

Trail Area Health & Environment Committee



MINUTES

Meeting:

November 28, 2017

City of Trail – Committee Room #2

7:00 pm

Committee Members in Attendance:

Mike Martin, Chair, City of Trail
Lisa Pasin, Alternate Chair, City of Trail
Dan Bouillon, Teck Trail Operations
Jeannine Stefani, Interior Health

Marylynn Rakuson, Community Rep.
Shane Ferraro, Village of Warfield
Dawn Tomlin, Interior Health
Mike Adams, Interior Health

Others in Attendance:

Bruce Enns, SNC-Lavalin Inc.
Cindy Hall, SNC-Lavalin Inc.
Andrea McCormick, SNC-Lavalin Inc.
Ruth Beck, Program Manager
Thompson Hickey, Teck Trail Operations
Paul Laratta, Local Parent
Dr. Golmohammadi, MHO, Interior Health

Clare North, Teck Trail Operations
Alexa Matthes, SNC-Lavalin Inc.
Julia Stockhausen, Kootenay Family Place
Liz Anderson, SNC-Lavalin Inc.
Steven Hilts, Teck
Aaron Miller, Interior Health
Scott Maloney, Teck

Round of introductions

MEETING MINUTES: Dated September 5, 2017 Note: add the date to the minutes.

Motion to approve the minutes from, September 5, 2017.

Minutes accepted as circulated.

PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS:

Mike commented that we are still working through some elements of the Children's Blood Lead results presentation. The results will be ready for presentation at the next meeting.

Presentations:

Update on the Wide Area Remediation Plan (WARP); attached

Dan and Clare presented the WARP Update and spoke about the steps to be taken to advance the WARP.

Mike provided a brief update on the Wide Area Site (WAS) Property Impacts Group; the Ministry of Environment (ENV) is proceeding with the amendment to the regulation to find an alternative to the WAS designation. Mike added that we hope to have it in place by Spring 2018. The name of the WAS alternative still needs to be decided and the regulators will provide THEC with an opportunity to consult with them on it. We will also need to prepare communications for the roll out of the WAS alternative. The Property Impacts Group recommended that we have the alternative designation as well as the WARP public consultation completed before the next civic election in October 2018. We are currently targeting the spring for public consultation; however, timing of certain aspects are outside of our control.

Mike commented that it would be a shame to see delays to the WARP push the public consultation into 2019. Ruth added that ideally, the consultation will happen in June 2018, but if we must, it could be September (although we'll then be competing with election publicity and discussions).

Discussion continued about the two public consultations, one for the WAS regulatory amendment and one for the WARP. Clare commented that the WARP public consultation is Teck's responsibility to undertake, but there is a likelihood that it would be delivered to the public in cooperation with THEC. Clare further clarified that the consultation on the regulatory amendment is done by ENV alone; but it won't be on the same scale as the public consultation for the WARP. Ruth added that it is the affected parties of the regulatory change (this may be property owners who have contaminated sites already registered, contractors, etc). The ENV consultation won't take place in Trail. Representatives of ENV will be available as resources for our WARP consultation, however.

Dan commented that the public consultation from 2016 that THEC undertook could be a model for the WARP consultation.

Community Check-In

Marylynn commented that she was happy to attend the recent Air Quality Technical Working Group meeting.

Marylynn raised the topic of municipal composting. It was a topic that came up at a recent food sustainability meeting and Marylynn would like to know if anything is planned for Trail (either via the City or the RDKB). Mike shared that there is an initiative under consideration for the East End (Fruitvale to Rossland) to pick up organic waste. The RDKB is looking for a location for a composting facility; they couldn't find one in the Trail area and now are looking at trucking organic waste to the established Grand Forks facility. Mike emphasized that this is being explored for feasibility. Clare pointed out that composting is a real opportunity to look at for soils for our remediation program. Teck will explore it for sourcing soil locally as composted materials could be used as an amendment for vegetable garden soil. Andrea agreed: high quality organic matter to add to vegetable gardens is something the program can use. Julia commented that there is a program in Castlegar where residents can take truckloads of garden waste and dump it behind the complex.

Program Updates and Business Arising:

Air Quality:

Clare shared the Air Quality report. Teck is on track to have the lowest ever annual average lead in air at Butler Park. Results for the third quarter (July through September) are the lowest levels recorded at current monitoring locations while in operation. This is despite low rainfall and hot and dry weather throughout the summer. To date in 2017, the amount of arsenic in air remains below the THEC 2018 objective.

Mike commented that the lead in air results appear to demonstrate the impact of the Smelter Recycle Building (SRB) and that a step change has occurred. Steve added that it is also an incredible testament to the strength of the community and its influence; the 2010 public consultation provided direction to Teck to aim for the most stringent standard in Canada (coming out of Ontario) of $0.18 \mu\text{g}/\text{m}^3$. Ruth pointed out that Teck achieved the arsenic in air target last year and hit the lead target this year (1 year ahead of the goal year). Dan pointed out that we can anticipate that we'll see more positive effects from the SRB next year as well as from continuing the Fugitive Dust Reduction Program. Teck is also installing a wind fence around the Roaster Feed Pad (by spring 2018) and testing dust cannons to spray mist over exposed materials.

Ruth noted that we could mention this achievement in a newsletter and acknowledge the importance of public feedback. Marylynn requested that we include the graphs in the newsletter to illustrate the achievement.

Dan shared that the first fugitive dust survey was undertaken in 2012 to identify where the dust comes from on the Teck facility; Teck replicated the survey this past summer and they are analyzing the results now.

Air Quality Technical Working Group update:

Ruth highlighted the minutes from the most recent meeting on November 15th. The meeting was held to discuss 'restarting' the working group after not having met for a long time. Attendees discussed the Terms of Reference (TOR); the working group began as a forum for community discussions on air quality

related topics and now has expanded mandate from THEC regarding SO₂. The group came up with list of priority targets and the next meeting will be regarding sulphur related emissions.

Family Health:

Jeannine shared the dates for the winter clinic: February 19th and 20th, 2018. There will be about 40 kids invited.

Jeannine highlighted that the new Trail Blood Lead database is working well and she's preparing to get ready for Phase 2 (Phase 1 was getting the old three databases that Jeannine had to use onto one reliable platform). Phase 2 will expand the abilities of the database.

Discussion turned to how children and families are tracked as they move around town. As the program is voluntary, both the Home & Garden team and Jeannine are only aware of families' whereabouts if the family keeps us informed. The information is shared between Jeannine and the Home & Garden team when the family gives permission to do so. Dawn added that our program is focused on children who are 6-36 months old, and we only follow a family beyond that age in special circumstances (such as, if the child is case management).

Jeannine will plan to present the 2017 Children's Blood Lead Testing results at the next meeting.

Home & Garden/Program Office:

Andrea began the Home & Garden report by highlighting the hard work Alexa has done throughout assessment season; she sampled 203 properties!

Now is the season to test for radon; Lisa asked that we highlight the tax deductible donation when folks enquire about test kits at the office.

Cindy continued the presentation and highlighted her current challenge with finding a vacuum supplier.

Andrea concluded the report by presenting a time lapse video of a yard remediation.

Program Planning & Operations:

Ruth provided an update from the recent Blood Lead Levels Reduction Working Group meeting. The working group met on October 25th to discuss proposed yard and garden action levels; they had a good discussion and will meet again in the New Year. While the group is currently focused on Soil Action Levels related to the WARP, their overall mandate is to look at opportunities to further reduce children's blood lead levels in Trail and area.

Ruth shared a verbal update on Program Planning and Operations. The report titled "TLAP Biennial Report 2016" comes from Pt. Pirie, Australia. Pt. Pirie is a smelter town that has reached out to THEC with the intention of re-establishing a relationship with us. Their areas of focus are: Legacy Remediation, Early Intervention, Legislation and Policy, Community Dust Management, and Stakeholder Partnership and Engagement.

We will participate in a conference call to re-establish the relationship between the two committees. Ruth highlighted that they would like a representative from IH to join in on the call.

There are some questions to consider before the call; what do we want to learn from Pt. Pirie? Ruth shared that they have established cost-benefit frameworks and we may wish to learn more about what they have. In turn, they are interested in our Lead Safe Renovation videos.

NEXT MEETING: Tuesday, January 30, 2018 (rescheduled to February 6, 2018)



Wide Area Remediation Plan Update

November 28, 2017

Trail Health & Environment Committee meeting



Wide Area Remediation Plan (WARP)



Why a WARP?

- Historical stack and fugitive emissions from the Trail smelter have resulted in the deposition of metals in the area.
- People, plants and wildlife can become exposed to these metals in dust, air and soil. If exposures to metals are above certain thresholds there is a potential risk to human or ecological health.
- The WARP is being developed to describe the past, current and future planned activities of Teck and its partners to address human health and ecological risks associated with these historical emissions.

Historical Context

- The partners of THEP or its predecessor have worked collaboratively for 27 years, in a transparent and science-based manner to take action to understand risks and reduce exposures to smelter-related metals in Trail area.
- Focus on lead and children – from 14 to 4.3 microgram/deciliter.
- Teck prioritized stack emissions reductions, then fugitive air emissions and yard soil remediation.
- We worked together to build community monitoring, education and intervention programs, and continue to refine and improve these programs.
- Today the risks to adults are negligible, the risks to kids are now very low, but 'safe' levels of Pb in blood and soil continue to be set lower.
- Risks to wildlife and fish are low to negligible.
- Teck has been committed and continues its commitment to THEP and the community to reduce lead in air and the soil in the surrounding community.

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Since the last THEC meeting September 5, 2017 ...

Teck completed a proposal to substantially reduce soil action levels for yards and vegetable gardens for incorporation into WARP.

Teck presented its proposed soil action levels to THEC's Blood Lead Level Reduction Working Group (BLLRWG).

WARP steering committee (Teck, ENV*, IH) met to discuss the next steps to support the progression toward an approved WARP document.

*MOE is now known as ENV (Ministry of Environment & Climate Change Strategy)

Human Health Focus Area: Soil Remediation Action Levels

Teck

Through THEP we address children's blood lead levels by;

1) reducing fugitive dust, 2) managing stack emissions, and 3) remediating soil in yards and gardens.

Teck's proposed next steps soil actions levels (as identified in the WARP) are expected to further reduce blood lead levels:

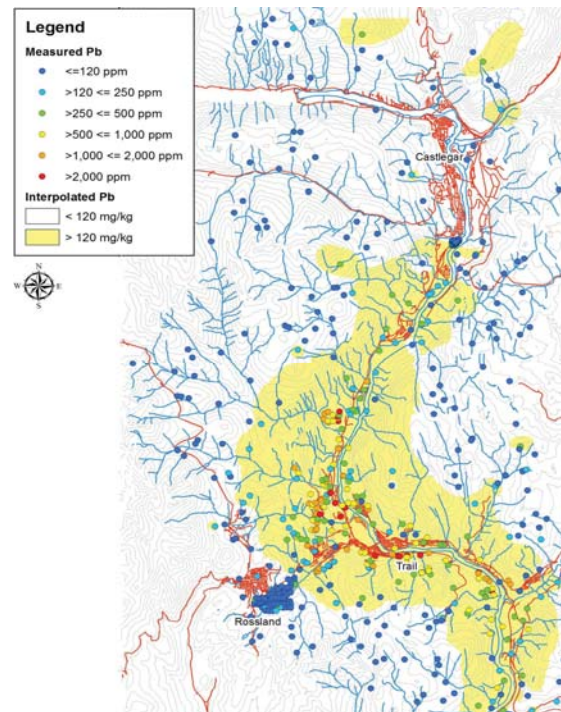
- Proposed level for yard soil is 1200 mg/kg (current is 4000 mg/kg)
- Proposed level for garden soil is 400 mg/kg (current is 1000 mg/kg)
- Adaptive management plan: evaluate effectiveness, adjust if needed

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WARP aspects being advanced

Teck

- Defining WARP boundary
- Adaptive management plan
- Alternate to Site Registry for information management
- Public consultation plan
- Blood lead targets
- Wide Area Site regulatory amendment



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Next Steps...	
Teck continues to advance the WARP for submission and will submit draft proposals on key aspects to ENV for review	Nov 2017 - Apr 2018
Teck and BLLRWG will continue discussions with IH regarding blood lead targets for incorporation into WARP	Nov 2017 - Apr 2018
Regulatory amendment on WAS	Spring – Fall 2018
Teck submits proposed WARP to ENV for review	Spring – Fall 2018
Public consultation on WARP	2018 - 2019
Implementation of WARP after regulatory approvals & public consultation completed	2018 - 2019



November 28, 2017

RECENT HIGHLIGHTS

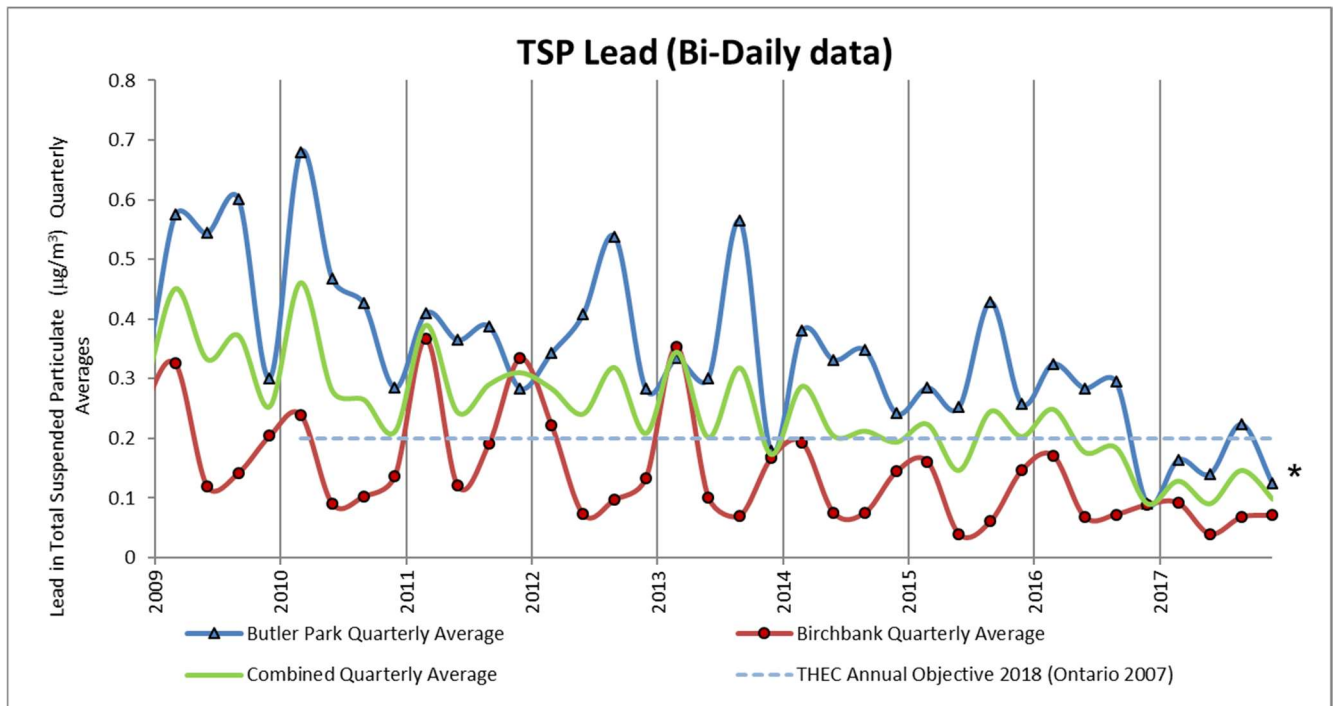
1. Lead in Air:

- 2017 is on track to be the lowest ever annual average lead in air at the Butler Park station. Year-to-date results indicate that we will likely be below the THEC 2018 Annual Objective.
- Third quarter results (July, August, September) are the lowest levels recorded at current monitoring locations while in operation. Third quarter levels were achieved despite less rainfall and higher temperatures than average.

Details:

The chart shows quarterly averages for Lead in air (measured in Total Suspended Particulate) for Butler Park (dark blue), Birchbank (red), in comparison to the 2018 THEC Air Quality Objective (dashed line). The green line is the average of the two. Quarterly averages for Lead in ambient air are expected to have some variability due to season, weather, predominant wind direction and operational variance. The average at Butler Park for the third quarter ($0.15 \mu\text{g}/\text{m}^3$) is low compared to third quarters in previous years. The year to date average for lead in air at Butler Park ($0.17 \mu\text{g}/\text{m}^3$) is below the 2018 THEC Annual Objective and reflects ongoing fugitive dust reduction efforts including the Smelter Recycle Building.

Figure 1: Average TSP lead (bi-daily), Butler Park station



*Q4 2017 average to November 15

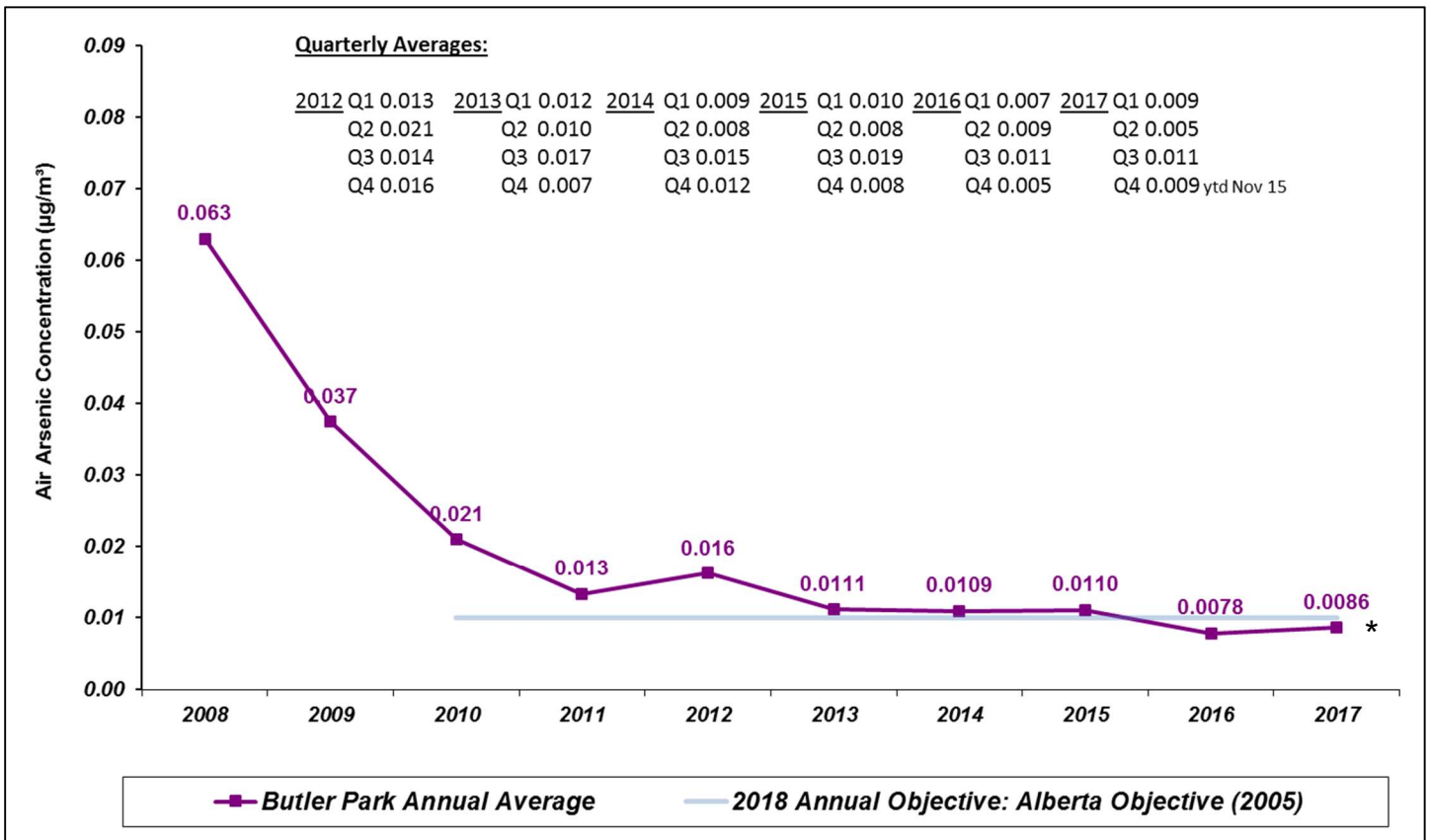
2. Arsenic in Air:

- The average for the third quarter of 2017 remains lower than the THEC 2018 Annual Objective. The annual average for arsenic in air for 2016 achieved this Objective, and was the lowest ever annual average for arsenic in community air at Butler Park. The year to date average shows we are on track to remain below this Objective.

Details:

The chart shows the annual average for Arsenic in air (measured as inhalable PM₁₀ fraction) for Butler Park (purple) in comparison to the 2018 THEC Air Quality Objective (blue line). The 2016 annual average was 0.0078 µg/m³, and the average year to date for 2017 at Butler Park is 0.0086 µg/m³ which remains lower than the THEC objective of 0.01 µg/m³.

Figure 2: Annual average PM10 air arsenic levels, Butler Park station



* 2017 annual average to November 15

Trail Area Health & Environment Committee

Air Quality Technical Working Group

Minutes

Meeting: Wednesday, November 15, 2017

TRAIL
A R E A
HEALTH &
ENVIRONMENT
COMMITTEE



In Attendance:

Ron Joseph, Community Rep, Chair
Marylynn Rakuson, Community Rep
Gord DeRosa, Community Rep
Clare North, Teck Trail Ops
Pete Golden, Teck Trail Ops
Suzanne Belanger, Teck Trail Ops
Dan Bouillon, Teck Trail Ops
Donna Haga, ENV
Christina Yamada, IH
Ruth Beck, THEP Manager
Bruce Enns, SNC-Lavalin
Andrea McCormick, SNC-Lavalin

Meeting Minutes:

1. Roles and membership – attendees explained their roles in the group
2. Terms of Reference – group reviewed draft Terms of Reference and suggested modifications (revised draft attached for Working Group review); discussion of additional attendees
ACTION: Contact RDKB re. requesting participation, esp. from Chris Marsh (formerly of ENV) due to subject matter expertise
3. List of priority topics for review by the Working Group:
 - Status of sulphur-related emissions & plans
 - Community messaging regarding sulphur dioxide
 - Aesthetics, including smog, concrete & walls
 - Emergency Response Planning
 - Lead and Fugitive Emissions, including trucks
4. Summary of Reportable Events and Community Feedback – Most of the feedback between May and September, 2017 related to aesthetics of the Lead Stack plume, and three of four reportable events were related to sulphur dioxide.
5. Next meeting – Quarter 1, 2018 date TBD. Presentation on status of sulphur-related emissions and plans

FAMILY HEALTH REPORT



November 28, 2017

RECENT HIGHLIGHTS

1. Dates for Winter 2018 clinic
 2. Healthy Families Visits
 3. Community Outreach
 4. New Trail Blood Lead Program Database
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ADDITIONAL DETAILS

1. Winter 2018 clinic dates scheduled for February 19th and 20th
2. Healthy Families Visits
 - 55 done in 2017
 - 6 done since last Trail Area Health and Environment Committee meeting September 19th
 - 9 more scheduled
3. Community Outreach
 - Attended local pregnancy outreach program on September 12th and October 10th. Continue to attend monthly.
 - Family Action Network's Ages and Stages Day at Kiro Wellness Centre was on October 3rd.
4. New Trail Blood Lead Program Database
 - Used the New Trail Blood Lead Program Database for our Fall 2017 Clinic.
 - To finalize Phase 1 and start planning for Phase 2



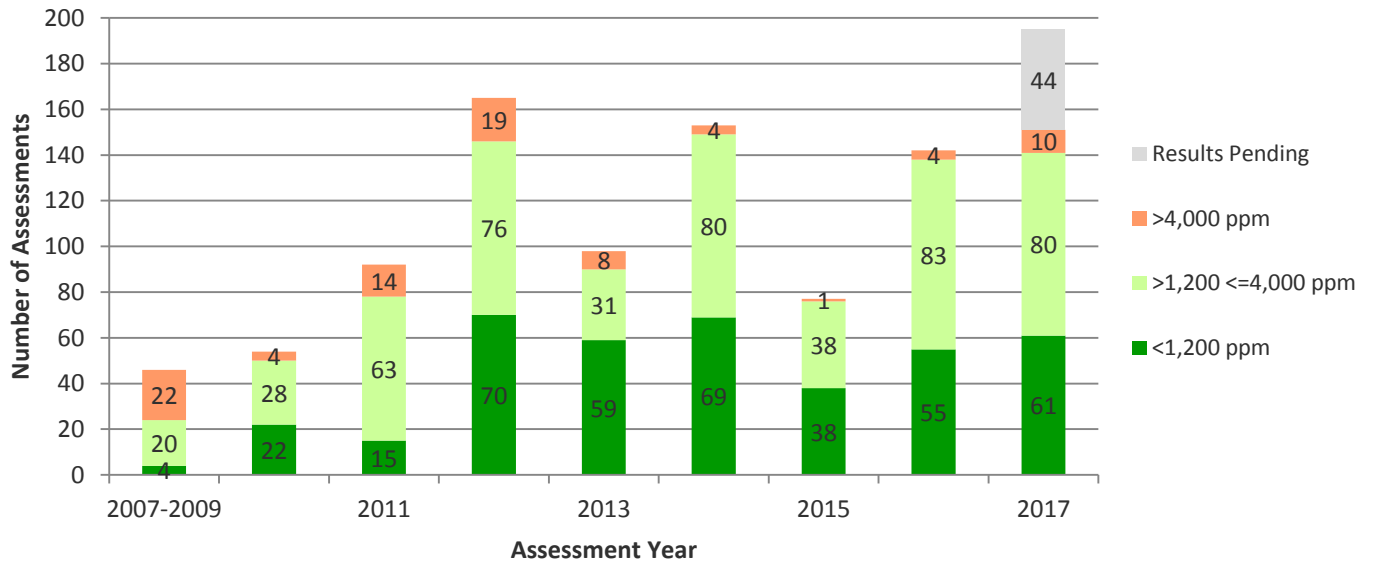
November 28, 2017

RECENT HIGHLIGHTS

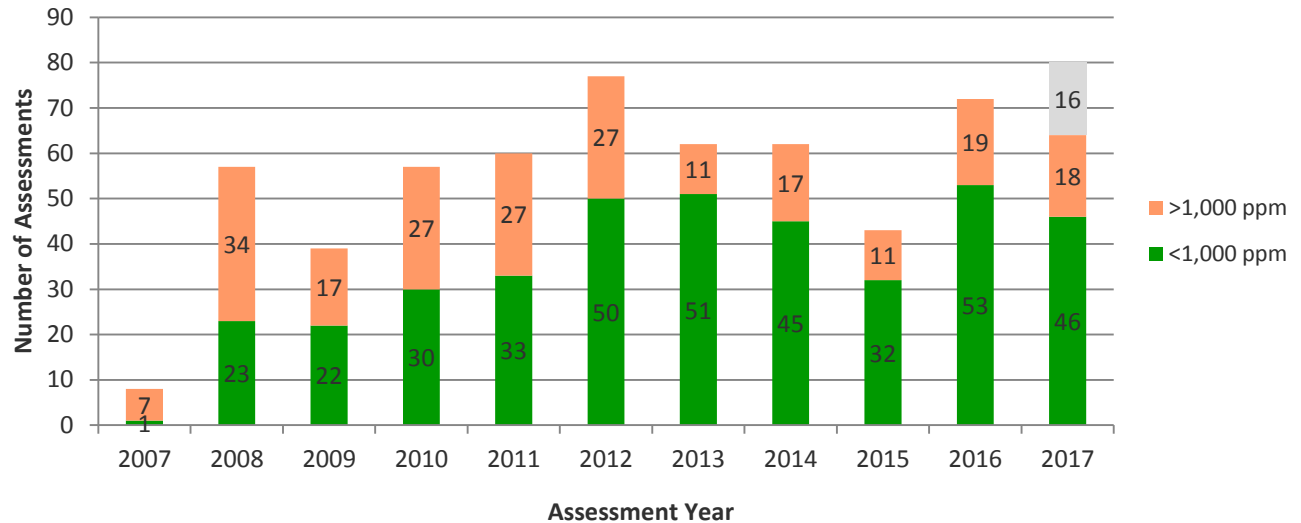
1. Soil Assessment Program

- Busy, successful soil testing year with our newest staff member completing testing at 203 properties, with 5 outstanding requests.
- Focus on completing ALL Healthy Homes soil testing (1 new from Nov 27)
- Offered testing to over 450 properties in East Trail.

Residential Yard Soil Assessment Results by Year



Garden Soil Assessment Results by Year

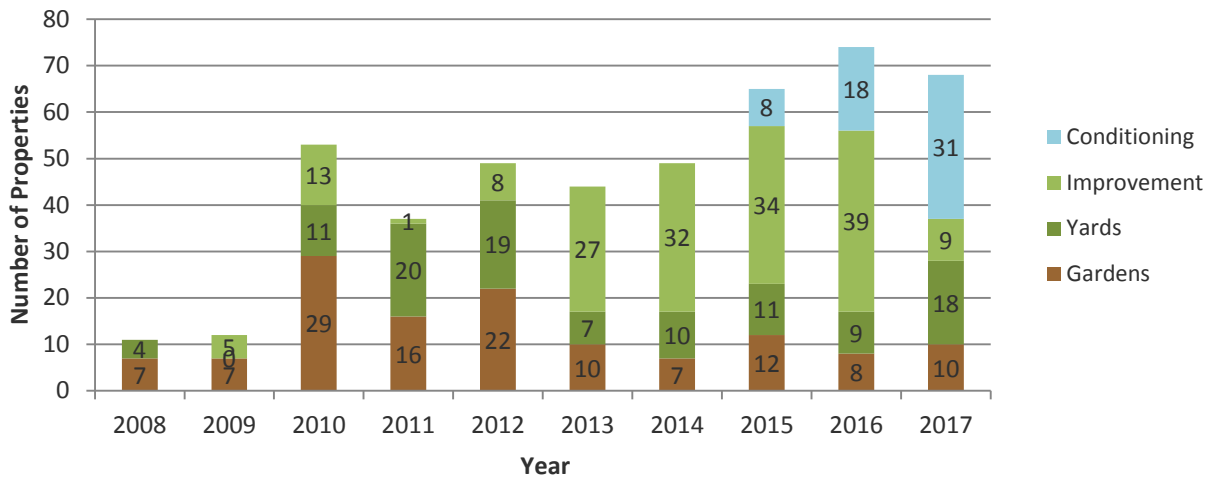


HOME & GARDEN REPORT

2. Remediation Program

- Completed the remediation program for the year with:
 - i. 10 Gardens
 - ii. 18 Full or Partial Remediations (8 were properties of HFHH families)
 - iii. 9 Yard Improvements and 31 Lawn Care
- Focus on more full remediation with Healthy Homes families and properties over Action Levels
- Lawn care has proven effective in 52 % of cases and will be further improved in 2018 because it will be delivered by a lawn care specialist.
- Positive Feedback: “I just wanted to pass on my thanks for the great job at our rental house!!! We are very appreciative.” Donna Finlay

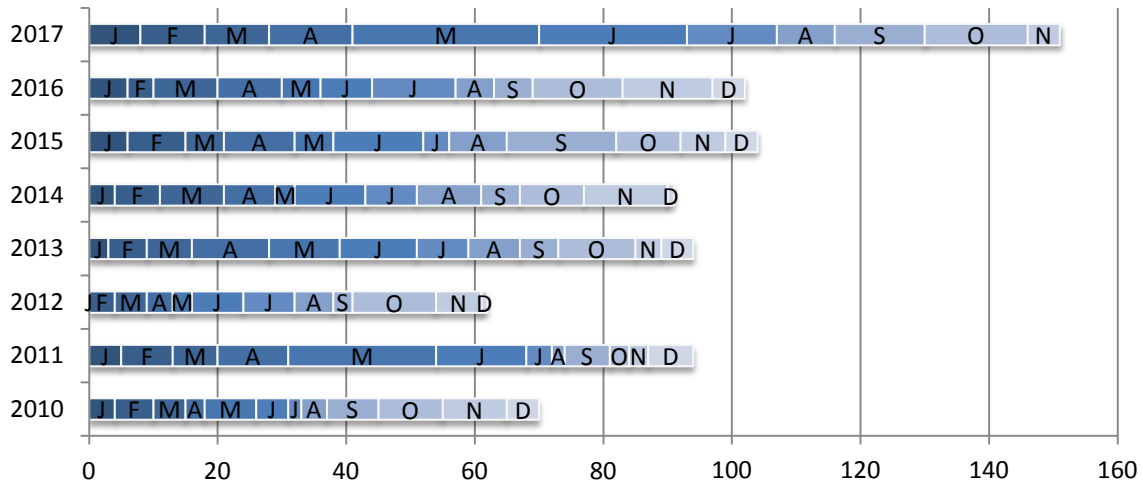
Remediation and Improvement Work by Year



3. Lead Safe Renovation – Total requests for lead safe renovation supplies to date are 151. This compares with 120 at this time last year. 6 healthy renovation visits.

4. Radon Test Kit Requests – Total requests for radon test kits to date are 79. This compares with 62 at this time last year.

Lead Safe Renovation Requests by Month and Year



5. Healthy Homes

- 71 of HH Visits to date
 - i. 12 for expectant families
 - ii. 46 for families with children 0-36 months
 - iii. 5 for families over 36 months
 - iv. 8 for grandparents, guardians and daycares
- Vacuums – Vacuums are huge incentive for parents and caregivers to participate in the HFHH program. Our vacuum supplier recently went out of business so we are working to secure another supplier and to resolve long-term issues such as sourcing parts and dissolved warranties.

6. Healthy Homes Outreach

- Trail Market Family Zone – An internal evaluation by Family Zone facilitators indicates that the effort has been a success! All facilitators agreed that the Family Zone achieved its goal to ‘bring together early childhood service providers to create a family friendly area in the community where parents and caregivers have easy access to information about local early childhood programs and services’ and are excited about next year.
- Every Door is the Right Door – On January 18th, 2018 the Success by 6 Early Childhood Coalition will host a Service Provider Expo to increase communication and coordination between service providers and increase their collective ability to support families. THEP is represented by Cindy as a coalition member.

Items for discussion:

1. Home & Garden Annual Summary for February meeting