

Blood Lead Levels in Trail Fall 2018

Prepared for THEC
April 17, 2019



Interior Health
Every person matters

Objective

- * Overview of blood lead levels tested in fall 2018
- * Comparison of mean blood lead levels in 2018 to previous years

Who Was Tested in 2018?

Target Group

- * Children aged 6-36 months, living in City of Trail or Rivervale (Area 2/3)
- * Children aged 6-36 months living in Warfield, Oasis, Casino and Waneta (Area 1)



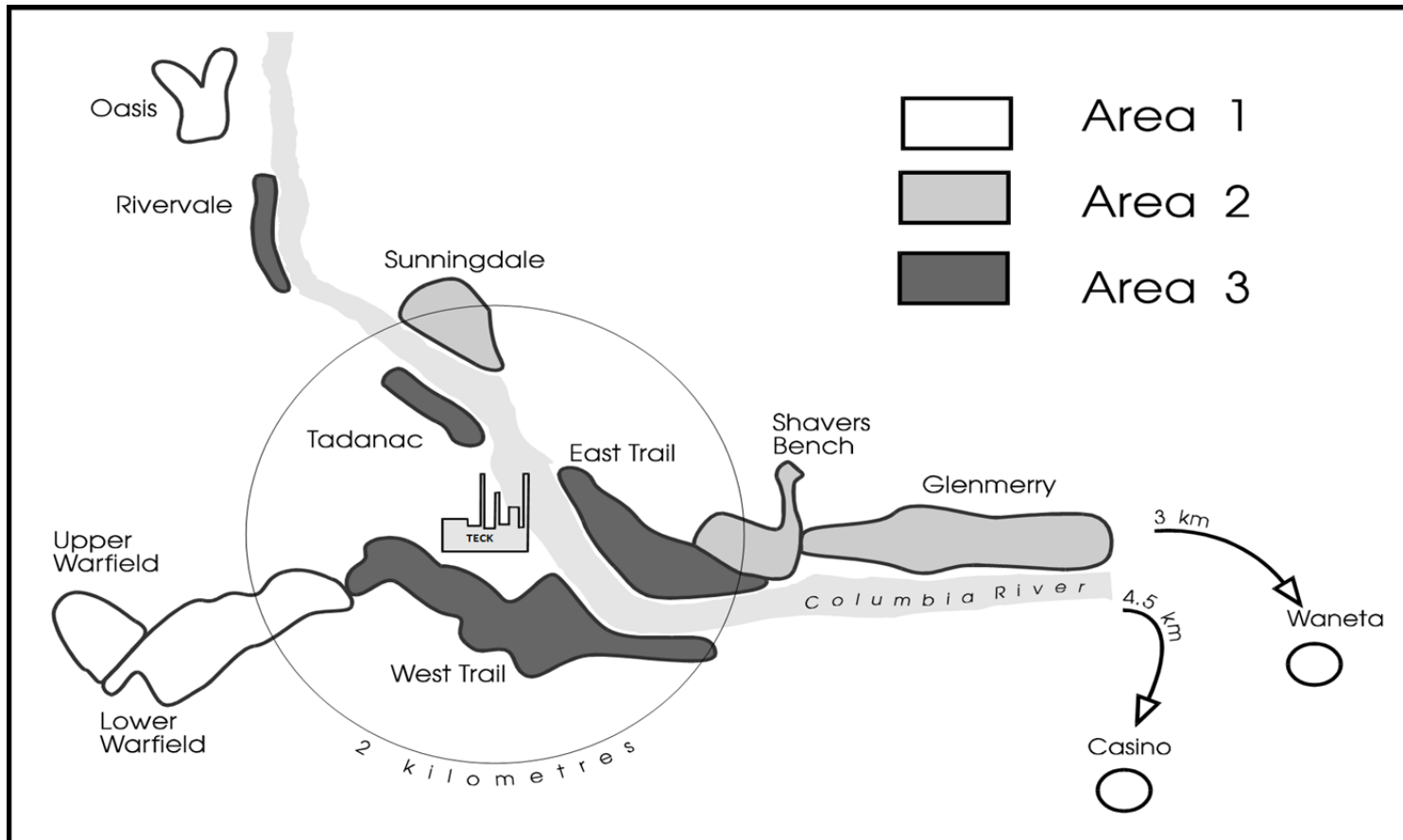
Additional Testing

These results do not contribute to the yearly analysis

- * Children new to the area, up to the age of 5 years old
- * Children with previous case management for follow-up
- * Children whose parents requested testing for their child from any area



“Areas” & Neighbourhoods

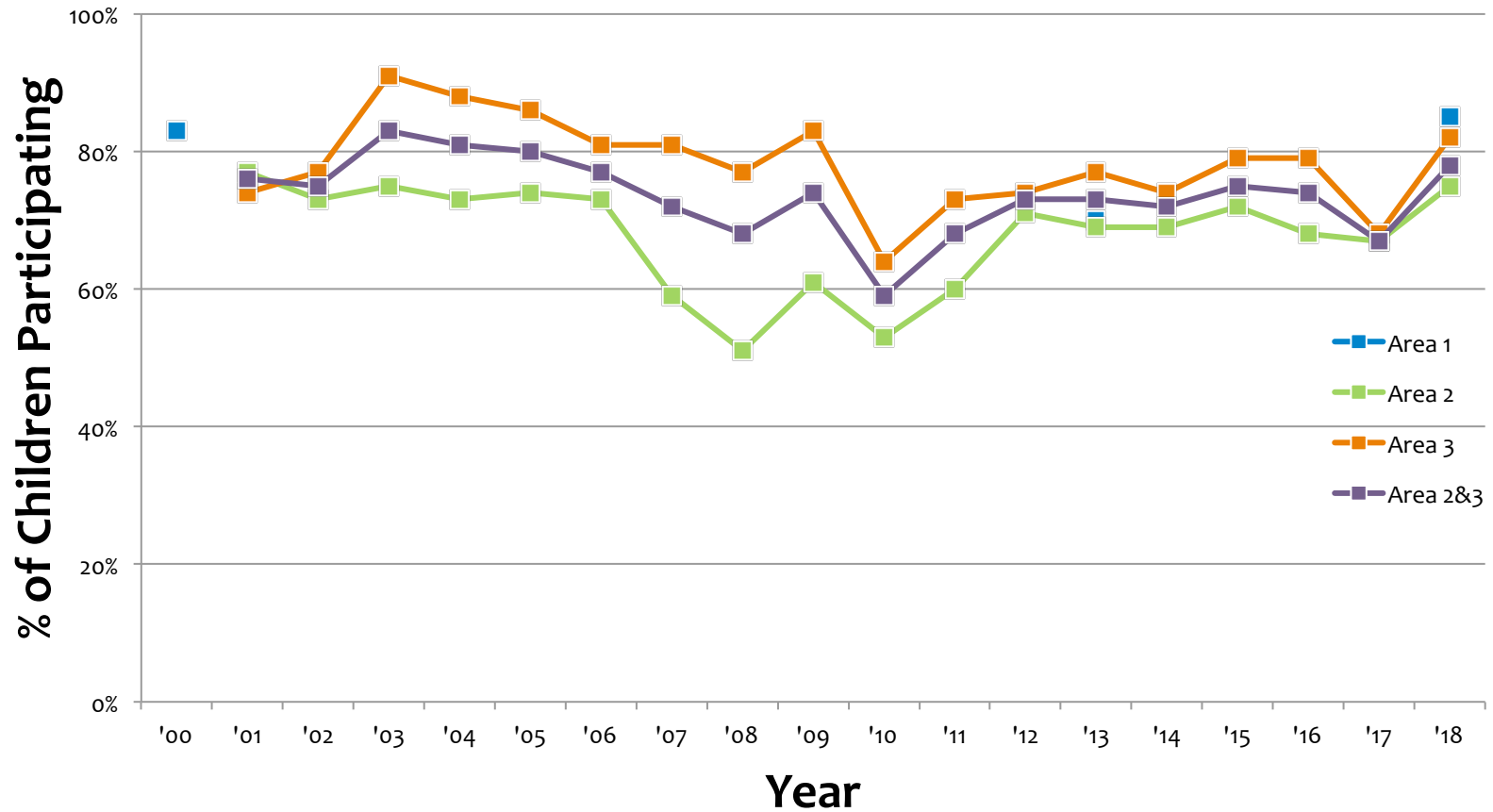


Participation By Target Areas

6-36 Months

Children Participating in Blood Lead Level Testing By Areas				
	2018		2017	2013
Area	Number of Children Contacted	Percent of Children Participated	Percent of Children Participated	Percent of Children Participated
Area 2	67	75% (50)	67% (54)	
Area 3	61	82% (50)	68% (51)	
Area 2 & 3	128	78% (100)	67% (105)	
Area 1	37	85% (31)	-	67% (40)

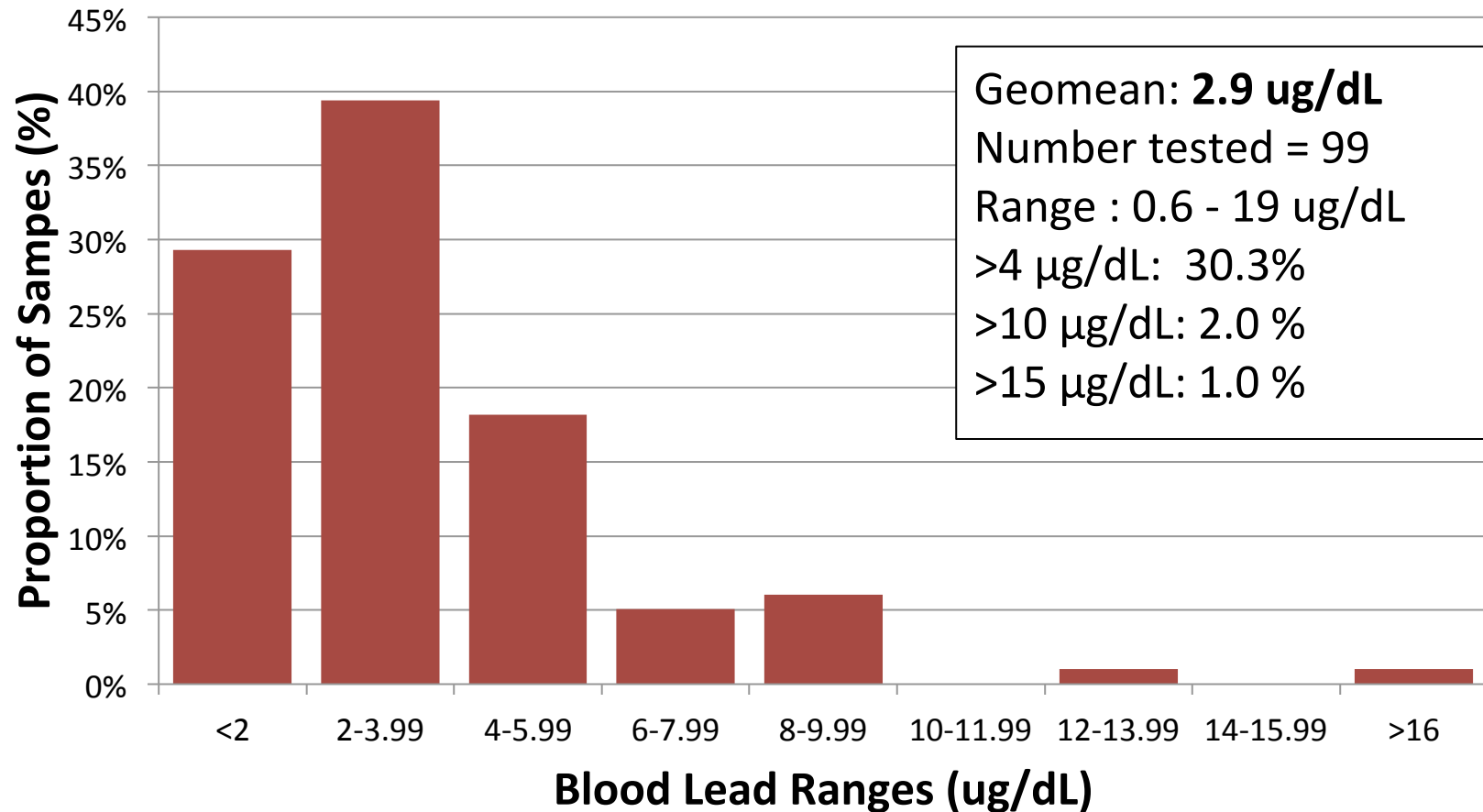
Percent Participation by Area



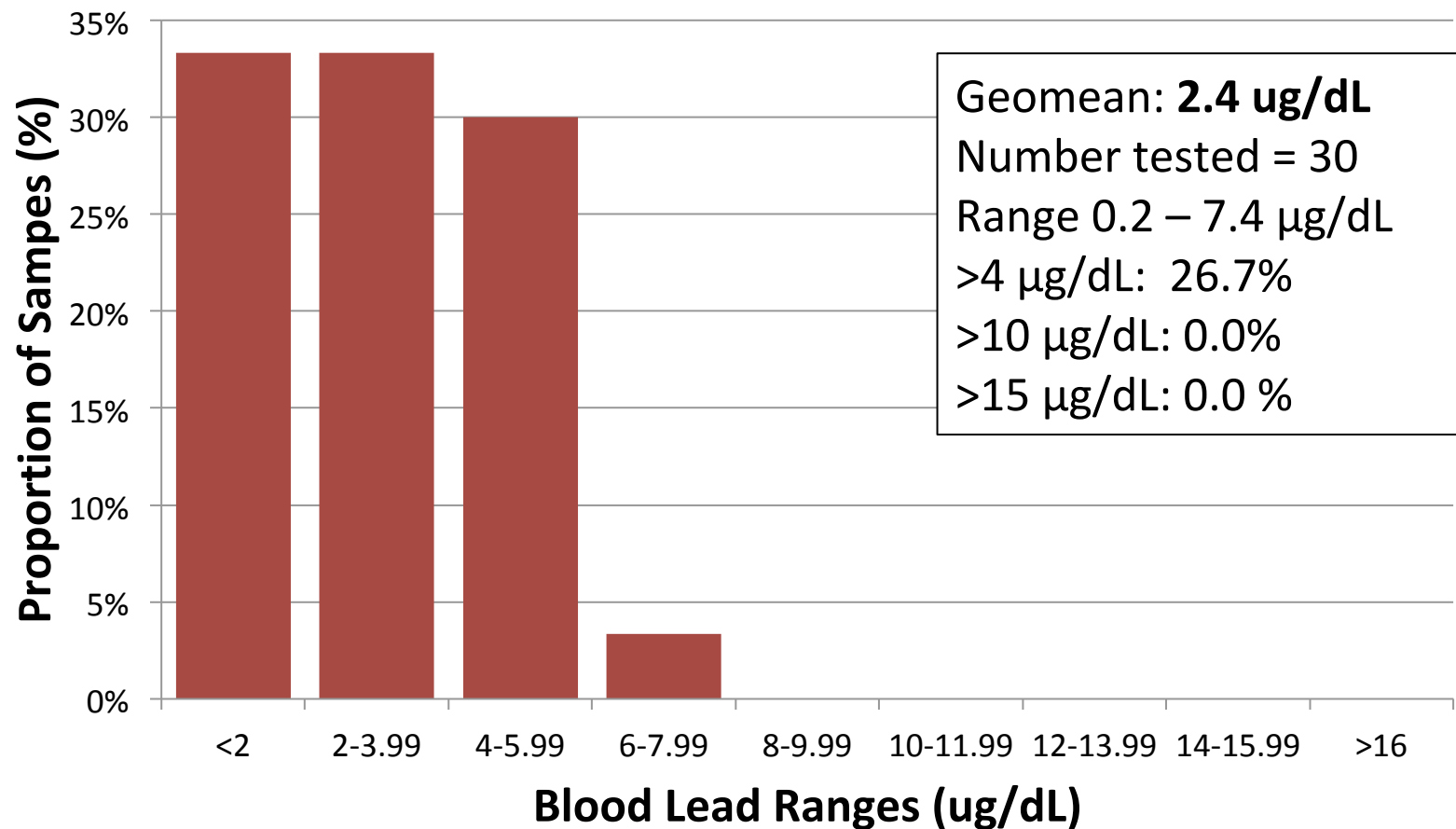
Blood Lead Level Threshold

- * Recent research demonstrates there is **no safe blood lead level threshold**
- * Canadian children 3-5 years old had mean blood lead levels at $0.67 \mu\text{g/dL}$ in 2015
- * Blood lead levels as low as $1\text{-}2 \mu\text{g/dL}$ are associated with adverse health outcomes particularly in children**

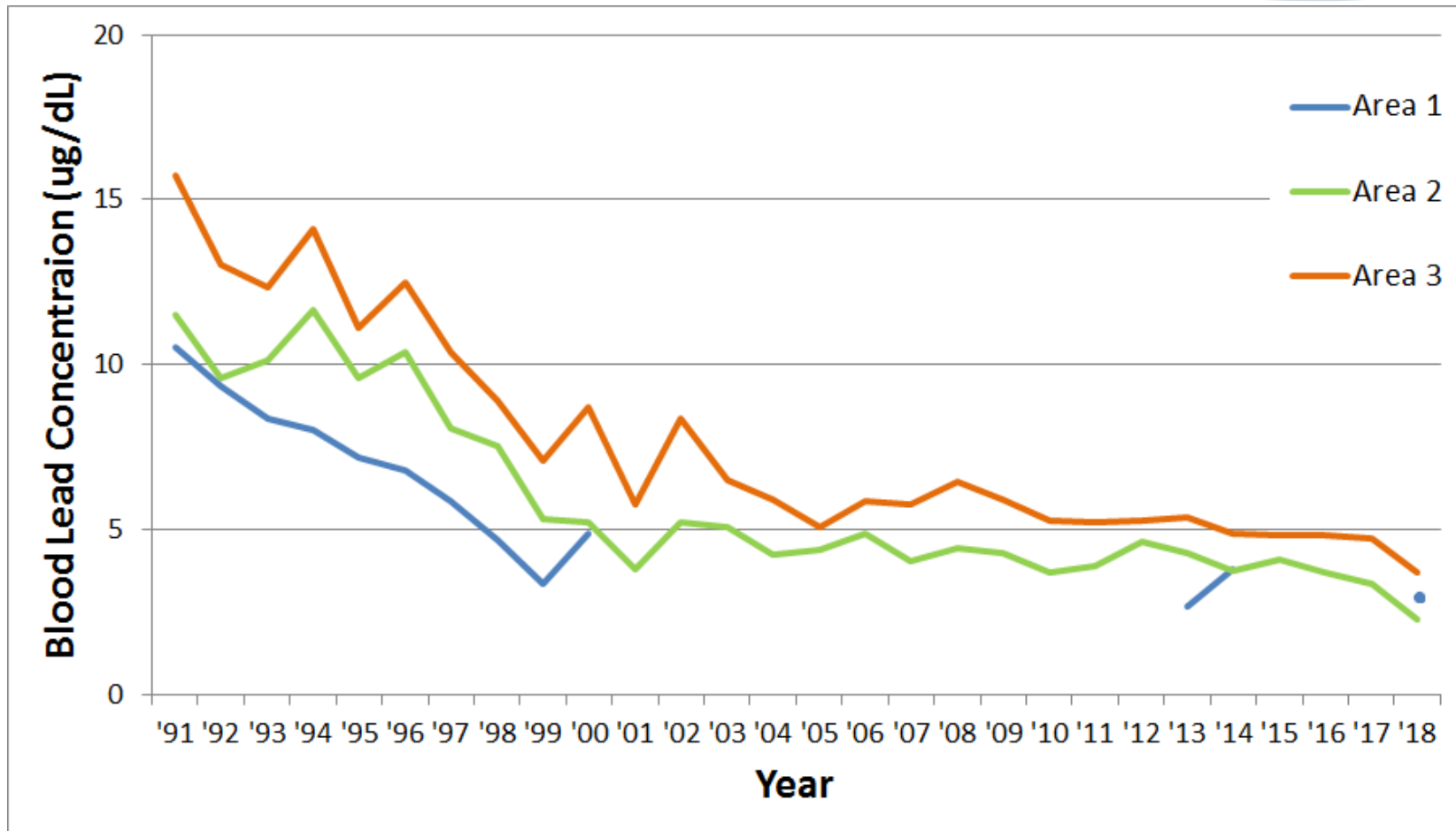
Range of Blood Lead Levels for Areas 2&3



Range of Blood Lead Levels for Area I



Trend of Blood Lead Geomean by Area Years 1991-2018



Concluding Messages

- * In 2018 the participation was 78% for Areas 2 & 3 and 85% for Area 1
- * There is a significant reduction in the children's blood lead geometric mean to 2.9 ug/dL (2018)
- * Blood lead geometric mean varied between 4.9 ug/dL in 2013 and 4.0 ug/dL in 2017
- * No major changes in the methodology (children cohort, laboratory or laboratory technique) that may have contributed to this sudden decline have been identified
- * Results need to be interpreted with caution and future testing is needed to confirm whether the current observed change signifies a general trend

Thank You

