



LOCAL HEALTH AUTHORITY ANALYTICAL COMMITTEE
CO-ORDINATED SAMPLING PROJECT 10
FLUORIDE CONTENT IN INFANT FORMULA MILK & WA WATER PRODUCTS
April - May 2013

Introduction

This report summarises the findings from the LHAAC Co-ordinated Sampling Project 10 on Fluoride content in Infant Formula Milk (IFM) and IFM when re-constituted with WA water product samples.

Consignment Details

At the end of the survey, 51 Infant Formula Milk samples and 36 water samples had been submitted by 16 participating municipalities. The breakdown of the number of samples submitted by each Local Government is presented in Appendix 1.

Testing Methodology

Agrifood Technology looked at the following areas when assessing each sample.

1. The Fluoride content of the Infant Milk Formula
2. The Fluoride content of WA water

Products Types Submitted

A variety of IFM products were received. These have been broken down into manufacturer of the IFM. Table 1 shows the breakdown of all samples received by manufacturer:

Table 1 – IFM Samples by Manufacturer

Product	Number of Samples
Bellamy's Organic	3
Heinz	5
Holle Organic	4
Karicare	14
Nestle	9
Novalac	6
Pfizer	1
S26	9

Test Results

INFANT FORMULA MILK

Only 1 sample out of the 51 Infant Formula Milk powders submitted did not comply with the Food Standards Code guidelines for labelling on the Nutritional Information Panel. This, however, did not pertain to Fluoride content.

The Food Standards Code stipulates that Infant Formula Milk can contain up to **17 µg per 100kJ** before it needs to be stipulated on the NIP label of the product. None of the products tested reached this level. Products tested ranged from 0.5 – 10.4 µg per 100kJ and were all within permitted levels.

Bellamy's Organic

The average content of Fluoride in the samples submitted was 1.3 µg/100kJ.

There was one sample that did not comply with the Food Code Standards for labelling on the Nutritional Information Panel. This did not pertain to Fluoride content.

Heinz

The average content of Fluoride in the samples submitted was 1.4 µg/100kJ.

Holle

The average content of Fluoride in the samples submitted was 1.8 µg/100kJ.

Karicare

The average content of Fluoride in the samples submitted was 5.0 µg/100kJ.

Nestle

The average content of Fluoride in the samples submitted was 1.3 µg/100kJ.

Novalac

The average content of Fluoride in the samples submitted was 1.6 µg/100kJ.

Pfizer

Only one sample was submitted which had a Fluoride content of 3.8 µg/100kJ.

S26

The average content of Fluoride in the samples submitted was 3.4 µg/100kJ.

Summary:

The Fluoride content of the IFM samples submitted ranged from 0.5-10.4 µg/100kJ.

Chart 1 shows the Fluoride content of the samples, submitted by manufacturer.

WATER

36 water samples were submitted from 15 different municipalities.

The average Fluoride content of the samples submitted was 0.28 mg/L with a range of <0.02-0.84 mg/L.

Permitted levels (as defined in the Food Standards Code) are between 0.60 and 1.00 milligram of Fluoride per litre.

Chart 2 shows the Fluoride content of water across municipalities.

Chart 1 - Fluoride content in IMF by manufacturer

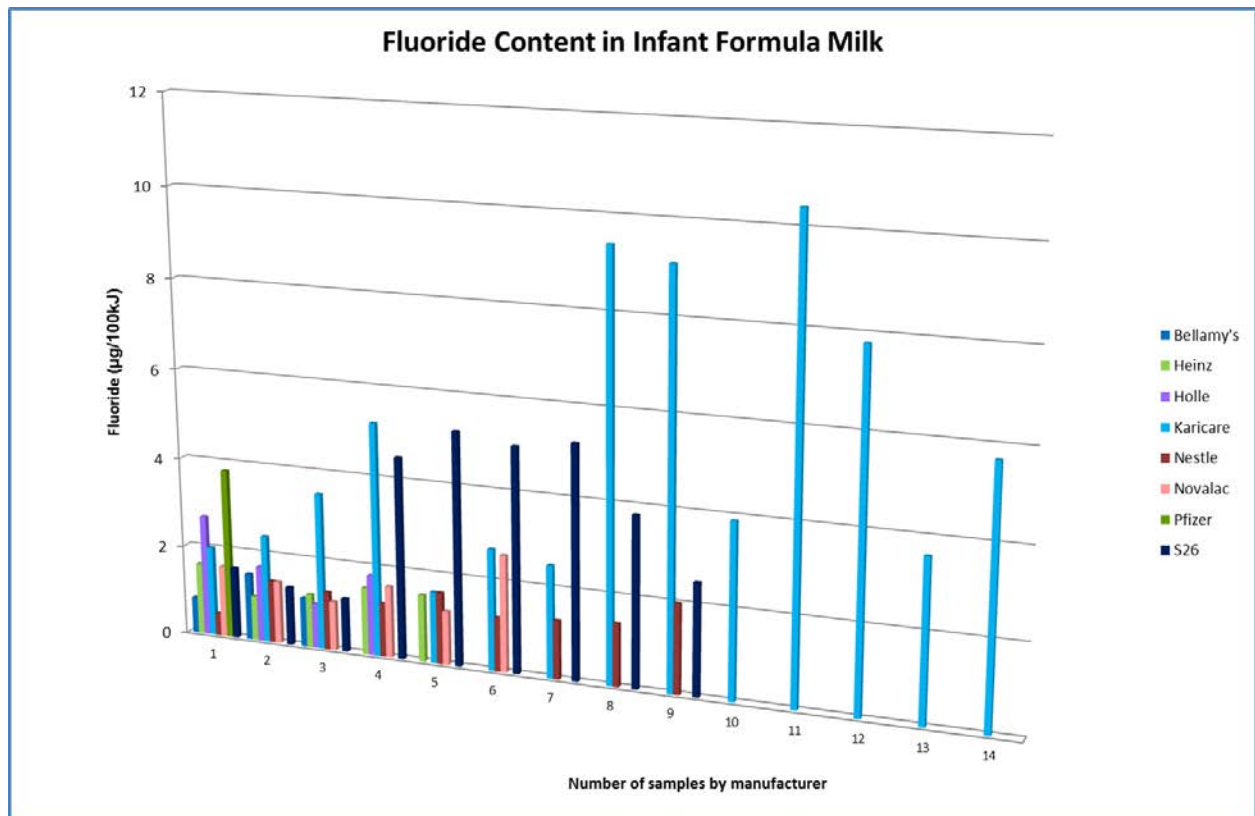


Chart 2 - Fluoride content in WA water by across municipalities

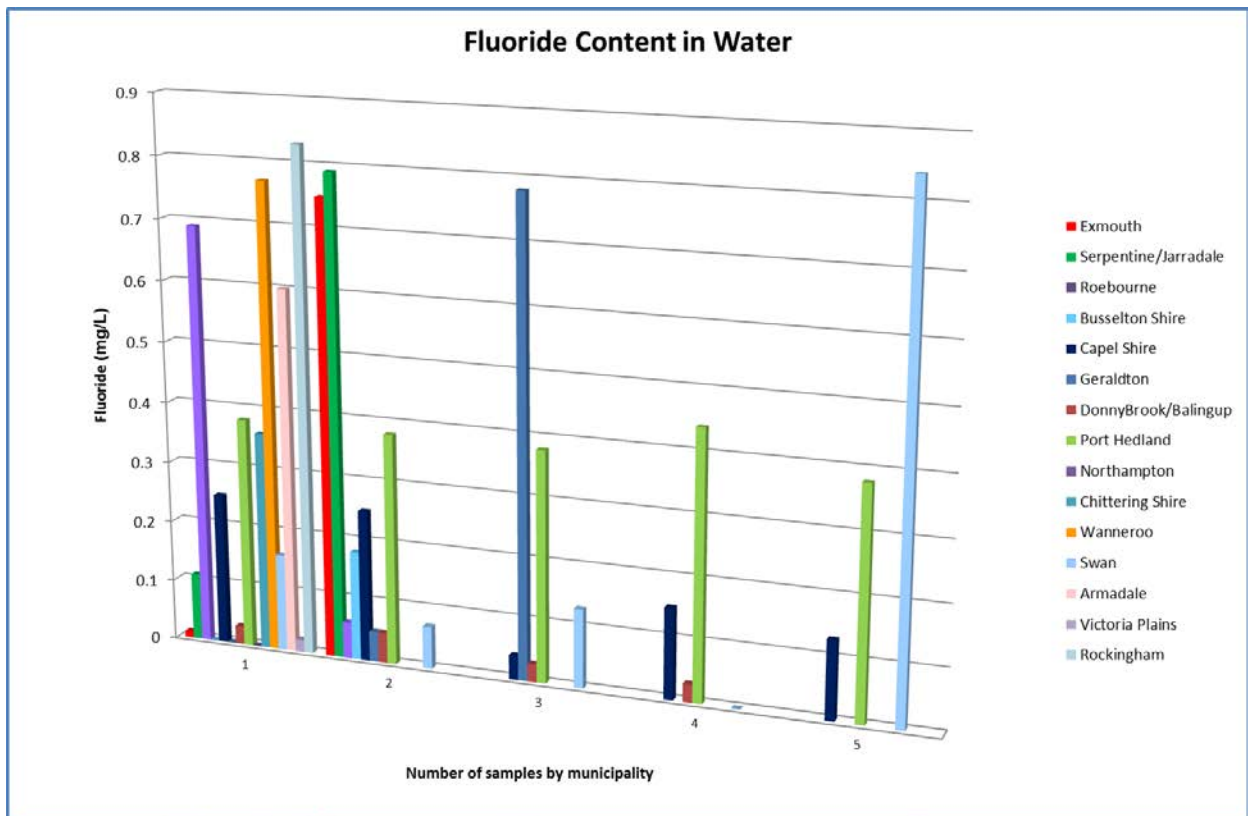
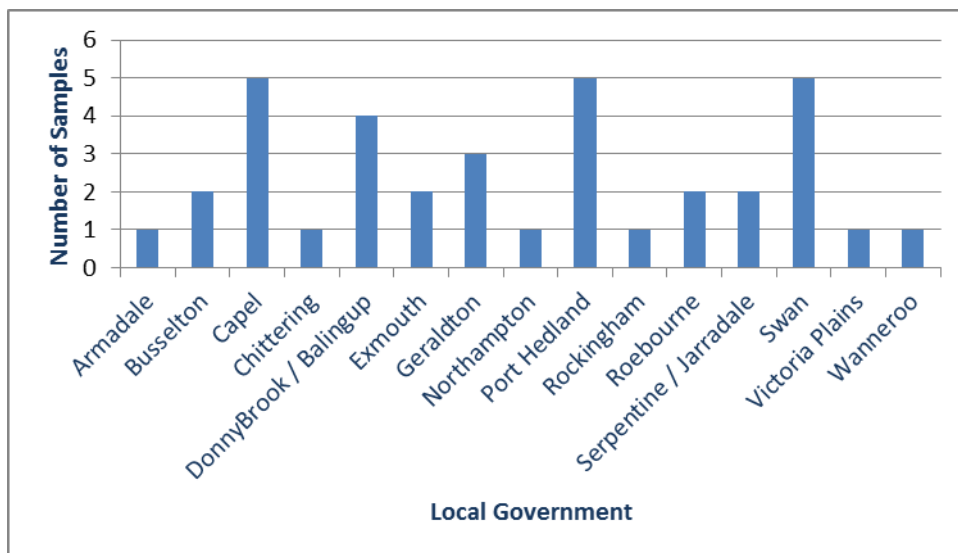


Chart 3: Number of Samples submitted by participating Local Councils



*Vincent shire submitted all the IFM samples

Summary Statement

This co-ordinated sampling project was well supported by Local Governments. It is re-assuring to have such positive endorsement of both the IFM and water product(s) widely used in Western Australia.

Further investigations revealed EHOs viewed this as a worthwhile project and councils appreciated the significant guidance they were given by LHAAC in terms of the sample products and the process to be administered.

Acknowledgement

LHAAC would like to acknowledge the assistance of Agrifood Technology in summarising the analytical data for this Coordinated Sampling Project and in the preparation of this report and the tables and charts which support the text.

LHAAC also acknowledge and thank the participating Local Governments who provided sample submissions to this project and to the City of Vincent for the collection of all IFM products.

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