

Trail Area Health & Environment Committee



MINUTES

Meeting: Tuesday, January 22, 2019 7:00 p.m.
City of Trail – Committee Room #2

Committee Members in Attendance:

Lisa Pasin, Chair, City of Trail
Sandy Santori, Alternate Chair, City of Trail
Jim Hill, Village of Warfield
Clare North, Teck Trail Operations

Dr. Karin Goodison, Interior Health (MHO)
Cheryl Whittleton, Interior Health
Ron Joseph, Community Member
Julia Stockhausen, Community Member
Marylynn Rakuson, Community Member

Invitees in Attendance:

Dan Bouillon, Teck Trail Operations
Thompson Hickey, Teck Trail Operations
Catherine Adair, Teck Trail Operations
Steve Hilts, Teck Resources Ltd.
Ken Hodgins, Community Member

Mike Adams, Interior Health/Community
Kady Hunter, Interior Health
David Morel, BC Ministry of Environment
Peggy Evans, BC Ministry of Environment

Program Team in Attendance:

Michelle Laurie, THEC Facilitation Lead
Andrea McCormick, SNC-Lavalin Inc.
Alexa Matthes, SNC-Lavalin Inc.
Jeannine Stefani, Interior Health

Cindy Hall, SNC-Lavalin Inc.
Bruce Enns, SNC-Lavalin Inc.
Kayla Johnson, SNC-Lavalin Inc. (note taker)

Round of introductions

Mayor Lisa Pasin, THEC Chair, welcomed everyone to the meeting and provided a brief overview of the program and committee emphasizing the collaboration between community, government and industry to reduce exposure to lead in the community. A round of introductions by everyone in the room followed.

MEETING MINUTES: September 25, 2018 meeting minutes approved.

PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS

Presentations:

THEC Committee & Program Overview and History

Presenter: Steve Hilts, Director Environmental Legacies, Teck Resources Ltd

See attached presentation that focused on the industrial history of Trail, community partnerships, THEC values, historical timeline/milestones as well as THEC/THP continuous improvements.

Questions regarding blood lead levels vs. the US average and blood lead levels as related to the age of testing were put forward and discussed.

A Message from Interior Health

Presenter: Dr. Karin Goodison, Medical Health Officer, Interior Health

“Serum blood lead geo-mean has been a key focus of THEC and we want to recognize great work over the past 29 years. Given that we are concerned that the blood lead results may not be a good predictor of human health risk, we have decided to not release the results this year. As we drive the levels lower and new guidelines and targets come out, the value of the blood geo-mean diminishes and the interpretation becomes more complex.

We will continue the serum blood lead testing program as it is an important program to identify children at risk and counsel them appropriately.

Based on the complexity of the lead contamination in Trail, IH has reached out for consultation (Provincial Health Officer, BCCDC, and Ministry of Environment involved).

Our ultimate goal is to have healthy people living in the Trail area while the smelter continues operations.”

Questions regarding this decision were asked by the Committee and were answered by the MHO. A recommendation was put forward by the Committee to ask the MHO to reconsider releasing the blood lead levels and/or release them with appropriate context.

Remediation requirements for smelter contamination in Trail & 2019 Work Plan: MoE and Teck Presenters: Peggy Evans, Manager, Risk Assessment and Remediation, Ministry of Environment and Climate Change Strategy; Clare North, Superintendent of Environmental Remediation, Teck Trail Operations

See attached presentations that focused on history and key milestones, the Wide Area Remediation Plan, site risk classification, Ministry of Environment’s (MoE) 2019 Work Plan requirements and Teck’s 2019 Work Plan outline. The expectation of Teck creating a formal Work Plan for 2019 and having that plan accepted by MoE was presented and discussed. The next THEC meeting will provide more detail as to the 2019 Work Plan if accepted by MoE.

Program Reports & Updates:

Air Quality – Dan Bouillon, Teck Trail Operations *(report attached)*

- Air Quality program component is undertaken by Teck to drive air quality improvements toward THEC targets
- 2018 average lead in air at Butler Park was 0.133 µg/m³ – the lowest ambient level ever in the community and a 47% reduction in ambient lead since 2016, likely helped by Smelter Recycle Building;
- Other measures to prevent fugitive dust include 30 ft. wind fence at roaster feed pad, new bag house, wetting, flushing and sweeping trucks, other measures to prevent fugitive dust; and
- Arsenic also remains below targets.

Air Quality Technical Working Group working on having a meeting and more regular reporting.

Family Health Update – Jeannine Stefani, Interior Health *(report attached)*

- IH delivers the Family Health program component with focus on primary prevention work including healthy family visits and outreach, and often works together with Home and Garden program component;
- February 11 and 12th are Blood Lead Level clinic dates, following up with case management;
- Healthy Family includes 51 completed, 9 declined (but many had HH visits), 20 visits since September; and
- Attending Building Beautiful Babies weekly.

Home & Garden – Cindy Hall and Alexa Matthes, SNC-Lavalin

- 2018 annual summary (see attached presentation).
- Key components of the report included healthy homes, outreach & engagement, lead safe renovation, soil programs and plans for 2019.
- Propose to send increased number of soil assessment offer letters (approximately 700) to increase number of participants and provide data for remediation prioritization.

Community Check-In (community members round table)

- RDKB working to identify appropriate location for composting site.

Program Planning Operations (Michelle Laurie, THEC):

- THEC membership changes include:
 - AJ Downie replacing Brad McCandlish from MoE
 - Tiffany Armstrong community member resigned January 22nd, 2019
 - Dr. Sue Pollock replacing Dr. Karin Goodison as MHO liaison
- THEC meeting dates for 2019:
 - Tuesday April 9
 - Tuesday June 4
 - Thursday September 19
 - Tuesday November 26

Executive Report (Mayor Lisa Pasin, THEC Chair):

- Strategic planning will be considered once targets are identified
- Planning occurring for an AQTWG in near future
- Reviewing purpose of executive meeting and structure

Meeting adjourned at 9:55 pm

NEXT MEETING: Tuesday, April 9, 2019

Attachments:

- THEC Committee & Program Overview and History (presentation)
- Remediation requirements for smelter contamination in Trail & 2019 Work Plan (presentation)
- Air Quality (presentation)
- Family Health (report)
- Home & Garden (presentation)



TRAIL AREA
HEALTH &
ENVIRONMENT
COMMITTEE



TRAIL AREA
Health & Environment Program

Committee and Program Overview and History



TRAIL AREA
Health & Environment Program

Trail: An Industrial History

Trail is home to one of the largest zinc and lead smelters in the world, in operation for over a century



A Community Partnership

- 1989 UBC study showed children's lead levels above a level of concern
- Joint task force first established in 1990
 - Provincial health and environment agencies
 - Community (Mayor of Trail, Trail parents)
 - Company
- Almost 30 years of collaboration – *Trail Community Lead Task Force to Trail Area Health and Environment Committee*



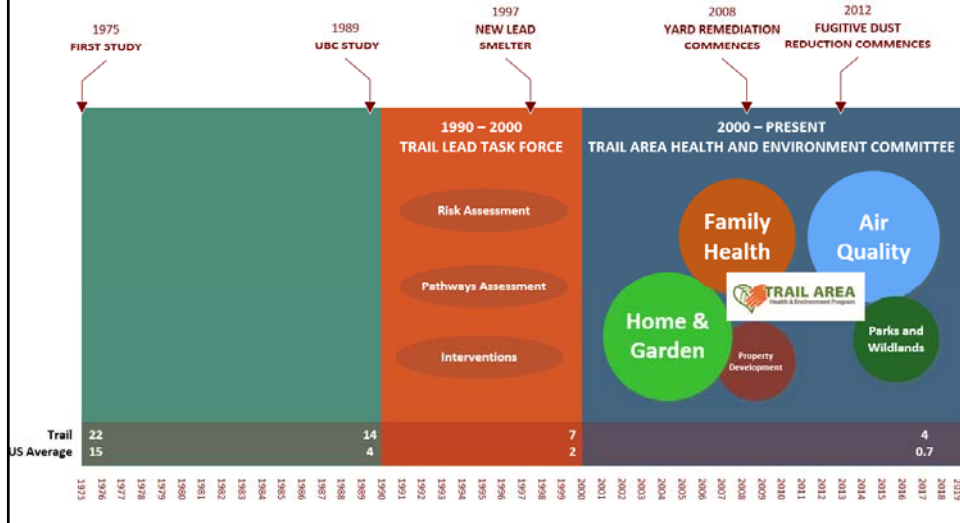
THEC Values

1. **Health** – *health of people and ecosystems*
2. **Community Led** – *partner in process and decision-making*
3. **Partnership** – *collaborative multi-stakeholder model*
4. **Science-based** – *scientific approach to innovation*
5. **Accountability** – *community, partners and stakeholders*
6. **Trustworthy** – *open, honest and transparent in actions*

It starts with the kids!



Continuous Improvement



REMEDIATION REQUIREMENTS FOR SMELTER CONTAMINATION IN TRAIL

Presentation to
Trail Health and Environment Committee
January 22, 2019

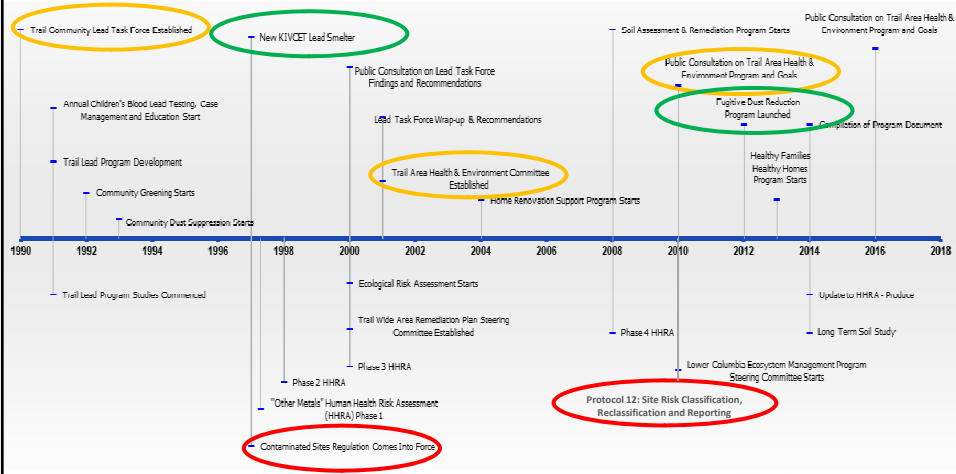
Peggy Evans
Manager, Risk Assessment & Remediation



Ministry of
Environment and
Climate Change Strategy

KEY MILESTONES

Key Milestones for the Trail Area Health & Environment Program



Ministry of
Environment and
Climate Change Strategy



Ministry of
Environment

WIDE AREA REMEDIATION PLAN

A WARP is an “**Approval in Principle**” under the Contaminated Sites Regulation

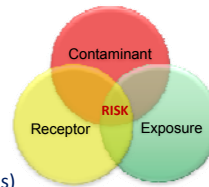
An approved WARP will provide:

- A comprehensive, long-term remediation plan and schedule that meets the requirements of the CSR and is approved and overseen by the province,
- Certainty for landowners on Teck’s liability for historic smelter related contamination,
- Certainty for residents of Trail on the levels of contamination in their community, the potential risks posed and how risks will be mitigated, and
- Certainty for Teck on their remediation obligations under the *Environmental Management Act*.

SITE RISK CLASSIFICATION

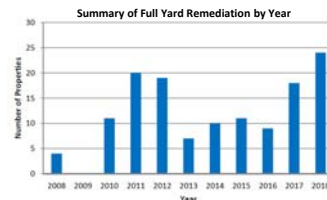
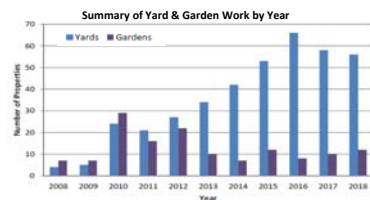
Protocol 12 is a risk screening tool for classifying sites.

- Classification is based on simple criteria:
 - 1) likelihood of exposure (spatial extent & proximity)
 - 2) severity of contamination (Upper Cap = 10X CSR standards)
- Remediation of sites classified as “high risk”, is overseen by the ministry to ensure appropriate and timely remediation occurs.
- All remediation options under the CSR may be used, including managing contamination in place under risk-based remediation.
- In 2017 CSR standards for lead dropped based on Health Canada data.
 - ➔ Lead soil standard for human health on residential land dropped from 400 mg/kg to 120 mg/kg
 - ➔ Upper Cap dropped from 4,000 mg/kg to 1,200 mg/kg



DIRECTOR'S 2019 WORKPLAN REQUIREMENT

- Soil remediation in Trail has been carried out under Independent Remediation.
- In 2017 with the CSR standard dropping, the number of properties that would potentially be classified as “high risk” rose significantly.
- Teck committed to submit a final WARP by December 2018,
- Some WARP components delayed in 2018
- Director’s letter issued December 7, 2018 requiring Teck to prepare a workplan and schedule for remediating soil in Trail in 2019 & until there is an approved WARP.



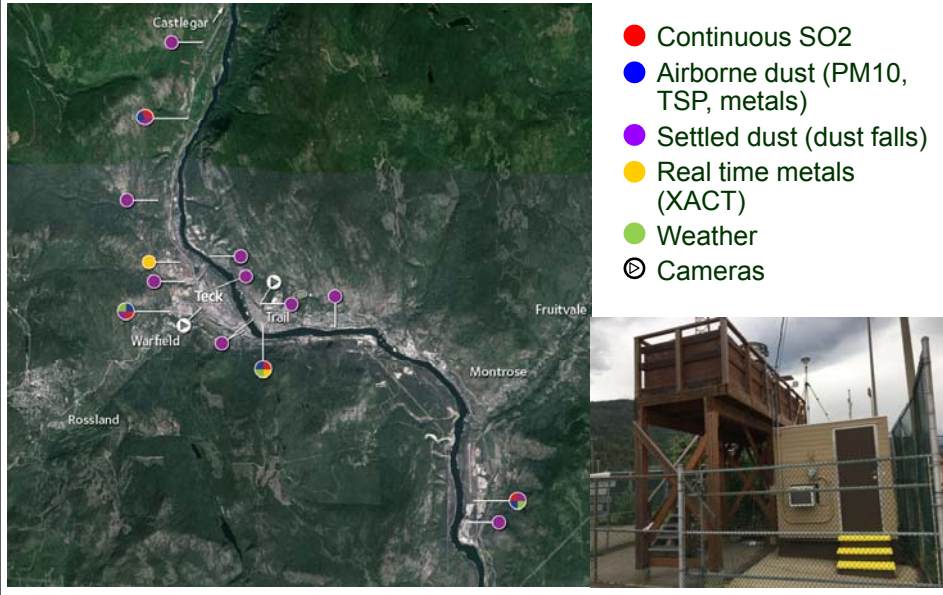
DIRECTOR'S 2019 WORKPLAN REQUIREMENT

- A Remediation Workplan to target highest risk sites
- Due January 31, 2019
- Components:
 - Detailed soil investigation data,
 - Risk-based scheme for prioritizing sites for remediation
 - Plan for investigating & remediating priority sites
 - Plan for communicating with landowners & the community
 - Plan for mitigating exposure risks during active remediation
 - Progress reporting – June, 2019
 - Annual reporting – March, 2020

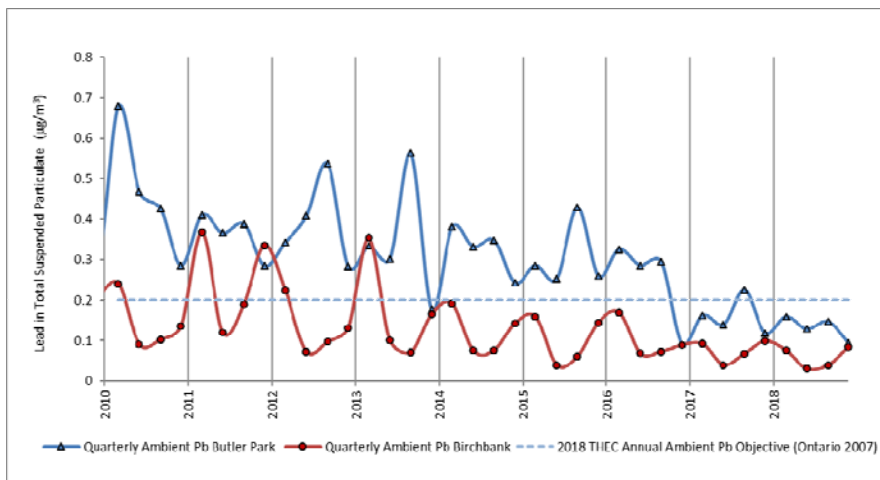
- ENV have requested that Teck prepare a plan by January 31
- The plan will formalize the soil assessment and remediation work undertaken through Home & Garden Program
- The plan will include the following:
 - soil assessment and remediation data collected since 2008
 - how properties are prioritized for remediation
 - remedial measures employed as part of the Program
 - how the Program communicates with residents for soil assessment and remediation
 - practices employed during remediation to minimize exposure
- A progress report will be provided to ENV by June 30 identifying the sites prioritized for assessment and remediation in 2019
- Soil assessment and remediation at the prioritized sites will be undertaken as outlined in the plan

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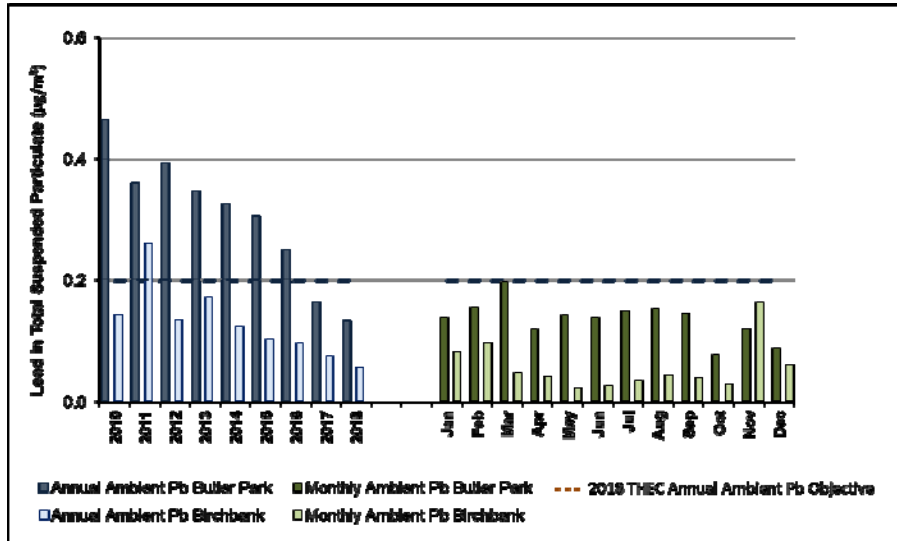
Teck Community Monitoring Stations



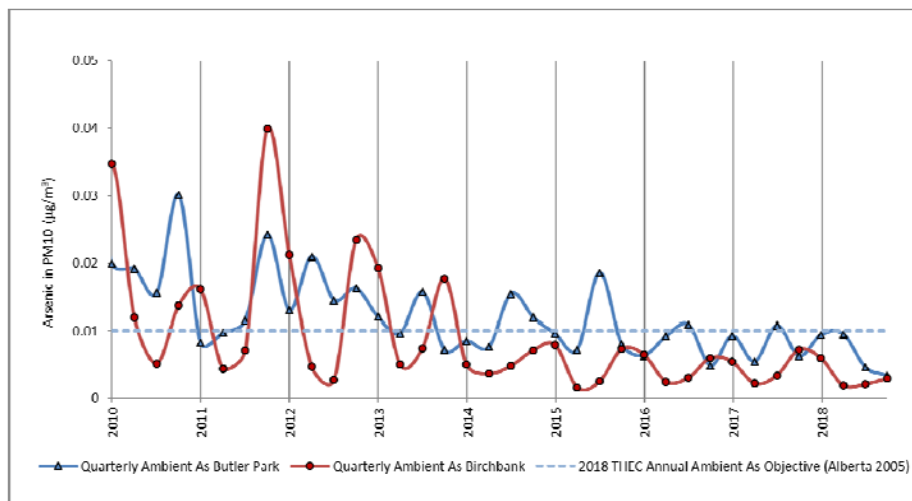
Lead in Ambient Air



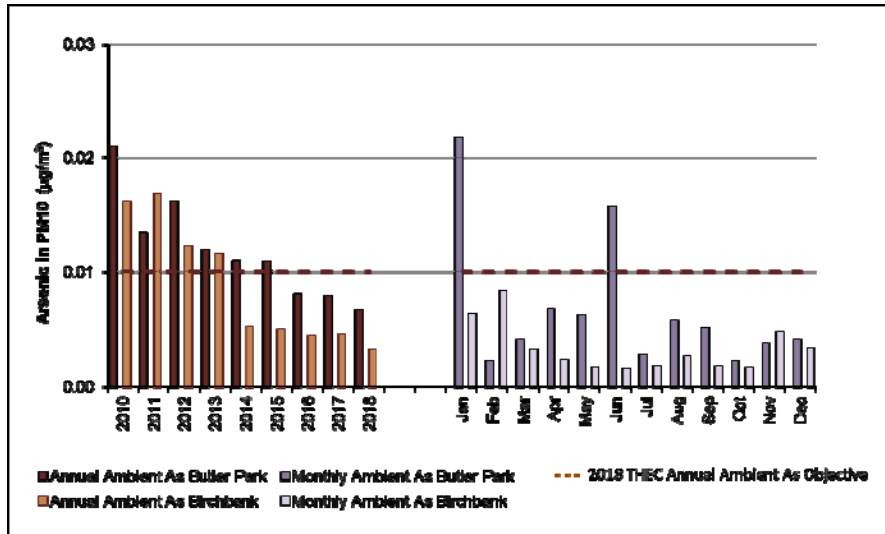
Lead in Ambient Air



Arsenic in Ambient Air



Arsenic in Ambient Air



FAMILY HEALTH REPORT



January 22, 2019

RECENT HIGHLIGHTS

1. February 11th and 12th, 2019 blood lead clinics
 2. Healthy Families Visits
 3. Community Outreach
-

ADDITIONAL DETAILS

1. February 11th and 12th, 2019 blood lead clinics
 - 31 children invited
2. Healthy Families Visits
 - 51 visits done in 2018
 - Average age of 10 months old (range 1 -29 months old)
 - 9 declined
 - 83% participation rate
 - 3 previous had Healthy Families visit with older child
 - 88% participation rate
 - 20 done since last THEC meeting on Sept 25, 2018
 - 5 more visit scheduled
3. Community Outreach
 - Attended local Pregnancy Outreach Program monthly



HOME & GARDEN 2018 Annual Summary

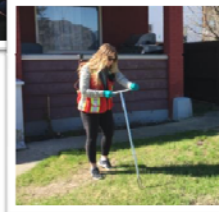
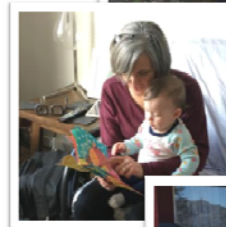
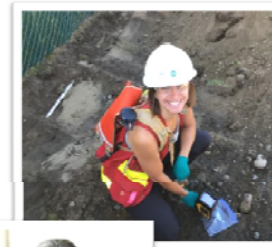
Summary to the THEC
January 22, 2019
7:00 pm



Outline

H&G Program delivers services in the community to prevent and reduce health risks from exposure to lead in the home and yard environment

- Healthy Homes
- Outreach & Engagement
- Lead Safe Renovation
- Soils Program
- Home & Garden Program for 2019



Healthy Homes

In-home visit program for families focused on the prevention of lead exposure in the home and yard environment.

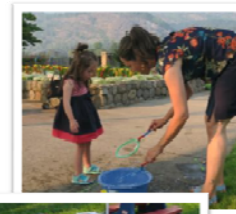
- **59 visits completed in 2018**
 - 54 'new' families identified in 2018
 - 3 prenatal visits
 - 94% participation rate (target 95%)
- **Response time to schedule 3-4 weeks**
- **524 HH visits since 2012**



Outreach & Engagement

Engage with families, residents and community organizations to promote THEP goals and objectives

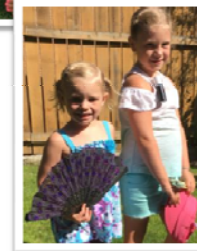
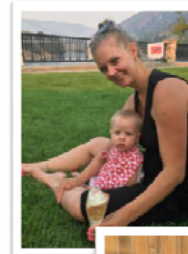
- **Community Program Office:** 760 interactions!
- **Events:** Family Zone, Teddy Bear Picnic
- **Collaboration:** Navigator Table, Early Years Coalition, Sustainable Agriculture Committee
- **Presentations:** Building Beautiful Babies
- **Consultation:** Trail Family and Individual Resource Society



Outreach & Engagement

How do families find the Healthy Homes Program?

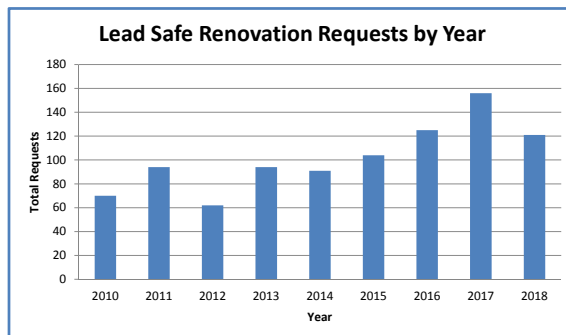
Outreach Type	2012	2013	2014	2015	2016	2017	2018
Interior Health	97%	67%	40%	51%	62%	56%	59%
H&G Programs	1%	23%	40%	33%	24%	36%	35%
Events	2%	10%	10%	7%	14%	8%	6%



Lead Safe Renovation (LSR)

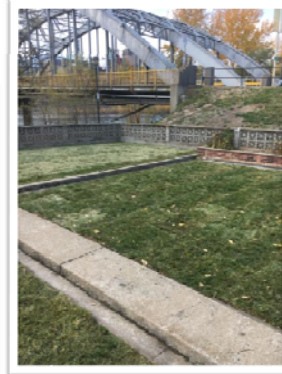
Prevent exposure to and the spread of lead dust during renovation projects

- Similar number of requests (121) to other years
- Stopped loaning shop vacs



Soil Programs

Identify and reduce exposure to metals in residential yards and gardens



Yard Assessment

Identify metals in residential yards and gardens

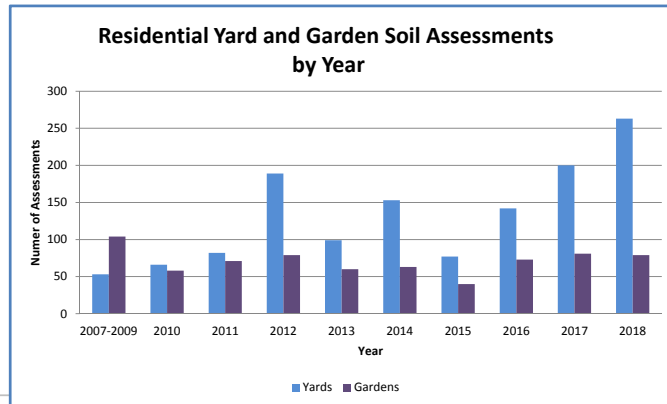
- Open offer for soil testing in Trail and Rivervale
- Sent letters to specific neighbourhoods offering testing

Type	Offered	Requested	Declines	Sampled	No Response	Pending
Healthy Homes Yards	32	27	0	22	5	5
Community Letters	611	248	25	199	338	49
Community Program Yards	-	50	-	37	-	13



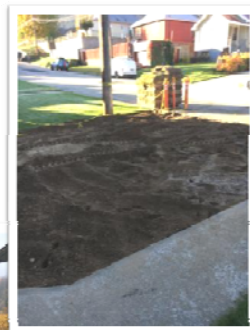
Yard and Garden Assessments

The amount of sampling in 2018 is primarily a result of offer letters in East Trail, Shavers Bench and West Trail.



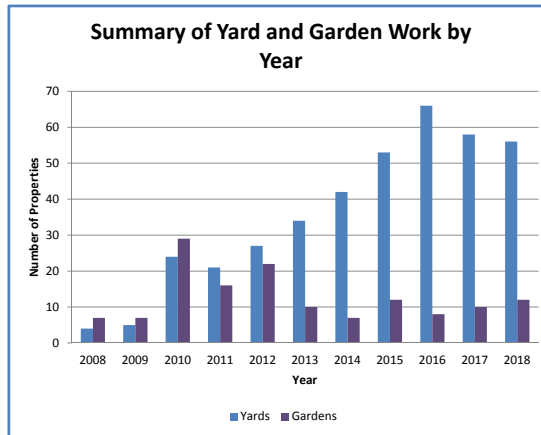
Remediation & Yard Improvement

Reduce exposure to metals in yards and gardens through remediation and risk management



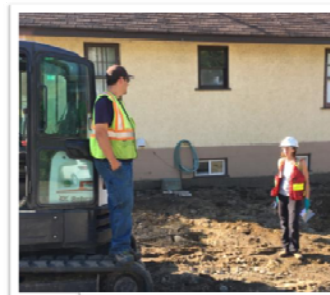
Remediation

- Focus on full yards
- 71 properties received work
 - 6 yard improvement
 - 26 lawn care
 - 27 remediated
 - 20 Healthy Homes
 - 4 Community Program Yards
 - 3 partial yard remediation
 - 12 vegetable gardens remediated (3 more as part of yards)



2019 Programs

- Soil Assessment and Remediation will support the 2019 Workplan
- Continue LSR, Community Program Office, Healthy Homes and Outreach to the broader community



Thank you!



Any questions?