

Patron: The Honourable Alex Chernov AC QC, Governor of Victoria

8 Lakeside Drive, Burwood East VIC 3151



11 February 2014

Country Fire Authority  
8 Lakeside Drive  
Burwood East Vic 3151

Dear

**Water Monitoring Results: Fiskville Batch 14-0518**

The attached Central Highlands Water test results dated 30 January 2014 indicate the pH measured in water from the Red Pipe – PG Tank and the Beige Pipe – BU Tank reported 8.3 and 9.0 respectively. The pH value for the Beige Pipe – BU Tank is bordering the water quality criterion range for pH (6.0 to 9.0), as stated in the Water Management Plan for Fiskville.

High pH levels in water at Fiskville have previously been linked with water supply from Lal Lal Reservoir, leaching of alkaline material from concrete lined pipes and low water use at CFA Fiskville Training Ground.

Criteria for pH are typically provided to minimise corrosion to infrastructure (low pH) and prevent scaly build up in pipes (high pH) or for aesthetic reasons (poor taste and odour). However, alkaline water with a pH greater than 10 may lead to gastrointestinal irritation in sensitive individuals and irritation of the eye, skin and mucous membranes at pH above 11. Therefore, the pH of 9.0 is not considered a human health problem.

The results have previously been reviewed by water quality and health specialists of Cardno Lane Piper and reported that these results do not indicate any water quality issues that would make the water from the Beige Pipe BU Tank unsuitable for use in fire fighting training. Additional monitoring of pH will be considered to ensure pH levels do not approach 10.

Yours sincerely

# CENTRAL HIGHLANDS WATER - LABORATORY SERVICES

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## TEST REPORT

**Laboratory Report No:** 14/0518

**Client:** CFA Training College - Fiskeville  
Ballan - Geelong Road  
FISKEVILLE VIC 3342

**Attention:**

**Date Received:** 30/01/14

**Job Description:** CFA Training Centre Fiskville

LAB. No.	SAMPLE	SAMPLED
14/0518-1	Red Pipe - PG Tank	30/01/2014
14/0518-2	Beige Pipe - BU Tank	30/01/2014

Test Description	Method	Units	14/0518-1	14/0518-2
BODs	CHW - BOD	mg/L	<5	<5
Electrical Conductivity @ 25°C	CHW - EC	µS/cm	510	520
E. coli - Colilert	CHWM.08	MPN/100mL	0	0
Oil & Grease at ALS		mg/L	<5	<5
Ps. aeruginosa	CHWM.07	cfu/100mL	0	0
pH	CHW - pH	Units	8.3	9.0
Phosphorus - Total (Low)	CHW - Tot P	mg/L	0.0050	0.10
Suspended Solids	CHW - SS	mg/L	<1	<1
Total Kjeldahl Nitrogen (as N)	CHW - TKN2	mg/L	0.9	0.3
Total Oxidised Nitrogen (as N)	CHW - Ox.N	mg/L	0.25	0.73

Analytical methods for chemical analyses in accordance with Central Highlands Water Laboratory Chemistry Methods (2013).  
Analytical methods for microbiological analyses in accordance with Central Highlands Water Microbiology Methods Manual (2013).  
Volatile Acid analysis not covered by NATA Accreditation.

### Comments

Samples as received.  
Bacteriological analysis performed on day of receipt.  
O&G analysis performed at ALS, Accreditation No. 992.  
Refer ALS Report No. 416236.

Signed .....

Report Date: 11 February 2014

Name .....

Chemistry

Microbiology

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Accreditation No: 1935

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