



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

Company Name	Network Waitaki Limited
Disclosure Date	31 August 2018
Disclosure Year (year ended)	31 March 2018

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

## Table of Contents

Schedule	Schedule name
1	<a href="#">ANALYTICAL RATIOS</a>
2	<a href="#">REPORT ON RETURN ON INVESTMENT</a>
3	<a href="#">REPORT ON REGULATORY PROFIT</a>
4	<a href="#">REPORT ON VALUE OF THE REGULATORY ASSET BASE (ROLLED FORWARD)</a>
5a	<a href="#">REPORT ON REGULATORY TAX ALLOWANCE</a>
5b	<a href="#">REPORT ON RELATED PARTY TRANSACTIONS</a>
5c	<a href="#">REPORT ON TERM CREDIT SPREAD DIFFERENTIAL ALLOWANCE</a>
5d	<a href="#">REPORT ON COST ALLOCATIONS</a>
5e	<a href="#">REPORT ON ASSET ALLOCATIONS</a>
6a	<a href="#">REPORT ON CAPITAL EXPENDITURE FOR THE DISCLOSURE YEAR</a>
6b	<a href="#">REPORT ON OPERATIONAL EXPENDITURE FOR THE DISCLOSURE YEAR</a>
7	<a href="#">COMPARISON OF FORECASTS TO ACTUAL EXPENDITURE</a>
8	<a href="#">REPORT ON BILLED QUANTITIES AND LINE CHARGE REVENUES</a>
9a	<a href="#">ASSET REGISTER</a>
9b	<a href="#">ASSET AGE PROFILE</a>
9c	<a href="#">REPORT ON OVERHEAD LINES AND UNDERGROUND CABLES</a>
9d	<a href="#">REPORT ON EMBEDDED NETWORKS</a>
9e	<a href="#">REPORT ON NETWORK DEMAND</a>
10	<a href="#">REPORT ON NETWORK RELIABILITY</a>

**Disclosure Template Instructions**

These templates have been prepared for use by EDBs when making disclosures under clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1, and 2.5.2 of the Electricity Distribution Information Disclosure Determination 2012.

***Company Name and Dates***

To prepare the templates for disclosure, the supplier's company name should be entered in cell C8, the date of the last day of the current (disclosure) year should be entered in cell C12, and the date on which the information is disclosed should be entered in cell C10 of the CoverSheet worksheet.

The cell C12 entry (current year) is used to calculate disclosure years in the column headings that show above some of the tables and in labels adjacent to some entry cells. It is also used to calculate the 'For year ended' date in the template title blocks (the title blocks are the light green shaded areas at the top of each template).

The cell C8 entry (company name) is used in the template title blocks.

Dates should be entered in day/month/year order (Example -"1 April 2013").

***Data Entry Cells and Calculated Cells***

Data entered into this workbook may be entered only into the data entry cells. Data entry cells are the bordered, unshaded areas (white cells) in each template. Under no circumstances should data be entered into the workbook outside a data entry cell.

In some cases, where the information for disclosure is able to be ascertained from disclosures elsewhere in the workbook, such information is disclosed in a calculated cell.

***Validation Settings on Data Entry Cells***

To maintain a consistency of format and to help guard against errors in data entry, some data entry cells test keyboard entries for validity and accept only a limited range of values. For example, entries may be limited to a list of category names, to values between 0% and 100%, or either a numeric entry or the text entry "N/A". Where this occurs, a validation message will appear when data is being entered. These checks are applied to keyboard entries only and not, for example, to entries made using Excel's copy and paste facility.

***Conditional Formatting Settings on Data Entry Cells***

Schedule 2 cells G79 and I79:L79 will change colour if the total cashflows do not equal the corresponding values in table 2(ii).

Schedule 4 cells P99:P105 and P107 will change colour if the RAB values do not equal the corresponding values in table 4(ii).

Schedule 9b columns AA to AE (2013 to 2017) contain conditional formatting. The data entry cells for future years are hidden (are changed from white to yellow).

Schedule 9b cells AG10 to AG60 will change colour if the total assets at year end for each asset class does not equal the corresponding values in column I in Schedule 9a.

Schedule 9c cell G30 will change colour if G30 (overhead circuit length by terrain) does not equal G18 (overhead circuit length by operating voltage).

***Inserting Additional Rows and Columns***

The templates for schedules 4, 5b, 5c, 5d, 5e, 6a, 8, 9d, and 9e may require additional rows to be inserted in tables marked 'include additional rows if needed' or similar. Column A schedule references should not be entered in additional rows, and should be deleted from additional rows that are created by copying and pasting rows that have schedule references.

Additional rows in schedules 5c, 6a, and 9e must not be inserted directly above the first row or below the last row of a table. This is to ensure that entries made in the new row are included in the totals.

Schedules 5d and 5e may require new cost or asset category rows to be inserted in allocation change tables 5d(iii) and 5e(ii). Accordingly, cell protection has been removed from rows 77 and 78 of the respective templates to allow blocks of rows to be copied. The four steps to add new cost category rows to table 5d(iii) are: Select Excel rows 69:77, copy, select Excel row 78, insert copied cells. Similarly, for table 5e(ii): Select Excel rows 70:78, copy, select Excel row 79, then insert copied cells.

The template for schedule 8 may require additional columns to be inserted between column P and U. To avoid interfering with the title block entries, these should be inserted to the left of column S. If inserting additional columns, the formulas for standard consumers total, non-standard consumers totals and total for all consumers will need to be copied into the cells of the added columns. The formulas can be found in the equivalent cells of the existing columns.

***Disclosures by Sub-Network***

If the supplier has sub-networks, schedules 8, 9a, 9b, 9c, 9e, and 10 must be completed for the network and for each sub-network. A copy of the schedule worksheet(s) must be made for each sub-network and named accordingly.

***Schedule References***

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Electricity Distribution ID Determination 2012 (as issued on 24 March 2015). They provide a common reference between the rows in the determination and the template.

***Description of Calculation References***

Calculation cell formulas contain links to other cells within the same template or elsewhere in the workbook. Key cell references are described in a column to the right of each template. These descriptions are provided to assist data entry. Cell references refer to the row of the template and not the schedule reference.

***Worksheet Completion Sequence***

Calculation cells may show an incorrect value until precedent cell entries have been completed. Data entry may be assisted by completing the schedules in the following order:

1. Coversheet
2. Schedules 5a–5e
3. Schedules 6a–6b
4. Schedule 8
5. Schedule 3
6. Schedule 4
7. Schedule 2
8. Schedule 7
9. Schedules 9a–9e
10. Schedule 10

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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				
8		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 MVA of capacity from EDB-owned distribution transformers (\$/MVA)
9	Operational expenditure	21,223	418	83,026	25,260
10	Network	8,656	170	33,864	10,303
11	Non-network	12,567	247	49,162	14,957
12					
13	Expenditure on assets	34,337	676	134,329	40,869
14	Network	30,018	591	117,430	35,728
15	Non-network	4,320	85	16,899	5,142
16					
17	1(ii): Revenue metrics				
18		Revenue per GWh energy delivered to ICPs (\$/GWh)	Revenue per average no. of ICPs (\$/ICP)		
19	Total consumer line charge revenue	68,678	1,352		
20	Standard consumer line charge revenue	82,887	1,143		
21	Non-standard consumer line charge revenue	36,233	31,642		
22					
23	1(iii): Service intensity measures				
24					
25	Demand density	34		Maximum coincident system demand per km of circuit length (for supply) (kW/km)	
26	Volume density	133		Total energy delivered to ICPs per km of circuit length (for supply) (MWh/km)	
27	Connection point density	7		Average number of ICPs per km of circuit length (for supply) (ICPs/km)	
28	Energy intensity	19,691		Total energy delivered to ICPs per average number of ICPs (kWh/ICP)	
29					
30	1(iv): Composition of regulatory income				
31				(\$000)	% of revenue
32	Operational expenditure			5,355	30.90%
33	Pass-through and recoverable costs excluding financial incentives and wash-ups			4,824	27.84%
34	Total depreciation			3,727	21.51%
35	Total revaluations			952	5.50%
36	Regulatory tax allowance			715	4.13%
37	Regulatory profit/(loss) including financial incentives and wash-ups			3,660	21.12%
38	Total regulatory income			17,329	
39					
40	1(v): Reliability				
41					
42	Interruption rate			19.88	Interruptions per 100 circuit km

Company Name  
For Year Ended

Network Waitaki Limited
31 March 2018

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).

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	2(i): Return on Investment	CY-2	CY-1	Current Year CY
8		31 Mar 16	31 Mar 17	31 Mar 18
9	ROI – comparable to a post tax WACC	%	%	%
10	Reflecting all revenue earned	4.76%	4.29%	3.68%
11	Excluding revenue earned from financial incentives	4.76%	4.29%	3.68%
12	Excluding revenue earned from financial incentives and wash-ups	4.76%	4.29%	3.68%
13				
14	Mid-point estimate of post tax WACC	5.37%	4.77%	5.04%
15	25th percentile estimate	4.66%	4.05%	4.36%
16	75th percentile estimate	6.09%	5.48%	5.72%
17				
18				
19	ROI – comparable to a vanilla WACC			
20	Reflecting all revenue earned	5.41%	4.83%	4.27%
21	Excluding revenue earned from financial incentives	5.41%	4.83%	4.27%
22	Excluding revenue earned from financial incentives and wash-ups	5.41%	4.83%	4.27%
23				
24	WACC rate used to set regulatory price path	n/a	n/a	n/a
25				
26	Mid-point estimate of vanilla WACC	6.02%	5.31%	5.60%
27	25th percentile estimate	5.30%	4.59%	4.92%
28	75th percentile estimate	6.74%	6.03%	6.29%
29				
30	2(ii): Information Supporting the ROI	(\$000)		
31				
32	Total opening RAB value	86,879		
33	plus Opening deferred tax	(2,766)		
34	Opening RIV		84,113	
35				
36	Line charge revenue		17,329	
37				
38	Expenses cash outflow	10,179		
39	add Assets commissioned	7,130		
40	less Asset disposals	226		
41	add Tax payments	220		
42	less Other regulated income	–		
43	Mid-year net cash outflows		17,303	
44				
45	Term credit spread differential allowance		–	
46				
47	Total closing RAB value	91,008		
48	less Adjustment resulting from asset allocation	(0)		
49	less Lost and found assets adjustment	–		
50	plus Closing deferred tax	(3,262)		
51	Closing RIV		87,746	
52				
53	ROI – comparable to a vanilla WACC			4.27%
54				
55	Leverage (%)			44%
56	Cost of debt assumption (%)			4.80%
57	Corporate tax rate (%)			28%
58				
59	ROI – comparable to a post tax WACC			3.68%
60				

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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).  
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

61	2(iii): Information Supporting the Monthly ROI						
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							
92	2(iv): Year-End ROI Rates for Comparison Purposes						
93							
94	Year-end ROI – comparable to a vanilla WACC						4.17%
95							
96	Year-end ROI – comparable to a post tax WACC						3.58%
97							
98	* 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.						
99							
100	2(v): Financial Incentives and Wash-Ups						
101							
102	Net recoverable costs allowed under incremental rolling incentive scheme					–	
103	Purchased assets – avoided transmission charge				N/A		
104	Energy efficiency and demand incentive allowance				N/A		
105	Quality incentive adjustment				N/A		
106	Other financial incentives				N/A		
107	Financial incentives						–
108							
109	Impact of financial incentives on ROI						–
110							
111	Input methodology claw-back				N/A		
112	Recoverable customised price-quality path costs				N/A		
113	Catastrophic event allowance				N/A		
114	Capex wash-up adjustment				N/A		
115	Transmission asset wash-up adjustment				N/A		
116	2013–2015 NPV wash-up allowance				N/A		
117	Reconsideration event allowance				N/A		

		Company Name	Network Waitaki Limited
		For Year Ended	31 March 2018

**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).

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	
118	Other wash-ups
119	Wash-up costs
120	
121	Impact of wash-up costs on ROI



		Company Name	Network Waitaki Limited
		For Year Ended	31 March 2018
<b>SCHEDULE 3: REPORT ON REGULATORY PROFIT</b>			
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			
7	<b>3(i): Regulatory Profit</b>		<b>(\$000)</b>
8	<b>Income</b>		
9		Line charge revenue	17,329
10	plus	Gains / (losses) on asset disposals	–
11	plus	Other regulated income (other than gains / (losses) on asset disposals)	–
12			
13	<b>Total regulatory income</b>		<b>17,329</b>
14	<b>Expenses</b>		
15	less	Operational expenditure	5,355
16			
17	less	Pass-through and recoverable costs excluding financial incentives and wash-ups	4,824
18			
19	<b>Operating surplus / (deficit)</b>		<b>7,150</b>
20			
21	less	Total depreciation	3,727
22			
23	plus	Total revaluations	952
24			
25	<b>Regulatory profit / (loss) before tax</b>		<b>4,375</b>
26			
27	less	Term credit spread differential allowance	–
28			
29	less	Regulatory tax allowance	715
30			
31	<b>Regulatory profit/(loss) including financial incentives and wash-ups</b>		<b>3,660</b>
32			
33	<b>3(ii): Pass-through and Recoverable Costs excluding Financial Incentives and Wash-Ups</b>		<b>(\$000)</b>
34	<b>Pass through costs</b>		
35		Rates	100
36		Commerce Act levies	19
37		Industry levies	52
38		CPP specified pass through costs	N/A
39	<b>Recoverable costs excluding financial incentives and wash-ups</b>		
40		Electricity lines service charge payable to Transpower	4,214
41		Transpower new investment contract charges	439
42		System operator services	N/A
43		Distributed generation allowance	N/A
44		Extended reserves allowance	N/A
45		Other recoverable costs excluding financial incentives and wash-ups	N/A
46	<b>Pass-through and recoverable costs excluding financial incentives and wash-ups</b>		<b>4,824</b>
47			

		Company Name	Network Waitaki Limited	
		For Year Ended	31 March 2018	

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

48

3(iii): Incremental Rolling Incentive Scheme

(\$000)

CY-1

31 Mar 17

CY

31 Mar 18

51

Allowed controllable opex

N/A

N/A

52

Actual controllable opex

N/A

N/A

54

Incremental change in year

N/A

56

Previous years' incremental change

Previous years' incremental change adjusted for inflation

57

CY-5

31 Mar 13

N/A

N/A

58

CY-4

31 Mar 14

N/A

N/A

59

CY-3

31 Mar 15

N/A

N/A

60

CY-2

31 Mar 16

N/A

N/A

61

CY-1

31 Mar 17

N/A

N/A

62

Net incremental rolling incentive scheme

-

64

Net recoverable costs allowed under incremental rolling incentive scheme

-

65

3(iv): Merger and Acquisition Expenditure

(\$000)

66

Merger and acquisition expenditure

N/A

68

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)

69

3(v): Other Disclosures

(\$000)

71

Self-insurance allowance

N/A

Network Waitaki-ID-determination-templates-for-schedules-1-to-10-v4.1 - 2017-2018 - 15 Aug 2018.xlsx10

S3.Regulatory Profit

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

7	4(i): Regulatory Asset Base Value (Rolled Forward)								
8		for year ended	RAB	RAB	RAB	RAB	RAB		
9			31 Mar 14	31 Mar 15	31 Mar 16	31 Mar 17	31 Mar 18		
10			(\$000)	(\$000)	(\$000)	(\$000)	(\$000)		
11									
12	less	Total depreciation	73,883	75,102	74,256	81,660	86,879		
13									
14	plus	Total revaluations	1,128	63	434	1,762	952		
15									
16	plus	Assets commissioned	3,322	2,628	10,575	7,347	7,130		
17									
18	less	Asset disposals	226	199	146	181	226		
19									
20	plus	Lost and found assets adjustment		(43)			-		
21									
22	plus	Adjustment resulting from asset allocation	197				(0)		
23									
24		Total closing RAB value	75,102	74,256	81,660	86,879	91,008		
25									
26	4(ii): Unallocated Regulatory Asset Base								
27									
28			Unallocated RAB *			RAB			
29			(\$000)	(\$000)	(\$000)	(\$000)			
30									
31	less	Total depreciation		87,348			86,879		
32									
33	plus	Total revaluations		3,834			3,727		
34									
35	plus	Total revaluations		958			952		
36									
37		Assets commissioned (other than below)	7,403			7,130			
38		Assets acquired from a regulated supplier							
39		Assets acquired from a related party							
40		Assets commissioned		7,403			7,130		
41	less								
42		Asset disposals (other than below)	226			226			
43		Asset disposals to a regulated supplier							
44		Asset disposals to a related party							
45		Asset disposals		226			226		
46									
47	plus	Lost and found assets adjustment					-		
48									
49	plus	Adjustment resulting from asset allocation					(0)		
50									
51		Total closing RAB value		91,649			91,008		
		* 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.							

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

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

4(iii): Calculation of Revaluation Rate and Revaluation of Assets

CPI<sub>4</sub>

CPI<sub>4</sub><sup>-4</sup>

Revaluation rate (%)

1,011

1,000

1.10%

Unallocated RAB \*

(\$000)

(\$000)

RAB

(\$000)

87,348

300

86,879

300

87,048

958

86,579

952

4(iv): Roll Forward of Works Under Construction

Works under construction—preceding disclosure year

plusCapital expenditure

lessAssets commissioned

plusAdjustment resulting from asset allocation

Works under construction - current disclosure year

1,006

7,269

7,403

872

987

6,996

7,130

853

4(v): Regulatory Depreciation

Depreciation - standard

Depreciation - no standard life assets

Depreciation - modified life assets

Depreciation - alternative depreciation in accordance with CPP

Total depreciation

3,271

563

3,834

3,271

456

3,727

4(vi): Disclosure of Changes to Depreciation Profiles

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

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.

* include additional rows if needed										
4(vii): Disclosure by Asset Category										
(\$000 unless otherwise specified)										
Distribution										
Subtransmission Subtransmission Distribution and Distribution and Distribution Other network Non-network										
lines cables Zone substations LV lines LV cables substations and switchgear assets assets Total										
Total opening RAB value										
less Total depreciation										
plus Total revaluations										
plus Assets commissioned										
less Asset disposals										
plus Lost and found assets adjustment										
plus Adjustment resulting from asset allocation										
plus Asset category transfers										
Total closing RAB value										
Asset Life										
Weighted average remaining asset life										
Weighted average expected total asset life										

**31 March 2018**

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 2.8.

(\$000)

4,375

\*

176

1,132

139

1,447

952

\*

580

\*

1,735

3,268

2,554

2,554

28%

715

(\$000)

28,288

1,132

27,156

25

**31 March 2018**

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 2.8.

	<b>5a(iv): Amortisation of Revaluations</b>					<b>(\$000)</b>
		Opening sum of RAB values without revaluations			88,270	
		Adjusted depreciation			3,588	
		Total depreciation			3,727	
		Amortisation of revaluations				139
	<b>5a(v): Reconciliation of Tax Losses</b>					<b>(\$000)</b>
		<b>Opening tax losses</b>			-	
	<i>plus</i>	Current period tax losses				
	<i>less</i>	Utilised tax losses				
		<b>Closing tax losses</b>				-
	<b>5a(vi): Calculation of Deferred Tax Balance</b>					<b>(\$000)</b>
		<b>Opening deferred tax</b>			(2,766)	
	<i>plus</i>	Tax effect of adjusted depreciation			1,005	
	<i>less</i>	Tax effect of tax depreciation			1,543	
	<i>plus</i>	Tax effect of other temporary differences*			360	
	<i>less</i>	Tax effect of amortisation of initial differences in asset values			317	
	<i>plus</i>	Deferred tax balance relating to assets acquired in the disclosure year				
	<i>less</i>	Deferred tax balance relating to assets disposed in the disclosure year			-	
	<i>plus</i>	Deferred tax cost allocation adjustment			0	
		<b>Closing deferred tax</b>				(3,262)
	<b>5a(vii): Disclosure of Temporary Differences</b>					
		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).				
	<b>5a(viii): Regulatory Tax Asset Base Roll-Forward</b>					
		<b>Opening sum of regulatory tax asset values</b>			49,823	<b>(\$000)</b>
	<i>less</i>	Tax depreciation			5,512	
	<i>plus</i>	Regulatory tax asset value of assets commissioned			8,951	
	<i>less</i>	Regulatory tax asset value of asset disposals			83	
	<i>plus</i>	Lost and found assets adjustment				
	<i>plus</i>	Adjustment resulting from asset allocation				
	<i>plus</i>	Other adjustments to the RAB tax value				
		<b>Closing sum of regulatory tax asset values</b>				53,179





Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

7	
8	5c(i): Qualifying Debt (may be Commission only)
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	5c(ii): Attribution of Term Credit Spread Differential
19	
20	
21	
22	
23	
24	
25	
26	
27	

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
No debt greater than 5 years									
* include additional rows if needed						-	-	-	-

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			-

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

7	5d(i): Operating Cost Allocations				
8					
9					
10	Service interruptions and emergencies				
11	Directly attributable		484		
12	Not directly attributable			-	
13	Total attributable to regulated service		484		
14	Vegetation management				
15	Directly attributable		441		
16	Not directly attributable			-	
17	Total attributable to regulated service		441		
18	Routine and corrective maintenance and inspection				
19	Directly attributable		732		
20	Not directly attributable			-	
21	Total attributable to regulated service		732		
22	Asset replacement and renewal				
23	Directly attributable		528		
24	Not directly attributable			-	
25	Total attributable to regulated service		528		
26	System operations and network support				
27	Directly attributable		1,417		
28	Not directly attributable			-	
29	Total attributable to regulated service		1,417		
30	Business support				
31	Directly attributable				
32	Not directly attributable		1,754	439	2,193
33	Total attributable to regulated service		1,754		
34					
35	Operating costs directly attributable		3,601		
36	Operating costs not directly attributable	-	1,754	439	2,193
37	Operational expenditure		5,355		
38					

Company Name

Network Waitaki Limited

For Year Ended

31 March 2018

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

39

5d(ii): Other Cost Allocations

40

Pass through and recoverable costs

(\$000)

41

Pass through costs

42

Directly attributable

171

43

Not directly attributable

44

Total attributable to regulated service

171

45

Recoverable costs

46

Directly attributable

4,653

47

Not directly attributable

48

Total attributable to regulated service

4,653

49

50

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

51

(\$000)

52

Change in cost allocation 1

53

Cost category

N/A

Original allocation

54

Original allocator or line items

New allocation

55

New allocator or line items

Difference

-

-

56

57

Rationale for change

58

59

60

(\$000)

61

Change in cost allocation 2

62

Cost category

N/A

Original allocation

63

Original allocator or line items

New allocation

64

New allocator or line items

Difference

-

-

65

66

Rationale for change

67

68

69

(\$000)

70

Change in cost allocation 3

71

Cost category

N/A

Original allocation

72

Original allocator or line items

New allocation

73

New allocator or line items

Difference

-

-

74

75

Rationale for change

76

77

78

\* 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.

79

† include additional rows if needed

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

7	5e(i): Regulated Service Asset Values				
8			Value allocated		
9			(\$000s)		
10			Electricity distribution		
11			services		
12	Subtransmission lines				
13	Directly attributable		10,189		
14	Not directly attributable				
15	Total attributable to regulated service		10,189		
16	Subtransmission cables				
17	Directly attributable		1,414		
18	Not directly attributable				
19	Total attributable to regulated service		1,414		
20	Zone substations				
21	Directly attributable		15,265		
22	Not directly attributable				
23	Total attributable to regulated service		15,265		
24	Distribution and LV lines				
25	Directly attributable		27,229		
26	Not directly attributable				
27	Total attributable to regulated service		27,229		
28	Distribution and LV cables				
29	Directly attributable		7,555		
30	Not directly attributable				
31	Total attributable to regulated service		7,555		
32	Distribution substations and transformers				
33	Directly attributable		16,369		
34	Not directly attributable				
35	Total attributable to regulated service		16,369		
36	Distribution switchgear				
37	Directly attributable		7,943		
38	Not directly attributable				
39	Total attributable to regulated service		7,943		
40	Other network assets				
41	Directly attributable		1,627		
42	Not directly attributable				
43	Total attributable to regulated service		1,627		
44	Non-network assets				
45	Directly attributable		861		
46	Not directly attributable		2,556		
47	Total attributable to regulated service		3,417		
48	Regulated service asset value directly attributable		88,452		
49	Regulated service asset value not directly attributable		2,556		
50	Total closing RAB value		91,008		
51	5e(ii): Changes in Asset Allocations* †				
52				(\$000)	
53	Change in asset value allocation 1			CY-1	Current Year (CY)
54	Asset category		Original allocation		
55	Original allocator or line items		New allocation		
56	New allocator or line items		Difference	–	–
57					
58	Rationale for change				
59					
60					
61				(\$000)	
62	Change in asset value allocation 2			CY-1	Current Year (CY)
63	Asset category		Original allocation		
64	Original allocator or line items		New allocation		
65	New allocator or line items		Difference	–	–
66					
67	Rationale for change				
68					
69					
70				(\$000)	
71	Change in asset value allocation 3			CY-1	Current Year (CY)
72	Asset category		Original allocation		
73	Original allocator or line items		New allocation		
74	New allocator or line items		Difference	–	–
75					
76	Rationale for change				
77					
78					
79	* 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.				
80	† include additional rows if needed				

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

7	<b>6a(i): Expenditure on Assets</b>		(\$000)	(\$000)
8	Consumer connection			1,154
9	System growth			502
10	Asset replacement and renewal			2,586
11	Asset relocations			–
12	Reliability, safety and environment:			
13	Quality of supply	3,247		
14	Legislative and regulatory	79		
15	Other reliability, safety and environment	6		
16	<b>Total reliability, safety and environment</b>			3,332
17	<b>Expenditure on network assets</b>			7,574
18	Expenditure on non-network assets			1,090
19				
20	<b>Expenditure on assets</b>			8,664
21	plus Cost of financing			–
22	less Value of capital contributions			1,668
23	plus Value of vested assets			–
24				
25	<b>Capital expenditure</b>			6,996
26	<b>6a(ii): Subcomponents of Expenditure on Assets (where known)</b>			(\$000)
27	Energy efficiency and demand side management, reduction of energy losses			–
28	Overhead to underground conversion			–
29	Research and development			–
30	<b>6a(iii): Consumer Connection</b>			
31	Consumer types defined by EDB*		(\$000)	(\$000)
32	Independent Contract Customers - Large Commercial and Industrial		–	
33	Small Consumers - residential and commercial to 15kVA		912	
34	Medium Consumers - residential and commercial 16kVA to 50kVA		81	
35	Large Consumers - commercial and industrial 51kVA and above		162	
36				
37	* include additional rows if needed			
38	<b>Consumer connection expenditure</b>			1,154
39				
40	less Capital contributions funding consumer connection expenditure	254		
41	<b>Consumer connection less capital contributions</b>			900
42	<b>6a(iv): System Growth and Asset Replacement and Renewal</b>			
43				
44				
45	Subtransmission	85	34	
46	Zone substations	–	338	
47	Distribution and LV lines	168	1,785	
48	Distribution and LV cables	–	–	
49	Distribution substations and transformers	4	146	
50	Distribution switchgear	245	283	
51	Other network assets	–	–	
52	<b>System growth and asset replacement and renewal expenditure</b>	502	2,586	
53	less Capital contributions funding system growth and asset replacement and renewal	111	570	
54	<b>System growth and asset replacement and renewal less capital contributions</b>	391	2,016	
55				
56	<b>6a(v): Asset Relocations</b>			
57	Project or programme*		(\$000)	(\$000)
58			–	
59			–	
60			–	
61				
62				
63	* include additional rows if needed			
64	All other projects or programmes - asset relocations			
65	<b>Asset relocations expenditure</b>			–
66	less Capital contributions funding asset relocations	0		
67	<b>Asset relocations less capital contributions</b>			–

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

68				
69	<b>6a(vi): Quality of Supply</b>			
70	<i>Project or programme*</i>		(\$000)	(\$000)
71	F18 New Recloser on Solway Feeder		12	
72	F18 Replace Ohau 11kV Oil switches		32	
73	F18 TWZ/Kurow/Parsons RC Isolator		29	
74	F18 Replace 551 rel & unsafe Prot pan		30	
75	F18 Rural switchgear/protection		14	
76	F18 New Reclosers/Sectionalisers/TSW		57	
77	F18 Ferry Rd Fdr Upgrade Conductor		446	
78	F18 Pukeuri Zone sub Dual Tx Upgrade		1,150	
79	F18 Arc Flash Protection Zone Subs		41	
80	F18 New Technologies trial		181	
81	F17 Ohau Feeder rebuild (subject to SFE)		219	
82	F18 Duplicate 33kV DC-DC Power Supply		20	
83	F18 Replace 1x Rural 2 pole Tx Structure		46	
84	F18 Install new ABS's		118	
85	F17 Ohau Incomer and Bypass		5	
86	F18 Rebuild Waiareka Valley Rd		114	
87	F18 Ngapara 33kV CB to isolate Ngapara		58	
88	F18 Twizel to Omarama 33kV reinforcement		569	
89	F18 Radio Link upgrade		46	
90	F18 Backup Supplies for Radio Repeater		32	
91	F18 SEL2414 to replace REG-D		28	
92				
93				
94				
95	<i>* include additional rows if needed</i>			
96	All other projects programmes - quality of supply		–	
97	<b>Quality of supply expenditure</b>			3,247
98	less Capital contributions funding quality of supply		715	
99	<b>Quality of supply less capital contributions</b>			2,532
100	<b>6a(vii): Legislative and Regulatory</b>			
101	<i>Project or programme*</i>		(\$000)	(\$000)
102	F18 Distribution Box Replacements		79	
103				
104				
105				
106	<i>* include additional rows if needed</i>			
107	All other projects or programmes - legislative and regulatory			
108	<b>Legislative and regulatory expenditure</b>			79
109	less Capital contributions funding legislative and regulatory		18	
110	<b>Legislative and regulatory less capital contributions</b>			61
111	<b>6a(viii): Other Reliability, Safety and Environment</b>			
112	<i>Project or programme*</i>		(\$000)	(\$000)
113	Easement		6	
114				
115				
116				
117	<i>* include additional rows if needed</i>			
118	All other projects or programmes - other reliability, safety and environment			
119	<b>Other reliability, safety and environment expenditure</b>			6
120	less Capital contributions funding other reliability, safety and environment		–	
121	<b>Other reliability, safety and environment less capital contributions</b>			6
122				
123	<b>6a(ix): Non-Network Assets</b>			
124	<b>Routine expenditure</b>			
125	<i>Project or programme*</i>		(\$000)	(\$000)
126	Buildings and Fitout		301	
127	Computer Hardware		51	
128	Computer Software		72	
129	Office Equipment		7	
130	Plant and Equipment		120	
131	Vehicles		539	

Company Name

Network Waitaki Limited

For Year Ended

31 March 2018

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

132

133

\* include additional rows if needed

134

All other projects or programmes - routine expenditure

135

Routine expenditure

1,090

136

Atypical expenditure

137

Project or programme\*

(\$000)

(\$000)

138

N/A

-

139

140

141

142

143

\* include additional rows if needed

144

All other projects or programmes - atypical expenditure

145

Atypical expenditure

-

146

147

Expenditure on non-network assets

1,090



Company Name

Network Waitaki Limited

For Year Ended

31 March 2018

**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

		(\$000)	(\$000)
7	<b>6b(i): Operational Expenditure</b>		
8	Service interruptions and emergencies	484	
9	Vegetation management	441	
10	Routine and corrective maintenance and inspection	732	
11	Asset replacement and renewal	528	
12	<b>Network opex</b>		2,184
13	System operations and network support	1,417	
14	Business support	1,754	
15	<b>Non-network opex</b>		3,171
16			
17	<b>Operational expenditure</b>		5,355
18	<b>6b(ii): Subcomponents of Operational Expenditure (where known)</b>		
19	Energy efficiency and demand side management, reduction of energy losses		—
20	Direct billing*		—
21	Research and development		—
22	Insurance		91.7
23	* Direct billing expenditure by suppliers that directly bill the majority of their consumers		



Company Name

Network Waitaki Limited

For Year Ended

31 March 2018

**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**Target (\$000) <sup>1</sup> Actual (\$000) % variance

Line charge revenue

18,765

17,329

(8%)

**7(ii): Expenditure on Assets**Forecast (\$000) <sup>2</sup> Actual (\$000) % variance

Consumer connection

505

1,154

129%

System growth

2,300

502

(78%)

Asset replacement and renewal

1,545

2,586

67%

Asset relocations

–

–

Reliability, safety and environment:

Quality of supply

2,412

3,247

35%

Legislative and regulatory

50

79

58%

Other reliability, safety and environment

–

6

–

**Total reliability, safety and environment**

2,462

3,332

35%

**Expenditure on network assets**

6,812

7,574

11%

Expenditure on non-network assets

2,127

1,090

(49%)

Expenditure on assets

8,939

8,664

(3%)

**7(iii): Operational Expenditure**

Service interruptions and emergencies

304

484

59%

Vegetation management

400

441

10%

Routine and corrective maintenance and inspection

670

732

9%

Asset replacement and renewal

610

528

(13%)

**Network opex**

1,984

2,184

10%

System operations and network support

1,500

1,417

(6%)

Business support

2,180

1,754

(20%)

**Non-network opex**

3,680

3,171

(14%)

**Operational expenditure**

5,664

5,355

(5%)

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

Energy efficiency and demand side management, reduction of energy losses

n/a

–

–

Overhead to underground conversion

n/a

–

–

Research and development

n/a

–

–

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

Energy efficiency and demand side management, reduction of energy losses

n/a

–

–

Direct billing

n/a

–

–

Research and development

n/a

–

–

Insurance

84

92

9%

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

<sup>2</sup> 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)

Company Name  
For Year Ended  
Network / Sub-Network Name

Network Waitaki Limited
31 March 2018

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 these ICPs.

sch ref

8(i): Billed Quantities 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)	Average no. of ICPs in disclosure year	Energy delivered to ICPs in disclosure year (MWh)
RLC	Residential and Commercial	Standard	3,703	21,035
RLU	Residential and Commercial	Standard	553	2,287
15C	Residential and Commercial	Standard	4,851	41,396
15U	Residential and Commercial	Standard	1,633	7,629
30C	Residential and Commercial	Standard	212	2,647
30U	Residential and Commercial	Standard	463	4,430
50C	Residential and Commercial	Standard	153	4,773
50U	Residential and Commercial	Standard	621	18,073
100	Commercial and Industrial	Standard	338	29,768
200	Commercial and Industrial	Standard	118	17,753
300	Commercial and Industrial	Standard	49	9,299
500	Commercial and Industrial	Standard	23	11,587
750	Commercial and Industrial	Standard	9	4,799
IND	Large Commercial and Industrial	Non-standard	88	76,850
		[Select one]		
		[Select one]		
		[Select one]		

Add extra rows for additional consumer groups or price category codes as necessary

Standard consumer totals	12,726	175,476
Non-standard consumer totals	88	76,850
Total for all consumers	12,814	252,326

Unit charging basis (eg, days, kW of demand, kVA of capacity, etc.)

Price component

Billed quantities by price component

Distribution Fixed	Distribution Variable Day	Distribution Variable Night	Transmission Fixed	Transmission Variable Day	Transmission Variable Night	IND Distribution	IND Transmission	IND Distribution	IND Transmission
ICP	MWh	MWh	ICP	MWh	MWh	MVA	MVA	Anytime MW	Anytime MW
3,702	15,094	5,941	3,702	15093.79094	5940.81651				
552	1,766	521	552	1766.3068	520.92071				
4,847	29,396	12,000	4,847	29396.24432	12000.21915				
1,632	6,075	1,554	1,632	6075.48412	1553.53613				
212	1,941	706	212	1940.74396	705.79995				
463	3,416	1,014	463	3415.7406	1013.94847				
153	3,556	1,217	153	3556.14424	1217.27784				
620	13,679	4,393	620	13679.47406	4393.11267				
337	21,330	8,438	337	21330.42564	8437.9552				
118	12,920	4,832	118	12920.2297	4832.28564				
49	6,956	2,343	49	6956.1922	2342.93608				
23	7,605	3,982	23	7605.3179	3982.13534				
9	2,930	1,869	9	2930.03546	1869.27569				
62			62			29	29	14	14
12,717	126,666	48,810	12,717	126,666	48,810	29	29	14	14
62	-		62	-	-			-	-
12,779	126,666	48,810	12,779	126,666	48,810	29	29	14	14

Add extra columns for additional billed quantities by price component as necessary

Company Name  
For Year Ended  
Network / Sub-Network Name

Network Waitaki Limited
31 March 2018

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 these ICPs.

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	Notional revenue foregone from posted discounts (if applicable)
RLC	Residential and Commercial	Standard	\$1,710	
RLU	Residential and Commercial	Standard	\$235	
15C	Residential and Commercial	Standard	\$3,463	
15U	Residential and Commercial	Standard	\$990	
30C	Residential and Commercial	Standard	\$234	
30U	Residential and Commercial	Standard	\$488	
50C	Residential and Commercial	Standard	\$386	
50U	Residential and Commercial	Standard	\$1,574	
100	Commercial and Industrial	Standard	\$2,257	
200	Commercial and Industrial	Standard	\$1,368	
300	Commercial and Industrial	Standard	\$733	
500	Commercial and Industrial	Standard	\$791	
750	Commercial and Industrial	Standard	\$316	
IND	Large Commercial and Industrial	Non-standard	\$2,784	
			-	
			-	
			-	

Add extra rows for additional consumer groups or price category codes as necessary

Standard consumer totals	\$14,545	-
Non-standard consumer totals	\$2,784	-
Total for all consumers	\$17,329	-

Total distribution line charge revenue	Total transmission line charge revenue (if available)
\$1,136	\$574
\$137	\$98
\$2,382	\$1,080
\$625	\$365
\$147	\$87
\$288	\$200
\$255	\$131
\$1,018	\$556
\$1,507	\$750
\$915	\$452
\$491	\$242
\$537	\$255
\$212	\$104
\$1,256	\$1,529

Rate (eg. \$ per day, \$ per kWh, etc.)

Line charge revenues (\$000) by price component

Distribution Fixed after discount	Distribution Variable Day	Distribution Variable Night	Transmission Fixed	Transmission Variable Day	Transmission Variable Night	IND Distribution	IND Transmission	IND Distribution	IND Transmission	IND Distribution Fixed	IND Transmission Fixed
ICP	MWh	MWh	ICP	MWh	MWh	kVA	kVA	kW	kW		
(131)	1,219	48	74	480	19						
(10)	143	4	11	79	8						
396	1,900	87	199	844	38						
222	393	11	185	174	5						
16	126	5	29	56	2						
60	221	7	99	98	3						
16	230	9	25	102	4						
104	882	32	150	392	14						
55	1,391	61	105	618	27						
37	844	35	62	375	15						
20	454	17	33	202	7						
13	495	29	23	220	13						
8	191	14	13	85	6					\$101	\$382
						\$ 651.19	\$ 765.56	\$ 503.32	\$ 380.55		

\$806	\$8,487	\$359	\$1,008	\$3,724	\$161	-	-	-	-	\$101	\$382
-	-	-	-	-	-	\$651	\$766	\$503	\$381	-	-
\$806	\$8,487	\$359	\$1,008	\$3,724	\$161	\$651	\$766	\$503	\$381	\$101	\$382

8(iii): Number of ICPs directly billed

Number of directly billed ICPs at year end

Check

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018
Network / Sub-network Name	Network Waitaki

**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

					Items at start of year (quantity)	Items at end of year (quantity)	Net change	Data accuracy (1-4)
8	Voltage	Asset category	Asset class	Units				
9	All	Overhead Line	Concrete poles / steel structure	No.	8,722	8,902	180	3
10	All	Overhead Line	Wood poles	No.	12,815	12,954	139	3
11	All	Overhead Line	Other pole types	No.	133	135	2	3
12	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	217	217	-	3
13	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	N/A
14	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	4	4	-	2
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	N/A
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	N/A
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	N/A
18	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	N/A
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	N/A
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	N/A
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	N/A
22	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	N/A
23	HV	Zone substation Buildings	Zone substations up to 66kV	No.	18	18	-	1
24	HV	Zone substation Buildings	Zone substations 110kV+	No.	1	1	-	1
25	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	N/A
26	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	1	1	-	1
27	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	N/A
28	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	105	107	2	3
29	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	N/A
30	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	11	11	-	1
31	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	36	42	6	3
32	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	69	79	10	1
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	3	3	-	1
34	HV	Zone Substation Transformer	Zone Substation Transformers	No.	23	23	-	1
35	HV	Distribution Line	Distribution OH Open Wire Conductor	km	1,243	1,259	16	3
36	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	N/A
37	HV	Distribution Line	SWER conductor	km	-	-	-	N/A
38	HV	Distribution Cable	Distribution UG XLPE or PVC	km	58	61	3	2
39	HV	Distribution Cable	Distribution UG PILC	km	15	15	-	2
40	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	N/A
41	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	49	52	3	2
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	N/A
43	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	3,567	3,722	155	3
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	N/A
45	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	182	186	4	3
46	HV	Distribution Transformer	Pole Mounted Transformer	No.	2,349	2,352	3	3
47	HV	Distribution Transformer	Ground Mounted Transformer	No.	516	516	-	2
48	HV	Distribution Transformer	Voltage regulators	No.	9	11	2	1
49	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	N/A
50	LV	LV Line	LV OH Conductor	km	235	235	0	3
51	LV	LV Cable	LV UG Cable	km	105	106	1	3
52	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	85	87	2	4
53	LV	Connections	OH/UG consumer service connections	No.	15,483	15,601	118	3
54	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	145	158	13	2
55	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	1	1	-	1
56	All	Capacitor Banks	Capacitors including controls	No	2	2	-	1
57	All	Load Control	Centralised plant	Lot	3	3	-	1
58	All	Load Control	Relays	No	9,669	9,669	-	2
59	All	Civils	Cable Tunnels	km	-	-	-	N/A

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018
Network / Sub-network Name	Network Waitaki

### SCHEDULE 9b: ASSET AGE PROFILE

This schedule requires a summary of the age profile (based on year of installation) of the 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.

Sl. no.	Discipline	Disclosure Year (year ended)	31 March 2018	Number of assets at disclosure year end by installation date																																	No. with age unknown	Items at end of year (quantity)	No. with default dates	Data accuracy (1-4)
				Units	pre-1940	1940-1949	1950-1959	1960-1969	1970-1979	1980-1989	1990-1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018										
9	Voltage	Asset category	Asset class	Units	No.	2	10	195	1,031	774	480	97	2	33	15	22	25	18	35	13	13	12	8	6	13	26	81	173	87	314	180	5,227	6,902	3						
10	All	Overhead Line	Concrete poles / steel structure	No.	-	-	-	124	1,111	1,200	917	294	68	56	141	106	194	261	521	322	574	135	233	362	241	233	143	158	500	318	139	4,603	12,954	3						
11	All	Overhead Line	Wood poles	No.	-	-	-	-	15	27	15	3	-	1	1	3	7	2	2	7	1	1	-	-	1	3	2	2	2	2	2	26	135	3						
12	All	Overhead Line	Other pole types	No.	-	-	-	-	40	18	-	0	32	-	-	-	-	11	22	0	6	3	10	14	-	0	-	-	30	11	-	37	217	3						
13	HV	Subtransmission Line	Subtransmission OH up to 66kV conductor	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
14	HV	Subtransmission Line	Subtransmission OH 110kV+ conductor	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
15	HV	Subtransmission Cable	Subtransmission UG up to 66kV (XLPE)	km	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	0	1	0	0	-	0	-	-	0	0	-	0	4	2							
16	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Oil pressurised)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
17	HV	Subtransmission Cable	Subtransmission UG up to 66kV (Gas pressurised)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
18	HV	Subtransmission Cable	Subtransmission UG up to 66kV (PILC)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
19	HV	Subtransmission Cable	Subtransmission UG 110kV+ (XLPE)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
20	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Oil pressurised)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
21	HV	Subtransmission Cable	Subtransmission UG 110kV+ (Gas Pressurised)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
22	HV	Subtransmission Cable	Subtransmission UG 110kV+ (PILC)	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
23	HV	Subtransmission Cable	Subtransmission submarine cable	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
24	HV	Zone substation Buildings	Zone substations up to 66kV	No.	-	-	-	3	6	1	-	-	-	-	-	-	1	1	-	1	-	-	1	-	1	-	2	-	1	-	-	18	1							
25	HV	Zone substation Buildings	Zone substations 110kV+	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	0	-	-	-	-	-	-	-	-	1	1							
26	HV	Zone substation switchgear	50/66/110kV CB (Indoor)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
27	HV	Zone substation switchgear	50/66/110kV CB (Outdoor)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1							
28	HV	Zone substation switchgear	33kV Switch (Ground Mounted)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
29	HV	Zone substation switchgear	33kV Switch (Pole Mounted)	No.	-	-	-	-	-	2	14	6	-	6	1	-	1	-	7	6	18	1	1	6	-	5	1	-	4	4	2	20	107	3						
30	HV	Zone substation switchgear	33kV RMU	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
31	HV	Zone substation switchgear	22/33kV CB (Indoor)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	11	1							
32	HV	Zone substation switchgear	22/33kV CB (Outdoor)	No.	-	-	-	-	4	-	1	-	3	-	-	-	2	-	-	-	1	-	2	-	3	2	2	3	2	6	11	42	3							
33	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (ground mounted)	No.	-	-	-	10	13	2	-	-	3	-	-	-	2	-	9	-	-	20	-	-	1	-	8	4	10	-	-	79	1							
34	HV	Zone substation switchgear	3.3/6.6/11/22kV CB (pole mounted)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1							
35	HV	Zone Substation Transformer	Zone Substation Transformers	No.	-	-	-	1	8	-	2	-	-	-	-	-	-	-	-	-	2	1	-	2	-	3	-	-	-	-	-	23	1							
36	HV	Distribution Line	Distribution OH Open Wire Conductor	km	-	-	25	71	236	253	218	41	9	7	9	8	17	9	38	25	54	15	31	17	13	19	17	21	24	36	16	32	1,299	3						
37	HV	Distribution Line	Distribution OH Aerial Cable Conductor	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
38	HV	Distribution Line	SWER conductor	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
39	HV	Distribution Cable	Distribution UG XLPE or PVC	km	-	-	-	-	-	-	-	4	2	1	2	1	1	1	5	3	2	1	6	1	1	1	4	9	5	4	3	3	61	2						
40	HV	Distribution Cable	Distribution UG PILC	km	-	-	-	0	4	6	3	1	0	0	-	-	-	0	-	0	0	-	-	-	-	-	-	-	-	-	-	15	2							
41	HV	Distribution Cable	Distribution Submarine Cable	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
42	HV	Distribution switchgear	3.3/6.6/11/22kV CB (pole mounted) - reclosers and sectionalisers	No.	-	-	-	-	-	2	1	6	1	4	5	1	3	-	-	-	-	-	2	-	2	4	2	6	3	6	3	1	52	2						
43	HV	Distribution switchgear	3.3/6.6/11/22kV CB (Indoor)	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
44	HV	Distribution switchgear	3.3/6.6/11/22kV Switches and fuses (pole mounted)	No.	-	-	5	19	144	271	484	337	41	59	139	106	104	94	116	127	161	172	154	178	146	129	128	163	150	143	121	29	3,722	3						
45	HV	Distribution switchgear	3.3/6.6/11/22kV Switch (ground mounted) - except RMU	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
46	HV	Distribution switchgear	3.3/6.6/11/22kV RMU	No.	-	-	-	-	-	-	10	5	3	3	6	-	16	4	-	-	22	12	4	25	1	-	21	-	4	3	4	41	196	3						
47	HV	Distribution Transformer	Pole Mounted Transformer	No.	-	-	1	11	123	368	450	309	34	39	62	56	40	48	88	83	67	72	38	78	53	38	69	60	72	33	3	18	2,352	3						
48	HV	Distribution Transformer	Ground Mounted Transformer	No.	-	-	-	2	6	46	38	47	9	13	17	18	21	17	36	17	22	31	20	17	4	23	44	13	13	9	-	33	516	2						
49	HV	Distribution Transformer	Voltage regulators	No.	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	2	1	1	-	3	-	-	2	1	1						
50	HV	Distribution Substations	Ground Mounted Substation Housing	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							
51	LV	LV Line	LV OH Conductor	km	-	-	-	1	19	33	26	8	1	1	1	0	1	1	0	1	0	0	0	0	0	6	1	6	0	0	0	139	236	3						
52	LV	LV Cable	LV UG Cable	km	-	-	-	-	1	6	7	8	1	1	1	2	3	3	5	3	5	3	5	2	2	1	3	2	5	6	1	31	106	3						
53	LV	LV Street lighting	LV OH/UG Streetlight circuit	km	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	7	1	0	0	2	0	-	0	1	-	-	-	72	87	4						
54	LV	Connections	OHUG consumer service connections	No.	-	13	106	1,578	3,531	3,595	1,673	74	86	123	118	143	130	212	206	239	252	142	126	123	151	179	149	189	193	116	2,149	15,601	3							
55	All	Protection	Protection relays (electromechanical, solid state and numeric)	No.	-	-	-	-	-	-	-	7	8	-	-	-	7	-	17	14	4	19	-	1	2	-	-	11	6	13	49	158	2							
56	All	SCADA and communications	SCADA and communications equipment operating as a single system	Lot	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1							
57	All	Capacitor Banks	Capacitors including controls	No.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	2	1							
58	All	Load Control	Centralised plant	Lot	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1							
59	All	Load Control	Relays	No.	-	-	-	-	-	-	-	805	884	929	1,017	629	792	1,234	582	619	478	483	352	488	83	63	71	92	24	-	-	44	9,669	2						
60	All	Civils	Cable Tunnels	km	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A							



Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

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

		Number of ICPs served	Line charge revenue (\$000)
8	Location *		
9	No embedded networks operate within the Network Waitaki network area or are operated elsewhere by Network Waitaki.		
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		Network Waitaki Limited	
For Year Ended		31 March 2018	
Network / Sub-network Name		Network Waitaki	

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

10

Consumer types defined by EDB\*

11

Individual Contract customers - large commercial and industrial

12

Small customers - residential and commercial to 15kVA

13

Medium customers - residential and commercial 16kVA to 50kVA

14

Large customers - commercial and industrial 51kVA and above

15

16

17

Connections total

18

19

Distributed generation

20

Number of connections made in year

21

Capacity of distributed generation installed in year

22

9e(ii): System Demand

23

24

25

Maximum coincident system demand

26

GXP demand

27

plus Distributed generation output at HV and above

28

Maximum coincident system demand

29

less Net transfers to (from) other EDBs at HV and above

30

Demand on system for supply to consumers' connection points

31

Electricity volumes carried

32

Electricity supplied from GXPs

33

less Electricity exports to GXPs

34

plus Electricity supplied from distributed generation

35

less Net electricity supplied to (from) other EDBs

36

Electricity entering system for supply to consumers' connection points

37

less Total energy delivered to ICPs

38

Electricity losses (loss ratio)

39

40

Load factor

41

9e(iii): Transformer Capacity

42

43

Distribution transformer capacity (EDB owned)

44

Distribution transformer capacity (Non-EDB owned, estimated)

45

Total distribution transformer capacity

46

47

Zone substation transformer capacity

Number of connections (ICPs)

-

124

12

22

158

8 connections

0.04 MVA

Demand at time of maximum coincident demand (MW)

65

65

65

Energy (GWh)

265

0

0.24

265

252

13

4.9%

0.47

(MVA)

212

11

223

217



Company Name	Network Waitaki Limited
For Year Ended	31 March 2018
Network / Sub-network Name	Network Waitaki

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)	1
11	Class B (planned interruptions on the network)	209
12	Class C (unplanned interruptions on the network)	167
13	Class D (unplanned interruptions by Transpower)	–
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)	–
19	Total	377
20		
21	Interruption restoration	≤3Hrs>3hrs
22	Class C interruptions restored within	13235
23		
24	SAIFI and SAIDI by class	SAIFI SAIDI
25	Class A (planned interruptions by Transpower)	0.00010.02
26	Class B (planned interruptions on the network)	0.3177.36
27	Class C (unplanned interruptions on the network)	1.3957.83
28	Class D (unplanned interruptions by Transpower)	––
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)	––
34	Total	1.70135.21
35		
36	Normalised SAIFI and SAIDI	Normalised SAIFINormalised SAIDI
37	Classes B & C (interruptions on the network)	1.70135.19
38		
39	Quality path normalised reliability limit	SAIFI reliability limitSAIDI reliability limit
40	SAIFI and SAIDI limits applicable to disclosure year*	––
41	* not applicable to exempt EDBs	

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018
Network / Sub-network Name	Network Waitaki

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	0.0002	0.01
Vegetation	0.14	14.75
Adverse weather	0.01	1.13
Adverse environment	0.00	0.00
Third party interference	0.09	7.76
Wildlife	0.06	4.08
Human error	0.04	1.26
Defective equipment	0.96	26.57
Cause unknown	0.09	2.25

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.0003	0.18
Subtransmission cables	–	–
Subtransmission other	–	–
Distribution lines (excluding LV)	0.30	76.89
Distribution cables (excluding LV)	0.00	0.29
Distribution other (excluding LV)	–	–

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

Main equipment involved	SAIFI	SAIDI
Subtransmission lines	0.04	2.32
Subtransmission cables	0.002	0.20
Subtransmission other	0.00	0.00
Distribution lines (excluding LV)	1.18	48.13
Distribution cables (excluding LV)	0.17	7.18
Distribution other (excluding LV)	–	–

10(v): Fault Rate

Main equipment involved	Number of Faults	Circuit length (km)	Fault rate (faults per 100km)
Subtransmission lines	2	217	0.92
Subtransmission cables	1	4	25.00
Subtransmission other	–		
Distribution lines (excluding LV)	161	1,259	12.79
Distribution cables (excluding LV)	3	75	4.00
Distribution other (excluding LV)	–		
Total	167		

Company Name Network Waitaki Limited

For Year Ended 31 March 2018

## **Schedule 14      Mandatory Explanatory Notes**

1. This schedule requires EDBs to provide explanatory notes to information provided in accordance with clauses 2.3.1, 2.4.21, 2.4.22, and subclauses 2.5.1(1)(f), and 2.5.2(1)(e).
2. This schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.1. Information provided in boxes 1 to 12 of this schedule is part of the audited disclosure information, and so is subject to the assurance requirements specified in section 2.8.
3. Schedule 15 (Voluntary Explanatory Notes to Schedules) provides for EDBs to give additional explanation of disclosed information should they elect to do so.

### *Return on Investment (Schedule 2)*

4. In the box below, comment on return on investment as disclosed in Schedule 2. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 1: Explanatory comment on return on investment**

Network Waitaki Limited's Return on Investment of 3.68% is below the 25<sup>th</sup> percentile WACC estimate of 4.36%.

This reflects a reasonable return on investment for its shareholders, the electricity consumers in the Waitaki District.

No items have been reclassified.

*Regulatory Profit (Schedule 3)*

5. In the box below, comment on regulatory profit for the disclosure year as disclosed in Schedule 3. This comment must include-
- 5.1 a description of material items included in other regulated income (other than gains / (losses) on asset disposals), as disclosed in 3(i) of Schedule 3
  - 5.2 information on reclassified items in accordance with subclause 2.7.1(2).

**Box 2: Explanatory comment on regulatory profit**

Other regulated income was nil.

No items have been reclassified this year.

*Merger and acquisition expenses (3(iv) of Schedule 3)*

6. If the EDB incurred merger and acquisitions expenditure during the disclosure year, provide the following information in the box below-
- 6.1 information on reclassified items in accordance with subclause 2.7.1(2)
  - 6.2 any other commentary on the benefits of the merger and acquisition expenditure to the EDB.

**Box 3: Explanatory comment on merger and acquisition expenditure**

No merger and acquisition expenditure this year.

*Value of the Regulatory Asset Base (Schedule 4)*

7. In the box below, comment on the value of the regulatory asset base (rolled forward) in Schedule 4. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 4: Explanatory comment on the value of the regulatory asset based (rolled forward)**

The roll forward of Network Waitaki Limited's regulatory asset base was done using standard procedures. No items were reclassified this year.

Assets commissioned were slightly lower this year (\$7,130k) compared to last year (\$7,347k).

*Regulatory tax allowance: disclosure of permanent differences (5a(i) of Schedule 5a)*

8. In the box below, provide descriptions and workings of the material items recorded in the following asterisked categories of 5a(i) of Schedule 5a-

8.1 Income not included in regulatory profit / (loss) before tax but taxable;

8.2 Expenditure or loss in regulatory profit / (loss) before tax but not deductible;

8.3 Income included in regulatory profit / (loss) before tax but not taxable;

8.4 Expenditure or loss deductible but not in regulatory profit / (loss) before tax.

**Box 5: Regulatory tax allowance: permanent differences**

Expenditure or loss in regulatory profit / (loss) before tax but not deductible of \$9K is from entertainment expenses and \$167k is from legal and consulting expenses incurred by Network Waitaki Limited.

*Regulatory tax allowance: disclosure of temporary differences (5a(vi) of Schedule 5a)*

9. In the box below, provide descriptions and workings of material items recorded in the asterisked category 'Tax effect of other temporary differences' in 5a(vi) of Schedule 5a.

**Box 6: Tax effect of other temporary differences (current disclosure year)**

Temporary differences are the tax effect of the difference between the tax and information disclosure treatment of capital contribution income. This amounts to \$360k depicted in Schedule 5a(vi) 'Tax effect of other temporary differences', which is made up of the Tax effect of \$357k as shown in the table 1 below, plus a further \$3k for provisions shown in table 2.

Table 1: derivation of \$357K Tax effect.

Capital contributions	2012	2013	2014	2015	2016	2017	2018	Total remaining
624,770	- 62,477	- 62,477	- 62,477	- 62,477	- 62,477	- 62,477	- 62,477	187,431
1,127,130	-	- 112,713	- 112,713	- 112,713	- 112,713	- 112,713	- 112,713	450,852
1,459,780		-	- 145,978	- 145,978	- 145,978	- 145,978	- 145,978	729,890
3,362,030			-	- 336,203	- 336,203	- 336,203	- 336,203	2,017,218
2,480,806				-	- 248,081	- 248,081	- 248,081	1,736,563
2,034,517					-	- 203,452	- 203,452	1,627,613
1,667,619						-	- 166,762	1,500,857
12,756,652	- 62,477	- 175,190	- 321,168	- 657,371	- 905,452	- 1,108,904	- 1,275,666	8,250,425
	28%	28%	28%	28%	28%	28%	28%	
	17	49	90	184	254	310	357	

Table 2: derivation of (\$10K) in provisions for leave etc.

Movement in provisions	Opening	Closing	Movement		
Annual Leave	(449,015)	(446,311)	(2,704)		
63 day adjustment	74,154	58,641	15,513		
ACC	(18,555)	(14,979)	(3,576)		
Doubtful debts	(39,042)	(34,663)	(4,379)		
Long service leave	(101,586)	(105,542)	3,956		
Gratuity	(112,663)	(114,317)	1,654		
Total	(646,708)	(657,171)	10,463	28%	3

*Related party transactions: disclosure of related party transactions (Schedule 5b)*

10. In the box below, provide descriptions of related party transactions beyond those disclosed on Schedule 5b including identification and descriptions as to the nature of directly attributable costs disclosed under subclause 2.3.6(1)(b).

**Box 7: Related party transactions**

Network Waitaki had no related party transactions in the year ending 31 March 2018.

Whitestone Contracting Limited was related to Network Waitaki Limited through its director, John Walker, who also held a directorship at Whitestone Contracting Limited up until 31/12/16.

*Cost allocation (Schedule 5d)*

11. In the box below, comment on cost allocation as disclosed in Schedule 5d. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 8: Cost allocation**

The Business Support operational expenditure category has costs that are not directly attributable. These include:

- Labour
- ACC
- Professional Subscriptions
- Training
- Computers
- Communications
- Audit
- Apparel
- Bank Fees
- Directors' Expenses
- Printing and Stationery
- Travel, Accommodation & meals
- Vehicle Operating Costs
- Premises
- Legal
- Consulting

ABAA was used as the allocation methodology in Business Support. A proxy cost allocator has been used for Business support. No items were reclassified.



*Asset allocation (Schedule 5e)*

12. In the box below, comment on asset allocation as disclosed in Schedule 5e. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 9: Commentary on asset allocation**

The Non-network asset category has costs that are not directly attributable.

These include: Building & Fit-out, Office Equipment, Computers, Software, Motor Vehicles, Plant & Equipment, Generator.

The allocation methodology used in all cases is ABAA.

A proxy cost allocator has been used in all cases.

No items were reclassified this year.

*Capital Expenditure for the Disclosure Year (Schedule 6a)*

13. In the box below, comment on expenditure on assets for the disclosure year, as disclosed in Schedule 6a. This comment must include-
- 13.1 a description of the materiality threshold applied to identify material projects and programmes described in Schedule 6a;
- 13.2 information on reclassified items in accordance with subclause 2.7.1(2),

**Box 10: Explanation of capital expenditure for the disclosure year**

No items have been reclassified this year.

No materiality threshold was applied. Projects as outlined in the network system reporting schedule were reported.

The main criteria to determine if expenditure is capitalised / commissioned is:

- a new asset; or
- whether the expense improves the asset value / life of the asset

*Operational Expenditure for the Disclosure Year (Schedule 6b)*

14. In the box below, comment on operational expenditure for the disclosure year, as disclosed in Schedule 6b. This comment must include-
- 14.1 Commentary on assets replaced or renewed with asset replacement and renewal operational expenditure, as reported in 6b(i) of Schedule 6b;
  - 14.2 Information on reclassified items in accordance with subclause 2.7.1(2);
  - 14.3 Commentary on any material atypical expenditure included in operational expenditure disclosed in Schedule 6b, a including the value of the expenditure the purpose of the expenditure, and the operational expenditure categories the expenditure relates to.

**Box 11: Explanation of operational expenditure for the disclosure year**

No items have been reclassified this year.

*Variance between forecast and actual expenditure (Schedule 7)*

15. In the box below, comment on variance in actual to forecast expenditure for the disclosure year, as reported in Schedule 7. This comment must include information on reclassified items in accordance with subclause 2.7.1(2).

**Box 12: Explanatory comment on variance in actual to forecast expenditure**

**Capital Expenditure**

**Consumer Connection:** - The forecast was based on historical trends and economic data available at the time of preparing the forecast. Network Waitaki traditionally takes a conservative view when forecasting rather than overstating forward work.

**System Growth:** Actual expenditure was less than the forecast. This was due to two main factors, namely: deferral of substation build due to customer development timing and three projects related to customer work did not eventuate.

**Asset Replacement & Renewal:** - Expenditure was significantly higher than forecast due to higher than budgeted pole replacements driven from changes to inspection processes.

**Reliability, Safety, and Environment:** - Network Waitaki has carried out some work in all RSE budget areas. There were a couple of unplanned projects that developed during the year and could not wait for next year due to urgency.

**Operational Expenditure**

**Service interruptions and emergencies:** Service interruptions and emergencies were higher than forecast. Network Waitaki has no control over the actual spend in this budget area, as there is no option to not respond to a service interruption. The amount of work in this area is highly dependent on unpredictable external events such as weather and vehicle incidents.

**Vegetation management:** Expenditure was similar to the forecast in this area.

**Routine and corrective maintenance and inspection:** Actual expenditure was similar to the forecast in this area.

**Asset replacement and renewal:** Actual expenditure was lower than the forecast. Where possible asset replacement is capitalised.

*Information relating to revenues and quantities for the disclosure year*

16. In the box below provide-

- 16.1 a comparison of the target revenue disclosed before the start of the disclosure year, in accordance with clause 2.4.1 and subclause 2.4.3(3) to total billed line charge revenue for the disclosure year, as disclosed in Schedule 8; and
- 16.2 explanatory comment on reasons for any material differences between target revenue and total billed line charge revenue.

**Box 13: Explanatory comment relating to revenue for the disclosure year**

Actual revenue was 8% less than the target. A contributing factor was the lower than expected volumes due to it being a wet year with less irrigation demand. Network Waitaki normally uses an average of three years' volume data as budgeted volume for the following year.

Network Waitaki bills on GXP volumes. Network Waitaki operates a GXP (grid exit point) pricing methodology. Schedule 8 requires the reporting of energy delivered to ICPs and the billed quantities by price component. Under the GXP pricing methodology, the actual energy delivered to ICPs differs from the chargeable kWh quantities detailed in the billed quantities section of Schedule 8, which are based on GXP quantities delivered. Network Waitaki uses volumes reconciled at each GXP to determine billable charges. Consequently, Network Waitaki is reliant on the accuracy and completeness of information supplied to it by retailers for the measurement of electricity delivered to customers.

*Network Reliability for the Disclosure Year (Schedule 10)*

17. In the box below, comment on network reliability for the disclosure year, as disclosed in Schedule 10.

**Box 14: Commentary on network reliability for the disclosure year**

Network Waitaki Limited continues to achieve high reliability on its network.

SAIDI and SAIFI Indexes are affected as Network Waitaki, in line with the Health and Safety at Work Act 2015, require risk assessments for any live line work.

Network Waitaki has limited ability to independently verify its network reliability information. SCADA switching times are only available for larger outages. For smaller outages the information is derived from consumer reports and fault documentation. These limitations are included in the network reliability information required to be disclosed in Reports 10(i) to 10(iv).

Network Waitaki has improved its outage recording process which has led to a more intense focus on outage categorisation and thus relative large changes in some categories from last year.

*Insurance cover*

18. In the box below, provide details of any insurance cover for the assets used to provide electricity distribution services, including-

18.1 The EDB's approaches and practices in regard to the insurance of assets used to provide electricity distribution services, including the level of insurance;

18.2 In respect of any self-insurance, the level of reserves, details of how reserves are managed and invested, and details of any reinsurance.

**Box 15: Explanation of insurance cover**

Network Waitaki Limited insures its vehicles and buildings (including substations) and has public liability insurance. It does not insure its network, e.g. poles and lines, as the premiums to do so are exorbitant.

*Amendments to previously disclosed information*

19. In the box below, provide information about amendments to previously disclosed information disclosed in accordance with clause 2.12.1 in the last 7 years, including:
- 19.1 a description of each error; and
  - 19.2 for each error, reference to the web address where the disclosure made in accordance with clause 2.12.1 is publicly disclosed.

**Box 16: Disclosure of amendment to previously disclosed information**

No material errors identified.

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

## **Schedule 14a      Mandatory Explanatory Notes on Forecast Information**

1. This Schedule requires EDBs to provide explanatory notes to reports prepared in accordance with clause 2.6.6.
2. This Schedule is mandatory—EDBs must provide the explanatory comment specified below, in accordance with clause 2.7.2. This information is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.

### *Commentary on difference between nominal and constant price capital expenditure forecasts (Schedule 11a)*

3. In the box below, comment on the difference between nominal and constant price capital expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11a.

#### **Box 1: Commentary on difference between nominal and constant price capital expenditure forecasts**

Network Waitaki Limited has consistent with previous years used predictions for CPI as extracted from the Reserve Bank of New Zealand Monetary Policy Statement.

For CY+1 no CPI adjustment has been made. From CY+2 to CY+10 a CPI forecast of 2.0 was used as projected for 2020.

### *Commentary on difference between nominal and constant price operational expenditure forecasts (Schedule 11b)*

4. In the box below, comment on the difference between nominal and constant price operational expenditure for the current disclosure year and 10 year planning period, as disclosed in Schedule 11b.

#### **Box 2: Commentary on difference between nominal and constant price operational expenditure forecasts**

Network Waitaki Limited has consistent with previous years used predictions for CPI as extracted from the Reserve Bank of New Zealand Monetary Policy Statement.

For CY+1 no CPI adjustment has been made. From CY+2 to CY+10 a CPI forecast of 2.0 was used as projected for 2020.

Company Name	Network Waitaki Limited
For Year Ended	31 March 2018

## Schedule 15      Voluntary Explanatory Notes

1. This schedule enables EDBs to provide, should they wish to-
  - 1.1 additional explanatory comment to reports prepared in accordance with clauses 2.3.1, 2.4.21, 2.4.22, 2.5.1 and 2.5.2;
  - 1.2 information on any substantial changes to information disclosed in relation to a prior disclosure year, as a result of final wash-ups.
2. Information in this schedule is not part of the audited disclosure information, and so is not subject to the assurance requirements specified in section 2.8.
3. Provide additional explanatory comment in the box below.

**Box 1: Voluntary explanatory comment on disclosed information**

**Schedules 9a, 9b**

Improvement in GIS accuracy and a review of data have led to corrections in age profiles and therefore the items (quantity) at the start of this disclosure year may differ from the items (quantity) at the end of the previous disclosure year.

**Schedule 9c**

Improvement in GIS accuracy and a review of data have led to corrections.

Line length within 10km of coastline was recalculated using the new GIS system.

**Overhead circuit requiring vegetation management.** The methodology used was to report on the length of line that Network Waitaki carried out work on.



**Certification for Year-End Disclosures**

**Pursuant to Schedule 18**

**Clause 2.9.2 of section 2.9**

**Electricity Distribution Information Disclosure Determination 2012**

We, Messer's C.J. Dennison & A.J. Wood, being directors of Network Waitaki Limited certify that, having made all reasonable enquiry, to the best of our knowledge:

- a) the information prepared for the purposes of clauses 2.3.1 and 2.3.2; and clauses 2.4.21 and 2.4.22; clauses 2.5.1 and 2.5.2; and clauses 2.7.1 and 2.7.2 of the Electricity Distribution Information Disclosure Determination 2012 in all material respects complies with that determination; and
- b) the historical information used in the preparation of Schedules 8, 9a, 9b, 9c, 9d, 9e, 10, 14a, and 14b has been properly extracted from Network Waitaki Limited's accounting and other records sourced from its financial and non-financial systems, and that sufficient appropriate records have been retained.

In respect of related party costs and revenues recorded in accordance with clauses 2.3.6(1) (when valued in accordance with clause 2.2.11(5)(h)(ii) of the Electricity Distribution Services Input methodologies Determination 2010), we certify that, having made all reasonable enquiry, including enquiries of our related parties, we are satisfied that to the best of our knowledge and belief the costs and revenues recorded for related party transactions reasonably reflect the price or prices that would have been paid or received had these transactions been at arm's-length.

  
\_\_\_\_\_  
**C.J. Dennison**

Date: 27/8/18

  
\_\_\_\_\_  
**A.J. Wood**

Date: 27/8/18



## **INDEPENDENT ASSURANCE REPORT TO THE DIRECTORS OF NETWORK WAITAKI LIMITED AND THE COMMERCE COMMISSION**

The Auditor-General is the auditor of Network Waitaki Limited (the company). The Auditor-General has appointed me, Nathan Wylie, using the staff and resources of PricewaterhouseCoopers, to provide an opinion, on his behalf, on whether the information disclosed in schedules 1 to 4, 5a to 5g, 6a and 6b, 7, the system average interruption duration index ('SAIDI') and system average interruption frequency index ('SAIFI') information disclosed in Schedule 10 and the explanatory notes in boxes 1 to 12 in Schedule 14 ('the Disclosure Information') for the disclosure year ended 31 March 2018, have been prepared, in all material respects, in accordance with the Electricity Distribution Information Disclosure Determination 2012 (the 'Determination').

### **Directors' responsibility for the Disclosure Information**

The directors of the company are responsible for preparation of the Disclosure Information in accordance with the Determination, and for such internal control as the directors determine is necessary to enable the preparation of the Disclosure Information that is free from material misstatement.

### **Our responsibility for the Disclosure Information**

Our responsibility is to express an opinion on whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

### **Basis of opinion**

We conducted our engagement in accordance with the International Standard on Assurance Engagements (New Zealand) 3000 (Revised) *Assurance Engagements Other Than Audits or Reviews of Historical Financial Information* and the Standard on Assurance Engagements 3100 (Revised): *Compliance Engagements* issued by the External Reporting Board. Copies of these standards are available on the External Reporting Board's website.

These standards require that we comply with ethical requirements and plan and perform our assurance engagement to provide reasonable assurance about whether the Disclosure Information has been prepared in all material respects in accordance with the Determination.

We have performed procedures to obtain evidence about the amounts and disclosures in the Disclosure Information. The procedures selected depend on our judgement, including the assessment of the risks of material misstatement of the Disclosure Information, whether due to fraud or error or non-compliance with the Determination. In making those risk assessments, we considered internal control relevant to the company's preparation of the Disclosure Information in order to design procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the company's internal control.



### **Use of this report**

This independent assurance report has been prepared solely for the directors of the company and for the Commerce Commission for the purpose of providing those parties with reasonable assurance about whether the Disclosure Information has been prepared, in all material respects, in accordance with the Determination. We disclaim any assumption of responsibility for any reliance on this report to any person other than the directors of the company or the Commerce Commission, or for any other purpose than that for which it was prepared.

### **Scope and inherent limitations**

Because of the inherent limitations of a reasonable assurance engagement, and the test basis of the procedures performed, it is possible that fraud, error or non-compliance may occur and not be detected.

We did not examine every transaction, adjustment or event underlying the Disclosure Information nor do we guarantee complete accuracy of the Disclosure Information. Also we did not evaluate the security and controls over the electronic publication of the Disclosure Information.

The opinion expressed in this independent assurance report has been formed on the above basis.

### **Independence and quality control**

When carrying out the engagement, we complied with the Auditor-General's:

- independence and other ethical requirements, which incorporate the independence and ethical requirements of Professional and Ethical Standard 1 (Revised) issued by the New Zealand Auditing and Assurance Standards Board; and
- quality control requirements, which incorporate the quality control requirements of Professional and Ethical Standard 3 (Amended) issued by the New Zealand Auditing and Assurance Standards Board.

We also complied with the independence requirements specified in the Determination.

The Auditor-General, and his employees, and PricewaterhouseCoopers and its partners and employees may deal with the company on normal terms within the ordinary course of trading activities of the company. Other than any dealings on normal terms within the ordinary course of business, this engagement, the annual audit of the company's financial statements and taxation services, we have no relationship with or interests in the company.

### **Qualified Opinion on Schedules 10(i) to 10 (iv)**

As described in Box 14 of Schedule 14, there are inherent limitations in the ability of the company to collect and record the network reliability information required to be disclosed in Schedules 10(i) to 10(iv). Consequently there is no independent evidence available to support the completeness and accuracy of recorded faults, and control over the completeness and accuracy of interconnection point ('ICP') data included in the SAIDI and SAIFI calculations is limited throughout the year.



There are no practical audit procedures that we could adopt to confirm independently that all the faults and ICP data was properly recorded for the purposes of inclusion in the amounts relating to quality measures set out in Schedules 10(i) to 10(iv). Because of the potential effect of these limitations, we are unable to form an opinion as the completeness and accuracy of the data that forms the basis of the compilation of Schedules 10(i) to 10(iv).

In these respects alone we have not obtained all the recorded evidence and explanations that we have required.

In our opinion, except for the matters described above:

- as far as appears from an examination of them, proper records to enable the complete and accurate compilation of the Disclosure Information have been kept by the company;
- as far as appears from an examination, the information used in the preparation of the Disclosure Information has been properly extracted from the company's accounting and other records and has been sourced, where appropriate, from the company's financial and non-financial systems; and
- the Disclosure Information has been prepared, in all material respects, in accordance with the Determination.

A handwritten signature in black ink, appearing to read 'Nathan Wylie', with a stylized flourish at the end.

Nathan Wylie  
PricewaterhouseCoopers  
On behalf of the Auditor-General  
Christchurch, New Zealand  
27 August 2018