



## Trail Area Health & Environment Committee

# Minutes

**Meeting: Tuesday, April 14, 2015 7:00 p.m.**  
**City of Trail Committee Room, Spokane St. Entrance**

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### Committee Members:

Mike Martin, Chair, City of Trail  
Mark Tinholt, Teck Trail Operations  
Brad McCandlish, BC Ministry of Environment  
Dawn Tomlin, Interior Health  
Jeannine Stefani, Interior Health  
Tiffany Armstrong, Community Rep.  
Sonia Tavares, Community Rep.

Ron Joseph, Community Rep.  
Diane Langman, Councilor, Village of Warfield  
Marylynn Rakuson, Community Rep.  
Craig Adams, Community Rep.  
Steve Como, USWA Local 480  
Brandi Thirsk, Community Rep.

### Invitees:

Dale Webb, Teck Trail Operations  
Cindy Hall, SNC-Lavalin Inc.  
Ruth Beck, Program Manager  
Richard Deane, Teck Trail Operations  
Bill Jankola, Teck Trail Operations

Steve Hilts, Teck Resources Ltd.  
Angelique Rosenthal, Teck Trail Operations  
Andrea McCormick, SNC-Lavalin Inc.  
Liz Anderson, SNC-Lavalin Inc.

### Moment of reflection for Graham Kenyon

### Nomination of New THEC Member

**MOTION:** Ron Joseph moved to have Tiffany Armstrong join the THEC as a Community Representative. Mark Tinholt seconded. Carried.

### MEETING MINUTES: Dated February 17, 2015

Approve minutes from February 17, 2015. No discussion, minutes adopted.

### PRESENTATIONS, REPORTS, DISCUSSIONS & RECOMMENDATIONS

#### **Program Updates & Business Arising:**

##### ***Family Health - Interior Health Report; report attached***

Jeannine provided an update on Family Health Program activities. Two items to add to the report: Jeannine has approval to attend the Motivational Interviewing workshops in May; and there's an additional item to add under Outreach: Ready Set Learn on May 26.

##### ***Air Quality - Air Quality Update (Teck Trail Operations); report attached***

Mark presented the update for Teck. Of note is the lower total suspended particulate lead (TSP) this quarter. Mark also reported that the Xact monitors are both back up and running. Mike commented that the lower TSP is an encouraging trend. Steve provided clarification that the Butler Park station is more representative of the populated areas. This year, the wind has been more to the north, yet we're still not seeing an increase in TSP in the first quarter as in previous years. Mike commented that it is remarkable to see the trend downward and he is looking forward to the Fugitive Dust Reduction Program presentation later in the meeting.

Mark continued the update with the annual average of arsenic in ambient air. Steve pointed out that we use the Alberta objective for arsenic as it is the most relevant one.

Mark noted that the Air Quality Technical Working Group (AQTWG) did not meet and, as such, there is no update. There will be an update at the next THEC meeting.

***Home & Garden - Community Program Office Report (SNC-Lavalin); report attached***  
Andrea presented highlights from recent activities. Of note, the Home & Garden team is now offering Yard Conditioning (aeration, topdressing, fertilizer applications etc.) to rejuvenate ground cover on Healthy Families Healthy Homes properties that are below the threshold for remediation and have poor ground cover (but good enough that it doesn't need replacement). Andrea also highlighted the progress being made in development of the Lead-Safe Home Renovation Program. Cindy spoke about the lead-safe training in Chicago and highlighted the resources and connections she gathered there. Cindy also mentioned she was able to share our program document as a resource with other attendees. Ruth pointed out some upcoming events that the H&G team will be attending, especially our H&G Day at Home Hardware and Columbia Valley Greenhouses on May 30<sup>th</sup>. Cindy added the Trail Outdoor Market as an event this year; we'll attend once a month and have a different theme each time to call attention to a particular aspect of our programs (e.g. garden soil sampling, Home Renovation Support, Healthy Families Healthy Homes, etc).

***Program Planning & Operations - Program Manager Report; report attached***  
Ruth presented the Program Manager's Report and highlighted the upcoming Motivational Interviewing workshop in May. Sonia added that there are 20 people signed up already. Ruth continued her presentation and provided a short presentation on the role and activities of the Program Manager. Mark added that there's a funding agreement between the City and Teck. Dawn and Mike commended Ruth on her excellent work. Ruth provided an update from FAN: the first mobile screening day (like Ages & Stages) in Rossland was a success; 21 children participated. Jeannine explained that mobile refers to the service providers leaving Trail to give the screening in a separate community. FAN has also announced that its Website will launch in September 2015.

***Executive Committee Report; verbal report***

Ruth delivered the report from the Executive meeting that occurred earlier in the day:

1. *Next THEC meeting dates proposed by the Executive*  
- July 7<sup>th</sup>; September 8<sup>th</sup>; November 24<sup>th</sup>

The THEC members agreed and these dates were accepted.

**ACTION:** Liz to send out Outlook Meeting reminders to the members and invited guests.

2. *Draft Abridgement and the letter entitled "Perspective on the Program from a Community Member of the Committee"*

Ruth explained that while Graham Kenyon wrote the original draft of the Abridgement document, we were unable to keep all of his writing as it didn't exactly correspond to the THEP document. Consequently, Ruth Beck and Ruth Hull have compiled a two-pager of Graham's writing that offers his perspective on the program and retains the heart of his writing. The letter would be placed at the beginning of the Abridgement as a sort of 'preamble'. Ruth would like to share the drafts with the THEC and specifically asks member's opinion on the ordering of the sections in the Abridgement. Ruth needs feedback soon as Mike would like to hand the completed Abridgement out to the LCDDT

in June (June 18<sup>th</sup>). Ruth added that currently the Abridgement is in draft form, but will include many photos once complete.

3. *Spring Newsletter*

Ruth provided an overview of the proposed contents of our upcoming Spring Newsletter:

- a. H&G Days Event May 30
- b. Relevant tips – spring cleaning, check your furnace filter, vacuum filters and bag replacements at the CPO (Community Program Office)
- c. Home Renovation Support Program (HRSP) tips, encourage connection with the CPO so we can further engage during renovations, can even to on-site to set up
- d. Fall Blood Lead Level clinic planning message to parents
- e. Specific messaging for expectant parents
- f. A tribute to Graham Kenyon
- g. Many photos of families and children

Ruth also mentioned that she'd like to post the newsletter to the City's Facebook page.

4. *Thank you letter to the US CDC for tuition funding at the Chicago training*

**MOTION:** Mark moved that the THEC write a letter thanking Jack Anderson for organizing the US CDC Healthy Homes and Lead Poisoning Prevention Training in Chicago that Cindy and Bruce attended. Craig seconded. Carried.

**ACTION:** Ruth to draft a thank-you letter for Mike to sign and the City to send out.

5. *Program Team report*

Ruth relayed two requests from the community: one from incrEDIBLE Trail and one from FAN. It was decided that the THEP will sponsor a garden box for incrEDIBLE Trail. The box will have the THEP logo on it. Mike commented that a nice aspect of the garden box project is that the produce grown in the box will be donated to Kate's Kitchen and the other two food banks in town. Andrea clarified that the edible route is happening again this year. Regarding FAN's request, the Community Program Office has been approved to install a change table in the front bathroom and offer it as a Comfort Station through FAN. The Program Team is going to continue discussing further changes to create a welcoming atmosphere to our client families.

### *Community Check-in*

Ron Joseph brought up recent street sweeping activities around Trail and commented that the street sweepers are failing to adequately wet the road before sweeping. He also noted the unpaved alleys in east Trail and mentioned they are dust generators. There is a dust suppression program, but it's only done once a year and isn't always effective. Ron would like the City to take a look at the alleys and see what they can do about it (he specified the alleys between Columbia Ave and Second Ave, as well as Victoria to Gyro and Victoria to near the Safeway parking lot). Mike can raise the question at Council. Mark commented that Teck funds the dust suppression spraying, while the City provides the physical work. Also, Teck is testing for safe antifreeze that they can spray during the colder months without creating an ice hazard. Ruth asked if it would be dog-safe. Mark said that this would be one of the questions and Brad added that the Ministry of Environment is also involved. The issue of street sweeping will be added to the AQTWG agenda and Mike will follow up with City staff. Ron invited Mike to attend the next AQTWG.

Steve mentioned that street sweeping was also discussed at the Program Team meeting and suggested that it would be a good idea to bring city workers on board and educate them to be proactive and stop sweeping if they notice they're generating excessive dust.

### **Presentations:**

***Fugitive Dust Reduction Program Update***

Bill Jankola presented and encouraged questions. Mike offered kudos to the efforts being made by Teck. Ruth thanked Bill on the excellent presentation.

**NEXT MEETING:** Tuesday, July 7, 2015

Meeting adjourned at 8:30pm

## Trail Area Health and Environment Committee

### Interior Health Family Health Report

April 14, 2015

1. Healthy Family Visits
2. Fall Blood Lead Clinic prep
3. Continuing Education
4. Community Education

#### Details:

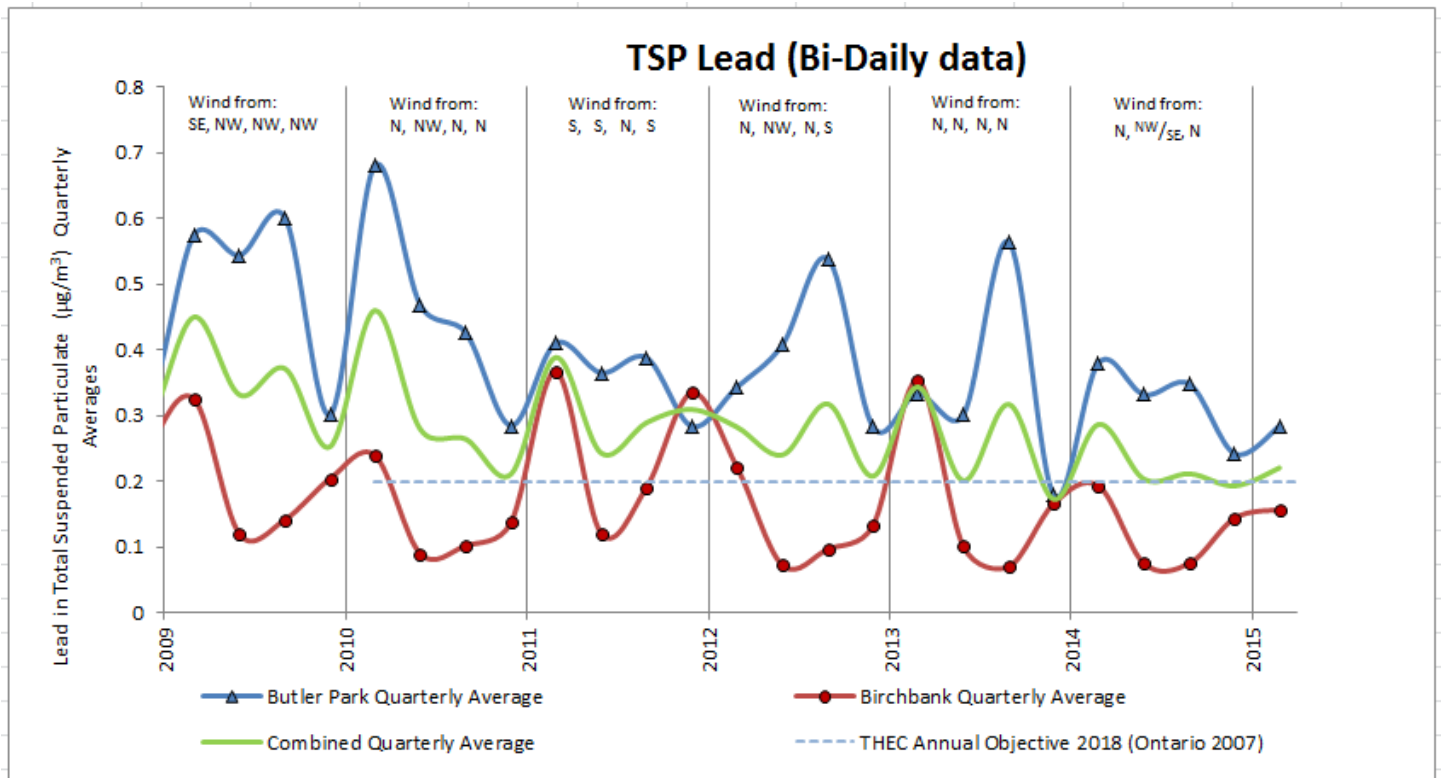
1. Health Family Visits
  - 14 done since last THEC meeting
  - 4 more scheduled
  - 25 done in 2015
2. Fall Blood Lead Clinic prep
  - To set 6 clinic fall clinic dates over 3 weeks by end of the month. Starting either the week of September 14<sup>th</sup> or September 24<sup>th</sup>.
  - Presently have about 200 children on my invite list, but still to confirm total numbers using data from the Public Health information system and MSP.
3. Continuing Education
  - Applied to attend Motivational Interviewing Training
4. Community Education
  - Attend local Pregnancy Outreach Program (Building Beautiful Babies) once a month
  - To attend Prenatal class on May 21st and Teddy Bear Picnic June 26<sup>th</sup> with Home and Garden Program

# Trail Health & Environment Committee – Teck Report April 14, 2015

## Air Quality Program

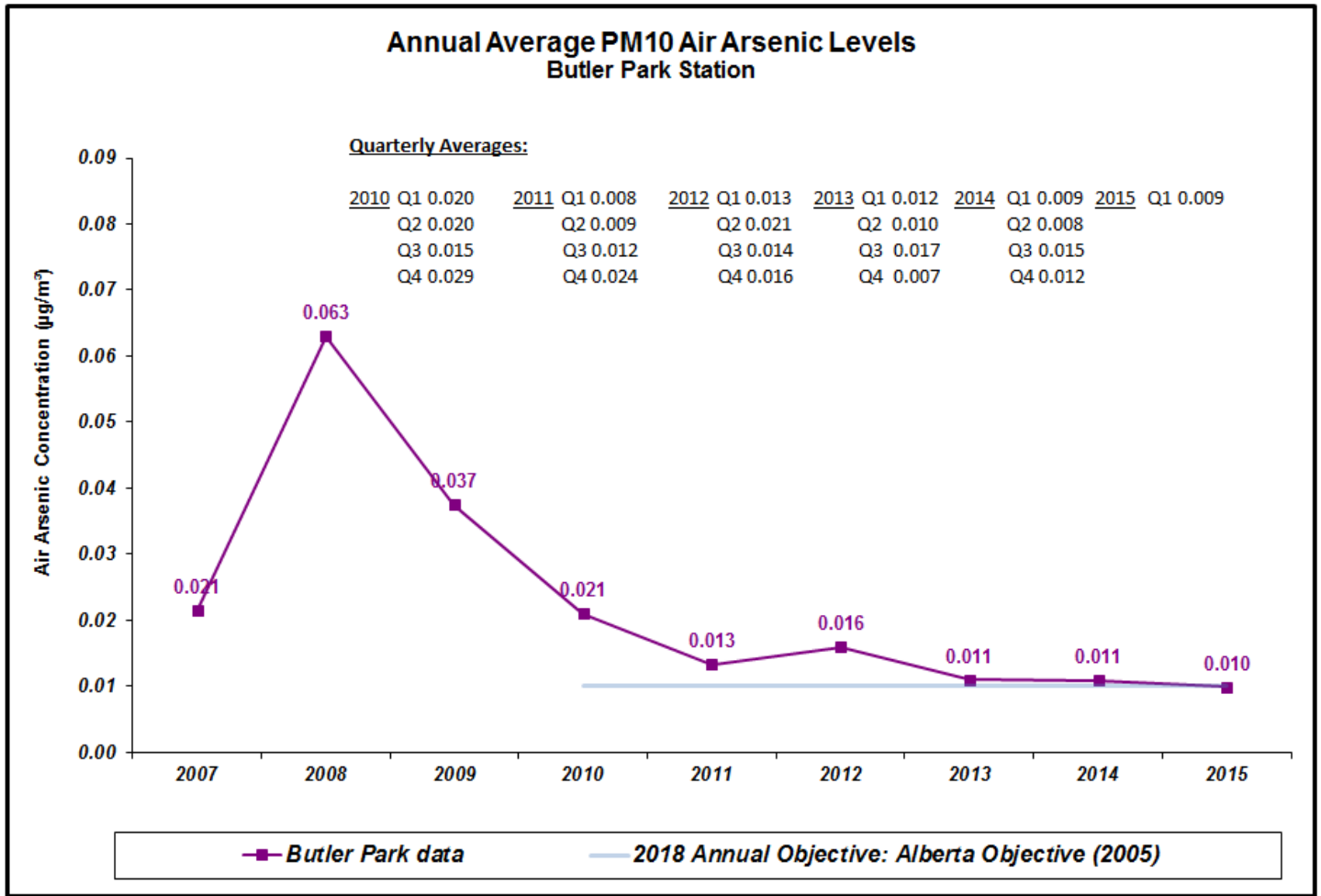
### Lead – Total Suspended Particulate:

- The graph shows ambient (community) levels for the Butler Park and Birchbank monitoring stations based on quarterly averages of Bi-Daily data (rather than NAPS -6 day- data), measured stack emissions (annual basis), as well as predominant wind direction (quarterly, as measured at Maintenance Services Building). More detailed data (e.g. box-plots) are reviewed at the Air Quality Technical Working Group meetings.
- The annual average for 2014 was  $0.326 \mu\text{g}/\text{m}^3$  for Butler Park, the lowest since 2007.
- Quarterly averages for Lead in ambient air at Butler Park are expected to have some variability due to season, weather, predominant wind and operational variance.
- Real-time XACT monitors: the older XACT at Butler Park malfunctioned in September, so the new one at Duncan (located north of Metallurgical Operations) was moved to Butler Park and an upgraded unit is now operating at Duncan.
- Measured stack emissions have continued to be less than 0.5 tonnes/year. The discrepancy in trends between stack emissions and measured TSP in air is believed to be sourced from fugitive dust.
- Trail smelter's releases of lead to air are still amongst lowest in smelting industry.



**Arsenic- PM10:**

- Arsenic in ambient (community) air had returned to pre-2004 levels in 2011. Improvements appear to be the results of actions taken at the Continuous Drossing Furnace and Refinery Scrubber Stack.
- The average for 2014 was 0.011 µg/m<sup>3</sup>, just above the 2018 objective of 0.010 µg/m<sup>3</sup>.
- Trail smelter’s releases of arsenic to air are amongst lowest in smelting industry.

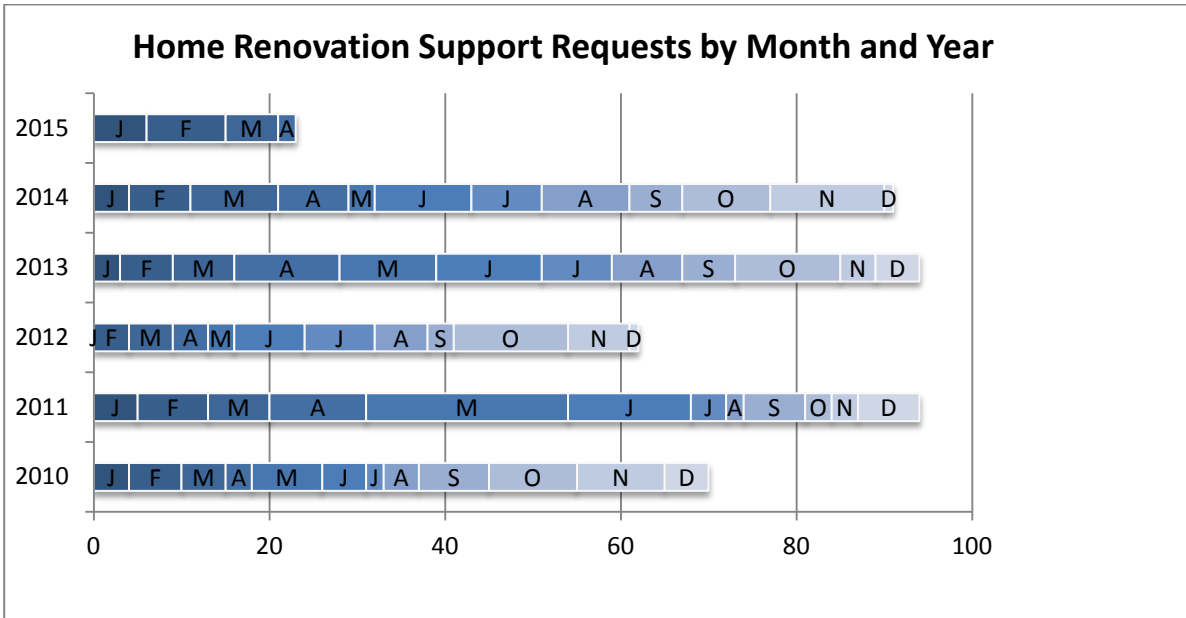


**Trail Area Health & Environment Committee**  
**Home & Garden Program Update**  
**April 14, 2015**

1. Home & Garden Program Highlights
  - a. Yard Maintenance scheduled for 8 properties
  - b. Lead-Safe Home Renovation Program:
    - i. Developed Key Principles of Lead Safe Home Reno
    - ii. Drafted a manual of detailed information on renovations
    - iii. Met with Worksafe BC to ensure we are aligning messaging about lead dust stirred up during renovations.
  - c. Two program staff attended the US Centre for Disease Control Healthy Homes and Lead Poisoning Prevention Training in Chicago, IL
  
2. Healthy Homes Program
  - a. Update on in-home visits (to April 10<sup>th</sup>):
    - i. **24** families have received a visit in 2015
    - ii. **3** families scheduled for a visit in the coming weeks
    - iii. **3** families currently on the Healthy Homes scheduling list
  - b. Supports provided to families (to April 10<sup>th</sup>):
    - i. **24** Dust-buster kits
    - ii. **17** Garden kits
    - iii. **23** Sandboxes
    - iv. **18** Vacuums

*Note: Sandboxes were offered to families this spring who were either waitlisted from 2014 HH visits because their children were not yet old enough at the time, or it was requested during a winter HH visit.*
  
3. Soil Programs – starting the last week of April
  - a. Soil Assessment - currently **65** properties on the list (18 HH and 47 CP)
  
  - b. Remediation, Yard Improvement, Yard Maintenance Queue
    - i. 5 scheduled for yard maintenance
    - ii. 15 vegetable gardens ready for remediation
    - iii. 21 planned for yard improvement
    - iv. 6 yard remediation properties proposed
    - v. 7 yard evaluations in the queue
  
4. Home Renovation Support, Radon kits and Lead Safe Home Renovation
  - a. Total HRSP requests in 2015 up to April 10: 23 requests, 1 enquiries
  - b. Radon kits – 9 kits given out
  - c. Have a draft manual of detailed information on renovations; have developed Key Principles of Lead Safe Home Reno; met with Worksafe BC to ensure we are aligning messaging about lead stirred up during renovations.





## 5. Community Outreach, Engagement and Training

### a. Community Program Office Public Contact Summary

- i. Jan: Total: 23 walk-ins and 10 phone calls
- ii. Feb: Total: 30 walk-ins and 15 phone calls
- iii. March: Total: 35 walk-ins and 9 phone calls
- iv. April: Thus far: 27 walk-ins and 6 phone calls

### b. Engagement Activities

#### i. Attended:

- Feb 2 and 3 – Attended winter Blood Lead Clinic
- Feb 5 – Presentation with IH to prenatal group
- Feb 23 – Set up THEP display at Ages & Stages event at Rossland Summit School
- Mar 14 – Attended with THEP Display at Seedy Saturday event in Trail

#### ii. Upcoming 2015 events:

- May 30– Home and Garden Days at Home Hardware and Columbia Valley Greenhouse
- May 26 – Ready Set Learn at Glenmerry Elementry
- May 31 – Prenatal Presentation
- June 3 – Invite to attend meeting with Lower Columbia Perinatal Committee
- June 26 – Teddy Bear’s Picnic

### c. Training Opportunities

- i. Two program staff attended the US Centre for Disease Control Healthy Homes and Lead Poisoning Prevention Training in Chicago, IL In the Primary Prevention Track and Data Management and Surveillance Track.
- ii. Upcoming Motivational Interviewing Training in May!

**Trail Area Health & Environment Committee  
Program Manager Report  
April 14, 2015**

**HIGHLIGHTS**

1. Sourcing website developers to help with refinements to [www.thep.ca](http://www.thep.ca), including search engine optimization and mobile uses
2. Sourcing video makers and consultants who do online learning/training; meeting with WorkSafe, and reviewing materials to support Andrea with the Lead-Safe Home Renovation education program.
3. Edited content and sourcing photos for an Abridged version of the THEP document, based on first draft from Graham Kenyon and review by Ruth Hull.
4. Collaborated with Sonia Tavares to contract the trainer, develop the budget, and draft a promotional flyer for Motivational Interviewing training to be held May 13/14 in Trail. THEP is co-sponsoring this with Greater Trail Success by 6.
5. Participated in Blood Lead Objectives Setting Working Group meeting, March 12.
6. Drafting the THEP Spring Newsletter, set to go out in mid-to-late May, in advance of Home & Garden Day, May 30.
7. Created a mini presentation to let THEC members know the main activities of the THEP Manager

**Teck** | THEC Update: Fugitive Emissions  
 April 14, 2015  
 Bill Jankola, Superintendent Operations Environmental Projects

**Teck**

### What are emissions?

#### Stack emissions

– Community ambient air lead trending differently than stack emissions

Since 1995, stack Pb emissions have been reduced by over 99.5% and are currently ~500 kg/year!

2

**Teck**

### Ambient Air Pb & Children's Blood Lead

**Ambient air lead levels have an impact on community children (health):**

- The lower the ambient air Pb, the lower the blood lead

- 2015 Target - 4 µg/dl with continual improvement

3

**Teck**

### Fugitive emissions

#### Fugitive emissions

– Escape from buildings, roads and activities

- mixing, tapping, bagging dusts, screening, loading/unloading trucks and railcars

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**How do fugitive and stack Pb emissions compare?** **Teck**

**Fugitive emissions**

- **Estimated using EPA methods at 46 tonnes/year**
  - Roadways: 12 tonnes/year
  - Buildings: 8 tonnes/year
  - Activities (mix areas): 26 tonnes/year

**Stack emissions**

- **Measured at <0.5 tonnes/year**

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**Fugitive Dust Project:** **Teck**  
*Project Goals*

- Implement Trail's 5-year Plan to achieve THEC 2018 ambient metal targets:
  - Improve materials storage for raw materials, intermediate process materials and recycles (26 tonnes/year lead)
  - Develop sustainable materials transportation, handling and recycling practices (12 tonnes/year lead)
  - Reduce fugitive emissions from existing processes and infrastructure (8 tonnes/year lead)

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**Material Storage** **Teck**

**Tadanac North storage facility**



- 2013: Facility constructed
- 2014: In use.

**Smelter Recycle Building**

- 2014: Appropriation approved
- 2015: Working with 5 proponents on a design/build
  - Tender closes end of April
  - Construction to commence by June 30<sup>th</sup> (target)
    - Completion in about 1 year
  - Site preparation is ongoing


**Roaster Unloading/Storage**

- 2014: Conceptual study completed
- 2015: Complete pre-feasibility

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**Smelter Recycle Building** **Teck**  
*Conceptual Design*



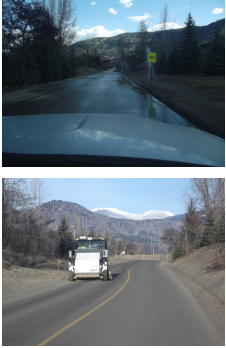
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**Fugitive Dust Project:**  
Project Status – Transportation

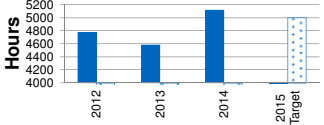
**Teck**

**Dust suppression on roadways**

- Sweeping
- Flushing
- Sprinklers along roadways
- Reduced speed



**Road Sweeping/Flushing**



Year	Hours
2012	4600
2013	4500
2014	5000
2015 target	4800

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**Fugitive Dust Project:**  
Project Status – Transportation

**Teck**

**Dust suppression on roadways**

- Targeted road sweeping for Red Dog unloading area (2015)



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**Fugitive Dust Project:**  
Project Status – Transportation

**Teck**



Wheel wash (2012)

Wheel wash (2013)





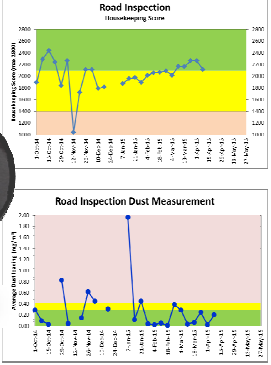
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**Fugitive Dust Project:**  
Project Status – Transportation

**Teck**

**Monitoring of roadways - 2014**

- Weekly housekeeping tour
- Measurement of dust levels

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**Fugitive Dust Project:**  
*Project Status – Stockpiles*

**Teck**

**Annual spraying of “dormant” stockpiles**

- 2014: completed mid-July
- 2015: completed early April

**Use of sprinklers**

- 2014
  - Sprinklers on zinc concentrates
  - Sprinklers on slag piles at Beach
- 2015
  - Sprinklers on zinc concentrates mid-March
  - Sprinklers on slag piles at Beach mid-March


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**Fugitive Dust Project:**  
*Project Status – Building Improvements*

**Teck**

**Smelter**

- 2013/2014: Clinker crusher ventilation
- 2014/2015: KIVGET burner port ventilation
  - Phase I completed during 2014 KIVGET shutdown.
  - Complete installation and Operational by end of June 2015
- Pre-wetting concentrates prior to arrival in Trail
  - Currently testing/evaluating



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**Fugitive Dust Project:**  
*Project Status – Building Improvements*

**Teck**

**Refineries**

- Engineering ventilation study completed in 2014
- Advance critical ventilation in 2015
- Gate bag house dust agglomeration in 2015

**Roasters**

- Conceptual study for ventilation improvements to be completed in 2015

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March 2, 2015.

John,

On behalf of the Trail Health and Environment Committee, I want to extend our sincere thanks for not only your participation as a municipal representative but for the active role you played as a valued contributor to the group moving forward. Through your insightful observations and questions, you certainly further raised awareness to factors that might not have otherwise been given due consideration. For this we are grateful and most appreciative.

We will miss you from the committee table. We wish you and your wife well as you embark upon a journey free of municipal responsibilities.

All the very best,

Mike Martin, Chair, THEC.