		
23	plus Total revaluations	534
24		
25	Regulatory profit / (loss) before tax	6,809
26		
27	less Term credit spread differential allowance	-
28		
29	less Regulatory tax allowance	1,508
30		
31	Regulatory profit/(loss) including financial incentives and wash-ups	5,302
32		

		(\$000)
33	3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups	
34	Pass through costs	
35	Rates	87
36	Commerce Act levies	10
37	Industry levies	68
38	CPP specified pass through costs	
39	Recoverable costs excluding financial incentives and wash-ups	
40	Electricity lines service charge payable to Transpower	8,175
41	Transpower new investment contract charges	108
42	System operator services	
43	Distributed generation allowance	
44	Extended reserves allowance	
45	Other recoverable costs excluding financial incentives and wash-ups	
46	Pass-through and recoverable costs excluding financial incentives and wash-ups	8,448
47		

Company Name

Waipa Networks Limited

For Year Ended

31 March 2016

SCHEDULE 3: REPORT ON REGULATORY PROFIT

This schedule requires information on the calculation of regulatory profit for the EDB for the disclosure year. All EDBs must complete all sections and provide explanatory comment on their regulatory profit in Schedule 14 (Mandatory Explanatory Notes).

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sch ref

		(\$000)	
		CY-1	CY
		31 Mar 15	31 Mar 16
48	3(iii): Incremental Rolling Incentive Scheme		
49			
50			
51	Allowed controllable opex		
52	Actual controllable opex		
53			
54	Incremental change in year		
55			
		Previous years' incremental change	Previous years' incremental change adjusted for inflation
56			
57	CY-5 31 Mar 11		
58	CY-4 31 Mar 12		
59	CY-3 31 Mar 13		
60	CY-2 31 Mar 14		
61	CY-1 31 Mar 15		
62	Net incremental rolling incentive scheme		-
63			
64	Net recoverable costs allowed under incremental rolling incentive scheme		-
65	3(iv): Merger and Acquisition Expenditure		
70			(\$000)
66	Merger and acquisition expenditure		-
67			
68	<i>Provide commentary on the benefits of merger and acquisition expenditure to the electricity distribution business, including required disclosures in accordance with section 2.7, in Schedule 14 (Mandatory Explanatory Notes)</i>		
69	3(v): Other Disclosures		
70			(\$000)
71	Self-insurance allowance		-

Company Name: **Waipa Networks Limited**
For Year Ended: **31 March 2016**

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref	For year ended	RAB (\$000)	RAB (\$000)	RAB (\$000)	RAB (\$000)	RAB (\$000)	RAB (\$000)
		31 Mar 12	31 Mar 13	31 Mar 14	31 Mar 15	31 Mar 16	
7							
8							
9							
10	Total opening RAB value	85,852	88,086	89,783	91,331	91,209	
11							
12	less Total depreciation	3,127	3,220	3,301	3,400	3,430	
13							
14	plus Total revaluations	1,345	755	1,374	76	534	
15							
16	plus Assets commissioned	4,228	4,392	3,650	3,376	3,622	
17							
18	less Asset disposals	211	230	175	174	188	
19							
20	plus Lost and found assets adjustment	-	-	-	-	-	
21							
22	plus Adjustment resulting from asset allocation	-	-	-	-	(0)	
23							
24	Total closing RAB value	88,086	88,783	91,331	91,209	91,746	
25							

4(ii): Unallocated Regulatory Asset Base

	Unallocated RAB* (\$000)	RAB (\$000)	RAB (\$000)
26			
27			
28			
29	Total opening RAB value	96,146	91,209
30	less		
31	Total depreciation	3,672	3,430
32	plus		
33	Total revaluations	563	534
34	plus		
35	Assets commissioned (other than below)		158
36	Assets acquired from a regulated supplier		-
37	Assets acquired from a related party		3,464
38	Assets commissioned	3,622	3,622
39	less		
40	Asset disposals (other than below)		188
41	Asset disposals to a regulated supplier		-
42	Asset disposals to a related party		-
43	Asset disposals	188	188
44			
45	plus Lost and found assets adjustment		
46			
47	plus Adjustment resulting from asset allocation		(0)
48			
49	Total closing RAB value	96,470	91,746

* The 'unallocated RAB' is the total value of those assets used wholly or partially to provide electricity distribution services without any allowance being made for the allocation of costs to services provided by the supplier that are not electricity distribution services. The RAB value represents the value of these assets after applying this cost allocation. Neither value includes works under construction.

Company Name Waipa Networks Limited
For Year Ended 31 March 2016

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref	Description	Unallocated RAB *	RAB	CPI _t	CPI _{t-1}	Revaluation rate (%)
51						
52						
53						
54						
55						
56						
57						
58						
59						
60	Total opening RAB value	96,146	91,209		1,200	
61	less Opening value of fully depreciated, disposed and lost assets	196	196		1,193	
62						0.58%
63	Total opening RAB value subject to revaluation	95,950	91,013			
64	Total revaluations	563	534			
65						
66	4(iv): Roll Forward of Works Under Construction					
67						
68	Works under construction—preceding disclosure year	5,047	5,047			
69	plus Capital expenditure	15,541	15,541			
70	less Assets commissioned	3,622	3,622			
71	plus Adjustment resulting from asset allocation	—	—			
72	Works under construction - current disclosure year	16,967	16,967			
73						
74	Highest rate of capitalised finance applied					4
75						

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016

SCHEDULE 4: REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)

This schedule requires information on the calculation of the Regulatory Asset Base (RAB) value to the end of this disclosure year. This informs the ROI calculation in Schedule 2. EDBs must provide explanatory comment on the value of their RAB in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

4(v): Regulatory Depreciation

76	Depreciation - standard				
77	Depreciation - no standard life assets				
78	Depreciation - modified life assets				
79	Depreciation - alternative depreciation in accordance with CPP				
80	Total depreciation	3,246	3,246	3,246	3,430
81		427	184		
82					
83					
84					
85					

4(vi): Disclosure of Changes to Depreciation Profiles

(\$000 unless otherwise specified)

Asset or assets with changes to depreciation*	Reason for non-standard depreciation (text entry)	Depreciation charge for the period (RAB)	Closing RAB value under 'non-standard' depreciation	Closing RAB value under 'standard' depreciation
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				

* include additional rows if needed

4(vii): Disclosure by Asset Category

(\$000 unless otherwise specified)

	Subtransmission lines	Subtransmission cables	Zone substations	Distribution and LV lines	Distribution and LV cables	Distribution and substations and transformers	Distribution switchgear	Other network assets	Non-network assets	Total
98										
99	Total opening RAB value			30,006	19,294	23,968	12,269	4,730	1,942	91,209
100	less Total depreciation			1,088	614	802	474	268	184	3,430
101	plus Total revaluations			176	107	140	72	28	11	594
102	plus Assets commissioned			214	686	1,467	969	109	158	3,622
103	less Asset disposals					185			3	188
104	plus Lost and found assets adjustment									
105	plus Adjustment resulting from asset allocation									
106	plus Asset category transfers									
107	Total closing RAB value			29,367	18,473	24,607	12,836	4,999	1,924	91,746
108										
109	Asset Life									
110	Weighted average remaining asset life			30	28	26	22	18	59	(years)
111	Weighted average expected total asset life			60	45	44	37	40	73	(years)

Company Name **Waipa Networks Limited**
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SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 1.4.

sch ref

		(\$000)	
7	5a(i): Regulatory Tax Allowance		
8	Regulatory profit / (loss) before tax		6,809
9			
10	plus Income not included in regulatory profit / (loss) before tax but taxable	528	*
11	Expenditure or loss in regulatory profit / (loss) before tax but not deductible		*
12	Amortisation of initial differences in asset values	1,619	
13	Amortisation of revaluations	265	
14			2,413
15			
16	less Total revaluations	534	*
17	Income included in regulatory profit / (loss) before tax but not taxable		*
18	Discretionary discounts and customer rebates	1,302	
19	Expenditure or loss deductible but not in regulatory profit / (loss) before tax		*
20	Notional deductible interest	2,001	
21			3,838
22			
23	Regulatory taxable income		5,384
24			
25	less Utilised tax losses	-	
26	Regulatory net taxable income		5,384
27			
28	Corporate tax rate (%)	28%	
29	Regulatory tax allowance		1,508

* Workings to be provided in Schedule 14

5a(ii): Disclosure of Permanent Differences

In Schedule 14, Box 5, provide descriptions and workings of items recorded in the asterisked categories in Schedule 5a(i).

5a(iii): Amortisation of Initial Difference in Asset Values

		(\$000)	
36	Opening unamortised initial differences in asset values	48,571	
37	less Amortisation of initial differences in asset values	1,619	
38	plus Adjustment for unamortised initial differences in assets acquired	-	
39	less Adjustment for unamortised initial differences in assets disposed	177	
40	Closing unamortised initial differences in asset values		46,775
41			
42	Opening weighted average remaining useful life of relevant assets (years)		30
43			

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 For Year Ended **31 March 2016**

SCHEDULE 5a: REPORT ON REGULATORY TAX ALLOWANCE

This schedule requires information on the calculation of the regulatory tax allowance. This information is used to calculate regulatory profit/loss in Schedule 3 (regulatory profit). EDBs must provide explanatory commentary on the information disclosed in this schedule, in Schedule 14 (Mandatory Explanatory Notes).

This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 1.9

sch ref

44	5a(iv): Amortisation of Revaluations		(\$000)
45			
46	Opening sum of RAB values without revaluations	84,951	
47			
48	Adjusted depreciation	3,164	
49	Total depreciation	3,430	
50	Amortisation of revaluations		265
51			
52	5a(v): Reconciliation of Tax Losses		(\$000)
53			
54	Opening tax losses	-	
55	plus Current period tax losses	-	
56	less Utilised tax losses	-	
57	Closing tax losses		-
58	5a(vi): Calculation of Deferred Tax Balance		(\$000)
59			
60	Opening deferred tax	(2,496)	
61			
62	plus Tax effect of adjusted depreciation	886	
63			
64	less Tax effect of tax depreciation	891	
65			
66	plus Tax effect of other temporary differences*	5	
67			
68	less Tax effect of amortisation of initial differences in asset values	453	
69			
70	plus Deferred tax balance relating to assets acquired in the disclosure year	-	
71			
72	less Deferred tax balance relating to assets disposed in the disclosure year	(48)	
73			
74	plus Deferred tax cost allocation adjustment	0	
75			
76	Closing deferred tax		(2,901)
77			
78	5a(vii): Disclosure of Temporary Differences		
79	<i>In Schedule 14, Box 6, provide descriptions and workings of items recorded in the asterisked category in Schedule 5a(vi) (Tax effect of other temporary differences).</i>		
80			
81	5a(viii): Regulatory Tax Asset Base Roll-Forward		
82			(\$000)
83	Opening sum of regulatory tax asset values	27,913	
84	less Tax depreciation	3,181	
85	plus Regulatory tax asset value of assets commissioned	3,494	
86	less Regulatory tax asset value of asset disposals	18	
87	plus Lost and found assets adjustment	-	
88	plus Adjustment resulting from asset allocation	-	
89	plus Other adjustments to the RAB tax value	-	
90	Closing sum of regulatory tax asset values		28,208

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For Year Ended	31 March 2016

SCHEDULE 5b: REPORT ON RELATED PARTY TRANSACTIONS

This schedule provides information on the valuation of related party transactions, in accordance with section 2.3.6 and 2.3.7 of the ID determination. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5b(i): Summary—Related Party Transactions

Total regulatory income	-
Operational expenditure	3,174
Capital expenditure	5,834
Market value of asset disposals	
Other related party transactions	

(\$000)

5b(ii): Entities Involved in Related Party Transactions

Name of related party	Related party relationship
Waikato Tree Services	
Waipa Networks - Contracting	

* include additional rows if needed

5b(iii): Related Party Transactions

Name of related party	Related party transaction type	Description of transaction	Value of transaction (\$000)	Basis for determining value
Waikato Tree Services	Opex	Vegetation management	560	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Service interruptions and emergencies	817	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Routine and corrective maintenance	949	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	Asset replacement and renewal	461	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Opex	System operations and network support	387	ID clause 2.3.6(1)(f)
Waipa Networks - Contracting	Capex	Electrical Contracting Services	5,834	IM clause 2.2.11(5)(h)

* include additional rows if needed

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For Year Ended **31 March 2016**

SCHEDULE 5c: REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE

This schedule is only to be completed if, as at the date of the most recently published financial statements, the weighted average original tenor of the debt portfolio (both qualifying debt and non-qualifying debt) is greater than five years. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5c(i): Qualifying Debt (may be Commission only)

issuing party	issue date	pricing date	original tenor (in years)	coupon rate (%)	book value at issue date (NZD)	book value at date of financial statements (NZD)	term credit spread difference	cost of executing an interest rate swap	debt issue cost readjustment

* include additional rows if needed

5c(ii): Attribution of Term Credit Spread Differential

Gross term credit spread differential	---
Total book value of interest bearing debt	
Leverage	44%
Average opening and closing RAB values	
Attribution Rate (%)	---
Term credit spread differential allowance	---

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016

sch ref	5d(i): Operating Cost Allocations	Value allocated (\$000s)	OVABAA allocation increase (\$000s)
		Electricity distribution services	Non-electricity distribution services
		Arm's length deduction	Total
7			
8			
9			
10	Service interruptions and emergencies		
11	Directly attributable	817	
12	Not directly attributable		-
13	Total attributable to regulated service	817	
14			
15	Vegetation management		
16	Directly attributable	560	
17	Not directly attributable		-
18	Total attributable to regulated service	560	
19			
20	Routine and corrective maintenance and inspection		
21	Directly attributable	949	
22	Not directly attributable		-
23	Total attributable to regulated service	949	
24			
25	Asset replacement and renewal		
26	Directly attributable	461	
27	Not directly attributable		-
28	Total attributable to regulated service	461	
29			
30	System operations and network support		
31	Directly attributable	1,021	
32	Not directly attributable	77	249
33	Total attributable to regulated service	1,098	
34			
35	Business support		
36	Directly attributable	1,480	
37	Not directly attributable	371	194
38	Total attributable to regulated service	1,851	565
39			
40	Operating costs directly attributable	5,288	
41	Operating costs not directly attributable	448	814
42	Operational expenditure	5,736	-

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016

SCHEDULE 5d: REPORT ON COST ALLOCATIONS

This schedule provides information on the allocation of operational costs. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any reclassifications. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5d(ii): Other Cost Allocations

39	Pass through and recoverable costs	
40	Pass through costs	
41	Directly attributable	165
42	Not directly attributable	—
43	Total attributable to regulated service	165
44	Recoverable costs	
45	Directly attributable	8,283
46	Not directly attributable	—
47	Total attributable to regulated service	8,283
48		
49		

5d(iii): Changes in Cost Allocations* †

50	Change in cost allocation 1		
51	Cost category		
52	Original allocator or line items		
53	New allocator or line items		
54			
55			
56			
57	Rationale for change		
58			
59			
60			

61	Change in cost allocation 2		
62	Cost category		
63	Original allocator or line items		
64	New allocator or line items		
65			
66			
67	Rationale for change		
68			
69			

70	Change in cost allocation 3		
71	Cost category		
72	Original allocator or line items		
73	New allocator or line items		
74			
75			
76	Rationale for change		
77			

* a change in cost allocation must be completed for each cost allocator change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.
 † include additional rows if needed

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2016**

SCHEDULE 5e: REPORT ON ASSET ALLOCATIONS

This schedule requires information on the allocation of asset values. This information supports the calculation of the RAB value in Schedule 4. EDBs must provide explanatory comment on their cost allocation in Schedule 14 (Mandatory Explanatory Notes), including on the impact of any changes in asset allocations. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

5e(i): Regulated Service Asset Values

	Value allocated (\$000s) Electricity distribution services
Subtransmission lines	
Directly attributable	—
Not directly attributable	—
Total attributable to regulated service	—
Subtransmission cables	
Directly attributable	—
Not directly attributable	—
Total attributable to regulated service	—
Zone substations	
Directly attributable	—
Not directly attributable	—
Total attributable to regulated service	—
Distribution and LV lines	
Directly attributable	29,307
Not directly attributable	—
Total attributable to regulated service	29,307
Distribution and LV cables	
Directly attributable	18,473
Not directly attributable	—
Total attributable to regulated service	18,473
Distribution substations and transformers	
Directly attributable	24,607
Not directly attributable	—
Total attributable to regulated service	24,607
Distribution switchgear	
Directly attributable	12,836
Not directly attributable	—
Total attributable to regulated service	12,836
Other network assets	
Directly attributable	4,599
Not directly attributable	—
Total attributable to regulated service	4,599
Non-network assets	
Directly attributable	519
Not directly attributable	1,405
Total attributable to regulated service	1,924
Regulated service asset value directly attributable	90,341
Regulated service asset value not directly attributable	1,405
Total closing RAB value	91,746

5e(ii): Changes in Asset Allocations* †

		(\$000)	
		CY-1	Current Year (CY)
Change in asset value allocation 1			
Asset category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			
Change in asset value allocation 2			
Asset category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			
Change in asset value allocation 3			
Asset category		Original allocation	
Original allocator or line items		New allocation	
New allocator or line items		Difference	
Rationale for change			

* a change in asset allocation must be completed for each allocator or component change that has occurred in the disclosure year. A movement in an allocator metric is not a change in allocator or component.
 † include additional rows if needed

Company Name
For Year Ended

Waipa Networks Limited
31 March 2016

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

	(\$000)	(\$000)
6a(i): Expenditure on Assets		
Consumer connection		1,757
System growth		754
Asset replacement and renewal		1,109
Asset relocations		103
Reliability, safety and environment:		
Quality of supply	11,619	
Legislative and regulatory	-	
Other reliability, safety and environment	725	
Total reliability, safety and environment		12,344
Expenditure on network assets		16,066
Expenditure on non-network assets		158
Expenditure on assets		16,224
plus Cost of financing		364
less Value of capital contributions		1,047
plus Value of vested assets		
Capital expenditure		15,541

	(\$000)
6a(ii): Subcomponents of Expenditure on Assets (where known)	
Energy efficiency and demand side management, reduction of energy losses	-
Overhead to underground conversion	664
Research and development	-

	(\$000)	(\$000)
6a(iii): Consumer Connection		
<i>Consumer types defined by EDB*</i>		
Residential	1,474	
Commercial	283	
<i>* include additional rows if needed</i>		
Consumer connection expenditure		1,757
less Capital contributions funding consumer connection expenditure	850	
Consumer connection less capital contributions		907

	System Growth (\$000)	Asset Replacement and Renewal (\$000)
6a(iv): System Growth and Asset Replacement and Renewal		
Subtransmission	-	-
Zone substations	-	-
Distribution and LV lines	-	125
Distribution and LV cables	219	222
Distribution substations and transformers	141	285
Distribution switchgear	219	453
Other network assets	175	24
System growth and asset replacement and renewal expenditure	754	1,109
less Capital contributions funding system growth and asset replacement and renewal	55	108
System growth and asset replacement and renewal less capital contributions	698	1,001

	(\$000)	(\$000)
6a(v): Asset Relocations		
<i>Project or programme*</i>		
<i>* include additional rows if needed</i>		
Asset relocations expenditure	103	103
less Capital contributions funding asset relocations	21	
Asset relocations less capital contributions		82

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2016**

SCHEDULE 6a: REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of capital expenditure on assets incurred in the disclosure year, including any assets in respect of which capital contributions are received, but excluding assets that are vested assets. Information on expenditure on assets must be provided on an accounting accruals basis and must exclude finance costs. EDBs must provide explanatory comment on their expenditure on assets in Schedule 14 (Explanatory Notes to Templates). This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref
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6a(vi): Quality of Supply

Project or programme*

Install 11kV Dropout fuses spurs & services
Replace Disconnectors
Install remote control switches
Install TMU-HTI 110kV line
Underground Lamb St Green Belt Overhead Lines
Split Tamahere into Tamahere and Pencarrow
Split Kaipaki into Kaipaki and Monavale

(\$000)	(\$000)
108	
123	
169	
10,232	
211	
232	
286	
259	
	11,619
	11,619

* include additional rows if needed
 All other projects programmes - quality of supply

Quality of supply expenditure
 less Capital contributions funding quality of supply
 Quality of supply less capital contributions

6a(vii): Legislative and Regulatory

Project or programme*

(\$000)	(\$000)

* include additional rows if needed
 All other projects or programmes - legislative and regulatory

Legislative and regulatory expenditure
 less Capital contributions funding legislative and regulatory
 Legislative and regulatory less capital contributions

6a(viii): Other Reliability, Safety and Environment

Project or programme*

Replace two pole sub structures
Replace Ring Main Units

(\$000)	(\$000)
163	
61	
501	
	725
13	
	712

* include additional rows if needed
 All other projects or programmes - other reliability, safety and environment

Other reliability, safety and environment expenditure
 less Capital contributions funding other reliability, safety and environment
 Other reliability, safety and environment less capital contributions

6a(ix): Non-Network Assets

Routine expenditure

Project or programme*

(\$000)	(\$000)
158	
	158

* include additional rows if needed
 All other projects or programmes - routine expenditure

Routine expenditure

Atypical expenditure

Project or programme*

(\$000)	(\$000)

* include additional rows if needed
 All other projects or programmes - atypical expenditure

Atypical expenditure

Expenditure on non-network assets

Company Name
For Year Ended

Waipa Networks Limited
31 March 2016

SCHEDULE 6b: REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR

This schedule requires a breakdown of operational expenditure incurred in the disclosure year. EDBs must provide explanatory comment on their operational expenditure in Schedule 14 (Explanatory notes to templates). This includes explanatory comment on any atypical operational expenditure and assets replaced or renewed as part of asset replacement and renewal operational expenditure, and additional information on insurance. This information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

6b(i): Operational Expenditure

	(\$000)	(\$000)
7		
8	817	
9	560	
10	949	
11	461	
12		2,787
13	1,098	
14	1,851	
15		2,949
16		
17		5,736

6b(ii): Subcomponents of Operational Expenditure (where known)

18		
19	Energy efficiency and demand side management, reduction of energy losses	
20	Direct billing*	N/A
21	Research and development	N/A
22	Insurance	
23		

* Direct billing expenditure by suppliers that directly bill the majority of their consumers

Company Name

Waipa Networks Limited

For Year Ended

31 March 2016

SCHEDULE 7: COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE

This schedule compares actual revenue and expenditure to the previous forecasts that were made for the disclosure year. Accordingly, this schedule requires the forecast revenue and expenditure information from previous disclosures to be inserted.

EDBs must provide explanatory comment on the variance between actual and target revenue and forecast expenditure in Schedule 14 (Mandatory Explanatory Notes). This information is part of the audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8. For the purpose of this audit, target revenue and forecast expenditures only need to be verified back to previous disclosures.

sch ref

7(i): Revenue

Line charge revenue

Target (\$000) ¹	Actual (\$000)	% variance
24,526	23,956	(2%)

7(ii): Expenditure on Assets

Consumer connection

System growth

Asset replacement and renewal

Asset relocations

Reliability, safety and environment:

Quality of supply

Legislative and regulatory

Other reliability, safety and environment

Total reliability, safety and environment**Expenditure on network assets**

Expenditure on non-network assets

Expenditure on assets

Forecast (\$000) ²	Actual (\$000)	% variance
2,314	1,757	(24%)
598	754	26%
1,237	1,109	(10%)
97	103	7%

15,393	11,619	(25%)
–	–	–
292	725	148%
15,685	12,344	(21%)
19,931	16,066	(19%)
158	158	–
20,089	16,224	(19%)

7(iii): Operational Expenditure

Service interruptions and emergencies

Vegetation management

Routine and corrective maintenance and inspection

Asset replacement and renewal

Network opex

System operations and network support

Business support

Non-network opex**Operational expenditure**

635	817	29%
501	560	12%
810	949	17%
355	461	30%
2,301	2,787	21%
1,160	1,098	(5%)
1,658	1,851	12%
2,818	2,949	5%
5,119	5,736	12%

7(iv): Subcomponents of Expenditure on Assets (where known)

Energy efficiency and demand side management, reduction of energy losses

Overhead to underground conversion

Research and development

–	–	–
195	664	241%
–	–	–

7(v): Subcomponents of Operational Expenditure (where known)

Energy efficiency and demand side management, reduction of energy losses

Direct billing

Research and development

Insurance

–	–	–
–	N/A	–
–	N/A	–
–	–	–

1 From the nominal dollar target revenue for the disclosure year disclosed under clause 2.4.3(3) of this determination

2 From the CY+1 nominal dollar expenditure forecasts disclosed in accordance with clause 2.6.6 for the forecast period starting at the beginning of the disclosure year (the second to last disclosure of Schedules 11a and 11b)

SCHEDULE 8: REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES

This schedule requires the billed quantities and associated line charge revenues for each price category code used by the ED8 in its pricing schedules. Information is also required on the number of ICPS that are included in each consumer group or price category code, and the energy delivered to each ICPS.

8(i): Billed Quantities by Price Component

Consumer group name or price category code	type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Average no. of ICPS in disclosure year	Energy delivered to ICPS in disclosure year (MWh)	Price component	Unit charging basis (eg. days, kW of demand, kVA of capacity, etc.)												
Domestic	Residential	Standard	19,672	155,132	Billed quantities by price component	Add extra columns for additional billed quantities by price component as necessary												
Non Domestic	Commercial	Standard	5,246	113,701			Combined	Controlled	Uncontrolled	Controlled	Day	Night	Streetlights	Fixed Daily Charge	Capacity charges	Monthly Charge	Transformer	
Unmetered	Commercial	Standard	130				kWh	kWh	kWh	kWh	kWh	kWh	kWh	Days	kVA of capacity			
Contract	Commercial	Standard	25	23,591														
11kV	Commercial	Standard	4	14,085														
11kV	Commercial	Non-standard	2	66,986														
					Controlled	Uncontrolled	Controlled	Controlled	Day	Night	Streetlights	Fixed Daily Charge	Capacity charges	Monthly Charge	Transformer			
Add extra rows for additional consumer groups or price category codes as necessary					42,644,134	87,339,939	23,854,594	781,157	194,522	1,178,820								
Standard consumer totals					92,133,986	13,525,741	840,419	3,790,205	1,674,093	1,806,914								
Non-standard consumer totals					23,510,948			11,957	57,961									
Total for all consumers					66,985,987			10,636,619	3,448,206									
Add extra rows for additional consumer groups or price category codes as necessary					42,644,134	203,064,873	37,379,835	1,621,576	14,693,203	5,298,080	1,806,914							
Standard consumer totals					66,985,987													
Non-standard consumer totals					270,050,860	37,379,835	1,621,576	14,693,203	5,298,080	1,806,914								
Total for all consumers					42,644,134	270,050,860	37,379,835	1,621,576	14,693,203	5,298,080	1,806,914							

8(ii): Line Charge Revenues (\$000) by Price Component

Consumer group name or price category code	Consumer type or types (eg. residential, commercial etc.)	Standard or non-standard consumer group (specify)	Total line charge revenue in disclosure year	Total transmission line revenue (if available)	Rate (eg. \$ per day, \$ per kWh, etc.)												
Domestic	Residential	Standard	\$11,624		Line charge revenues (\$000) by price component												
Non Domestic	Commercial	Standard	\$8,809	\$3,088		Uncontrolled	Controlled	Controlled	Day	Night	Streetlights	Fixed Daily Charge	Capacity charges	Monthly Charge	Transformer		
Unmetered	Commercial	Standard	\$55			\$7,052	\$373	\$8	\$22	\$17		\$1,080					
400V Capacity	Commercial	Standard	\$1,466	\$8,809		\$7,420	\$212	\$9	\$432	\$17	\$143	\$576					
11kV	Commercial	Standard	\$863	\$55													
11kV	Commercial	Non-standard	\$1,139	\$1,466													
Add extra rows for additional consumer groups or price category codes as necessary					\$3,088	\$7,052	\$373	\$8	\$22	\$17	\$143	\$576					
Standard consumer totals					\$22,817	\$15,326	\$585	\$17	\$893	\$57	\$143	\$1,711	\$961	\$2	\$34		
Non-standard consumer totals					\$1,139										\$1,139		
Total for all consumers					\$23,956	\$15,326	\$585	\$17	\$893	\$57	\$143	\$2,711	\$961	\$1,141	\$34		

8(iii): Number of ICPS directly billed

Number of directly billed ICPS: _____

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

SCHEDULE 9a: ASSET REGISTER

This schedule requires a summary of the quantity of assets that make up the network, by asset category and asset class. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref	Voltage	Asset category	Asset class	Units	Items at start of	Items at end of	Net change	Data accuracy
					year (quantity)	year (quantity)		(1-4)
8	All	Overhead Line	Concrete poles / steel structure	No.	20,334	20,380	46	4
9	All	Overhead Line	Wood poles	No.	1,698	1,675	(23)	4
10	All	Overhead Line	Other pole types	No.	-	-	-	N/A
11	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	-	N/A
12	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
13	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
22	HV	Zone substation Buildings	Zone substations up to 66kV	No.	-	-	-	N/A
23	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	N/A
24	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
25	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	N/A
26	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
27	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	-	N/A
28	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
29	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	-	N/A
31	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-	-	-	N/A
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	N/A
33	HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	-	-	N/A
34	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,227	1,229	2	4
35	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
36	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
37	HV	Distribution Cable	Distribution UG XLPE or PVC	km	121	122	2	4
38	HV	Distribution Cable	Distribution UG PILC	km	1	1	0	4
39	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
40	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	108	112	4	4
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
42	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	4,962	5,024	62	4
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	N/A
44	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	78	86	8	4
45	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,712	2,719	7	4
46	HV	Distribution Transformer	Ground Mounted Transformer	No.	688	703	15	4
47	HV	Distribution Transformer	Voltage regulators	No.	47	49	2	4
48	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	N/A
49	LV	LV Line	LV OH Conductor	km	501	506	5	4
50	LV	LV Cable	LV UG Cable	km	267	278	11	4
51	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	134	136	2	4
52	LV	Connections	OH/UG consumer service connections	No.	24,830	25,326	496	4
53	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	-	-	N/A
54	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	4
55	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	N/A
56	All	Load Control	Centralised plant	Lot	3	3	-	4
57	All	Load Control	Relays	No.	17,956	18,238	282	3
58	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

SCHEDULE 9c: REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES

This schedule requires a summary of the key characteristics of the overhead line and underground cable network. All units relating to cable and line assets, that are expressed in km, refer to circuit lengths.

sch ref

	Overhead (km)	Underground (km)	Total circuit length (km)
9			
10	Circuit length by operating voltage (at year end)		
11	-	-	-
12	-	-	-
13	-	-	-
14	-	-	-
15	-	-	-
16	1,229	123	1,353
17	506	278	783
18	1,735	401	2,136
19			
20	68	68	136
21			
22			
23	Overhead circuit length by terrain (at year end)		
24	215		12%
25	1,440		83%
26	-		-
27	80		5%
28	-		-
29	-		-
30	1,735		100%
31			
32			
33	160		8%
34			
35	1,229		71%

Company Name **Waipa Networks Limited**
 For Year Ended **31 March 2016**

SCHEDULE 9d: REPORT ON EMBEDDED NETWORKS

This schedule requires information concerning embedded networks owned by an EDB that are embedded in another EDB's network or in another embedded network.

sch ref	Location *	Number of ICPs served	Line charge revenue (\$000)
8	N/A		
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26	* Extend embedded distribution networks table as necessary to disclose each embedded network owned by the EDB which is embedded in another EDB's network or in another embedded network		

Company Name

Waipa Networks Limited

For Year Ended

31 March 2016

Network / Sub-network Name

SCHEDULE 9e: REPORT ON NETWORK DEMAND

This schedule requires a summary of the key measures of network utilisation for the disclosure year (number of new connections including distributed generation, peak demand and electricity volumes conveyed).

sch ref

8 **9e(i): Consumer Connections**
 9 *Number of ICPs connected in year by consumer type*

<i>Consumer types defined by EDB*</i>		Number of connections (ICPs)	
11	Domestic	485	
12	Non Domestic	96	
13	Unmetered	54	
14	11KV	--	
15			
16	<i>* include additional rows if needed</i>		
17	Connections total	635	

18

19 **Distributed generation**

20	Number of connections made in year	31	connections
21	Capacity of distributed generation installed in year	0.26	MVA

22 **9e(ii): System Demand**

23

24

		Demand at time of maximum coincident demand (MW)	
25	Maximum coincident system demand		
26	GXP demand	72	
27	<i>plus</i> Distributed generation output at HV and above	0	
28	Maximum coincident system demand	73	
29	<i>less</i> Net transfers to (from) other EDBs at HV and above		
30	Demand on system for supply to consumers' connection points	73	

31 **Electricity volumes carried**

		Energy (GWh)	
32	Electricity supplied from GXPs	396	
33	<i>less</i> Electricity exports to GXPs	--	
34	<i>plus</i> Electricity supplied from distributed generation	1	
35	<i>less</i> Net electricity supplied to (from) other EDBs	1	
36	Electricity entering system for supply to consumers' connection points	395	
37	<i>less</i> Total energy delivered to ICPs	373	
38	Electricity losses (loss ratio)	22	5.5%
39			
40	Load factor	0.62	

41 **9e(iii): Transformer Capacity**

42

		(MVA)	
43	Distribution transformer capacity (EDB owned)	234	
44	Distribution transformer capacity (Non-EDB owned, estimated)	49	
45	Total distribution transformer capacity	283	
46			
47	Zone substation transformer capacity	N/A	

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

sch ref

8 **10(i): Interruptions**

9 **Interruptions by class**

	Number of interruptions
10 Class A (planned interruptions by Transpower)	—
11 Class B (planned interruptions on the network)	87
12 Class C (unplanned interruptions on the network)	165
13 Class D (unplanned interruptions by Transpower)	1
14 Class E (unplanned interruptions of EDB owned generation)	—
15 Class F (unplanned interruptions of generation owned by others)	—
16 Class G (unplanned interruptions caused by another disclosing entity)	—
17 Class H (planned interruptions caused by another disclosing entity)	—
18 Class I (interruptions caused by parties not included above)	3
19 Total	256

21 **Interruption restoration**

	≤3Hrs	>3hrs
22 Class C interruptions restored within	111	54

24 **SAIFI and SAIDI by class**

	SAIFI	SAIDI
25 Class A (planned interruptions by Transpower)	—	—
26 Class B (planned interruptions on the network)	0.16	43.5
27 Class C (unplanned interruptions on the network)	2.09	146.6
28 Class D (unplanned interruptions by Transpower)	0.54	37.0
29 Class E (unplanned interruptions of EDB owned generation)	—	—
30 Class F (unplanned interruptions of generation owned by others)	—	—
31 Class G (unplanned interruptions caused by another disclosing entity)	—	—
32 Class H (planned interruptions caused by another disclosing entity)	—	—
33 Class I (interruptions caused by parties not included above)	0.00	0.5
34 Total	2.79	227.6

36 **Normalised SAIFI and SAIDI**

	Normalised SAIFI	Normalised SAIDI
37 Classes B & C (interruptions on the network)	2.25	190.1

39 **Quality path normalised reliability limit**

	SAIFI reliability limit	SAIDI reliability limit
40 SAIFI and SAIDI limits applicable to disclosure year*	N/A	N/A

* not applicable to exempt EDBs

Company Name	Waipa Networks Limited
For Year Ended	31 March 2016
Network / Sub-network Name	

SCHEDULE 10: REPORT ON NETWORK RELIABILITY

This schedule requires a summary of the key measures of network reliability (interruptions, SAIDI, SAIFI and fault rate) for the disclosure year. EDBs must provide explanatory comment on their network reliability for the disclosure year in Schedule 14 (Explanatory notes to templates). The SAIFI and SAIDI information is part of audited disclosure information (as defined in section 1.4 of the ID determination), and so is subject to the assurance report required by section 2.8.

10(ii): Class C Interruptions and Duration by Cause

Cause	SAIFI	SAIDI
Lightning	0.02	1.1
Vegetation	0.30	25.2
Adverse weather	0.00	0.2
Adverse environment	–	–
Third party interference	0.53	45.2
Wildlife	0.23	8.6
Human error	0.10	4.0
Defective equipment	0.52	52.1
Cause unknown	0.38	10.3

10(iii): Class B Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.12	31.4
Distribution cables (excluding LV)	0.00	1.1
Distribution other (excluding LV)	0.04	11.1

10(iv): Class C Interruptions and Duration by Main Equipment Involved

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	–	–
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	1.94	132.3
Distribution cables (excluding LV)	0.05	7.7
Distribution other (excluding LV)	0.10	6.6

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	–	–	–
Subtransmission cables	–	–	–
Subtransmission other	–	–	–
Distribution lines (excluding LV)	152	1,229	12.37
Distribution cables (excluding LV)	4	123	3.24
Distribution other (excluding LV)	9		
Total	165		