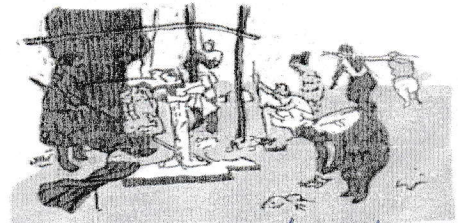


OROMO SELF-HELP ORGANIZATION (OSHO)
WALDA OF GARGAARSA OROMOO
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Our Ref. No. OSHO/RVOWP/465/18

Date 09/02/18

To: whom it may concern

From: FRTC, Mojo

Subject: Fluoride testing for CRS / Desert Rose Consultancy PLC

OSHO / FRTCS have been requested by Desert Rose PLC to test samples drawn from four fluoride removal filters labeled A - D. We understand that collection labeling and delivery of the samples was done independently of Desert Rose PLC and supervised by CRS staff in Meki.

The samples were processed according to our protocol on 04/10/2017 by Sisay Feyera (Attachment – Data Table & Chart).

Following our measurements, the data suggests that in the case of all filters (A-D), Fluoride levels are reduced from between 3-5mg/l (in the untreated water), to less than 0.5mg/L (in the treated water) for the majority of the period tested (4 weeks). The fluoride levels in the treated water increased gradually over time throughout the trial, but there is no evidence of breakthrough of treated water over 0.75mg/L during the sample period.

The most elevated levels of Fluoride, 0.73mg/L were observed in treated water were for filter C during the last day of the trial. This within safe limits, being less than half of the WHO 1.5mg/L limit.

While the untreated water is not highly contaminated, the data suggests adequate removal for all filters over the period of the trial without exhaustion of fluoride uptake within the 4-week trial period.

Any queries concerning the data may be made to FRTC directly as necessary.


Getachew Halle
Chief Executive Officer



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OSHO is member of CRDA, PANE, Pastoralist Forum Ethiopia & Cluster member of Pact Ethiopia

Table & Chart

Date (C.E.)	Filter A		Filter B		Filter C		Filter D		WHO Limit
	Untreated F- (mg/L)	Treated	Untreated F- (mg/L)	Treated	Untreated F- (mg/L)	Treated	Untreated F- (mg/L)	Treated	
21/09/17	3.17	0.12	3.83	0.18	5.18	0.27	4.13	0.28	1.5
22/09/17		0.26		0.19		0.24		0.33	1.5
23/09/17		0.25		0.20		0.35		0.19	1.5
24/09/17		0.23		0.23		0.25		0.17	1.5
25/09/17		0.23		0.25		0.23		0.21	1.5
26/09/17		0.17		0.23		0.37		0.19	1.5
07/10/17	3.17	0.23	3.83	0.17	5.18	0.31	4.13	0.19	1.5
08/10/17		0.23		0.16		0.32		0.19	1.5
09/10/17		0.23		0.19		0.36		0.20	1.5
10/10/17		0.24		0.19		0.37		0.21	1.5
12/10/17		0.24		0.19		0.38		0.22	1.5
13/10/17		0.25		0.19		0.45		0.22	1.5
14/10/17		0.25		0.18		0.48		0.22	1.5
15/10/17		0.25		0.18		0.54		0.23	1.5
16/10/17		0.26		0.29		0.58		0.23	1.5
17/10/17		0.23		0.21		0.63		0.24	1.5
18/10/17		0.23		0.21		0.68		0.24	1.5
19/10/17		0.23		0.18		0.73		0.24	1.5

