Appendix 1

Questionnaire

1. Introduction

Thank you for participating in the survey.

This survey is part of a larger project to assess the impact of climate change on the Millennium Development Goal Target 7c for drinking-water supply and sanitation. The project is being funded by the UK Department for International Development (DFID) and supported by WHO.

The questionnaire includes 54 questions divided between nine sections. It should take you less than 30 minutes to complete.

Several of the sections include a brief introduction that describes the purpose of the section and the types of information that we are trying to collect. This should help you to frame your answers to these questions.

You may find some questions are not relevant to your experience or the area in which you are working; you can leave these blank as the questionnaire does not require that you complete all sections.

The information that you provide in the questionnaire will be compiled into a report that will be presented to a meeting of climate and water and sanitation experts in October 2008. This meeting will identify the priorities for action based on the issues you have raised in the questionnaire and these will be published in a final report prepared by DFID and WHO.

Once again, thank you for participating in this survey.

2 Contact details

I. Contact Details	6		
	5		
Name:			
Organization:			
Address:			
Address 2:			
City/ Town:			
State:			
ZIP/ Postal Code:			
Country:			
Email Address:			
Phone Number:			
2. Organization t	ype: (please select one jn Non-Governmental Organization	jn Donor/International Agency	j∩ Academic
	- 3		
Other (please specify)	- 3		
Other (please specify)			
Other (please specify) 3. Position:			

4. Type of posi	tion: (pleas	se select one on	ıly)		
j∩ Engineer	jn Scientist	j∩ Policy maker	jη Field officer	jn Water resource manager	j∩ Water quali manager
jn Other (please spe	ecify)				
5. Type of offic	e within yo	our organization	n? (please sele	ect one only)	
j⊓ Head office	j∕n Re	egional office	jη Country office	j∕∩ Fiel	d office
6 Please indic	ata whatha	r you would be	willing for us	to contact you	at a later
		on and clarificat	•	-	
jn Yes, please conta	act me by email	j₁ Yes, please co	ntact me by phone	jn No, please dor	't contact me
Description o	of the rele	vant area			
	•	answering this ques	•	se give the name,	a brief descript
7 In what cou	ntry or cou	ntries is the reg	ion vou answ	oring this gua	stionnaira fa
7. TH WHAT COU	intry or cour		jion you answi	Ting this ques	Stivillian e it
O Diagon sive		nd a briat dage	uintian af tha		
8. Please give	the name a	nd a brief desc	ription of the a	area.	
8. Please give	the name a	nd a brief desc	ription of the a	area.	
		¥			ect as many
	you describ	nd a brief desc			ect as many
9. How would	you describ	¥			ect as many
9. How would y	you describ	e the climate/ (he area? (sele	ect as many
9. How would y are appropriat	you describ	e the climate/ (geography of t	he area? (sele	ect as many
9. How would y are appropriat 6 mountainous 6 polar 6 temperate	you describ e)	e the climate/ g in tropical in arid in Mediterranean	geography of t	he area? (sele	
9. How would y are appropriat 6 mountainous 6 polar 6 temperate 10. How many	you describ e) wet or rain	e the climate/ (geography of t	he area? (sele	
9. How would yare appropriat 6 mountainous 6 polar 6 temperate 10. How many (please select	you describ e) wet or rain one only)	e the climate/ g in tropical in arid in Mediterranean in seasons do y	geography of t	he area? (sele	our area?
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9. How would yare appropriat 6 mountainous 6 polar 6 temperate 10. How many (please select jn 1 11. How many jn < 1 12. Has your na	wet or rain one only) jn 2 years have	e the climate/ get the climate/ get tropical arid Mediterranean by seasons do y jn 3 e you been work	geography of to ou experience in 4 king in this are	he area? (selection) is coastal is inland annually in year area? (please selection) area? (please selection)	our area? Not seasonal lect one onl
9. How would yare appropriat 6 mountainous 6 polar 6 temperate 10. How many (please select jn 1 11. How many jn < 1 12. Has your na equivalent region	wet or rain one only) jn 2 years have ational met ional organ	e the climate/ of tropical arid Mediterranean y seasons do y jn 3 you been work jn 1-5 eorological and ization issued a n your region?	geography of to ou experience in 4 king in this are in official state (please select	he area? (selection observed) he coastal in inland annually in year area? (please selection > 5 service (NHMS) ment on observed	our area? Not seasonal lect one onl
9. How would yare appropriat 6 mountainous 6 polar 6 temperate 10. How many (please select jn 1 11. How many jn < 1 12. Has your na equivalent region	wet or rain one only) jn 2 years have ational met ional organ	e the climate/ of tropical	geography of to ou experience jn 4 king in this are	he area? (selection observed) he coastal in inland annually in year area? (please selection > 5 service (NHMS) ment on observed	our area? Not seasonal lect one only

13. If so, what does this statement indicate about climate aspects: (please select one answer only per row)

	Increase	Decrease	Remain unchanged	Uncertain	No such statement issued
Observed rainfall	jn	ja	j'n	j n	j n
Predicted rainfall	j n	jn	j m	j m	j m
Observed temperature	j n	ja	j ra	jα	j ra
Predicted temperature	j m	jn	j n	j m	j 'n
Observed frequency of extreme events (e.g. storms)	ja	jη	j ʻa	jη	j n
Predicted frequency of extreme events (e.g. storms)	j n	j'n	j'n	j'n	ţα
Please name the organizat	ion making the sta	tement:			

4.	Observat	tions relat	ted to	changes	in we	ather	patterns

14. Are you aware of changes that have already occured in the long-term a	nnual
rainfall patterns in the area defined in Section 3? (please select one only)	

jn Yes jn No

15. If yes, what are the changes to long-term annual rainfall that you are aware of? (please select one only per row)

	Increase	Decrease	Unchanged
Average annual rainfall	j n	jη	jα
Rainfall intensity (mm	j 'n	j n	j n

16. For the area defined in Section 3, has the rainy or wet season been getting: (please select one only)

ì	Longer	in Shorter	in No change	'n	Rainfall is not seasonal
- 1	2090.	00.10.	110 01141190	1.21	mannan io not ocacona.

17. Are your answers in this section based on: (select as many as are appropriate)

ė	Referenced report (if available, please add)	é	Own perception
é	Discussion with local community	é	Monitoring data
é	Other (please specify)		

18. Are you changing your strategy for the implementation of drinking-water supply and sanitation options based on your awareness of changes in long-term annual rainfall? (please select one only per row)

	Yes	No
Drinking-water supply	j a	jn
Sanitation	jn	Ĵη

19.	Do you	feel tha	at there	is ad	equate	informati	on relati	ng to	climate	change
pre	dictions	availa	ble for y	our a	rea?(p	olease sele	ct one o	nly)		

No

5. Year-to-year changes in drinking-water sources

These questions refer to the drinking-water sources in the area defined in Section 3. For each drinking-water source below, please indicate any year-to-year changes. Please give only one answer per row.

For each section under "Evidence" please give the reason for any noted change, an indication of the time scale if known, and the knowledge source. For example the source might include a referenced report, own perception, local knowledge, monitoring data, etc.

20. Groundwater

	Risen	Fallen	Stable	More variable	Unknown
Average groundwater level	ja	ja	jα	jα	jα
Evidence					

21. Rivers

	Risen	Fallen	Stable	More variable	Unknown
Average levels	jn	ja	jn	jα	jα
Maximum levels	jn	j n	jn	j n	j m
Minimum levels	jn	ja	j'n	jα	jα
Frequency of flooding	j n	j n	jn	j n	j n
Frequency of droughts	ja	jα	j'n	jα	ja
Evidence					

22. Lakes

	Risen	Fallen	Stable	More variable	Unknown
Average levels	j 'n	ja	ja	jα	j n
Evidence					

23. Rainwater

	Increased	Decreased	More variable	Remained stable	Unknown
Availability	j a	jα	j'n	jα	j n
Evidence					
		1			

24. Quality of drinking-water source

	Improved	Deteriorated	More variable	No change	Unknown
Groundwater	jn	j n	j n	jα	j m
Rivers	j'n	j n	j 'n	j m	j m
Lakes	j'n	j a	j n	jα	j m
Rainwater	j m	jn	j m	j m	j m
Evidence					

25. Please use this box to provide further details of evidence

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6. Climate predictions

These questions refers to any climate predictions for the area defined in Section 3. Please identify what impact the predicted changes in climate might have on components of water resources in the area? Please give the reason for any noted change, and the knowledge source in the box provided at the bottom of the page if different from the NHMS statement in Question 12. For example the source might include a referenced report, own perception, local knowledge, monitoring data, etc.

Please select only one answer per row.

26. Climate predictions - hydrology

	Increase	Decrease	More variable	No change	Unknown
Run-off	ja	j'n	ja	ja	j n
Groundwater recharge	j n	j m	j n	j m	j m
Floods	jα	j n	jα	jα	j m
Storms	j n	j m	jn	j m	j m
Droughts	jα	j n	jα	jα	j m
Sea level	j n	j n	jn	j n	j m
Other extreme events (please specify)	ja	j a	jη	jα	j'n
Other extreme events:					

27. Climate predictions - water quality

	Improve	Deteriorate	More variable	No change	Unknown
Surface water quality	jα	jα	jα	j α	jα
Groundwater quality	rn	rn	i ro	iro	in

28. Please use this box to provide details of evidence for climate predictions if different from NHMS statement detailed in Section 3

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7. Drinking-water and sanitation options

Which of the following drinking-water and sanitation options are in use in the area defined in Section 3? Please rank these (where 1 is the dominant source in use and 10 is the least used option).

Please interpret 'dominant' as referring to the option which serves the greatest number of people.

Only one answer per row and per column.

29. For URBAN areas, please rank the following drinking-water sources in use from 1-10.

	1 - Most	2	3	4	5	6	7	8	9	10 - Least common	N/A
Piped water supply	ja	jn	jα	jα	jn	jα	ja	jα	jη	ja	ja
Public standpipes	jn	j n	jn	j n	jn	jn	jn	j n	jn	j n	jn
Borehole	ja	<u>J</u> n	jn	jn	jn	jn	jn	jn	jn	j n	ţn
Protected dug well	jn	jn	jn	jn.	jn	jn	jn	j n	jm	j n	jn
Protected spring	jα	jn	jα	jα	ja	ja	ja	jα	jη	ja	jη
Unprotected well	j m	jn	jm	j m	jn	jn	jn	j n	jm	j n	jn
Unprotected spring	jα	jn	jα	jα	ja	ja	ja	jα	jη	ja	jn
Untreated surface water	j n	jn	jm	j n	jn	jn	jn	j n	jm	j n	jn
Rainwater	jα	jn	jα	jα	jα	ja	ja	jα	jη	ja	jη
Other (please specify at end of section)	jn	jn	jm	j n	jn	jn	jn	j n	jm	jn	jn

30. For RURAL areas, please rank the following drinking-water sources in use from 1-10.

	1 - Most							10 -			
	common	2	3	4	5	6	7	8	9	Least common	N/A
Piped water supply	jn	ja	j'n	j'n	jα	jα	jα	j'n	jn	jn	jα
Public standpipes	j m	j m	j n	j n	jn	jn	jn	j n	j'n	jn	jn
Borehole	ja	jα	j'n	j'n	ja	jn	jα	jα	ja	ja	ja
Protected dug well	j m	j m	j n	j n	jn	jn	jn	j n	j'n	jn	jn
Protected spring	j n	jα	j'n	j'n	ja	jα	ja	jα	ja	ja	ja
Unprotected well	j m	j m	j n	j n	jn	jn	jn	j n	j'n	jn	jn
Unprotected spring	ja	jα	j'n	j'n	ja	jn	jα	jα	ja	ja	ja
Untreated surface water	j m	jn	j m	j m	jn	jm	jn	j n	jn	jn	j n
Rainwater	j n	jn	j'n	jα	ja	ja	ja	jα	jn	jn	ja
Other (please specify)	j n	jn	j n	j m	jn	jm	jn	j n	jn	jn	m

31. For URBAN areas, please rank the following sanitation options in use from 1-9.

	1 - Most common	2	3	4	5	6	7	8	9 - Least common	N/A
Connection to a public sewer	jα	jn	j n	jn	jα	ja	j ta	ja	ja	ja
Pour-flush latrine	jn	jn	j n	jn	j n	j n	j n	jn	j n	jn
Connection to a septic system	ţn	jη	jα	j n	jα	jα	j'n	jn	jη	ja
Ventilated improved pit latrine	j n	jn	j n	jn	jn	j n				
Service or bucket latrines	s ja	jn	j n	jn	ja	ţa	j n	ja	jα	ja
Public latrines	jn	jm	j n	jn	j m	j n	j m	j m	j n	jn
Open latrines	jn	jη	ja	ja	ja	ja	jα	ja	jn	jn
Open defaecation	jn	jm	j n	jn	j m	j m	j n	jm	jn	jm
Other (please specify)	jα	jn	ja	ja	jn	ja	ja	ja	ja	jn

32. For RURAL areas, please rank the following sanitation options in use from 1-9.

					_		•			
	1 - Most	2	3	4	5	6	7	8	9 - Least common	N/A
Connection to a public sewer	jα	jn	j'n	jn	jα	jn	j'n	ja	jα	j n
Pour-flush latrine	j n	jn	j n	jm	j n	jn.				
Connection to a septic system	jα	jη	ja	ja	j'n	ja	j'n	ja	jα	j n
Ventilated improved pit latrine	jn	j'n	jn	j n	j n	jn	j n	j n	jn	j m
Service or bucket latrines	jn jn	jn	ja	ja	ja	ja	j ta	jn	jn	ţa
Public latrines	j n	jm	j n	j n	j m	j n	j m	jn	jn	jn
Open latrines	ja	ja	j n	ja	ja	ja	j n	ja	ja	ja
Open defaecation	jn	jn	j n	j n	jn	j n	j n	jn	jn	jn
Other (please specify)	ja	jη	j a	ja	ja	ja	j a	jn	ja	j ra

33. Please use this box to provide information of other drinking-water supply and sanitation options used in your area, and their prevalence.

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8. Vulnerability and reliability (in terms of quality and quantity) of the opt...

Please indicate where there have been any failures of the water supply or sanitation options in the past two years.

34. Have you experienced any failures in the drinking-water supply options over the past two years? (please select one only per row)

	Yes, commonly	Yes, intermittently	Yes, rarely	No	Not applicable
Piped water supply	<u>J</u> a	ja	jn	jn	jn
Public standpipes	jn	j n	jn	j n	j n
Borehole	ja	ja	j'n	jα	j n
Protected dug well	jn	j n	j n	j n	j n
Protected spring	ja	ja	j'n	jα	j n
Unprotected well	jn	j n	j n	j n	j n
Unprotected spring	ja	ja	j'n	jα	j n
Untreated surface water	jn	jn	j n	j n	j n
Rainwater	ja	ja	jα	jα	j'n
Other (please specify)	jn	jn	j n	j n	j n
Other (please specify)					

35. If yes, what were the circumstances around the failure(s) of the drinkingwater supply options? (eg technology failure, pollution event, climatic event..etc)



36. Have you experienced any failures in the sanitation options over the past two years? (please select one only per row)

	Yes, commonly	Yes, intermittently	Yes, rarely	No	Not applicable
Connection to a public sewer	j'n	jα	jα	jα	j α
Connection to a septic system	j m	jm	j m	jm	j m
Pour-flush latrine	j n	jα	ja	ja	j a
Ventilated improved pit latrine	j n	j n	j n	j m	j n
Public latrines	j n	jα	ja	jn	j a
Open latrines	j n	j n	jn	j n	j n
Other (please specify)	j n	jα	ja	ja	j a
Other (please specify)					

37. If yes, what were the circumstances around the failure(s) of the sanitation options? (eg technology failure, climatic event..etc)

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38. In your opinion, if climate change is predicted to result in a significant *increase* in rainfall for the area defined in Section 3, how would that affect the vulnerability to failure of the drinking-water supply options? (please select one only per row)

	Increased vulnerability	Decreased vulnerability	No change	
Piped water supply	ja	ja	jη	
Public standpipes	j m	j m	j n	
Borehole	j'n	j n	jη	
Protected dug well	j m	j n	j n	
Protected spring	j 'n	j'n	jα	
Unprotected well	j m	j n	j n	
Unprotected spring	j'n	j n	jη	
Untreated surface water	j m	j n	j n	
Rainwater	j'n	j n	jη	
Please provide information on the key problems or benefits that you foresee				
	<u>~</u>			

39. In your opinion, if climate change is predicted to result in a significant *decrease* in rainfall for the area defined in Section 3, how would that affect the vulnerability to failure of the drinking-water supply options? (please select one only per row)

	Increased vulnerability	Decreased vulnerability	No change
Piped water supply	increased valuerability	in Decreased value ability	in
Public standpipes	<u>†</u> n	ţn .	ţn
Borehole	j'n	j n	jn
Protected dug well	jn	j n	jη
Protected spring	ja	jn	ja
Unprotected well	jn	j n	jη
Unprotected spring	j n	j n	ja
Untreated surface water	j 'n	j n	j n
Rainwater	j 'n	j n	ja

Please provide information on the key problems or benefits that you foresee

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40. In your opinion, if climate change is predicted to result in a significant increase in the frequency and severity of storms for the area defined in Section 3, how would that affect the vulnerability to failure of the drinking-water supply options? (please select one only per row)

	Increased vulnerability	Decreased vulnerability	No change	
Piped water supply	jn	j α	jn	
Public standpipes	j n	j n	j n	
Borehole	j'n	j n	j n	
Protected dug well	j 'n	j 'n	j'n	
Protected spring	j'n	j n	j'n	
Unprotected well	j n	j n	j n	
Unprotected spring	j'n	j 'n	j'n	
Untreated surface water	j n	j n	j n	
Rainwater	j'n	j 'n	j'n	
Please provide information on the key problems or benefits that you foresee				

41. In your opinion, if climate change is predicted to result in a significant increase in rainfall for the area defined in Section 3, how would that affect the vulnerability to failure of the sanitation options? (please select one only per row)

(product on the cumulation options)				
	Increased vulnerability	Decreased vulnerability	No change	
Connection to a public sewer	jп	j n	j n	
Pour-flush latrine	j n	j m	j n	
Connection to a septic system	jп	j'n	jη	
Ventilated improved pit latrine	j n	j'n	j'n	
Service or bucket latrines	j a	jп	j n	
Public latrines	j n	j n	j 'n	
Open latrines	j a	j n	j n	
Open defaecation	j n	j n	j n	
Please provide information	on the key problems or benefits	that you foresee		

42. In your opinion, if climate change is predicted to result in a significant *decrease* in rainfall for the area defined in Section 3, how would that affect the vulnerability to failure of the sanitation options? (please select one only per row)

	Increased vulnerability	Decreased vulnerability	No change	
Connection to a public sewer	j n	jη	jη	
Pour-flush latrine	j n	j n	j n	
Connection to a septic system	j n	j o	jη	
Ventilated improved pit latrine	j'n	j m	j'n	
Service or bucket latrines	jα	jα	j n	
Public latrines	j m	j n	j m	
Open latrines	jα	jα	j n	
Open defaecation	j m	j n	j n	
Please provide information on the key problems or benefits that you foresee				
	<u>^</u>			

43. In your opinion, if climate change is predicted to result in a significant *increase* in the frequency and severity of storms for the area defined in Section 3, how would that affect the vulnerability to failure of the sanitation options? (please select one only per row)

	Increased vulnerability	Decreased vulnerability	No change
Connection to a public sewer	j a	jη	jη
Pour-flush latrine	jn	j m	j n
Connection to a septic system	ja	jη	jη
Ventilated improved pit latrine	j n	j n	j n
Service or bucket latrines	jα	ja	j'n
Public latrines	j n	j n	jn
Open latrines	jα	ja	j'n
Open defaecation	j m	j 'n	j 'n
Please provide information o	n the key problems or benefit	s that you foresee	
	<u>A</u>		

9. Changing drinking-water supply and sanitation options

This section refers to the drinking-water supply and sanitation options selected in Section 7. Are these changing, or likely to change in the near future?

44. How is the use of drinking water-supply options changing? (please select one only per row)

	Increasing use	Decreasing use	No change
Piped water supply	jn	ja	jn
Public standpipes	j m	j n	j n
Borehole	j n	j n	j'n
Protected dug well	j n	j n	j'n
Protected spring	j'n	ja	j n
Unprotected well	j m	jn	j n
Unprotected spring	j'n	ja	j n
Untreated surface water	j m	jn	j n
Rainwater	j'n	j n	j η

45. What are the drivers behind the changes in use of drinking-water supplies? (if there is more than one, please rank according to importance, with 1 being the most important driver)

·	1 - Most important	2	3	4	5	6	7	8	9 - Least important
Economy	j ta	jn	ja	ja	j n	ja	j ta	j ta	ţa
Ease of use	j m	jn	jn	jn	j m	j m	j m	j n	j m
Climate change	j ta	jn	jn	ja	ja	ja	j n	j n	ja
Improved technology	j m	jn	jn	jn	j m	j m	j m	j n	j m
Community preferences	j ta	jn	jn	ja	ja	ja	j n	j n	ja
Risk assessments	j m	jm	jn	jn	j n	j n	j n	jn	jn
Government policy/legislation	j'n	jn	ja	ja	jn	ja	j'n	j'n	ja
NGO policy	j m	jn	jn	jn	j m	j m	j m	jn	j n
Other (please specify)	jn	jα	ja	jn	jα	jα	ja	jn	ja

46. Is your answer for the previous two questions based on: (select as many as are appropriate)

e	Referenced report (if	ė Dis	scussion with local	e	Own perception	e	Monitoring data
avai	lable, please add)	commu	inity				
é	Other (please specify)						

47. How is the use of sanitation options changing? (please select one only per row)

	Increasing use	Decreasing use	No change
Connection to a public sewer	j'n	jп	jα
Pour-flush latrine	j n	j m	j n
Connection to a septic system	j 'a	jn	ja
Ventilated improved pit latrine	j 'n	j 'n	j n
Service or bucket latrines	j n	ja	j'n
Public latrines	j n	j n	j n
Open latrines	j n	j n	jn
Open defaecation	j n	j 'n	j n

48. What are the drivers behind the changes in use of the sanitation options? (if there is more than one, please rank according to importance, with 1 being the most important driver)

•	1 - Most important	2	3	4	5	6	7	8	9 - Least important
Economy	jn	jn	ja	ja	ja	ja	j n	j n	jn
Ease of use	jn	jn	jn	jn	jn	j m	j m	j n	j n
Climate change	jn	jn	jn	jn	ţn	j n	ja	ja	ja
Improved technology	jn	jn	jn	j n					
Community preferences	jn	jn	jn	jn	ţn	j n	ja	ja	ja
Risk assessments	j n	jn	jn	jn	j n	j n	j n	j n	jn
Government policy/legislation	jα	jα	jα	jα	jα	j'n	jη	j'n	j a
NGO policy	jn	jn	jn	jn	jn	j n	j n	j n	j n
Other (please specify)	jn	jη	jn	ja	j n	j n	ja	j n	jα

49. Is your answer for the previous two questions based on: (select as many as are appropriate)

•	Referenced report (if lable, please add)	e com	Discussion with loca munity	al é	Own perception	(É	Monitoring data
ė	Other (please specify)							

10. Policy issues

This section relates to government, NGO and other policies in place or in draft that relate to the implementation of drinking-water supply and sanitation options.

50. For drinking-water supply options, are the relevant policies (please select as many as relevant):

	Adequate for present climate conditions	Adequate for predicted climate conditions	Inadequate for present climate conditions	Inadequate for predicted climate conditions	Don't know	No policy
Government policy	é	e	é	é	é	é
NGO policy	é	é	é	é	é	é
Other policy	é	ē	é	é	é	é

51. For sanitation options, are the relevant policies (please select as many as relevant):

	Adequate for present climate conditions	Adequate for predicted climate conditions	Inadequate for present climate conditions	Inadequate for predicted climate conditions	Don't know	No policy
Government policy	é	é	é	é	é	é
NGO policy	é	é	é	é	é	é
Other policy	é	é	é	e	é	é

52. For the area defined in Section 3, are you aware of any policies (governmental, NGO or other) in place or in draft that deal with issues surrounding potential climate changes and drinking-water and sanitation options?

jn Yes	jn No
If Yes, please give details	
	<u> </u>
	V

53. Are you aware of any planned changes to policy in the area of drinking-water supply and sanitation in response to climate change: (only one answer per row)

	Has been reviewed	Under review	Planned review	No review	Don't know
Drinking-water supply	j'n	ja	j a	ja	ja
Sanitation	łn	m	ro	m	in

54. Give your view as to how policies are being implemented in the area defined in Section 3 with respect to drinking-water supply and sanitation to address climate change. Please specify whether these are government, NGO or other policies.

