

Trail Area Health & Environment Committee



MINUTES

Meeting:
Tuesday, September 8, 2015
City of Trail – Committee Room #2
7:00 pm

Committee Members in Attendance:

Mike Martin, Chair, City of Trail
Gord DeRosa, Community Member
Brad McCandlish, BC Ministry of Environment
Brandi Thirsk, Community Member
Dawn Tomlin, Interior Health

Lisa Pasin, Alternate Chair, City of Trail
Marylynn Rakuson, Community Member
Mark Tinholt, Teck Trail Operations
Jeannine Stefani, Interior Health
Tiffany Armstrong, Community Member

Others in Attendance:

Bruce Enns, SNC-Lavalin Inc.
Andrea McCormick, SNC-Lavalin Inc.
Ruth Beck, Program Manager
Chris D’Odorico, Teck Trail Operations
Amy Bohigan, Watershed Productions (via teleconference)

Richard Deane, Teck Trail Operations
Bill Jankola, Teck Trail Operations
Liz Anderson, SNC-Lavalin Inc.
Chris Stettle, Trail Champion

MEETING MINUTES: Dated Tuesday, July 7, 2015

Motion to approve the minutes from July 7, 2015. None against, approved.

PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS

Discussion about Sustainable Governance:

Briefing by the Chair

Mike introduced the new format for the THEC meetings as part of a renewed effort to maintain sustainable governance. Recently, a committee member had provided some perspective on what it’s like to be new to the Committee and how are we engaging the membership. Mike added that the Program is a community initiative, led by the community to deal with the issue of lead. Furthermore, the accomplishments are absolutely remarkable and successful: a model for what a community can accomplish collaboratively with Teck, IH, MoE, and the City and support staff. That said, we’re going through some change; the capacity has evolved and there is a level of trust and engagement as a result of the solid program. The committee works well as is, but we need to keep the future in mind and there will be a time where we need solid community engagement and support – so we must do a better job to make the committee members feel comfortable. Mike suggested that the committee now needs to ask: What are we doing and how are we doing it? Is it sustainable? We must ensure strong community support and direction.

After a round of introductions, Ruth referred to the documents on governance and asked for feedback on several evaluative questions. A thorough discussion took place about all issues. There was good participation from all THEC members. Some points raised were:

- Wondering if people new to the community are aware of the program
- Proposing pro-active ways to engage the community and invite participation
- Recognizing the skills, commitment, collaboration and resources that the THEC has
- Acknowledging existing successful ways THEC members are engaged on key issues (Working Groups) and the need for new efforts and strategies, especially for new members

- Communicating with and engaging parents is key to the program's success
- Utilizing communications technology such as social media is needed for us to stay current
- Refining the THEC meeting preparation and reporting process by the Program Team
- The importance of being relevant to the whole community
- Having a recruitment strategy for new THEC members

It was agreed to form a working group to work on Sustainable Governance. Ruth, Brandi, Tiffany, Marylynn, Mark (as support), Cindy Hall (name put forward by Ruth after the meeting) and Diane Langman (suggested by Marylynn) were named as potential members of the working group.

ACTION: Ruth to convene a Sustainable Governance Working Group to follow up on the discussion.

ACTION: Liz/Ruth to summarize the discussion and provide to the THEC.

PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS:

Program Updates and Business Arising:

Family Health: *report attached.*

Jeannine presented the Family Health Report. Highlights included the upcoming lead clinics (first starts next Monday), recent healthy family visits, and upcoming outreach. Jeannine added an amendment: December 9th is a tentative date for attending lower Columbia Perinatal Committee regarding expectant parent outreach.

Air Quality: *report attached*

Mark presented the report and graphs. Ambient lead: the most recent number shows the level is back up again. Mark noted this figure is for July and August, but not September. It would appear that the wildfire smoke didn't impact the ambient lead, but it may have affected (positively) the impact on families as they spent more time inside. The reading is not as good as last year; Bill Jankola is investigating if there are any improvements to be made. Mark added that Teck has bi-daily results from the Xact monitor readings; there was awareness of the lead in air. The numbers are monitored every day, and Bill meets with a group that works on high results. There are some investigations that resulted from some of the readings. Chris D'Odorico commented that he is not especially concerned that this might be a trend; he suspects there are some sources that can be mitigated.

Mark continued with the graph for arsenic and noted there is room for improvement compared to the progress that had been made.

Air Quality Technical Working Group (AQTWG): *minutes attached.*

Mark highlighted a key topic for discussion at the most recent meeting: the air quality objective expires in 2018. This raises the question: when will we set a new goal and do consultation on that? It's too early to undertake now as we need to see how we do with the current target. Mark recommends that we set the new goal in 2020 for 2025 and align goal timing to coincide with the blood lead level objectives. Mike added that even though the goal expires in 2018, we need to set some specific actions to target during the two years that we will have no set target. Discussion continued regarding who sets the objectives: it is the THEC, using information from many sources. No immediate action was discussed other than providing this recommendation to the Consultation Working Group regarding the 2016 consultation. This topic will be discussed further at a future date.

Home & Garden: *report attached.*

Andrea highlighted the FAN comfort station project, home visits (especially with expectant parents), and the ongoing Lead Safe Home Renovation Project (LSHR).

Ruth provided a brief update on LSHR progress: working in a lead-safe manner is different from regular home renovation; how do we get the word out? It was decided that the best format would be via videos and to that end, we have contracted Amy Bohigan of Watershed Productions in Nelson to create the video series.

Amy joined the discussion via teleconference and described her vision for the videos. People will be accessing the videos through a website via smartphone or computer. The first video is an introduction to lead safe home renos. The videos will feature local home renovators talking; having community members featured in the videos will connect with our audience (other members of the community). The videos will highlight the THEP as the experts and that we're available to help. There will also be one specific video for contractors; we hope to use a local contractor to speak 'their language'. There are several potential participants to be interviewed by Amy, but there is still room for people to put their names forward. We are especially looking for a contractor to champion the project.

Ruth raised a question for discussion: What is the best name for this project? Discussion turned to metals and issues other than lead and "Safe Renovation" was suggested as a title. Ruth pointed out that the content scope for these videos is lead focused. The introduction could refer to other substances and inform viewers that you would be protecting yourself for other issues such as mould. However, asbestos is a controlled substance that we cannot tell people how to remediate. Still, the fact remains that when you're protecting yourself from lead, you are protecting yourself from a lot of other substances and we will encourage people to research best practices. Even lead paint is an issue on its own, and we are talking about that in the video. Mark pointed out that whether it's in the name or not, the driver is lead. Dawn added that people living in a community where lead is an issue will be looking for it on YouTube.

As the videos are produced, they will require review and editing. Ruth put forward to the committee that there is room for people to participate in the video review group. Catherine Adair, Andrea Jolly, Nick Morris (of WorkSafe BC), Ron Joseph, Mark, Ruth, Andrea, and Bruce are already participating. Brandi and Tiffany added their names to the group.

Program Planning & Operations: report attached.

Ruth presented the report and highlighted Gord's previous point that there is more to the history of the program than what is stated in the program document. Ruth will continue to follow up on it and do more digging – she is learning a lot.

Issue for discussion: radio ads

Ruth spoke with Andrea Jolly (who is the Communications Coordinator for the City of Trail) regarding the use of radio ads. Andrea Jolly shared that EZRock has a new award winning writer, which raises the point that perhaps this is an opportunity to refocus the ads to today's radio audience.

Recommendation: Ruth to come up with a proposal regarding key messages and work with the writer. Dawn asked if we know how much the ads are reaching people in the community.

ACTION: Ruth to report back to the THEC with an assessment of how radio ads reach the community and whether there's value in us continuing with radio ads. Depending on the outcome, there may be further action to rewrite ads.

Richard commented that social media is the fastest way to get a message out, but it's a challenge for corporations. EZRock utilizes social media, Ruth will explore that avenue (especially Twitter). She added that we do get 10000 impressions on the EZRock website. Discussion moved to the areas EZRock covers, which is most of the RDKB, Nelson, and Creston. It's possible that other communities hearing our ads might get some misconceptions about our community, but we have a commitment to speak the truth of what our program is targeted to doing. We also need to keep in mind who the target audience is when on the radio.

EXECUTIVE COMMITTEE REPORT

Ruth presented a verbal report from the Executive Committee. With regard to the upcoming Public Consultation, the THEC needs to put together a request for EOIs (Expressions of Interest) and Statement of Qualifications. Ruth recommends that we hire the consultant first and then work on the scope of the public consultation with them. No objections.

The next step is to convene a Consultation Working Group. This group would hire the consultant and meet with them to go over the scope of the consultation. It is typically chaired by THEC Chair or

designate (Liz to copy Lisa on all to keep her in the loop) and includes executive members. Working Group members will include Mark, Brad, Ruth, Gord, the MHO (Dr. Kamran Golmohammadi), as well as some members from the Program Team and members of the community. It is possible that Craig may join, and IH may need an ex officio member (as per Dawn).

Ruth shared a draft TOR for the working group. She added that an ad for consultant would go out in the New Year; the consultant would be hired by end of January 2016. It is expected that there will be a maximum of 9 meetings (could be as few as 6 or 7).

ACTION: Ruth will present a draft outline for a Winter Workshop at the November meeting.

Community Check-In:

Deferred as the discussion on sustainable governance served as a check in.

Presentations:

Evaluation of Program Boundaries

Mark presented a PowerPoint regarding the Program boundaries. The summary is that there is no strong reason to change or extend the current boundaries. The THEC will continue testing children from outlying areas (Warfield, Annable, Oasis) every 5 years. Ruth noted that Ali Grieve, Diane Langman, and Linda Worley received this presentation earlier this year and had no objections to the conclusion. Marylynn requested a copy of the presentation to share with John Crozier.

Fugitive Dust Reduction Program

Bill Jankola presented the update. He highlighted that construction on the smelter recycle building is under way and pointed out the road sweeping/wetting efforts. Bill clarified that most of the waste water from road cleaning goes to the effluent treatment plant and that Teck is no longer seeing metals being flushed into sewer during rain storms. Bill also explained that an 'event' at KIVCET is when the smelter burps; Teck now has a way to capture the dust from that burp.

H&G Summer Update

Andrea presented the update and highlighted the delay due to repairs on the XRF (X-ray Fluorescence device that estimates metal contents).

NEXT MEETING: Tuesday, November 24, 2015

FAMILY HEALTH REPORT



September 8, 2015

RECENT HIGHLIGHTS

1. Lead Clinics
 2. Healthy Family Visits
 3. Community Outreach
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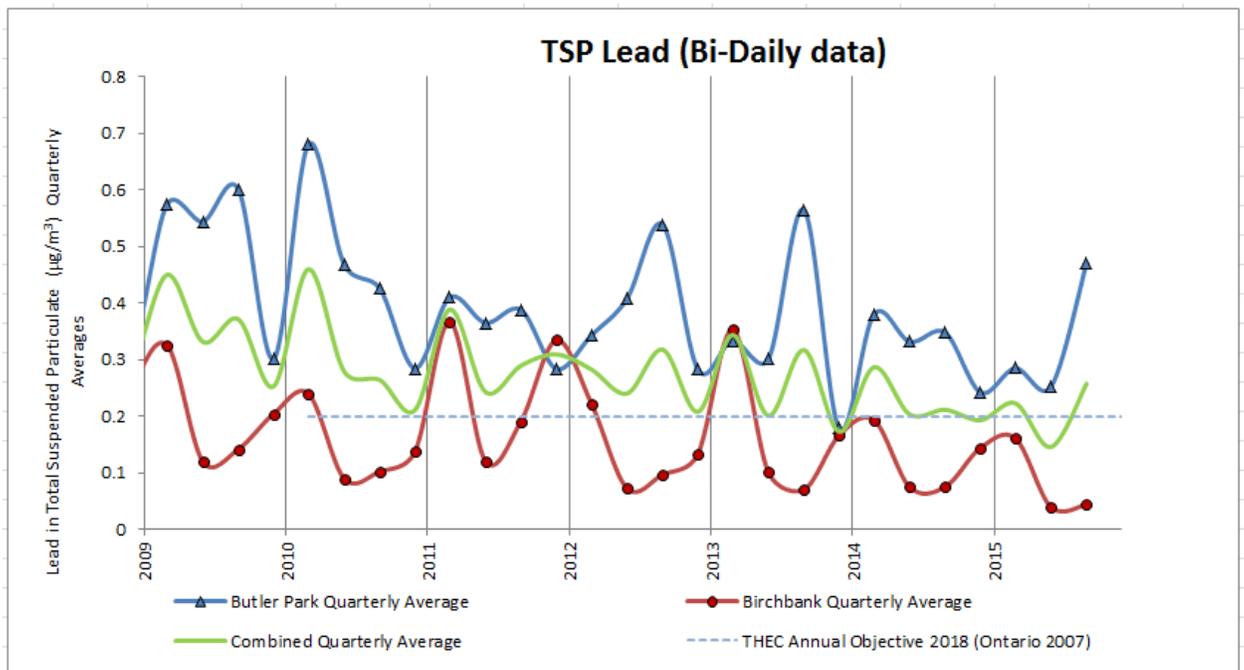
ADDITIONAL DETAILS

1. Lead Clinics
 - Invite letters for 233 children sent out 3 weeks ago.
 - I have lead clinic poster for any committee members to have.
2. Healthy Family visit
 - 65 done in 2015
 - 9 done between Aug. 10th and Sept. 2nd. Two more booked
3. Community Outreach
 - Attended Trail Library Mother Goose Program on August 11th.
 - Attending local pregnancy outreach program on September 15th and once a month.
 - Supporting FAN with arranging space to use at Kiro Wellness Centre for the Ages and Stages Day September 30th.
 - Scheduled to attend the Lower Columbia Perinatal Committee meeting on Dec. 9th with Cindy from Home and Garden Program.

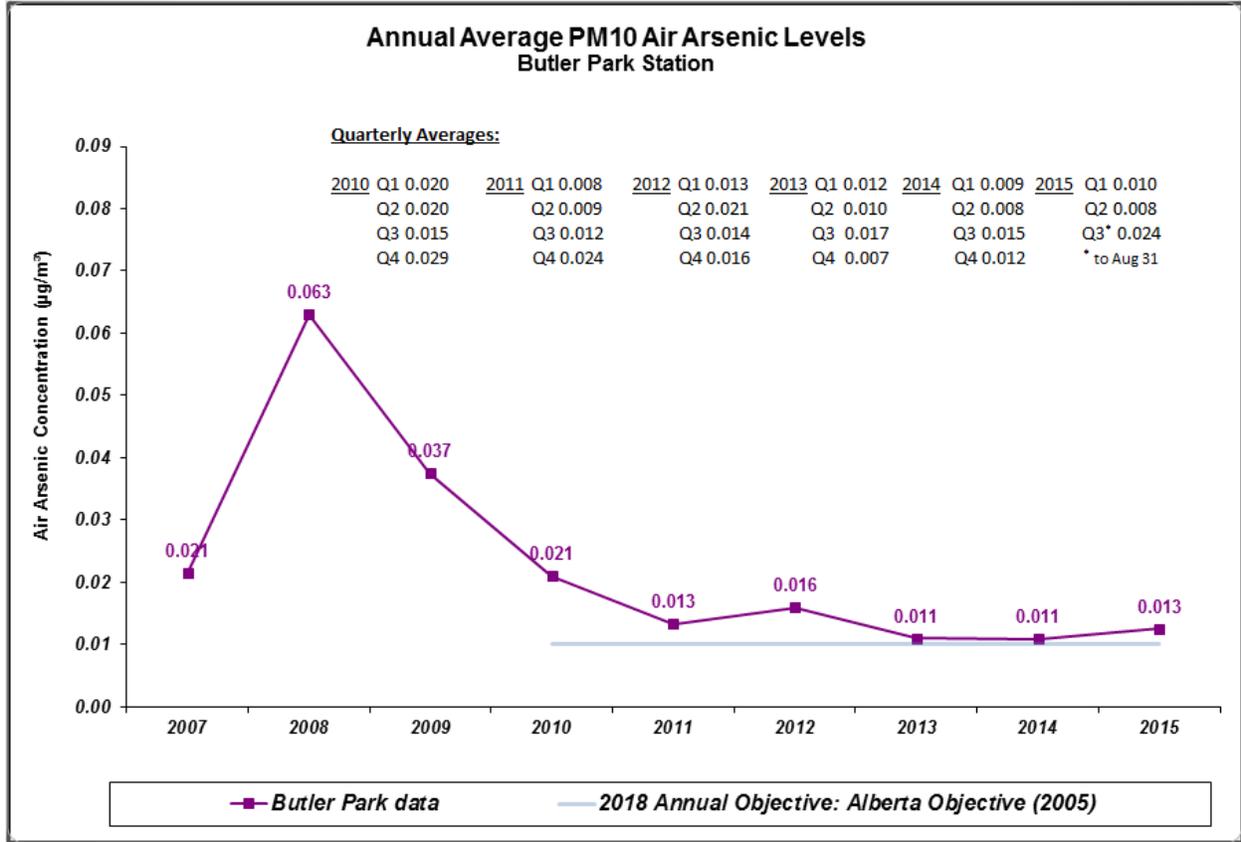
September 8, 2015

RECENT HIGHLIGHTS

1. **Lead in Air:** The chart shows quarterly averages for Lead in air (measured in Total Suspended Particulate) for Butler Park (blue), Birchbank (red), and the average between the two (green), in comparison to the 2018 THEC Air Quality Objective (dashed line). Quarterly averages for Lead in ambient air are expected to have some variability due to season, weather, predominant wind and operational variance. The most recent result (e.g. 0.5 $\mu\text{g}/\text{m}^3$ at Butler Park) does not include the full 2015 third quarter, and reflects the hot dry weather in July and August.



2. **Arsenic in Air:** The chart shows the annual average for Arsenic in air (measured as inhalable PM_{10} fraction) for Butler Park (purple) in comparison to the 2018 THEC Air Quality Objective (blue line). Improvements between 2008 and 2011 appear to be the result of maintenance of the Continuous Drossing Furnace and Refinery Scrubber Stack. The 2015 average to date is 0.013 $\mu\text{g}/\text{m}^3$ and reflective of the hot dry weather in July and August 2015.



3. The Air Quality Technical Working Group met on September 2nd. Minutes of the meeting are attached.

ISSUES FOR DISCUSSION

Description of Issue:

The current THEC Air Quality Objectives are for 2018. The THEC intends to go to public consultation in 2016 for a new Blood Lead objective for 2020. When should a new Air Quality Objective be set? This was discussed at the Sept 2 AQTWG meeting.

Options:

- Set new objective in 2018, for 2023; would this require consultation in 2018?
- Harmonize with Blood lead objective –make the objective for 2020 or 2025, same as blood lead. However we can't make a new objective for 2020 today, since we still need to see how effective the fugitive dust reduction program has been by 2018.

Recommendation or Preferred Option:

- In 2020, set a new air quality objective for 2025. Commitment to continued air quality improvement activities between 2018 and 2020, based on 2018 results. To be discussed by THEC; the Consultation Working group would need to consider how this fits into consultation messaging.

Trail Health & Environment Committee Air Quality Technical Working Group

MINUTES

Meeting: Wednesday, Sept 2 2015



In Attendance:

Ron Joseph, Community Rep, Chair
Mark Tinholt, Teck, Secretary
Brad McCandlish, BC MoE
Mike Martin, City of Trail
Gord DeRosa, Community Rep
Chris D'Odorico, Teck
Bill Jankola, Teck
Suzanne Belanger, Teck

Bruce Enns, THEP Program Office
Andrea McCormick, THEP Program Office

Regrets:

MEETING MINUTES:

1. Topics included:
 - Summary of Excursions/Feedbacks over period since last June meeting.
 - Reviewed Teck's analysis report on East Trail deck/ walkway dust sample. Basic findings were:
 - The majority of the sample was comprised of silicates. While not specifically examined in this study, we believe this is consistent with typical dust expected in any community given the abundance of silicates in typical soil.
 - Metals were also present in the sample, mostly as zinc and lead sulphides (rather than oxides). This suggests that the largest contributor to ambient metals is from concentrates (not stacks). The source of these concentrates could be from the operation (fugitive dusts) or from transportation (trucking).
 - The presence of sulphur as mostly in sulphide form refutes the speculation that aerial deposition of sulphur is a significant contributor to dust amounts in Trail.
 - The lead concentrations in the samples were 11,000 and 6,400 ppm respectively, much higher than soil concentrations at that yard. This is informative to potential exposure reduction strategies.
 - Potential strategies related to possible Program improvements for achieving proposed 2020 Blood lead goals- a discussion was held on the following topics. Mark to compile/encapsulate discussion points for the Blood Lead Objective Working group.
 - Dust study – this at the concept stage
 - Street and sidewalk sweeping?
 - Paving Alleys?
 - Truck and traffic routing?
 - Playground Sprinklers?
 - Housecleaning?
 - When to set next Air Quality Goals? The current THEC Air Quality Objectives are for 2018. We plan to go to public consultation in 2016 for a new Blood Lead objective for 2020. When should a new Air Quality Objectives be set? Options discussed included:
 - Set new objective in 2018, for 2023; would this require consultation in 2018?
 - Harmonize with Blood lead objective -make the objective for 2020, same as blood lead. However we can't make a new objective for 2020 today, since we

still need to see how effective the fugitive dust reduction program has been by 2018.

Recommendation was to carry forward the current 2018 air objective to 2020, along with a commitment to continued air quality improvement activities between 2018 and 2020, based on 2018 results. In 2020, set a new air quality objective for 2025.

- Canadian Air Quality Standards (CAAQS) for SO₂ : Representatives from MOE Victoria would like to attend next AQTWG meeting to present on new CAAQs for SO₂, and witness/hear feedback from the AQTWG on this topic.
- Inventory of Air Emissions and Priorities: discussions lead to adding concern for physical acidity effects to cars, roofing, fences etc. (due acid rain or elemental sulphur?) to the table. Action is for each individual to rank the rows in terms as to what they personally see as the order of priorities. Send to Mark for compilation, then the group will review the rankings together at next meeting.

2. Next meeting scheduled for Tuesday Oct 27.



September 8, 2015

RECENT HIGHLIGHTS

1. We are exploring the costs of adding a FAN Comfort Station and washroom to the Community Program Office. This is part of FAN’s Easy Peazy washroom program and is intended to provide safe, comfortable space for parents with young children to use the bathroom, change infant diapers, and breastfeed. We are contacting a local contractor to come up with some costs based on draft designs we’ve reviewed. Please let us know if you have ideas you’d like to see in this family friendly space!

2. Healthy Homes program has delivered 59 home visits this year to date; 9 visits were with expectant parents. Through our outreach efforts and communication with IH, 16 expectant families have been identified who have chosen to participate in our program. Scheduling HH visits with expectant families has proven difficult because most women are in their final trimester and are very busy as well as needing rest! In these cases, we are coordinating with IH, so that Jeannine can provide a Healthy Families visit first after the baby is born.

3. Lead Safe Home Renovation Education Project – getting ready to shoot videos (see below)

ISSUES FOR DISCUSSION

Description: **Lead Safe Renovation Education Project**

The LSR video project is getting to the stage where, starting today, video scripts are being written so that filming can potentially start by the end of September. The filmmaker, Amy Bohigan, is available by phone to describe the project and answer questions. We are planning 9 short videos on these topics:

1. The Risks from Lead and Where to Find them in a Building	4. Removing carpets and flooring	7. Roofing
2. Setting up an Indoor Containment	5. Removing siding, decking, fencing, windows and stripping paint	8. Clean-up and Disposal
3. Removing indoor walls, trim and stripping paint	6. Soil Excavation	9. Additional Tips for Contractors

We have two questions for the THEC:

- 1) What is the best name for this education project?
- 2) Who would be willing to be on the Reviewers Group?

Reviewers have the opportunity to review the material at three stages in the process:

- Draft storyboards (September 17-20)
- Rough cuts (November 9 – December 4; Review one at a time, as completed)
- Fine cuts (December 16 – January 15, 2016)

We have other reviewers lined up and we would like several members of the THEC to participate, if possible.

HOME & GARDEN REPORT

Options:

1) Name of the Education Program:

- a. Lead Safe Renovation or b. Lead Safe Home Renovation

Pros and Cons: While we primarily support home renovation because that is where families live, the lead safe practices apply to all kinds of renovations. People doing home renovations will likely automatically think “home renovations” and contractors doing other renovations (e.g. a commercial roofing project) would know that these practices apply to them.

Recommendation or Preferred Option:

1) Name of Education Program:

2) THEC Reviewers (ideally at least 3 in addition to the Program Team)



September 8, 2015

RECENT HIGHLIGHTS

1. *THEP’s Early History*: I’ve followed up Gord DeRosa’s suggestion that, for a complete and accurate history, we look more closely at steps that took place in the years just prior to 1989. Gord has provided information on the role of Mayor Marc Marcolin and some of the early volunteer moms who were instrumental in getting a large turnout for the 1989 children’s lead study. Dr. Ames shared his perspective from the time of the Lead Study, and pointed out the key role of Jim McLaren at the Ministry of Environment Nelson Office. I have a few contacts to follow-up with and then I’ll provide a complete summary.
2. *Sustainable Governance*: as presented and discussed
3. *Lead Safe Renovation*: as presented in Home & Garden report

ISSUE FOR DISCUSSION – Should we discontinue summer radio ads?

Description of Issue:

The THEP has run radio ads on local radio (currently EZ Rock) for many years. The general tone and messages haven’t changed much over the years. The ads run from mid May til mid September, broadcasting our key summer messages to the community throughout the summer months.¹ Our current contract with EZ Rock includes 10,000 impressions/views on their website as part of the package.

Every year or two, we receive a complaint about someone from out of town hearing one of the ads and having a very negative reaction. In at least one case, this has led to the person deciding not to move or invest here. In response to concerns raised two years ago, we eliminated the ad related to the children’s lead testing clinics (as we have better ways of reaching families for testing) and revised the scripts to more positive messages. The key messages begin with: “The first years of life are important to a child’s lifelong health. Let’s give our children the best start in life by... washing hands etc.” Four of six ads refer to lead-bearing dust or lead dust.

We have once again learned of a concern. We wonder if we should continue with the ads, now that we have direct contact with families through the Healthy Families Healthy Homes Program and send our Newsletters to our families by personalized mail.

FYI, the ads run as follows:

Dates	Radio Ad
May 18 – June 5	Keep Dust Down while Renovating
June 8 – June 26	Wash Hands after Playing in the Park and before Eating (* web ad runs til July 19)
June 29 – July 17	Hose Off Outdoor Decks and Play Areas/Toys
July 20 – August 7	Shoes off at the Door; Damp Clean and Vacuum the House
Aug 10 – Aug 28	Put the Lid on the Sandbox; Cover Bare Soil in Yards
Aug 31 – Sep 20	Well Balanced Diet w. Vit C, Iron, Calcium; Don’t Eat on the Floor

¹ The radio ads air on Mondays, Wednesdays, and Fridays; 2 ads in the morning between 6 am and 10 am and 1 in the afternoon “drive time”, 3 pm to 7 pm.

Options:

Option	Pros - Considerations	Cons - Considerations
Discontinue the radio ads	<p>Save about \$3000 that could potentially be allocated to other communications to the community.</p> <p>Avoid offending people (especially from out of town).</p>	<p>Radio has a very broad audience, and might reach a different audience than our other communications. We think summer is an important time to reinforce our messages but we don't want to be over-do our reminders by sending families a summer mail-out. Every year there are new families with young children. Also, we focus on families but that doesn't mean we want to ignore the community (including grandparents, cousins, and neighbours, etc.) Radio might help position us THEP as a health & environment resource e.g. lead-safe renovating in any community</p>
<p>Seize the Opportunity to Revamp our Radio Presence: Take time to consider the value of the ads and refine them with expert help</p>	<p>We have til next April to decide as the ads are almost over for this year. We'll have a more complete picture of our communications strategies by then. Andrea Jolly, Communications Manager for the City of Trail has offered to help us with this. We already see ways to avoid mention of lead and still get our messages out. This would give us an opportunity to revise the ads. Andrea advises that EZ Rock has a new, award winning writer with whom we could work to get our key messages out in an appropriate way to today's audience. It's an art to keep abreast of trends in style, music etc. We could possibly try and evaluate the ads at the time of the consultation.</p>	<p>If we think the radio ads are a waste of money, then it's not worth our time to rethink their value.</p>

Recommendation:

Take more time and work with Andrea Jolly to explore the potential benefits of radio in our THEP Communications Strategy and work with EZ Rock's writer to create the most impactful radio ads for our target audience and communications objectives.

**THEC Consultation Working Group
Terms of Reference – rough draft**

Proposed Membership

Chaired by THEC Chair or Designate (THEC Alternate or Program Manager)

Executive Members – at least ex officio

THEC – Ideally at least 3 community members

MHO – ex officio or as needed in order to “facilitate” the consultation

Program Manager

Program Team – a couple of others

Functions and Role

Functions	Role	
	Recommend to or Update THEC	Authority to Decide/Act
Develop Request for Expressions of Interest and Statement of Qualifications from consultants (REOI/SOQ)	Recommend Draft REOI/SOQ	Finalize
Develop timelines for contracting process	Advise THEC of Proposed Process	Finalize and implement
Review EOI/SOQs and Select Consultant		Select consultant
Develop Consultant Scope of Work for Consultation Plan Proposal	Offer THEC input opportunity, make recommendations as needed	Meet with consultant and approve direction for proposal.
Approve Consultation Plan Proposal with budget and timelines	<i>Recommend budget to Teck Teck approves budget</i>	Approve proposal.
Approve THEC/THEP Communications Strategy to support the Public Consultation	Offer THEC input opportunity, make recommendations as needed	Approve final communications strategy
Provide Ongoing Direction/Input to Consultant re. Consultation Plan Implementation	Provide Updates, Request Input, & Recommend, as needed	Proceed with approved proposal, subject to providing THEC updates and notice of emerging issues
Problem Solve Challenges	<i>Exec/THEC issues management, as needed</i>	
Provide Ongoing Direction/Input to THEP Manager re Our Communications strategy for the consultation	Provide Updates, Request Input, & Recommend, as needed	Proceed with approved strategy subject to providing THEC with updates and opportunities for input
Problem solve challenges	<i>Exec/THEC issues management, as needed</i>	
Approve Consultant Work Milestones for Payment		<i>Could be tasked to a small group with referral to CWG if there are issues</i>
Provide Input and Direction into Final Report and Final Evaluation, as needed		As per Proposal

Timing of Working Group Activity

November, 2015 to March, 2017 (or earlier) – 8-9 meetings potentially

Potential Timing of Meetings

1. November 2015 – Finalize WG Terms of Reference, input into REOI/SOQ, confirm hiring process, initial thoughts about consultation
2. Jan, 2015 (or week of Feb. 2) – Review REOI/SOQ and recommend or select consultant (for THEC meeting February 9 – get THEC input into work scope)

Draft Updated September 2 2015

3. Feb 2016 – Meet with consultant to define the scope of work for the consultation.
4. March 2016 – review and approve consultant proposal
5. April or
6. May or: 2-3 meetings in late spring to review draft materials, consultation
7. June details and address emerging issues
8. August 2016 – Meeting before the consultation goes Live.
(Participate in activities, as appropriate, during the consultation.)
9. November 2016 – Review survey results and tasks needed to complete all consultation work and reporting.

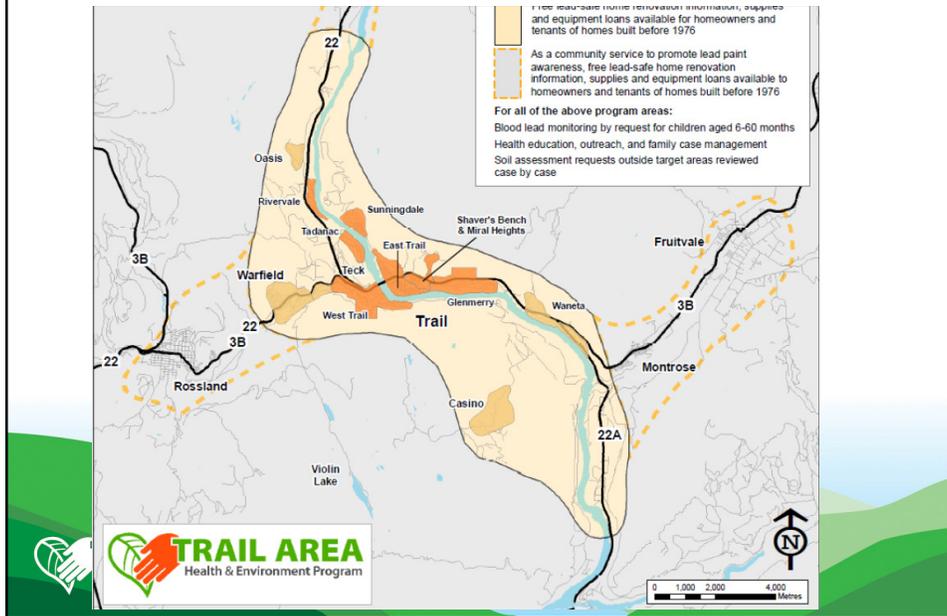


Background & Purpose

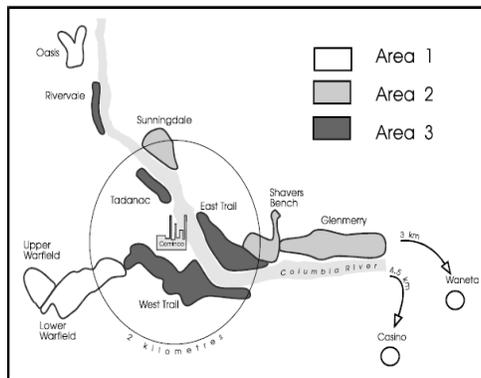
- The THEC asked the THEP Program Team to evaluate whether it is appropriate to continue to include Annable with Warfield as part of Area 1. (Area 1-Warfield, Oasis, Casino and Waneta- is not currently part of the THEP Community Program Area where services are targeted.)
- The Program Team reviewed all neighborhoods in Areas 1, 2, and 3. We asked the same question about Oasis as it has similar results to Annable.
- Dr. Rob Parker, MHO, reviewed the results and provided guidance in regards to the questions of interest.



Community Program Areas



Community Program Areas



Area 1:

Warfield, Oasis, Waneta,
 Casino

Area 2:

Sunningdale, Shavers
 Bench, Glenmerry

Area 3:

Tadanac, East Trail,
 West Trail, Rivervale



Lines of Evidence Examined

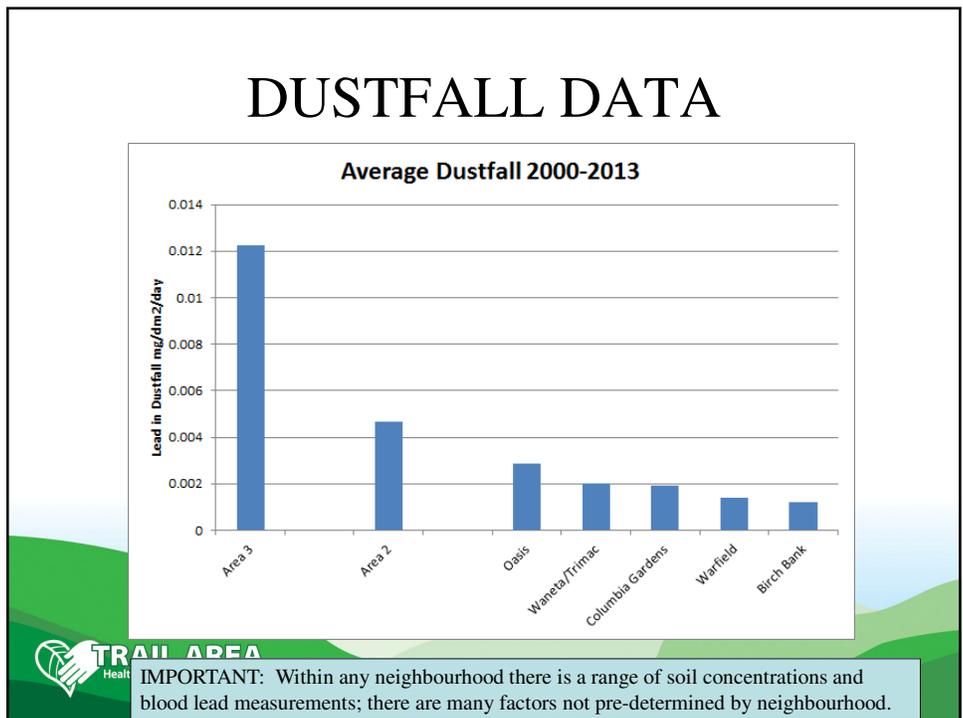
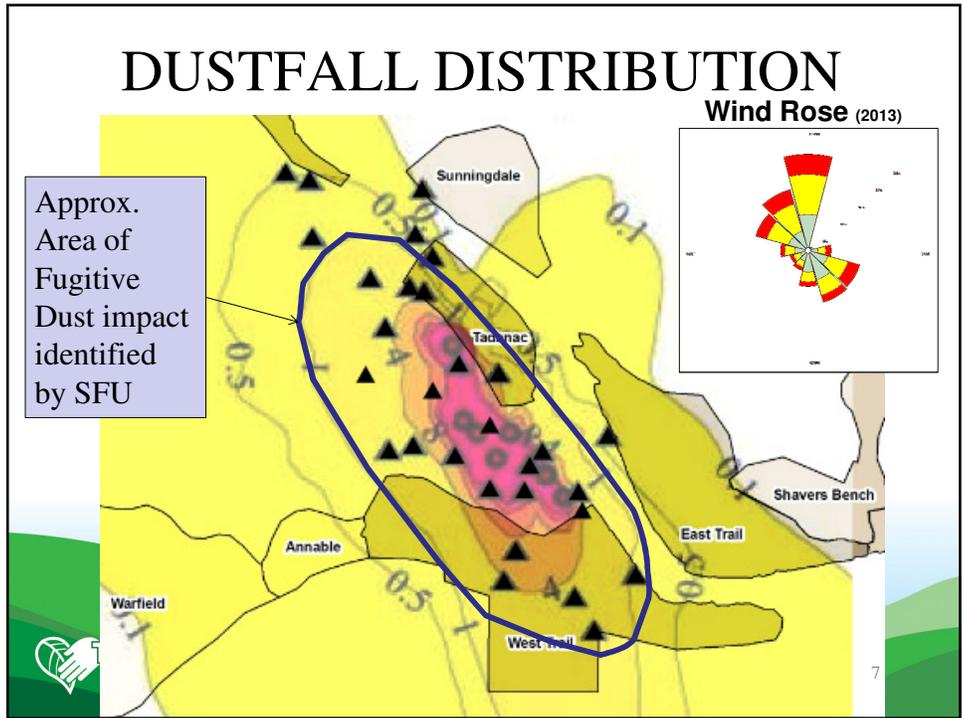
- i. Dustfall data and distribution patterns
- ii. Soil data
- iii. Children's Blood Lead data (pooled)



i. Dustfall and Distribution

- Most dust falls within 1.5 kms of the smelter.
- The distribution of dustfall depends on the prevailing winds, which tend to blow up and down the valley.
- There is a gradient of dustfall levels for different neighbourhoods.
- The Program Area currently includes those neighbourhoods with higher dustfalls (Oasis comes next).



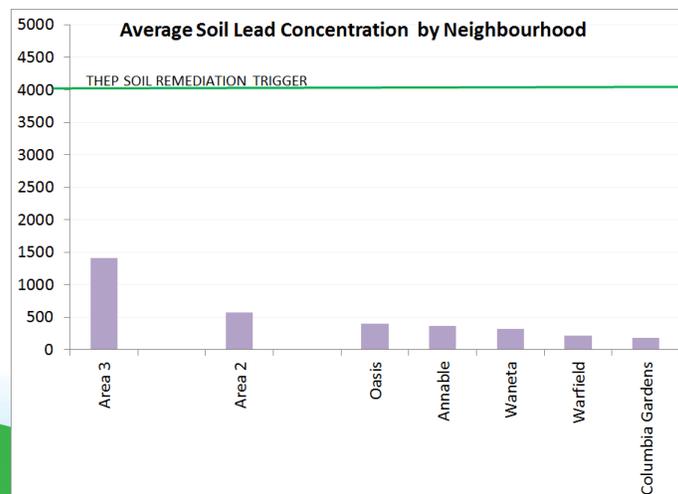


ii. Soil

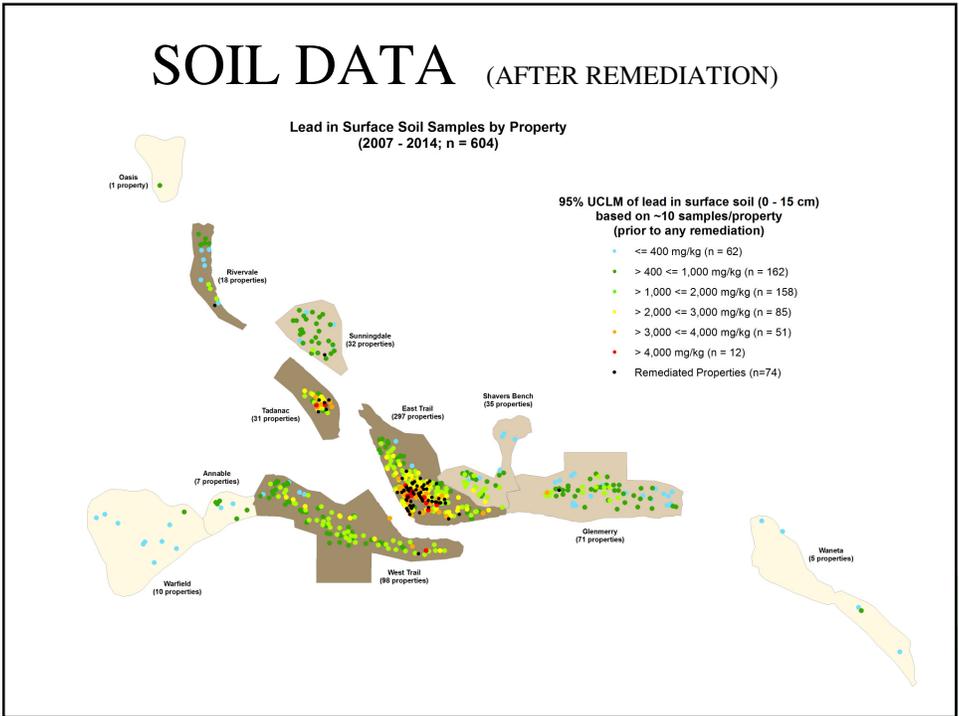
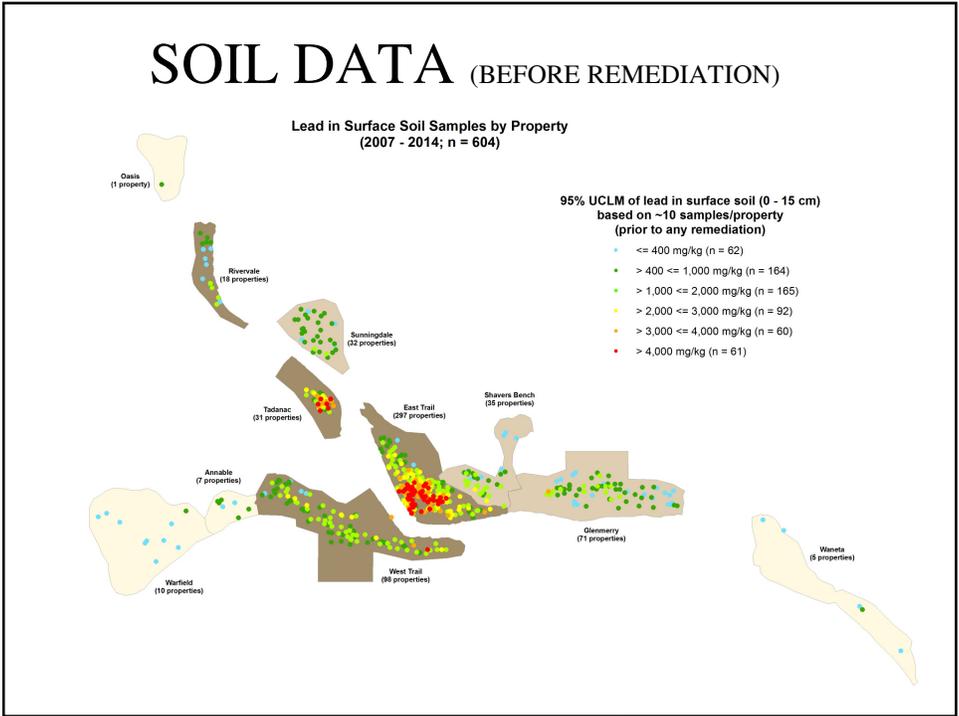
- There is a gradient of lead levels in soil for different neighbourhoods.
- The Program Area currently includes those neighbourhoods with higher soil lead levels (Oasis comes next, followed by Annable).
- Almost all individual soil samples from outside the Program Area are below 1000 ppm lead.



SOIL DATA



IMPORTANT: Within any neighbourhood there is a range of soil concentrations and blood lead measurements; there are many factors not pre-determined by neighbourhood.



iii. Children's Blood Lead Levels

based on pooled data

- Children's blood lead data were pooled from 2000 through 2013 to increase the sample size for each neighbourhood to increase the statistical power of the data at the neighbourhood level



iii. Children's Blood Lead Levels

- QUESTION 1: Is there an increased risk for elevated blood lead levels in children from Annable compared to the rest of Warfield?
- ANSWER 1: No clear statistically significant or clinically significant difference.
- QUESTION 2: Is there an increased risk for elevated blood lead levels in children from Oasis compared to the rest of Area 1 (i.e. Warfield, Casino, Waneta)?
- ANSWER 2: No clear statistically significant difference.



iii. Children's Blood Lead Levels

- The pooled data shows an improving trend in all neighbourhoods, though sample size is very small.
- 2013 BLL testing of Area 1 (includes Annable and Oasis) did not find children with venous blood lead levels greater than 5 $\mu\text{g}/\text{dL}$.



Summary

- The three lines of evidence - dustfall, soil and children's blood lead levels - consistently indicate that Area 1 (including Annable and Oasis) has lower risks than Trail and Rivervale.
- 2013 BLL testing of Area 1 (including Annable and Oasis) did not find children with venous blood lead levels greater than 5 $\mu\text{g}/\text{dL}$. Dr. Larder, MHO, Interior Health recommended repeat testing of children's blood lead levels every 5 years in on the results of targeted testing in those communities in 2013.
- With existing programming, children's BLLs are decreasing in all neighbourhoods down to similar low geomeans.



Summary

- The Fugitive Dust Reduction Program should reduce metal levels and children's blood lead levels in all neighbourhoods.
- Parents in the outlying areas, including Annable and Oasis, may request blood lead testing for their children if they desire.
- There is no strong reason to change/extend the boundaries of the Program Area beyond Trail and Rivervale.





THEC Update: Fugitive Emissions

September 8, 2015

Bill Jankola, Superintendent Operations Environmental Projects



Material Storage



Smelter Recycle Building

- Construction underway
 - Ground work completed
 - Pre-formed cement foundations will start arriving by month-end.
- Project completion targeting mid-2016.

Roaster Unloading/Storage

- HATCH working on 3 potential solutions – meeting later this week to review.
- Goal to have a proposal gated at pre-feasibility by year-end.



Fugitive Dust Project:

Project Status – Transportation

Teck

Dust suppression on roadways

- Sweeping & Flushing
 - On track to exceed both target and 2014 results.
 - During the May – August period:
 - Exceeded target by 43%
 - Exceeded 2014 by 62%
- Sprinklers
 - Additional sprinklers added to roadways compared to 2014



3

Fugitive Dust Project:

Project Status – KIVCET Building Improvements

Teck

Smelter

- KIVCET burner port ventilation
 - Unit was operational in June as planned
 - Qualitatively, the system is working well
 - Significant dust is captured during events and more quickly when a large event occurs
 - Evaluation is underway and will be completed this fall

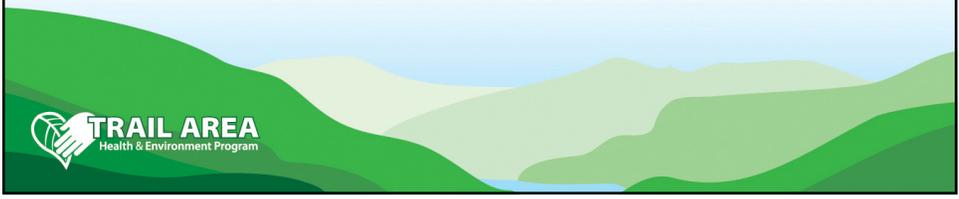


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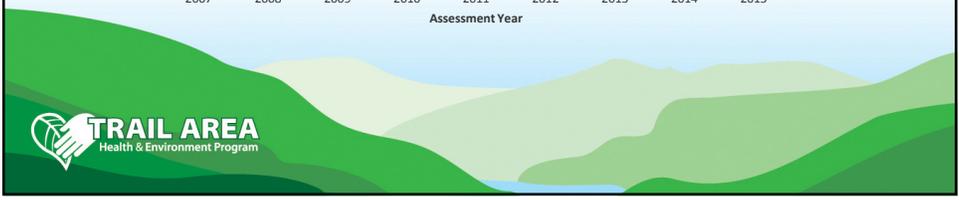
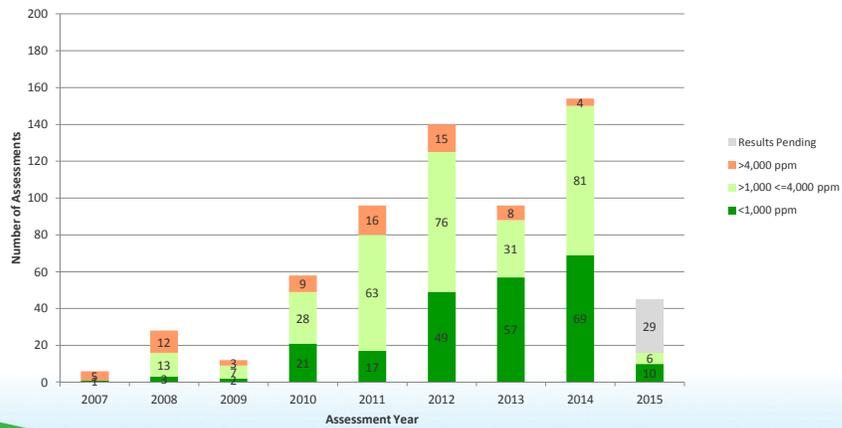


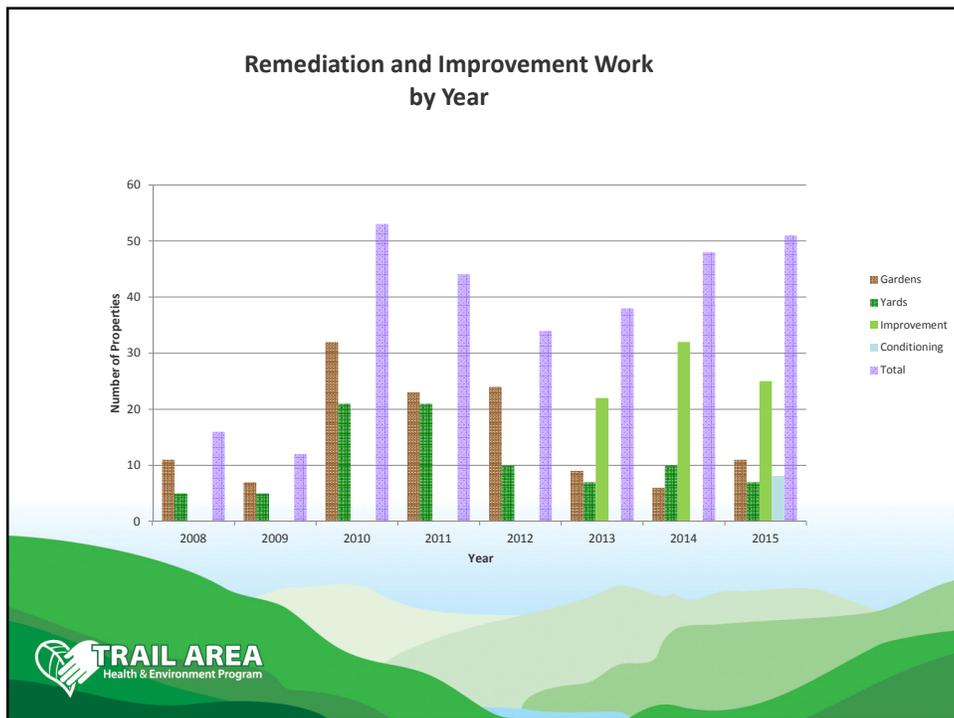
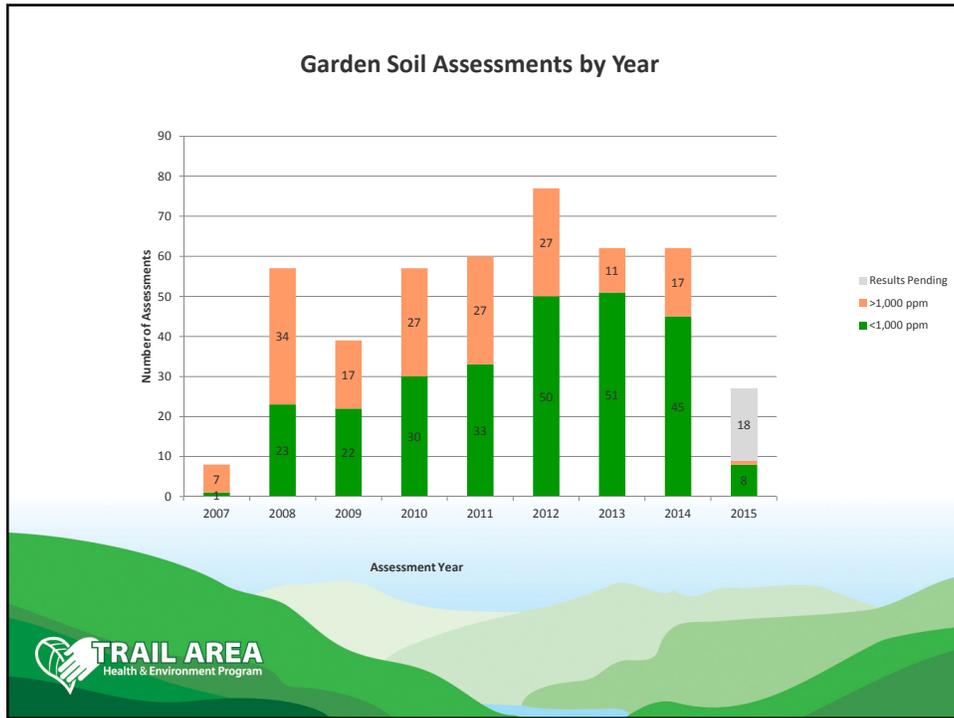
Home & Garden Program

2015 Summer Update for the THEC
September 8, 2015



Residential Yard Soil Assessment by Year





Soil Assessment Year for Properties Receiving Remediation or Yard Improvement in 2015

2015 Work		Soil Assessment Year			
Type	Total	2015	2014	2013	Earlier
Yard Improvements	33	8	12	3	10
Yards	7	1	6	-	-
Gardens	11	-	9	2	-



Properties on the List for 2016 Remediation or Yard Improvement

2016 Work		Soil Assessment Year			
Type	Total	2015	2014	earlier	declines
Yard Improvements	22	15	6	1	
Yards	2		2		7
Gardens	2	1		1	



Home Renovation Support Requests by Month and Year

