

3 April 2020

Our Ref: SN941

Hon. Ian Hunter MLC
Parliament House
North Terrace
ADELAIDE SA 5000

Via email: hunter.office@parliament.sa.gov.au

Dear Mr Hunter

Freedom of Information – Determination

I refer to your application made under the *Freedom of Information Act, 1991* ("the Act") received by SA Water on 21 January 2020, seeking access to all documents relating to cryptosporidium in SA Water reservoirs dated between 1 January 2019 to 21 January 2020.

As confirmed in an email on 26 February 2020 from Mr Patrick Stewart of your office, you agreed to reduce the scope of your request to all water quality testing results, ministerial briefings and direct correspondence with Members of Parliament or their staff in relation to detection of cryptosporidium in SA Water reservoirs which are open, or planned to be opened, for recreational use (between 1 January 2019 and 21 January 2020).

Following SA Water's document discovery process, a total of 11 documents have been identified which fall within the scope of your request, as detailed in the attached document schedule. Based on my assessment of the documents, I have determined to provide you full access to six documents, partial access to one document, and refuse access to four documents based on their exempt status under the Act.

Section 20 of the Act provides that an agency may refuse access to sections of a document (or parts thereof) if the information is considered exempt pursuant to the provisions listed under Schedule 1 to the Act. The documents and parts thereof which I consider exempt and the reasons for the exemption are explained in more detail below.

Clause 17(c) of the Act states:

17—Documents subject to contempt

A document is an exempt document if it contains matter the public disclosure of which would, but for any immunity of the Crown—

...

(c) infringe the privilege of Parliament.

Document 4 is an email to the Office of the Minister for Environment and Water which contains a briefing and attached draft responses to questions taken on notice during the Estimates Hearing Committee on 30 July 2019. Document 5 is an email to the Office of the Minister for Environment and Water which contains an extract of a Parliamentary briefing note. Documents numbered 10 and 11 are Parliamentary briefing notes created for the Minister for Environment and Water for the purpose of proceedings in

Parliament. It is my view that disclosure of these documents would infringe the Minister's Parliamentary privilege. Therefore, I have determined to refuse access to the draft responses to questions attached to document 4 and documents 5, 10 and 11 (in their entirety) pursuant to clause 17(c) of Schedule 1 to the Act.

Document 6 is a FOI determination in response to a request seeking access to a list of all SA Water Priority Type 1, Type 1 and Type 2 incidents between a specific date range. Section 20(1)(b) of the Act states that if a document is otherwise available for inspection (e.g. via internet sites, annual reports, newspapers, online publications etc.) access to the document can be refused. Therefore, I have determined to refuse access to document 6 and direct you SA Water's FOI disclosure log: <https://www.sawater.com.au/about-us/legislation-and-policies/freedom-of-information/disclosure-log>.

If you are dissatisfied with this determination, you are entitled to exercise your rights to internal review and appeal as outlined under Section 29 of the Act. To apply for an internal review, you must lodge an internal review application form with SA Water within 30 days from the date of this determination. Internal review applications should be addressed to the Principal Officer, GPO Box 1751, Adelaide SA 5001.

In accordance with the requirements of the Premier and Cabinet Circular PC045, details of your FOI application, a copy of this notice of determination, a schedule of documents and the documents to which you have been given access, will be published on the SA Water website FOI disclosure log. A copy of PC045 can be found at <http://dpc.sa.gov.au/what-we-do/services-for-government/premier-and-cabinet-circulars>.

If you have any queries in relation to the above, if you object to publication of your application on the disclosure log, or if you wish to obtain a copy of the internal review application form, please contact me on telephone (08) 7424 1777 or via email at freedomofinformation@sawater.com.au.

Yours sincerely



Ben Roberts

ACCREDITED FREEDOM OF INFORMATION OFFICER

Freedom of Information application: SN941 - Ian Hunter - Cryptosporidium						
all water quality testing results, ministerial briefings and direct correspondence with Members of Parliament or their staff in relation to detection of cryptosporidium in SA Water reservoirs which are open, or planned to be opened, for recreational use (between 1 January 2019 to 21 January 2020).						
No	Date	Author	Document Description	Determination	Clause	Reason
1	N/A	SA Water	Cryptosporidium Reservoir water quality detection results	Full release		
2	N/A	SA Water	List of cryptosporidium water quality Type 1 and 2 incidents	Full release		
3	12/04/2019	SA Water	Email to Minister's office providing a Type 1 Briefing - Myponga cryptosporidium detection	Full release		
4	16/08/2019	SA Water	Email to Minister's office providing two responses to Estimates Hearing Questions on Notice	Partial release	Clause 17(c)	Infringe on the privilege of Parliament. Information outside the scope of the request removed
5	5/09/2019	SA Water	Email to Minister's office providing an extract of a Parliamentary briefing note	Exempt	Clause 17(c)	Infringe on the privilege of Parliament
6	1/10/2019	SA Water	FOI Determination to Dr Susan Close MP regarding Priority Type 1, Type 1 and Type 2 incidents	Exempt	Section 20(1)(b)	https://www.sawater.com.au/data/assets/pdf_file/0006/433869/SN925.pdf
7	28/10/2019	SA Water	Email to the Minister's office providing a Type 1 Briefing - Mt Pleasant Crypto detection	Full release		Information outside the scope of the request removed
8	14/11/2019	SA Water	Text message to Minister's office advisor regarding detection of cryptosporidium	Full release		
9	14/11/2019	SA Water	Email to Minister's office providing a Type 1 Briefing - Hope Valley cryptosporidium detection	Full release		
10	21/01/2020	SA Water	Parliamentary briefing note	Exempt	Clause 17(c)	Infringe on the privilege of Parliament
11	21/01/2020	SA Water	Parliamentary briefing note - Update	Exempt	Clause 17(c)	Infringe on the privilege of Parliament

SP ID	SP Desc	Type	Analysis Code	Component	Units	13/01/2020	06/01/2020	09/12/2019	18/11/2019	13/11/2019	11/11/2019	14/10/2019	12/09/2019	11/09/2019	09/09/2019	12/08/2019	08/07/2019	17/06/2019	13/05/2019	15/04/2019	12/04/2019	08/04/2019	04/03/2019	04/02/2019	14/01/2019
1101	Hope Valley WTP Inlet	INLET	ENTPROT 10	Cryptosporidium - Presumptive	/10L	<2		<2	<1	<1	<1	<2			<2	<2	<2	<2	<2			<2	<2	<2	<2
1292	Hope Valley WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium - Presumptive	/10L	<4		<3				<2			<4	<2		<4	<3			<2	<2	<2	<2
1292	Hope Valley WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium Raw Count	oocysts	0		0				0			0	0		0	0			0	0	0	0
1292	Hope Valley WTP Product Before Storage	PRODUCT	CRYPT INF2	Infectious FocI Raw Count	focI	0		0		0	0	0			0	0		0	0			0	0	0	0
1292	Hope Valley WTP Product Before Storage	PRODUCT	CRYPT INF2	Cryptosporidium Infectivity	%	0		0		0	0	0			0	0		0	0			0	0	0	0
1292	Hope Valley WTP Product Before Storage	PRODUCT	ENTPROT 10	Cryptosporidium - Presumptive	/10L				<4	<5							<3								
2072	Barossa WTP Inlet	INLET	ENTPROT 10	Cryptosporidium - Presumptive	/10L	<2	<3	<5		<1	<2	<2			<2	<2		<2	<2			<2	<2	<2	<3
1290	Barossa WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium - Presumptive	/10L	<5		<4		<5	<3	<3			<4	<4		<4	<5			<4	<4	<4	<3
1290	Barossa WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium Raw Count	oocysts	0		0		0	0	0			0	0		0	0			0	0	0	0
1290	Barossa WTP Product Before Storage	PRODUCT	CRYPT INF2	Infectious FocI Raw Count	focI	0	0	0		0	0	0			0	0		0	0			0	0	0	0
1290	Barossa WTP Product Before Storage	PRODUCT	CRYPT INF2	Cryptosporidium Infectivity	%	0	0	0		0	0	0			0	0		0	0			0	0	0	0
1290	Barossa WTP Product Before Storage	PRODUCT	ENTPROT 10	Cryptosporidium - Presumptive	/10L							<3					<3								
1091	Little Para WTP Inlet	INLET	ENTPROT 10	Cryptosporidium - Presumptive	/10L	<3		<3		<1	<2				<2	<3		<2	<2			<1	<1	<1	<3
1278	Little Para WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium - Presumptive	/10L	<6		<3		<4	<3	<3			<3	<3		<4	<3			<4	<4	<4	<3
1278	Little Para WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium Raw Count	oocysts	0		0		0	0	0			0	0		0	0			0	0	0	0
1278	Little Para WTP Product Before Storage	PRODUCT	CRYPT INF2	Infectious FocI Raw Count	focI	0	0	0		0	0	0			0	0		0	0			0	0	0	0
1278	Little Para WTP Product Before Storage	PRODUCT	CRYPT INF2	Cryptosporidium Infectivity	%	0	0	0		0	0	0			0	0		0	0			0	0	0	0
1270	Happy Valley WTP Inlet	INLET	ENTPROT 10	Cryptosporidium - Presumptive	/10L	<3		<3		<4	<3	<3			<4	<2		<3	<3			<3	<3	<3	<2
1270	Happy Valley WTP Inlet	INLET	ENTPROT 10	Cryptosporidium - Confirmed	/10L																				
1270	Happy Valley WTP Inlet	INLET	ENTPROT 10	Cryptosporidium hominis																		Not Detected	Not Detected		
1270	Happy Valley WTP Inlet	INLET	ENTPROT 10	Cryptosporidium parvum																		Not Detected	Not Detected		
1293	Happy Valley WTP Product Before Storage	PRODUCT	CRYPT INF1	Cryptosporidium - Presumptive	/10L	<2	<5	<5		<4	<3	<3			<4	<3		<4	<3			<3	<3	<3	<

<p>Definitions:</p> <p>ENTPROT_10 The terminology 'presumptive' refers to samples where oocysts are detected by antibody staining and microscopy. This includes organisms which are not intact or lack internal structures.</p> <p>The terminology 'confirmed' is applied when antibody-positive oocysts described above also react positively to the DNA-staining fluorochrome DAPI, or which are DAPI-impermeable but have recognisable internal structures consistent with <i>Cryptosporidium</i> or <i>Giardia</i>.</p> <p>C. hominis and C. parvum are responsible as the main causes of disease (cryptosporidiosis) in humans.</p>	<p>CRYPT_INF1, CRYPT_INF2, CRYPT_INF3 Cryptosporidium Raw Count Refers to the actual number of oocysts detected in a sample.</p> <p>Cryptosporidium – Presumptive Different to <i>Cryptosporidium</i> – Presumptive in the ENTPROT_10 method. Refers to the number of oocysts assumed to be present in a sample based on the volume of sample analysed and the recovery rate.</p> <p>Infectious foci Raw Count Refers to the actual number of foci detected in a sample. A single focus is a cluster of parasite lifecycles that have been derived from a single infective oocyst.</p> <p>Cryptosporidium Infectivity Refers to the percentage infectivity of oocysts present in a sample. It is based on the number of oocysts and the number of foci present in a sample. For example, if a sample contains 10 oocysts, and 5 foci are detected, it is assumed that 50% of the oocyst are infective.</p>
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Detection Date	Primary Incident Classification	SP, Zone, System	SAAM System Name (LIMS-SAAW)	Summary	SAAM System Category	Initial Sample Result
13/11/2019	Type 1	Hope Valley WTP, Hope Valley WTP Product, SP1292 Hope Valley WTP Product Before Storage	Hope Valley WTP	Crypto infectivity result was: Cryptosporidium Raw Count 1 oocysts at SP1292 Hope Valley WTP Product Before Storage. Sampled Date: 11/11/2019 09:35:00 AM	Drinking Water - Treated	Crypto Infectivity result was: Cryptosporidium Raw Count 1 oocysts
13/08/2019	Type 2	Happy Valley WTP, Happy Valley WTP Inlet, SP1270 Happy Valley WTP Inlet	Happy Valley WTP	Cryptosporidium - Confirmed 2 /10L and Giardia - Confirmed 5 /10L were detected in SP1270 Happy Valley WTP Inlet. Sample date: 12/08/2019 08:06:00 AM	Drinking Water - Raw	Cryptosporidium - Confirmed 2 /10L Giardia - Confirmed 5 /10L
13/08/2019	Type 2	Myponga WTP, Myponga WTP Inlet, SP2084 Myponga WTP Inlet	Myponga WTP	Cryptosporidium - Confirmed 2 /10L detected at SP2084 Myponga WTP Inlet. Sampled Date 12/08/2019 11:04:36 AM	Drinking Water - Raw	Cryptosporidium - Confirmed 2 /10L
18/06/2019	Type 2	Myponga WTP, Myponga WTP Inlet, SP2084 Myponga WTP Inlet	Myponga WTP	2084 - Myponga WTP Inlet - 17/06/2019 12:06:39 PM - Cryptosporidium - Confirmed 2 /10L	Drinking Water - Raw	Cryptosporidium - Confirmed 2 /10L
12/04/2019	Type 1	Myponga WTP, Myponga WTP Product, SP1298 Myponga WTP Product Before Storage	Myponga WTP	Sampling point: 1298 Myponga WTP Product Before Storage - Infectious Foci Raw Count 1 foci Sampled Date: 08/04/2019 08:07:32 AM, C.Parvum not Detected, C.hominis not Detected	Drinking Water - Treated	Infectious Foci Raw Count 1 foci
10/04/2019	Type 2	Happy Valley WTP, Happy Valley WTP Inlet, SP1270 Happy Valley WTP Inlet	Happy Valley WTP	1270 - Happy Valley WTP Inlet - 08/04/2019 01:45:58 PM - Cryptosporidium - Confirmed 3 /10L Cryptosporidium - Presumptive 3 /10L - C.parvum and C.hominis NOT detected	Drinking Water - Raw	Cryptosporidium - Confirmed 3 /10L

Roberts, Ben

From: Babaniotis, Con
Sent: Friday, 12 April 2019 5:46 PM
To: 'DEW:Minister Speirs Correspondence'
Cc: Harvey, Jadyne; 'Bailey, Cullen (DEW)'
Subject: Briefing for noting - Myponga WTP
Attachments: Type 1 - Myponga WTP Cryptosporidium.pdf

Importance: High

Good afternoon

Please find the attached briefing for the Minister to note.

Regards,

Con Babaniotis

MANAGER GOVERNMENT RELATIONS

Con.Babaniotis@sawater.com.au • 7424 3737 • 0422 325 629

250 Victoria Square/Tarntanyangga ADELAIDE SA 5000



sawater.com.au



SA Water respects and acknowledges the deep spiritual connection, knowledge and relationship Aboriginal and Torres Strait Islander people have to land and water.

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Document No: SN36580

TO: MINISTER FOR ENVIRONMENT AND WATER

FOR NOTING

**RE: TO ADVISE THE MINISTER OF A TYPE 1 INCIDENT - DETECTION OF
CRYPTOSPORIDIUM AT THE MYPONGA WATER TREATMENT PLANT
OUTLET BEFORE STORAGE**

Priority: High

Critical Date: 15 April 2019 at 3:00pm as per Type 1 protocol

1. RECOMMENDATIONS:

That you:

1. Note the incident notification contained in this briefing.

NOTED

Comments	<div data-bbox="995 1294 1362 1317" style="text-align: center;">-----</div> <div data-bbox="930 1355 1436 1541" style="text-align: center;">DAVID SPEIRS MP Minister for Environment and Water / / 2019</div>
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Incident Number 44617
Incident Type Type 1
Incident Date/ Time 12/04/2019 @ 14:05
Target Date/ Time 15/04/2019 @ 15:00

RELEVANT POINTS

Location Description Myponga Water Treatment Plant Product Before Storage
Location Type Water Treatment Plant
Sampling Regime Routine
Date Sampled 08/04/2019

RESULTS

Cryptosporidium	Presumptive: <u><5</u> oocysts/10L	Confirmed: <u>n/a</u> oocysts/10L
- <u>Speciation</u> .*		
<i>C. parvum</i> / <i>C. hominis</i>	NO <i>C. parvum</i> or <i>C. hominis</i> detected	
<i>C. parvum</i> group	None detected	
- <u>Infectivity assay</u> : #		
<i>Infectivity result</i>	Infectious - but not to humans	
<i>Genotyping result</i>	NO <i>C. parvum</i> or <i>C. hominis</i> detected	
Giardia	Presumptive: <u>n/a</u> cysts/10L	Confirmed: <u>n/a</u> cysts/10L
Incident Criteria	Infectious Cryptosporidium detected	
Duration	n/a	

NOTES ON SPECIATION:

* One of the two speciation tests is required when confirmed Cryptosporidium is detected. Speciation for *C. parvum* / *C. hominis* is requested when the detection is in treated water or upon advice by the Department for Health and Wellbeing & depending on availability of control samples. Otherwise, speciation for *C. parvum* group is requested.

** Not applicable means this particular test was not carried out

The Cryptosporidium infectivity assay test only applies to samples taken at the WTP outlet for Adelaide Metropolitan WTPs; Anstey Hill, Barossa, Happy Valley, Hope Valley, Little Para and Myponga.

AGENCIES NOTIFIED

Department for Health & Wellbeing Yes If Yes, Date/Time notified: 12/04/2019 @ 12:24
Environment Protection Authority N/A If Yes, Date/Time notified: dd/mm/yyyy @ hh:mm
Office of the Technical Regulator Yes If Yes, Date/Time notified: 12/04/2019 @ 14:16
Other: _____

SIGNIFICANCE

Does the Department for Health and Wellbeing consider results constitute a significant health risk? No

Does the Department for Health and Wellbeing consider results constitute a significant media interest? No

Does SA Water Senior Management consider results constitute a potential immediate high consequence? No

FOR PRIORITY TYPE 1 INCIDENTS ONLY:

Was an immediate interagency meeting required by the Department for Health and Wellbeing? (Choose)

If Yes, Date/Time of interagency meeting: dd/mm/yyyy @ hh:mm

If Yes, Agencies present at interagency meeting:

- ☐ SA Water
- ☐ Department for Health and Wellbeing
- ☐ Environment Protection Authority
- ☐ Office of the Technical Regulator
- ☐ Other _____

FUTURE MONITORING ACTIONS:

Sampling Regime: ☐ Routine ☒ Non-Routine

Location Type

<input type="checkbox"/> Catchment	<input type="checkbox"/> Reservoir - Indirect	<input type="checkbox"/> Reservoir - Direct
<input checked="" type="checkbox"/> Plant Inlet	<input checked="" type="checkbox"/> Plant Outlet	<input type="checkbox"/> Distribution
<input type="checkbox"/> Wastewater	<input type="checkbox"/> Recycled Water	

COMMENTS:

- Cryptosporidium can originate from the faecal matter of infected humans and larger animals including native animals and cattle. Certain species can be infectious to humans and, when ingested, can lead to gastric issues. Other species of Cryptosporidium are not infectious to humans.
- A sample taken from the Myponga WTP product water before storage showed an unusual result, with a single Cryptosporidium oocyst detected of a type that is not infectious to humans. Because of the result the duplicate sample was also analysed, which was negative.
- The Department for Health and Wellbeing (DHW) was notified of the result on 12/04/2019. DHW does not currently consider the results to constitute a significant health risk, due to actions taken to appropriately mitigate the risk, including:
 - Checks on plant performance at the time of sampling and since show no abnormal performance. Treated water quality parameters have been excellent and fully compliant throughout.
 - The duplicate sample taken on 08/04/2019 has been tested and shown to be negative for cryptosporidium.

- The Myponga WTP was shutdown as a precaution following the test result and remains offline until 13/04/2019 at the earliest.
- Repeat samples have been collected on 12/4/2019 to be processed with results anticipated to be available at approximately 11:45pm on 12/04/2019.
- Should this follow up sample be negative then the system will be considered be operating normally as intended.
- Should there be a subsequent detection of potentially human infectious Cryptosporidium then further sampling and discussions with DHW will occur and an updated written briefing will be provided on 13 April 2019.

12/04/2019

X Roch Cheroux

Roch Cheroux

Chief Executive

Signed by: CH003372

Roberts, Ben

From: Government Relations
Sent: Friday, 16 August 2019 3:03 PM
To: DEW:Minister Speirs Estimates
Cc: Huxter, Lucy (sa.gov.au); Government Relations
Subject: SAW responses: Estimates Hearing - Questions on Notice
Attachments: Briefing for the Minister_Estimates Questions on Notice.pdf; SAW_1_POST TREATMENT AT MYPONGA RESERVOIR - draft response.docx; SAW_2_WATER SUPPLY - draft response.docx;



Hi Kate,

Please find attached, SA Water's responses to the Questions taken on Notice during the Estimates Hearing Committee on 30 July 2019.

Should you have any queries, please feel free to get in touch as I am happy to help.

Cheer,
Emily

Emily Carey
GOVERNMENT RELATIONS ADVISER
7424 3705 • 0421749193

From: DEW:Minister Speirs Estimates <DEW.MinisterSpeirsEstimates@sa.gov.au>
Sent: Monday, 5 August 2019 12:19 PM
To: Government Relations <GovernmentRelations@sawater.com.au>
Cc: Babaniotis, Con <Con.Babaniotis@sawater.com.au>; Huxter, Lucy <Lucy.Huxter@sawater.com.au>
Subject: Estimates Hearing - Questions on Notice [DLM=For-Official-Use-Only]

For Official Use Only

DAVID SPEIRS MP - MINISTER FOR ENVIRONMENT AND WATER MINISTERIAL CORRESPONDENCE / INVITATION REQUEST	
Author:	Minister David Speirs
Group:	SA Water
Subject:	Estimates Hearing
Action Required:	Draft response, please
Notes:	
Due Date – Minister’s Office:	4pm 16/8/19

Please note response for *4_Recycled Water Systems* will require input from the OTR.

Kate Ruth

Parliament and Cabinet Support Officer

Office of the Minister for Environment and Water

P (08) 8463 5683

81-95 Waymouth Street, Adelaide SA 5000

GPO Box 1047, Adelaide SA 5001

environment.sa.gov.au



Government of South Australia

Department for Environment
and Water

Helping South Australians conserve, sustain and prosper

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TO MINISTER FOR ENVIRONMENT AND WATER**FOR APPROVAL****RE: ESTIMATES HEARING – QUESTIONS ON NOTICE****Priority:** Routine**Critical Date:****1. RECOMMENDATIONS:**

That you:

1. Note this briefing; and

NOTED

2. Approve the draft responses to the questions taken on notice during the Estimates Committee B Hearing held 30 July 2019.

APPROVED / NOT APPROVED

Comments	<div>-----</div> <div>DAVID SPEIRS MP Minister for Environment and Water / / 2019</div>
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2. PRIORITY:

Routine

3. BACKGROUND:

During the Estimates Committee B Hearing held 30 July 2019, Dr Susan Close MP asked a number of questions regarding SA Water that were subsequently taken on notice.

4. DISCUSSION:

The following ten questions were asked Dr Susan Close MP, for which responses are attached for consideration:

Questions

1. We are in Budget Paper 3, page 82. How is the testing process done post treatment, how often is it made public and when was last time that cryptosporidium was detected post treatment at Myponga?
 - a. I would like taken on notice is the last time that cryptosporidium was detected. How is the government able to be assured that they will know if—
2. How is the government able to be assured that it will know if somebody has been made sick as a result of any contamination of drinking water? What is the process that SA Water uses, presumably in its relationship with SA Health, to get the feedback that there may have been a problem in the watersupply?

Out of Scope



5. CONSULTATION:

NIL

6. FINANCIAL IMPLICATIONS:

Are there financial implications?

No

ATTACHMENTS - Attachment 1 to 10: Replies to Questions on Notice

16/08/2019

X Mark Gobbie

Mark Gobbie

A/Chief Executive

Signed by: GO002970

Roberts, Ben

Out of Scope



From: Government Relations <GovernmentRelations@sawater.com.au>
Sent: Monday, 28 October, 2019 2:47 PM
To: DEW:Minister Speirs Correspondence <DEWMinisterSpeirsCorrespondence@sa.gov.au>
Cc: Huxter, Lucy (DEW) <Lucy.Huxter@sa.gov.au>; Harvey, Jadyne <Jadyne.Harvey@sawater.com.au>
Subject: 19EW0007047 Type 1 briefing - Mt Pleasant - 28 October 2019
Importance: High

Good afternoon

Please find attached a copy of a Chief Executive signed Type 1 briefing - Mt Pleasant - 28 October 2019, for consideration.

Kind regards
Celeste

Celeste Chamberlain | Government Relations Advisor | **SA Water Corporation**
e: celeste.chamberlain@sawater.com.au | p: 08 7424 2765
250 Victoria Square/Tantanyangga ADELAIDE SA 5000

SA Water respects and acknowledges the deep spiritual connection, knowledge and relationship Aboriginal and Torres Strait Islander people have to land and water.

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TO: MINISTER FOR ENVIRONMENT AND WATER**FOR NOTING****RE: TO ADVISE THE MINISTER OF A TYPE 1 INCIDENT- HIGH FILTERED WATER
TURBIDITY AT MOUNT PLEASANT WTP****Priority: Routine****Critical Date:****1. RECOMMENDATIONS:**

That you:

1. Note the incident notification contained in this briefing

NOTED

Comments	<div data-bbox="1029 1220 1348 1243" style="text-align: center;">-----</div> <div data-bbox="941 1276 1436 1467" style="text-align: center;">DAVID SPEIRS MP Minister for Environment and Water / / 2018</div>
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Incident Number 46201
Incident Type Type 1
Incident Date/ Time 25/10/19 @ 22:20
Target Date/ Time 28/10/19 @ 15:00

RELEVANT POINTS

Location Description Mount Pleasant WTP
Location Type WTP (in plant)
Sampling Regime Online Monitoring
Date Sampled N/A

RESULTS

Parameter Exceeded Turbidity
Detection > 1.5 NTU
Australian Drinking 0.5 NTU
Water Guidelines
(ADWG)
Incident Criteria > 0.5 NTU for 15 consecutive minutes
Duration 6 hours 40 minutes

AGENCIES NOTIFIED

Department for Health & Wellbeing	Yes	If Yes, Date/Time notified: 27/10/19 @ 10:17
Environment Protection Authority	No	If Yes, Date/Time notified: dd/mm/yyyy @ hh:mm
Office of the Technical Regulator	No	If Yes, Date/Time notified: dd/mm/yyyy @ hh:mm

Other: _____

SIGNIFICANCE

Does the Department for Health and Wellbeing consider results constitute a significant health risk? No

Does the Department for Health and Wellbeing consider results constitute a significant media interest? No

Does SA Water Senior Management consider results constitute a potential immediate high consequence? No

FOR PRIORITY TYPE 1 INCIDENTS ONLY:

Was an immediate interagency meeting required by the Department for Health and Wellbeing? (Choose)

If Yes, Date/Time of interagency meeting:

dd/mm/yyyy @ hh:mm

If Yes, Agencies present at interagency meeting:

- ☐ SA Water
- ☐ Department for Health and Wellbeing
- ☐ Environment Protection Authority
- ☐ Office of the Technical Regulator
- ☐ Other _____

FUTURE MONITORING ACTIONS:

Sampling ☒ Routine ☐ Non-Routine

Regime:

Location Type ☐ Catchment ☐ Reservoir - Indirect ☐ Reservoir - Direct
☐ Plant Inlet ☒ Plant Outlet ☐ Distribution
☐ Wastewater ☐ Recycled Water

COMMENTS:

- Mount Pleasant Water Treatment Plant (WTP) supplies treated water to the Mt Pleasant, Springton, Eden Valley and Tungkillo townships, approximately 2,500 people.
- Between 22:20 on 25/10/19 and 05:00 on 26/10/19 the treatment plant operated without primary coagulant. Plant alarms were triggered but automatic alarm notification to plant operators did not occur.
- 168 kL high turbidity water was produced. This enters a 5 ML then a 2.5 ML treated water storage in series before feeding the distribution network.
- The incident was detected by the plant operator 08:30 on 27/10/19.
- The Department for Health and Wellbeing (DHW) were notified of the result on 27/10/19. DHW does not currently consider the results to constitute a significant health risk, due to actions taken to appropriately mitigate the risk, including:
 - Isolation of the 5 ML storage from supply until sample results received
 - Emergency enteric protozoa samples were collected 27/10/19 from the 5 ML and demand outlet to customers. Results were received 28/10/19 with Cryptosporidium and Giardia both below detection limit.
- The system is now back in control. No additional sampling or immediate follow up actions will be undertaken.

28/10/2019

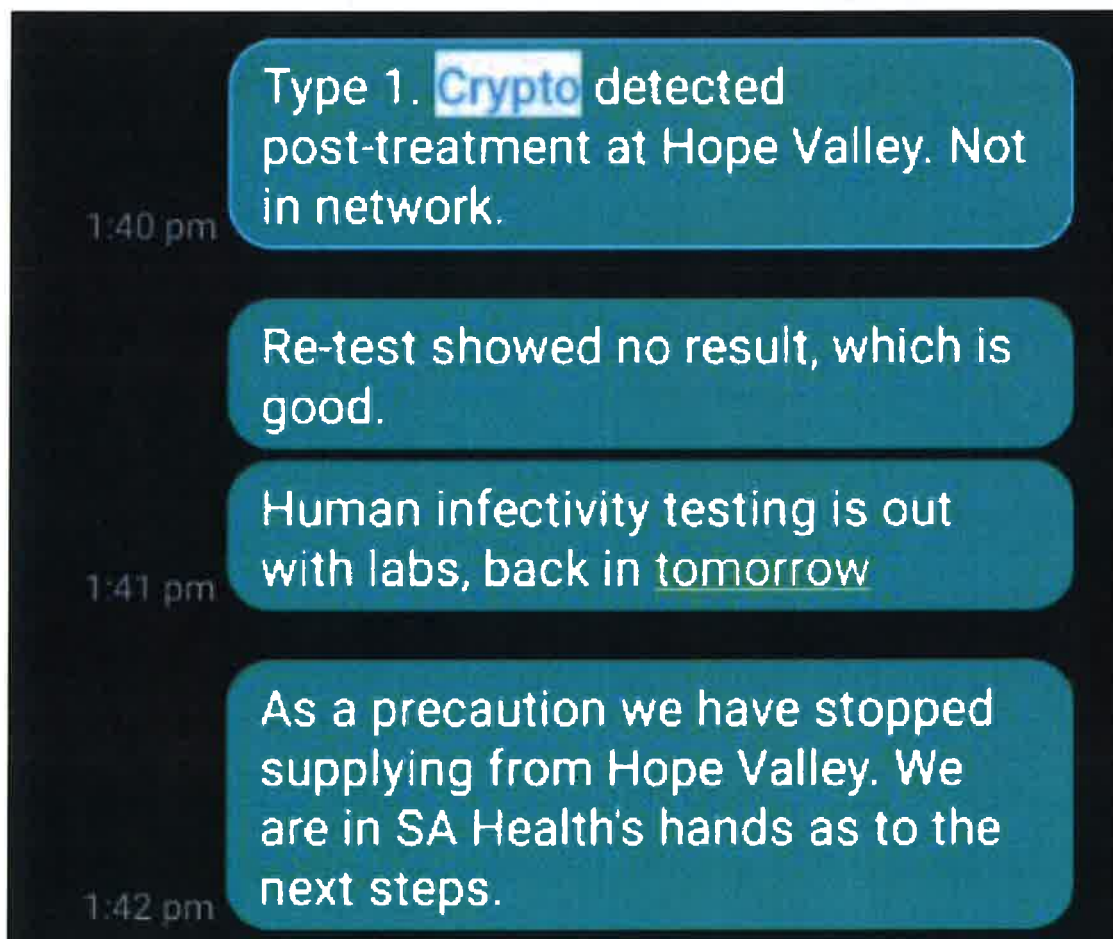
X Mark Gobbie

Mark Gobbie

Acting Chief Executive

Signed by: GO002970

Text message sent from Mr Jadyne Harvey, Senior Manager Government Relations at SA Water to Ms Chrissie Bloss, Adviser to the Minister for Environment and Water on Thursday 14 November 2019



Roberts, Ben

From: Babaniotis, Con
Sent: Thursday, 14 November 2019 1:50 PM
To: DEW:Minister Speirs Correspondence
Cc: Harvey, Jadyne; Huxter, Lucy (sa.gov.au); Bloss, Chrissie (DEW)
Subject: Type 1 Incident - Detection of Cryptosporidium Oocyst at Hope Valley WTP Before Storage
Attachments: BN46552 Cryptosporidium Hope Valley WTP.pdf

Good afternoon

Please find a briefing which advises that a water sample taken from the Hope Valley Water Treatment Plant product before storage which returned a count of 1 Cryptosporidium Oocyst per 10L:

Despite follow up samples indicating they were clear of cryptosporidium, SA Water is undertaking further infectivity testing results as per the agreed protocol with the DHW which are expected by tomorrow. Should there be an increased risk arising from follow up results, an updated briefing will be provided.

Thanks,

Con Babaniotis

MANAGER GOVERNMENT RELATIONS

Con.Babaniotis@sawater.com.au • 7424 3737 • 0422 325 629
250 Victoria Square/Tarntanyangga ADELAIDE SA 5000



sawater.com.au



SA Water respects and acknowledges the deep spiritual connection, knowledge and relationship Aboriginal and Torres Strait Islander people have to land and water.

Please consider the environment before printing this email.

TO: MINISTER FOR ENVIRONMENT AND WATER

FOR NOTING

**RE: TO ADVISE THE MINISTER OF A TYPE 1 INCIDENT - DETECTION OF
CRYPTOSPORIDIUM OOCYST AT HOPE VALLEY WTP PRODUCT WATER
BEFORE STORAGE**

Priority: High

Critical Date: 14 November 2019

1. RECOMMENDATIONS:

That you:

1. Note the incident notification contained in this briefing

NOTED

Comments	<div data-bbox="925 1276 1436 1467"><p>-----</p><p>DAVID SPEIRS MP</p><p>Minister for Environment and Water</p><p>/ / 2018</p></div>
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Incident Number 46552
Incident Type Type 1
Incident Date/ Time 13/11/2019 @ 18:17
Target Date/ Time 14/11/2019 @ 15:00

RELEVANT POINTS

Location Description Hope Valley Water Treatment Plant (WTP) Product Before Storage
Location Type WTP Outlet
Sampling Regime Routine
Date Sampled 11/11/2019

RESULTS

Cryptosporidium	Presumptive: <u>1</u> oocysts/10L	Confirmed: <u>n/a</u> oocysts/10L
- <u>Speciation</u> :*		
<i>C. parvum</i> / <i>C. hominis</i>	Not Applicable**	
<i>C. parvum</i> group	Not Applicable**	
- <u>Infectivity assay</u> : #		
Infectivity result	(Choose)	
Genotyping result	(Choose)	
Giardia	Presumptive: <u>0</u> cysts/10L	Confirmed: <u>0</u> cysts/10L
Incident Criteria	any detection of presumptive organisms per 10L	
Duration	N/A	

NOTES ON SPECIATION:

* One of the two speciation tests is required when confirmed *Cryptosporidium* is detected. Speciation for *C. parvum* / *C. hominis* is requested when the detection is in treated water or upon advice by the Department for Health and Wellbeing & depending on availability of control samples. Otherwise, speciation for *C. parvum* group is requested.

** Not applicable means this particular test was not carried out

The *Cryptosporidium* infectivity assay test only applies to samples taken at the WTP outlet for Adelaide Metropolitan WTPs; Anstey Hill, Barossa, Happy Valley, Hope Valley, Little Para and Myponga.

AGENCIES NOTIFIED

Department for Health & Wellbeing	Yes	If Yes, Date/Time notified: 13/11/2019 @ 18:38
Environment Protection Authority	Yes	If Yes, Date/Time notified: 13/11/2019 @ 19:20
Office of the Technical Regulator	Yes	If Yes, Date/Time notified: 13/11/2019 @ 19:20
Other:	_____	

SIGNIFICANCE

Does the Department for Health and Wellbeing consider results constitute a significant health risk?	No
Does the Department for Health and Wellbeing consider results constitute a significant media interest?	No
Does SA Water Senior Management consider results constitute a potential immediate high consequence?	No

FOR PRIORITY TYPE 1 INCIDENTS ONLY:

Was an immediate interagency meeting required by the Department for Health and Wellbeing? (Choose)

If Yes, Date/Time of interagency meeting: dd/mm/yyyy @ hh:mm

If Yes, Agencies present at interagency meeting:

- ☐ SA Water
☐ Department for Health and Wellbeing
☐ Environment Protection Authority
☐ Office of the Technical Regulator
☐ Other _____

FUTURE MONITORING ACTIONS:

Sampling Regime: ☐ Routine ☒ Non-Routine

Location Type ☐ Catchment ☐ Reservoir - Indirect ☐ Reservoir - Direct
☒ Plant Inlet ☒ Plant Outlet ☐ Distribution
☐ Wastewater ☐ Recycled Water

COMMENTS:

- A water sample from Hope Valley Water Treatment Plant product before storage on 11/11/2019 at 09.35am returned a count of 1 *Cryptosporidium* Oocyst per 10L.
- The Department for Health and Wellbeing (DHW) was notified of the result on 13/11/2019. DHW does not currently consider the results to constitute a significant health risk, due to the nature of the results received at this time and actions taken to appropriately mitigate the risk, including:
 - Shut down of the water treatment plant until infectivity results are received.
 - The sample has not yet been confirmed as infectious or non-infectious.
 - Follow up samples taken on 13/11/2019 from both the plant inlet and the product before storage were clear of *Cryptosporidium*.
- Testing of the sample is ongoing as per the agreed protocol with the DHW to determine whether the oocyst is infectious. Testing results are expected by midday on 15/11/2019.
- Agreed interim additional monitoring will be implemented to manage ongoing issues. Should there be an increased risk arising from follow up results, an updated briefing will be provided.

14/11/2019

X David Ryan

David Ryan

Chief Executive

Signed by: RY004069

