

GDB Information Disclosure Requirements Information Templates for Schedules 11–12c

Company Name
Disclosure Date
AMP Planning Period Start Date (first day)

30 September 2013 1 July 2013

Templates for Schedules 11a–12c (Asset Management Plan) Template Version 2.1. Prepared 14 May 2013

1 CoverSheet

Table of Contents

Schedule Description

Asset Management Plan Schedule Templates

- 11a Report on Forecast Capital Expenditure
 11b Report on Forecast Operational Expenditure
- 12a Report on Asset Condition
- 12b Report on Forecast Utilisation
- 12c Report on Forecast Demand

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Disclosure Template Guidelines for Information Entry

These templates have been prepared for use by GDBs when making disclosures under subclauses 2.6.1(4), 2.6.1(5) and 2.6.5(4) of the Gas Distribution Information Disclosure Determination 2012. Disclosures made under subclauses 2.6.1(4) and 2.6.1(5) must be made before the start of each disclosure year. Disclosures made under subclauses 2.6.5(4) must be made within 6 months after the start of the disclosure year. A copy must be provided to the Commission within 5 working days of being disclosed to the public. The information disclosed under 2.6.5(4) should be identical to that disclosed under 2.6.1(4) and 2.6.1(5).

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 (planning period start date) is used to calculate disclosure years in the column headings that show above some of the tables. It is also used to calculate the AMP planning period dates 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. Under no circumstances should the formulas in a calculated cell be overwritten.

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 12a columns G to K contain conditional formatting. The cells will change colour if the row totals do not add to 100%.

Inserting Additional Rows

The templates for schedules 11a, 12b and 12c may require additional rows to be inserted in tables marked 'ilnclude additional rows if needed' or similar.

Additional rows in schedules 11a and 12c 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.

Schedule References

The references labelled 'sch ref' in the leftmost column of each template are consistent with the row references in the Gas Distribution ID Determination 2012 (as issued on 1 October 2012). They provide a common reference between the rows in the determination and the template. Due to page formatting, the row reference sequences contained in the determination schedules are not necessarily contiguous.

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.

3 Guidelines

Company Name Vector 1 July 2013 - 30 June 2023 AMP Planning Period

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)

GDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).

This information is not part of audited disclosure information.

	for year ended	Current Year CY 30 Jun 13	CY+1 30 Jun 14	CY+2 30 Jun 15	CY+3 30 Jun 16	CY+4 30 Jun 17	CY+5 30 Jun 18	CY+6 30 Jun 19	CY+7 30 Jun 20	CY+8 30 Jun 21	CY+9 30 Jun 22	CY+10 30 Jun 23
11a(i): Expenditure on Assets Forecast		\$000 (nominal dollar	rs)									
Consumer connection		10,322	10,446	11,021	11,097	11,427	11,712	12,005	12,270	12,577	12,834	13,1
System growth		649	3,689	5,391	3,572	3,421	3,942	6,505	10,027	8,697	8,084	4,2
Asset replacement and renewal		9,933	12,858	4,326	1,677	1,685	1,325	1,243	1,274	1,276	1,308	1,
Asset relocations		1,215	4,006	4,112	3,184	2,585	2,747	4,022	4,123	3,928	4,026	4,
Reliability, safety and environment:	1											
Quality of supply		425	613	775	444	139	134	289	141	96	377	
Legislative and regulatory Other reliability, safety and environment		20				1						
Total reliability, safety and environment		445	613	775	444	139	134	289	141	96	377	
Expenditure on network assets		22,564	31,612	25,625	19.974	19,257	19,860	24,064	27,835	26,574	26,629	22
Non-network assets		1,693	1,708	1,960	1.872	1,786	1.459	1,546	1,599	1.624	1,544	
Expenditure on assets		24,257	33,320	27,585	21,846	21,043	21,319	25,610	29,434	28,198	28,173	24
	'	,	,	2.,000	==,= :=	,	,		20,101	,	20,2.0	
plus Cost of financing		48	192	184	137	124	129	179	220	203	200	
less Value of capital contributions		3,253	4,501	4,662	4,065	3,721	3,877	4,778	4,892	4,819	4,928	
plus Value of vested assets			-	-	-	-				-		
Capital expenditure forecast		21,052	29,011	23,107	17,918	17,446	17,571	21,011	24,762	23,582	23,445	15
Value of commissioned assets		23,423	29,011	23,107	17,918	17,446	17,571	21,011	24,762	23,582	23,445	1
		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
	for year ended		30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18	30 Jun 19	30 Jun 20	30 Jun 21	30 Jun 22	30 Jun 2
	1	\$000 (in constant pr										
Consumer connection		10,322	10,105	10,382	10,105	10,095	10,095	10,095	10,067	10,067	10,022	
System growth		649	3,569	5,078	3,253	3,023	3,398	5,470	8,226	6,961	6,312	
Asset replacement and renewal		9,933	12,438	4,075	1,527	1,488	1,140	1,046	1,046	1,021	1,021	
Asset relocations		1,215	3,876	3,873	2,899	2,284	2,368	3,382	3,382	3,144	3,144	
Reliability, safety and environment:	i i											
Quality of supply		425	593	730	404	122	115	243	115	77	295	
Legislative and regulatory		20	-	-	-	-	-	-	-	-	-	
Other reliability, safety and environment Total reliability, safety and environment		445	593	730	404	122	115	243	115	77	295	
Expenditure on network assets		22,564	30,581	24,138	18,188	17,012	17,116	20,236	22,836	21,270	20,794	1
Non-network assets		1,693	1,652	1,846	1,705	1,578	1,258	1,300	1,312	1,300	1,206	
Expenditure on assets		24,257	32,233	25,984	19,893	18,590	18,374	21,536	24,148	22,570	22,000	1
	'	,		20,00	-5,000	20,000	20,011	,	= -,	,_,_	22,000	
Subcomponents of expenditure on assets (where known)												
Research and development		-	-	-	-	-	-	-	-	-	-	
		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
	for year ended		30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18	30 Jun 19	30 Jun 20	30 Jun 21	30 Jun 22	30 Jun 2
Difference between nominal and constant price forecasts		\$000										
•			341	639	992	1,332	1,617	1,910	2,203	2,510	2,812	
Consumer connection			120	313	319	398	544	1,035	1,801	1,736	1,772	
Consumer connection System growth			420	251	150	197	185	1,033	228	255	287	
System growth			.20	239	285	301	379	640	741	784	882	
			130					2.0				
System growth Asset replacement and renewal Asset relocations		-	130	233								
System growth Asset replacement and renewal		-	20	45	40	17	19	46	26	19	82	
System growth Asset replacement and renewal Asset relocations Reliability, safety and environment:				,		17	19	46	26	19	82	
System growth Asset replacement and renewal Asset relocations Reliability, safety and environment: Quality of supply		-		,		17	19	46	26	19	82	
System growth Asset replacement and renewal Asset relocations Reliability, safety and environment: Quality of supply Legislative and regulatory		-		,		17 - - 17	19 - - 19	46 - - 46	26 - - 26	19 - - 19	82 - - 82	
System growth Asset replacement and renewal Asset relocations Reliability, safety and environment: Quality of supply Legislative and regulatory Other reliability, safety and environment		-	20	45	40	-		-	-	-	-	
System growth Asset replacement and renewal Asset relocations Reliability, safety and environment: Quality of supply Legislative and regulatory Other reliability, safety and environment Total reliability, safety and environment		-	20 - - 20	45 - - 45	40	- - 17	- - 19	- - 46	- - 26	19	- - 82	

Company Name 1 July 2013 - 30 June 2023 AMP Planning Period

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)

GDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).

This information is not part of audited disclosure information.

		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
11a(ii): Consumer Connection	for year ended	30 Jun 13	30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18
Consumer types defined by GDB*		\$000 (in constant pri	ces)				
Mains Extensions/Subdivsions		3,994	4,158	4,435	4,158	4,158	4,1!
Service Connections - Residential		5,288	5,193	5,193	5,193	5,183	5,1
Service Connections - Commercial		1,037	696	696	696	696	6
Customer Easements		3	58	58	58	58	
		-	-	-	-	-	
* include additional rows if needed							
Consumer connection expenditure		10,322	10,105	10,382	10,105	10,095	10,0
less Capital contributions funding consumer connection		1,798	1,766	1,793	1,766	1,764	1,7
Consumer connection less capital contributions		8,524	8,339	8,589	8,339	8,331	8,3
11a(iii): System Growth							
Intermediate pressure							
Main pipe		9	1,435	2,467	543	191	1,5
Service pipe			1,433	2,407	545	151	-,
Stations		338	1,067	1,145	1,060	1,129	
Line valve		330	2,007	1,143	2,000	1,123	
Special crossings			96				
Intermediate Pressure total		347	2,598	3,612	1,603	1,320	2,
Medium pressure	•						
Main pipe		216	856	1,351	1,523	1.444	
Service pipe				-	12		
Stations		68	-	-	_	144	
Line valve			-	-	_		
Special crossings		-	-	-	-	-	
Medium Pressure total		284	856	1,351	1,535	1,588	1,
Low Pressure							
Main pipe		-	-	-	-	-	
Service pipe		-		-	-	-	
Line valve		-	-	-	-	-	
Special crossings		-	-	-	-	-	
Low Pressure total		-	-	-	-	-	
Other assets							
Monitoring and control systems		18	115	115	115	115	
Cathodic protection systems		-	-	-	-	-	
Other assets (other than above)		-	-	-	-	-	
Other total		18	115	115	115	115	
System growth expenditure		649	3,569	5,078	3,253	3,023	3,
less Capital contributions funding system growth		-	-	-	-	-	
System growth less capital contributions		649	3,569	5,078	3,253	3,023	3,:

Company Name 1 July 2013 - 30 June 2023 AMP Planning Period

SCHEDULE 11a: REPORT ON FORECAST CAPITAL EXPENDITURE

This schedule requires a breakdown of forecast expenditure on assets for the current disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the value of commissioned assets (i.e., the value of RAB additions)

GDBs must provide explanatory comment on the difference between constant price and nominal dollar forecasts of expenditure on assets in Schedule 14a (Mandatory Explanatory Notes).

This information is not part of audited disclosure information.

sch ref							
121		Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5
121	for year ende		30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18
122	11a(iv): Asset Replacement and Renewal						
123	Intermediate pressure	\$000 (in constant pr	rices)				
124	Main pipe	306	1,060	10	10	10	10
125	Service pipe	-	-	-	-	-	-
126	Stations	672	903	607	675	636	385
127	Line valve	10	-	-	-	-	
128 129	Special crossings Intermediate Pressure total	988	96 2,059	96 713	96 781	96 742	96 491
		500	2,039	/13	701	742	491
130	Medium pressure						
131	Main pipe	2,975	2,930	752	366	366	366
132 133	Service pipe Station	29 146	1,040 48	72 145	48	48	48
134	Line valve	264	204	156	96	96	96
135	Special crossings	43	204	130	-		-
136	Medium Pressure total	3,457	4,222	1,125	510	510	510
137	Low Pressure						
138	Main pipe	3,347	2,991	1,062			_
139	Service pipe	1,318	2,145	496		-	-
140	Line valve	-				-	
141	Special crossings	-	-	-	-	-	-
142	Low Pressure total	4,665	5,136	1,558	-	-	-
143	Other assets						
144	Monitoring and control systems	30	24	24	24	24	24
145	Cathodic protection systems	788	708	636	193	193	96
	Other assets (other than above)	5	289	19	19	19	19
147	Other total	823	1,021	679	236	236	139
148	Asset replacement and renewal expenditure	9,933	12,438	4,075	1,527	1,488	1,140
150	less Capital contributions funding asset replacement and renewal	3,333	12,430	4,075	1,327	1,400	1,140
151	Asset replacement and renewal less capital contributions	9,933	12,438	4,075	1,527	1,488	1,140
152							
153	11a(v): Asset Relocations						
154	Project or programme*						
155		-	-	-	-	-	-
156		-	-	-		-	-
157		-					-
158		-	-	-	-	-	-
159		-	-	-	-	-	
160	* include additional rows if needed		0.000	0.000	2.000		2.000
161	All other asset relocations projects or programmes	1,215 1,215	3,876 3,876	3,873 3,873	2,899 2,899	2,284 2,284	2,368 2,368
162 163	Asset relocations expenditure less Capital contributions funding asset relocations	1,215	2,588	2,598	1,935	1,523	1,578
164	Asset relocations less capital contributions	(240)	1,288	1,275	964	761	790
204	. 222 . 222 duois iess capital contributions	(240)	1,200	1,273	304	701	, 50

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								Company Name	Vector
							AMP F	Planning Period	1 July 2013 – 30 June 2023
SCI	HEDULE 11a: REPORT ON FORECAST CAPITAL EXPEND	DITURE							
This s	schedule requires a breakdown of forecast expenditure on assets for the current discl	losure year and a 1	10 year planning peri	od. The forecasts	should be consistent	with the supporting	information set out in	n the AMP. The fore	cast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the
value	e of commissioned assets (i.e., the value of RAB additions)								
	As must provide explanatory comment on the difference between constant price and no information is not part of audited disclosure information.	nominal dollar fore	ecasts of expenditure	on assets in Schei	dule 14a (Mandatory	Explanatory Notes)			
This i	information is not part of addited disclosure information.								
ch ref	f								
172			Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	
173	11a(vi): Quality of Supply	for year ended	30 Jun 13	30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18	
174									
175	Project or programme*	ŚO	000 (in constant price	es)					
176			-	-	-	-	-	-	
177			-	-	-	-	-	-	
178			-	-	-	-	-	-	
179			-	-	-	-	-	-	
180			-	-	-	-	-	-	
181	* include additional rows if needed	_						2	
182 183	All other quality of supply projects or programmes		425 425	593 593	730 730	404 404	122 122	115 115	
184	Quality of supply expenditure less Capital contributions funding quality of supply	_	425	593	730	404	122	115	
185	Quality of supply less capital contributions		425	593	730	404	122	115	
186	quality of supply less capital contributions	<u> </u>	423	333	730	404	122	113	
187	11a(vii): Legislative and Regulatory								
188	Project or programme								
189	Troject or programme		-	-	-	-	-	-	
190			-	-		-	-	-	
191			-	-	-	-	-	-	
192			-	-	-	-	-	-	
193			-	-	-	-	-	-	
194	* include additional rows if needed								
195	All other legislative and regulatory projects or programmes		-	-	-	-	-	-	
196	Legislative and regulatory expenditure		-	-	-	-	-	-	
197 198	less Capital contributions funding legislative and regulatory		-	-	-	-	-	-	
138	Legislative and regulatory less capital contributions	L	1	-	1		- 1		
199	11a(viii): Other Reliability, Safety and Environment								
200	Project or programme*						1		
201 202			-	-	-	-	1	-	
202									
204									
205			-	-	-		-	-	
206	* include additional rows if needed	_	<u> </u>						
207	All other reliability, safety and environment projects or programmes	s	20	-	-	-	-	-	
208	Other reliability, safety and environment expenditure		20	-	-	-	-	-	
209	less Capital contributions funding other reliability, safety and environment	ent	-	-	-	-	-	-	
210	Other Reliability, safety and environment less capital contributions		20	-	-	-	-	-	

									Company Name	Vector
								AMP	Planning Period	1 July 2013 – 30 June 2023
SC	HEDULE 11a: R	REPORT ON FORECAST CAPITAL EX	PENDITURE						_	
				a 10 year planning or	eriod. The forecasts	should be consistent w	ith the supporting	information set out	in the AMP. The fore	ecast is to be expressed in both constant price and nominal dollar terms. Also required is a forecast of the
		ets (i.e., the value of RAB additions)	, , , , , , , , , , , , , , , , , , , ,	/						
		tory comment on the difference between constant price	e and nominal dollar fo	orecasts of expenditu	re on assets in Scheo	dule 14a (Mandatory E	xplanatory Notes).			
This	nformation is not part	of audited disclosure information.								
ch rej										
	44 (1.) 41									
211		-Network Assets								
212	Routine ex									
213	Projec	ct or programme*	ſ						1	
214				-	-	-	-	-	-	
215 216				-	-		-	-	-	
217				-	-		-	-	-	
218										
219	* inclu	ude additional rows if needed	l							
220		her routine expenditure projects or programmes		-				-	-	
221		expenditure	İ		-	-		-	-	
			ı.	1	•			•		
222	Atypical ex									
223	Projec	ct or programme*	ſ							
224				-	-	-		-	-	
226									-	
227										
228										
229	* inclu	ude additional rows if needed						-		
230		her atypical expenditure projects or programmes		1,693	1,652	1,846	1,705	1,578	1,258	
231		l expenditure		1,693	1,652	1,846	1,705	1,578	1,258	
232		•		, , , , ,		, , , , ,	,	,	,	
233	Non-net	twork assets expenditure	Ī	1,693	1,652	1,846	1,705	1,578	1,258	
				,	, , , , ,	,	,	,	,=00	

Company Name	Vector
AMP Planning Period	1 July 2013 – 30 June 2023

SCHEDULE 11b: REPORT ON FORECAST OPERATIONAL EXPENDITURE

This schedule requires a breakdown of forecast operational expenditure for the disclosure year and a 10 year planning period. The forecasts should be consistent with the supporting information set out in the AMP. The forecast is to be expressed in both constant price and nominal dollar terms.

GDBs must provide explanatory comment on the difference between constant price and nominal dollar operational expenditure forecasts in Schedule 14a (Mandatory Explanatory Notes).

This information is not part of audited disclosure information.

sch re	of the state of th											
7 8	for your and od	Current year CY 30 Jun 13	<i>CY+1</i> 30 Jun 14	CY+2 30 Jun 15	CY+3 30 Jun 16	CY+4 30 Jun 17	CY+5 30 Jun 18	CY+6 30 Jun 19	<i>CY+7</i> 30 Jun 20	CY+8 30 Jun 21	CY+9 30 Jun 22	CY+10 30 Jun 23
9	for year ended Operational Expenditure Forecast			30 Juli 13	30 Juli 10	30 Juli 17	30 Juli 18	30 Juli 19	30 Juli 20	30 Juli 21	30 Juli 22	30 Juli 23
10	·	\$000 (in nominal do 4,217	4,149	4,261	4,408	4,543	4,657	4,773	4,892	5,015	5,140	5,269
11	Service interruptions, incidents and emergencies Routine and corrective maintenance and inspection	3,727	4,149	4,261	5,057	5,144	5,359	5,497	5,668	5,845	6,027	6,216
12	Asset replacement and renewal	3,727	4,704	4,645	3,037	3,144	3,339	3,497	3,006	3,643	0,027	0,210
13	Network opex	7,944	8,853	9,104	9,465	9,687	10,016	10,270	10,560	10.860	11,167	11,485
14	System operations and network support	3,422	4,146	4.582	4,719	4.864	4.985	5,110	5,238	5,369	5,503	5,640
15	Business support	7,011	8,210	9,080	9,392	9,680	9,922	10,171	10,425	10,685	10,953	11,226
16	Non-network opex	10,433	12,356	13,662	14,111	14,544	14,907	15,281	15,663	16,054	16,456	16,866
17	Operational expenditure	18,377	21,209	22,766	23,576	24,231	24,923	25,551	26,223	26,914	27,623	28,351
				av a	ev. 0			ev 6		eu . o	av. 0	01.10
18 19	for your and od	Current year CY 30 Jun 13	<i>CY+1</i> 30 Jun 14	CY+2 30 Jun 15	CY+3 30 Jun 16	CY+4 30 Jun 17	CY+5 30 Jun 18	CY+6 30 Jun 19	<i>CY+7</i> 30 Jun 20	CY+8 30 Jun 21	CY+9 30 Jun 22	CY+10 30 Jun 23
	for year ended			30 Juli 13	30 Juli 16	30 Juli 17	30 Juli 18	30 Juli 19	30 Juli 20	30 Juli 21	30 Juli 22	30 Juli 23
20		\$000 (in constant p	-	T			Т		Т			
21	Service interruptions, incidents and emergencies	4,217	4,014	4,014	4,014	4,014	4,014	4,014	4,014	4,014	4,014	4,014
22 23	Routine and corrective maintenance and inspection	3,727	4,550	4,562	4,605	4,544	4,619	4,622	4,650	4,678	4,707	4,735
24	Asset replacement and renewal Network opex	7,944	8,564	8,576	8,619	8,558	8,633	8,636	8,664	8,692	8,721	8,749
25	System operations and network support	3,422	4.011	4.316	4,297	4.297	4.297	4,297	4.297	4.297	4,297	4,297
26	Business support	7,011	7,942	8,553	8,553	8,553	8,553	8,553	8,553	8,553	8,553	8,553
27	Non-network opex	10,433	11,953	12,869	12,850	12,850	12,850	12,850	12,850	12,850	12,850	12,850
28	Operational expenditure	18,377	20,517	21,445	21,469	21,408	21,483	21,486	21,514	21,542	21,571	21,599
29	Subcomponents of operational expenditure (where known)											
30	Research and development	-	-	-	-	-	-	-	-	-	-	-
	Insurance	228	239	254	263	265	265	265	265	265	265	265
32												
33		Current year CY	CY+1	CY+2	CY+3	CY+4	CY+5	CY+6	CY+7	CY+8	CY+9	CY+10
34	for year ended	•	30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18	30 Jun 19	30 Jun 20	30 Jun 21	30 Jun 22	30 Jun 23
35	Difference between nominal and real forecasts	\$000										
36	Service interruptions, incidents and emergencies	-	135	247	394	529	643	759	878	1,001	1,126	1,255
37	Routine and corrective maintenance and inspection	-	154	281	452	600	740	875	1,018	1,167	1,320	1,481
38 39	Asset replacement and renewal	-	289	528	- 846	1,129	1,383	1,634	1,896	2,168	2,446	2,736
40	Network opex	-	135	266	422	567	1,383	813	941	1,072	1,206	1,343
41	System operations and network support Business support	-	268	527	839	1,127	1,369	1,618	1,872	2,132	2,400	2,673
42	Non-network opex		403	793	1,261	1,694	2,057	2,431	2,813	3,204	3,606	4,016
43	Operational expenditure	-	692	1,321	2,107	2,823	3,440	4,065	4,709	5,372	6,052	6,752

Company Name Vector

AMP Planning Period 1 July 2013 – 30 June 2023

SCHEDULE 12a: REPORT ON ASSET CONDITION

This schedule requires a breakdown of asset condition by asset class as at the start of the forecast year. The data accuracy assessment relates to the percentage values disclosed in the asset condition columns. Also required is a forecast of the percentage of units to be replaced in the next 5 years. All information should be consistent with the information provided in the AMP and the expenditure on assets forecast in Schedule 11a.

sch ref

7

Asset condition at start of planning period (percentage of units by grade)

% of asset
forecast to be
Data accuracy replaced in next 5

8	Operating Pressure	Asset category	Asset class	Units	Grade 1	Grade 2	Grade 3	Grade 4	Grade unknown	Data accuracy (1–4)	years
9	Intermediate Pressure	Main pipe	IP PE main pipe	km	-	-	-	-	-	4	-
10	Intermediate Pressure	Main pipe	IP steel main pipe	km	-	-	-	100.00%	-	3	-
11	Intermediate Pressure	Main pipe	IP other main pipe	km	-	_	-	-	-	4	-
12	Intermediate Pressure	Service pipe	IP PE service pipe	km	-	-	_	-	-	4	-
13	Intermediate Pressure	Service pipe	IP steel service pipe	km	-	-	81.31%	18.69%	-	3	-
14	Intermediate Pressure	Service pipe	IP other service pipe	km	-	-	-	-	-	4	-
15	Intermediate Pressure	Stations	Intermediate pressure DRS	No.	1.04%	14.51%	50.26%	34.20%	-	4	14.36%
16	Intermediate Pressure	Line valve	IP line valves	No.	0.11%	2.66%	80.91%	0.44%	15.87%	3	0.10%
17	Intermediate Pressure	Special crossings	IP crossings	No.	-	13.64%	68.18%	15.91%	2.27%	3	0.40%
18	Medium Pressure	Main pipe	MP PE main pipe	km	-	-	-	100.00%	-	3	0.05%
19	Medium Pressure	Main pipe	MP steel main pipe	km	-	4.06%	36.67%	59.27%	-	3	4.06%
20	Medium Pressure	Main pipe	MP other main pipe	km	-	100.00%	-	-	-	3	-
21	Medium Pressure	Service pipe	MP PE service pipe	km	-	-	-	100.00%	-	3	0.22%
22	Medium Pressure	Service pipe	MP steel service pipe	km	-	36.65%	63.35%	-	-	3	4.19%
23	Medium Pressure	Service pipe	MP other service pipe	km	-	-	100.00%	-	-	3	-
24	Medium Pressure	Stations	Medium pressure DRS	No.	-	5.36%	58.93%	35.71%	-	4	1.96%
25	Medium Pressure	Line valve	MP line valves	No.	0.05%	0.94%	78.23%	0.58%	20.20%	3	0.10%
26	Medium Pressure	Special crossings	MP special crossings	No.	-	6.48%	75.00%	13.89%	4.63%	3	0.90%
27	Low Pressure	Main pipe	LP PE main pipe	km	-	-	-	100.00%	-	3	21.20%
28	Low Pressure	Main pipe	LP steel main pipe	km	-	100.00%	-	-	-	3	100.00%
29	Low Pressure	Main pipe	LP other main pipe	km	-	100.00%	-	-	-	3	100.00%
30	Low Pressure	Service pipe	LP PE service pipe	km	-	-	43.59%	56.41%	-	3	53.40%
31	Low Pressure	Service pipe	LP steel service pipe	km	-	100.00%	-	-	-	3	100.00%
32	Low Pressure	Service pipe	LP other service pipe	km	-	100.00%	-	-	-	3	100.00%
33	Low Pressure	Line valve	LP line valves	No.	-	-	45.83%	-	54.17%	3	-
34	Low Pressure	Special crossings	LP special crossings	No.	-	-	100.00%	-	-	3	-
35	All	Monitoring & control systems	Remote terminal units	No.	-	15.15%	77.27%	7.58%	-	3	-
36	All	Cathodic protection systems	Cathodic protection	No.	3.70%	20.37%	75.93%	-	-	4	10.85%

 Company Name
 Vector

 AMP Planning Period
 1 July 2013 – 30 June 2023

SCHEDULE 12b: REPORT ON FORECAST UTILISATION

This Schedule requires a breakdown of current and forecast utilisation (for heavily utilised pipelines) consistent with the information provided in the AMP and the demand forecast in schedule S12c.

sch ref

26

31

33

37

41

Forecast Utilisation of Heavily Utilised Pipelines

Utilisation

			Nominal operating pressure (NOP)	Minimum operating pressure (MinOP)	Total capacity at MinOP	Remaining capacity at MinOP	Current Year CY	CY+1	CY+2	CY+3	CY+4	CY+5	
Region	Network	Pressure system	(kPa)	(kPa)	(scmh)	(scmh) Uni	,,	y/e 30 Jun 14	y/e 30 Jun 15	y/e 30 Jun 16	y/e 30 Jun 17	y/e 30 Jun 18	Comment Remaining capacity at MinOP is available in East Tamaki area.
Auckland	Auckland Central	AU Auckland IP20	1,900	950	74,647	820 scmh	73,827	74,466	75,105	75,744	76,383	77,022	Refer Note 4 for other explanatory information.
						kPa	1,186	1,173	1,160	1,147	1,133	1,120	Remaining capacity at MinOP is available in Devonport area.
Auckland	Auckland Central	AU North Shore MP4	400	200	14,920	104 scmh	14,816	14,964	15,114	15,265	15,418	13,372	Refer Note 5 for other explanatory information.
						kPa	236	233	229	225	220	216	Remaining capacity at MinOP is available in South Titirangi
Auckland	Auckland Central	AU Central Auckland	400	200	45.825	gg scmh	45,727	46,184	46,646	47,113	47,584	48,060	area. System reinforcement is planned in 2015 and 2016. Refer
racidana	Additional Central	MP4	100	200	13,023	kPa	265	262	259	256	253	250	to Notes 5, 8 and 10 for other explanatory information.
													Remaining capacity at MinOP is available in Pakuranga East
Auckland	Auckland Central	AU East Auckland MP4	400	200	13,402	143 scmh	13,259	18,993	19,183	19,375	19,569		area. System reinforcement is planned to implement in 2014.
						kPa	237	265	262	259	256	252	Refer Notes 5, 9 and 10 for other explanatory information.
		AU Auckland Airport				scmh	2,143	2.164	2.186	2.208	2,230	2,252	Remaining capacity at MinOP is nil. System reinforcement is
Auckland	Auckland Central	MP4	400	200	2,143	-		,	,	,			platified it 2014 and 2016. Refer Notes 5 and 10 for other
						kPa	129	211	206	201	196	207	explanatory information. Remaining capacity at MinOP is available at Bombay east area.
													System reinforcement options will be investigated in 2014
Auckland	Harrisville	HR Harrisville MP7	700	350	4,618	383 scmh	4,235	4,475	4,714	4,953	5,192	5,432	
													Notes 4 for other explanatory information.
						kPa	425	410	394	376	357	337	
Waikato	Hamilton	HA Hamilton West	400	200	3.080	28 scmh	3,052	3,110	3,169	3,229	3,291	3,353	Remaining capacity at MinOP is available in Nawton east area. Refer Note 6 for other explanatory information.
		MP4			-,	kPa	236	232	228	224	219	215	· · ·
			400			scmh	2,710	2,761	2,814	2,867	2,922	2,977	Remaining capacity at MinOP is available in Te Rapa east area. System reinforcement is planned in 2019. Refer Notes 6 and 10
Waikato	Hamilton	HA Pukete MP4	400	200	2,786	kPa	223	218	214	209	203	100	for other explanatory information.
						KPd	223	216	214	209	203	196	Remaining capacity at MinOP is available nil. System
Waikato	Waitoa	WT Waitoa MP4	400	200	1,702	scmh	1,702	1,702	1,746	1,792	1,838	1,886	reinforcement is planned in 2015. Refer Notes 7 and 10 for
TT CINCLE	Waltou	W Waltou W V	100	200	1,702	kPa	152	152	250	242	234	226	other explanatory information.
						scmh	3,282	3,307	3,333	3,358	3.384	3,409	Remaining capacity at MinOP is available at Matawhero south
Gisborne	Gisborne	GS Gisborne IP20	1,900	950	3,597	315 kPa	1,179	1,170	1.161	1.152	1,142	1.133	area. Refer Note 4 for other explanatory information.
						Ki d		,	•	, -		,	Remaining capacity at MinOP is nil. System reinforcement is
Kapiti	Paraparaumu	PR Paraparaumu IP20	1,900	950	1,669	scmh	1,669	1,717	1,766	1,814	1,862	1,911	planned in 2015. Refer Notes 4 and 10 for other explanatory
						kPa	747	712	1,357	1,336	1,314	1,291	information.

^{*} Current year utilisation figures may be estimates. Year 1-5 figures show the utilisation forecast to occur given the expected system configuration for each year, including the effect of any new investment in the pressure system

Disclaimer for supply enquiries

The information in this table contains modelled estimates of utilisation and capacity. Any interested party seeking to invest in supply from Vector's distribution networks should contact their retailer and confirm availability of capacity.

Notes and assumptions

- 1. A heavily utilised pressure system is identified based on its estimated flow rate at system peak in 2013 greater than or equal to 500 scmh and its utilisation greater than or equal to 40%. The utilisation of a pressure system is identified based on its estimated based on the level at which the minimum pressure/nominal operating pressure). *100%.

 2. Remaining capacity at MinOP in the current year is estimated based on the level at which the minimum operating pressure is reached. To provide an appropriate operational margin to account for variable consumption patterns, forecast errors and network operational problems, Vector's quality of supply standard sets the MinOP at 50% of the rated pressure (or 82% of the pipeline capacity) for a pressure system (based on standard operating pressures). By setting the MinOP of a pressure system and examining the modelled flows at various extremity points in the model, a minimum flow value among one of these points is selected to represent the remaining capacity at MinOP of the pressure system being studied.
- 3. A forecast model of a pressure system is obtained by applying either its forecast flow rate or an annual growth rate in each forecast year; and scaling its loads evenly to give the system total flow. The result of system minimum pressure is simulated on this basis.
- 4. Forecast system flow is populated from the respective network system as tabulated in Table 5.1 of Section 5 Network Development Planning of Gas Distribution Asset Management Plan 2013 2023.
- 5. Forecast system flow is based on an annual growth rate of 1% for Central Auckland network system as tabulated in Table 5.1 of Section 5 Network Development Planning of Gas Distribution Asset Management Plan 2013 2023.
- 6. Forecast system flow is based on an annual growth rate of 1.9 % for Hamilton network system as tabulated in Table 5.1 of Section 5 Network Development Planning of Gas Distribution Asset Management Plan 2013 2023.
 7. Forecast system flow is based on an annual growth rate of 2.6% for Waitoa network system as tabulated in Table 5.1 of Section 5 Network Development Planning of Gas Distribution Asset Management Plan 2013 2023.
- 8. AU Central Auckand MP4, AU Onehunga MP4, AU Main Highway MP4, AU Station Road MP4, AU Station Road (19) MP4 pressure system will merge together after completion of LP pipeline programme in FY2014.
- 6. AU Central Auckario MP4, AU Orientings MP4, AU Main riginway MP4, AU Station Road MP4, AU
- 9. AU East Auckland MP4, Mangere MP4, AU Fairburn MP4 and AU Westfield MP4 pressure system will merge together after completion of LP pipeline replacement in FY2014.
- 10. Details of performance, capacity and system reinforcement are described in Section 5 Network Development Planning of Gas Distribution Asset Management Plan 2013 2023.
- 11. The table would provide a snapshot in time of capacity at the date of its preparation, and the figures will change over time. It can therefore be used for consumer guidance only. In addition, the capacity limits included are for the most constrained part of each particular pressure system, and more capacity may be available at other points on the network. Consumers considering taking gas from a network and need an accurate assessment of capacity available at the required off-take point, will have to contact Vector. Vector will prepare a dedicated model that will provide an accurate assessment of available gas capacity at the date of the required.

11

			_							
			Vect	or						
		AMP F	Planning Period	1 July 2013 – 30 June 2023						
SC	CHEDULE 12c: REPORT ON FORECAST DEMAND		_							
	is schedule requires a forecast of new connections (by consumer type), peak dema	nd and energy volume	s for the disclosure	year and a 5 year pla	nning period. The fo	recasts should				
	consistent with the supporting information set out in the AMP as well as the assur									
cap	pacity and utilisation forecasts in Schedule 12b.									
sch r	ef									
<i>7</i> <i>8</i>	12c(i) Consumer Connections Number of ICPs connected in year by consumer type									
9	Number of ICPs connected in year by consumer type	Current year CY	CY+1	CY+2	CY+3	CY+4	CY+5			
10		30 Jun 13	30 Jun 14	30 Jun 15	30 Jun 16	30 Jun 17	30 Jun 18			
11	Consumer types defined by GDB									
12	Residential	3,136	3,090	3,090	3,090	3,086	3,086			
13	Commercial	330	309	309	309	308	308			
14										
15										
16										
17	Total	3,466	3,399	3,399	3,399	3,394	3,394			
18	40 (11) 0 0 11			8 14 8	9 14. 9		au =			
19	12c(ii): Gas Delivered	Current year CY	CY+1	CY+2	CY+3	CY+4	CY+5			
18	Number of ICPs at year end	30 Jun 13 156,908	30 Jun 14 159,527	30 Jun 15 162,146	30 Jun 16 164,765	30 Jun 17 167,379	30 Jun 18 169,993			
19 20	Maximum daily load (GJ/day)	88,261	93,708	94,506	95,286	96,049	96,794			
21	Maximum monthly load (GJ/month)	2,264,618	2,323,468	2,343,437	2,362,968	2,382,064	2,400,735			
22	Number of directly billed ICPs (at year end)	1	1	1	1	1	1			
23	Total gas conveyed (GJ/annum)	21,810,158	22,163,676	22,358,013	22,548,245	22,734,395	22,916,553			
24	Average daily delivery (GJ/day)	59,591	60,722	61,255	61,776	62,116	62,785			
25										
26	Maximum monthly amount of gas entering network (GJ/month)	2,264,618	2,323,468	2,343,437	2,362,968	2,382,064	2,400,735			
27	Load factor	80.26%	79.49%	79.51%	79.52%	79.53%	79.55%			