	Questio	es Committee 2011 ons Taken On Notice 06/2011 to 23/06/2011 )
Date:	14/06/2011	Output:
		Sub Output:
Subject:	Testing of Parliamer	t House Cooling Towers for Legionella
F10h	n:Mr Terry Mills to Sp Department of the L	0
<b>Question:</b>	<b>2-3</b> Could you please tab	ble the results of the testing of the Parliament House
	· 1	egionella, the monthly tests?
Answer:	22/06/2011	
Answered On:	23/06/2011	

## Estimates Committee Questions on Notice to the Speaker

### Question 2.3

### Testing of Parliament House Cooling Towers for Legionella From Mr Terry Mills to Speaker Jane Aagaard Department of the Legislative Assembly

Mr MILLS: Could you please table the results of the testing of the Parliament House cooling towers for Legionella, the monthly tests?

### Answer

Laboratory testing of the Parliament House cooling towers is undertaken on behalf of the Legislative Assembly by Lab Mark Environmental Laboratories which is engaged by the Department of Construction and Industry.

The results of the tests undertaken for the months July to April 2011 indicated legionella results as <10 which effectively indicates legionella is not present.

Attached are the monthly reports for July to April.

The testing intended to occur in February 2011 was delayed by the advent of Tropical Cyclone Carlos and the result for March is the indicative result.



271598

Jul 28, 2010

60145322 (Cooling Tower)

AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

#### Attention: CHANTAL.WILSON

Project

Ì

Client Reference

Received Date

### Certificate of Analysis



NATA Accredited Laboratory Number 1645

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traccable to national standards of measurement. This document shall not be reproduced, except in full.

Customer Sample ID			CT 1	CT 2	CT 3	CT 4
Sample Matrix			Water	Water	Water	Water
mgt-Labmark Sample No.			10-JL25703	10-JL25704	10-JL25705	10-JL25706
Date Sampled			Jul 27, 2010	Jul 27, 2010	Jul 27, 2010	Jul 27, 2010
Test/Reference	PQL	Unit				
Heterotrophic Colony Count		cfu/mL	<100	<100	<100	<100
	-					
Total Legionellae	-	cfu/mL	<10	<10	<10	<10



AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

### Certificate of Analysis



NATA Accredited Laboratory Number 1645

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of moasurement. This document shall not be reproduced, except in full.

Attention: CHANTAL.WILSON

Project	
Client Reference	
Received Date	

1

Num.

274389 COOLING TOWER 60145322 Aug 25, 2010

Client Sample ID			CT 1	CT 2	CT 3	CT 4
Sample Matrix			Water	Water	Water	Water
mgt-Labmark Sample No.			10-AU22896	10-AU22897	10-AU22898	10-AU22899
Date Sampled			Aug 24, 2010	Aug 24, 2010	Aug 24, 2010	Aug 24, 2010
Test/Reference	PQL	Unit				
Micro - Cooling Tower Screen						
Heterotrophic Colony Count	_	cfu/mL	<100	<100	<100	<100
Total Legionellae	-	cfu/mL	<10	<10	<10	<10



AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

# NATA WORLD RECOGNISED ACCREDITATION

Certificate of Analysis

NATA Accredited Laboratory Number 1645

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

Attention: CHANTAL.WILSON

. .

Ì

Project	278046
Client Reference	COOLING TOWER(60145322)
Received Date	Sep 29, 2010

Client Sample ID Sample Matrix mgt-LabMark Sample No. Date Sampled Test/Reference	PQL	Unit	CT 1 CT 2 Water Water 10-Se24059 10-Se24060 Sep 28, 2010 Sep 28, 2010 nit		CT 3 Water 10-Se24061 Sep 28, 2010	CT 4 Water 10-Se24062 Sep 28, 2010
Heterotrophic Colony Count		-6.1-1				
Total Legionellae		cfu/mL cfu/mL	<u>~120</u> <10	<u>&lt;100</u> 10	<100	~100
Legionella Serogroups			1			~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
L.pneumophila, serogroup 1		cfu/mL	-	<10		
pneumophila, serogroup 2-14		cfu/mL	-	10		
Legionellae, Other Species		cfu/mL		<10		

. .



#### Attention:CHANTAL.WILSON

AECOM Australia P/L-NT

SUITE 3 17-19

Lindsay St Darwin NT 0801

### Certificate of Analysis



The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

NATA Accredited Laboratory Number 1645

Report279658Client ReferenceCOOLING TOWER (60145322)Received DateOct 14, 2010

Client Sample ID Sample Matrix			CT1 Water		CT 2 Water		CT 3 Water	CT 4 Water
mgt-LabMark Sample No.			10-Oc21	862	10-Oc2186	3	10-Oc21864	10-Oc21865
Date Sampled			Oct 13, 2		Oct 13, 201	0	Oct 13, 2010	Oct 13, 2010
Test/Reference	PQL	UNIT						
Micro - Cooling Tower Screen								
Heterotrophic Colony Count	-	cfu/mL	<10	0	<100		<100	<100
Total Legionellae	-	cfu/mL	<1	0	<10		<10	<10
Client Sample ID				WATE		WA.	TER OUTLET	QA/QC 1
Sample Matrix				Water		Wat	er	Water
mgt-LabMark Sample No.				10-Oc	21866	10-0	Dc21867	10-Oc21868
Date Sampled				Oct 13	8, 2010	Oct	13, 2010	Oct 13, 2010
Test/Reference		PQL	UNIT					
Micro - Cooling Tower Screen								
Heterotrophic Colony Count		-	cfu/mL		<100		<100	<100
Total Legionellae			cfu/mL		<10		<10	<10

#### Sample History

7

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

۲ - ۲	Description Nicro - Cooling Tower Screen Method: 6532: Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours Method: 6600:Legionellae in Water AS/NZS3896:2008	Testing Site Clayton	Extracted Oct 14, 2010	Holding Time 24 Hour
(	Comments			
S	Sample Integrity			
C	Custody Seals Intact (if used)		N/A	
A	Itempt to Chill was evident		Yes	
5	Sample correctly preserved		Yes	
C	Organic samples had Teflon liners		No	
s	amples received with Zero Headspace		No	
s	amples received within HoldingTime		Yes	
S	tome samples have been subcontracted		No	
ļ	Authorised By			

### Glenn Jackson

NATA Signatory

This Report has been authorised by Niloufer Lobo (NATA Signatory - Accreditation #1645).

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service



#### Attention:CHANTAL.WILSON

AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

Ì

Report283344Client ReferenceCOOLING TOWER 60145322Received DateNov 23, 2010

Client Sample ID			CT1		CT2		СТЗ	CT 4
Sample Matrix			Water		Water		Water	Water
mgt-LabMark Sample No.			10-No21	386	10-No2138	7	10-No21388	10-No21389
Date Sampled			Nov 22, 2	2010	Nov 22, 20	10	Nov 22, 2010	Nov 22, 2010
Test/Reference	PQL	UNIT						
Micro - Cooling Tower Screen								
Heterotrophic Calony Count		cfu/mL	1200	00	180000	)	-4500	2200
Total Legionellae		cfu/mL	<1	D	<10		<10	<10
Client Sample ID				WAT	ER NTAIN	WA	TER OUTLET	QA/QC 1
Sample Matrix				Wate	r	Wat	ter	Water
mgt-LabMark Sample No.				10-No	o21390	10-1	No21391	10-No21392
Date Sampled				Nov 2	22, 2010	Nov	/ 22, 2010	Nov 22, 2010
Test/Reference		PQL	UNIT			<u> </u>		
Micro - Cooling Tower Screen								
Heterotrophic Colony Count		•	cfu/mL		<100		180000	90000

cfu/mL

#### Sample History

Total Legionellae

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Reviewed by :

Date : ...

Description	Testing Site	Extracted	Holding Time
Micro - Cooling Tower Screen	Clayton	Nov 23, 2010	24 Hour
Melhod: 6632. Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours			

hantalwilsan

Project number : 60145322

10

- Method: 6600.Legionellae in Water AS/NZS3896:2008

#### Comments

Sample Integrity

Custody Seals Intact (if used) Attempt to Chill was evident Sample correctly preserved Organic samples had Tefton liners Samples received with Zero Headspace Samples received within HoldingTime Some samples have been subcontracted

Authorised By

1.70 and the second

Glenn Jackson NATA Signatory

Final report - this Report replaces any previously issued Report - Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

mgl-LabMark 1868 Dandenong Rd, Clayton, VIC Australia 3168 ABN : 50 005 085 521 Telephone: +61 3 9265 9300 Facsimile: +61 3 9265 9355

### Certificate of Analysis

NATA Accredited Laboratory Number 1645



The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are increable to naboral slandards of measurement This document shall not be reproduced, except in full.

Yes	
Yes	
No	
No	
Yes	
No	

N/A

<10

<10

<10



### Certificate of Analysis

Attention:CHANTAL.WILSON

AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

**Client Reference** Received Date

Report

285687 COOLING TOWER WATER SAMPLES 60145322 Dec 15, 2010

Client Sample ID		1	CT1	CT2	СТЗ	CT4
Sample Matrix			Water	Water	Water	Water
mgt-LabMark Sample No.			10-De06671	10-De06672	10-De06673	10-De06674
Date Sampled		1	Dec 14, 2010	Dec 14, 2010	Dec 14, 2010	Dec 14, 2010
Test/Reference	LOR	UNIT				
Micro - Cooling Tower Screen						
Heterotrophic Colony Count	-	cfu/mL	1100000	910000	700	29000
Total Legionellae		cfu/mL	<10	<10	<10	<10

			FOUNTAIN	In ATER OULE	0,000
Sample Matrix			Water	Water	Water
mgt-LabMark Sample No.			10-De06675	10-De06676	10-De06677
Date Sampled			Dec 14, 2010	Dec 14, 2010	Dec 14, 2010
Test/Reference	LOR	UNIT			
Micro - Cooling Tower Screen					
Heterotrophic Colony Count	-	cfu/ml.	<100	950000	100000
Total Legionellae	-	cfu/mL	<10	<10	<10

#### Sample History

Where samples are submitted/analysed over several days, the fast date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Micro - Cooling Tower Screen	Oakleigh	Dec 15, 2010	24 Hour

- Method: 6632: Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours

- Method: The compliance limit for HCC in Cooling Tower water is 200000 cfu/ml. The associated Expanded Uncertainty at 95%Ct is 130000-300000

- Melhod: 6600:Legionellae in Water AS/NZS3896:2008

#### Comments

j

Clayton Laboratory :NATA accredited Laboratory No. 1645

Sample Integrity	
Cusledy Seals Intact (if used)	
Attempt to Chill was evident	
Sample correctly preserved	
Organic samples had Telfon liners	
Sample containers for volatile analysis received w	nth minimatheadepare
Samples received within HoldingTime	
Some samples have been subcontracted	Project number : 10145327
Authorised By	
and the second sec	Reviewed by : C. UMLSCN (PM)
	23/10/10
Michael Wright	Date : $\frac{\partial O}{\partial I} \frac{\partial I}{\partial V}$
NATA Signatory	

Final report - this Report replaces any previously issued Report

Indicates Not Reconstant First Reported: Dec 23, 2010 Date Reported: Dec 23, 2010



The lesis covered by this document have been performed in accordance with NATA and ISO/ES 17025 and are inceable to nativen I standards of measurement. This document shall not be reproduced, except in full



#### Attention:Alana Eggleton

#### **AECOM Australia** P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

ì

Report 288440 **Client Reference** COOLING TOWER 601 45322 Received Date Jan 25, 2011

Client Sample ID			CT1		CT2		СТ 3	CT 4
Sample Matrix			Water		Water		Water	Water
mgt-LabMark Sample No.			11-JA074	472	11-JA0747:	3	11-JA07474	11-JA07475
Date Sampled			Jan 24, 2	2011	Jan 24, 201	1	Jan 24, 2011	Jan 24, 2011
Test/Reference	LOR	UNIT						
Micro - Cooling Tower Screen								
Heterotrophic Colony Count	-	cfu/mL	1000	00	78000		29000	~11000
Total Legionellae	-	cfu/mL	<1(	0	<10		<10	<10
Client Sample ID				WATE		WA	TER OUTLET	QA/QC 1
Sample Matrix				Water	r	Wat	ter	Water
mgt-LabMark Sample No.				11-JA	07476	11~	JA07477	11-JA07478
Date Sampled				Jan 2	4, 2011	Jan	24, 2011	Jan 24, 2011
Test/Reference		LOR	UNIT					
Micro - Cooling Tower Screen								
Heterotrophic Colony Count		-	cfu/mL		19000		21000	130000
Total Legionellae		-	cfu/mL		<10		<10	<10

#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Micro - Cooling Tower Screen	Oakleigh	Jan 25, 2011	24 Hour
- Method: 6632: Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours			

- Method: The compliance limit for HCC in Cooling Tower water is 200000 cfu/ml. The associated Expanded Uncertainty at 95%CI is 130000-300000 - Method: 6600:Legionellae in Water AS/NZS3896:2008

#### Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Tefton liners	No
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Aler- St

Michael Wright **NATA Signatory** 

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

First Reported: Feb 01, 2011 Date Reported: Feb 01, 2011

mgt-LabMark 2-5 Kingston Town Close, Oakleigh, Victoria, Australia, 3166 ABN : 50 005 085 521 Telephone: +61 3 9564 7055 Facsimile: +61 3 9564 7190

### Certificate of Analysis



The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measurement. This document shall not be reproduced, except in full.

NATA Accredited Laboratory Number 1261 & 1645



### Attention:Robin Bir

**AECOM Australia** P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

**Client Reference** Received Date

Report

ì

293005 COOLING TOWER WATER SAMPLES 60145322 Mar 10, 2011

······································						
Client Sample ID			CT 1	CT 2	СТ 3	CT 4
Sample Matrix			Water	Water	Water	Water
mgt-LabMark Sample No.			11-MA05716	11-MA05717	11-MA05718	11-MA05719
Date Sampled			Mar 09, 2011	Mar 09, 2011	Mar 09, 2011	Mar 09, 2011
Test/Reference	LOR	UNIT				
Micro - Cooling Tower Screen						
Heterotrophic Colony Count	-	cfu/mL	~110	<100	<100	<100
Total Legioneliae	-	cfu/mL	<10	<10	<10	<10

Client Sample ID			WATER FOUNTAIN	WATER OUTLET	QA/QC1
Sample Matrix			Water	Water	Water
mgt-LabMark Sample No.			11-MA05720	11-MA05721	11-MA05722
Date Sampled			Mar 09, 2011	Mar 09, 2011	Mar 09, 2011
Test/Reference	LOR	UNIT			
Micro - Cooling Tower Screen					
Heterotrophic Colony Count	-	cfu/mL	<100	<100	<100
Total Legionellae	-	cfu/mL	<10	<10	<10

#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Time
Micro - Cooling Tower Screen	Melbourne	Mar 10, 2011	24 Hour
- Method: 6632: Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours			

- Method: The compliance limit for HCC in Cooling Tower water is 200000 cfu/ml. The associated Expanded Uncertainty at 95%Cl is 130000-300000

- Method: 6600:Legionellae in Water AS/NZS3896:2008

#### Comments

Sample Integrity	
Cuslody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Organic samples had Teflon liners	No
Sample containers for volatile analysis received with minimal headspace	No
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

J. C. All

Michael Wright **NATA Signatory** 

Final report - this Report replaces any previously issued Report - Indicates Not Requested

Indicates NATA accreditation does not cover the performance of this service
First Reported: Mar 17, 2011
Mar 17, 2011
Mar 17, 2011
ABN : 50 005 085 521 Telephone: +61 3 9564 7055 Facsimile: +61 3 9564 7055

### Certificate of Analysis

NATA Accredited Laboratory Number 1261 & 1645

NATA

WORLD RECOGNISED

The tests covered by this document have been performed in accordance with NATA and ISO/IES 17025 and are traceable to national standards of measuremont. This document shall not be reproduced, except in full.



#### Attention:Robin Bir

AECOM Australia P/L-NT SUITE 3 17-19 Lindsay St Darwin NT 0801

Ø

60145322 Apr 12, 2011

NATA

WORLD RECOGNINED ACCREDITATION



This document is issued in accordance with NATA's accrediation requirements. Accrediate for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measuremonts included in this document are traceable to Australiandiational standards.

Certificate of Analysis

#### Report 296202 Client Reference Received Date

Client Sample ID Sample Matrix mgt-LabMark Sample No. Date Sampled <u>Test/Reference</u>	LOR	UNIT	CT1 Water M11-Ap( Apr 11, 2		CT1 QA/Q0 Water M11-Ap04 Apr 11, 20	768	CT2 Water M11-Ap04769 Apr 11, 2011	CT3 Water M11-Ap04770 Apr 11, 2011
Micro - Cooling Tower Screen Heterotrophic Colony Count		- for local			0.000			
Total Legionellae	-	cfu/mL cfu/mL	2900 <1		240000	)	250000 <10	<u>&lt;100</u> <10
Client Sample ID				СТ4		1		MAKE UP POINT
Sample Matrix				Wate	-	Wa	UNTAIN ter	Water
mgt-LabMark Sample No.					Ap04771	1		M11-Ap04773
Date Sampled					1,2011	ł		Apr 11, 2011
Test/Reference		LOR	UNIT	·	,		,	
Micro - Cooling Tower Screen								
Heterotrophic Colony Count		-	cfu/mL		160000		~4300	<100
Total Legionellae		-	cfu/mL	T	<10		<10	<10

#### Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

Description	Testing Site	Extracted	Holding Tim
Micro - Cooling Tower Screen	Melbourne	Apr 12, 2011	24 Hour
- Method: 6632: Heterotrophic Colony Count - Pour Plate 36 degrees C 48 hours			
Method: The compliance limit for HCC in Cooling Tower water is 200000 cfu/ml. Method: 6600:Legionellae in Water AS/NZS3896:2008	The associated Expanded Uncertainty a	t 95%Cl is 130000-300000	
Comments			
Sample Integrity			
Custody Seals Intact (if used)		N/A	
Attempt to Chill was evident		Yes	
Sample correctly preserved		Yes	
Organic samples had Teflon liners		No	
Sample containers for votatile analysis received with minimal headspace		Yes	
Samples received within HoldingTime		Yes	
Some samples have been subcontracted		No	

Margh

Michael Wright **NATA Signatory** 

Final report - this Report replaces any previously issued Report - Indicates Not Requested

\* Indicates NATA accreditation does not cover the performance of this service

First Reported: Apr 19, 2011 Date Reported: Apr 19, 2011