



Community Liaison Committee Meeting #31

December 10th, 2019

Agenda

1. Review of September 10th, 2019 meeting notes
2. Membership Items
3. Site Specific Standards / Technical Standards
4. Public Complaints
5. Environmental Compliance Approval updates
6. Legacy Environmental Action Plan
7. Climate Change
8. Public Open House
9. Next Meetings

Membership Items

Current Members and Alternates

Representation

Algoma Steel
Ministry of Environment, Conservation & Parks
Public
Public
SSM Tribe of Chippewa Indians
Algoma Public Health
Chippewa County Health Dept.
Batchewana First Nations
City of Sault Ste. Marie
United Steel Workers Local 2251
St. Mary's River RAP Coordinator

Primary Member

Fred Post
Lori Greco
David Trowbridge
Patt Marquis
Kathie Brosemer
Kara Flannigan
Suzanne Lieurance
Dan Sayers Jr.
Catherine Taddo
Reginald Dunn
Lisa Derickx

Alternate

Chris Galizia
Ron Dorscht
Peter McLarty

Chris Spooney

Maggie McAuley

Site Specific Standard for Particulate and BaP

- On March 27th, 2015 Algoma received a Site Specific Standard for Particulate which sets specific emission limits in cokemaking:
 - Certified observers (per EPA Method 9 and Method 303)
 - 5 days per week, 10 Saturdays and 10 Sundays each year
 - Must observe daily per battery: 4 pushes, 5 charges, all lids, all doors, and all standpipes
 - Must make operational adjustments if over the daily limits and notify MECP

Site Specific Air Quality Standard - Particulate & B(a)P

Identifies Key Performance Indicators related to Cokemaking Emissions:

- average intensity of pushing emissions
- average duration of charging emissions
- % lid leaks
- % off-takes leaks
- % door leaks

Conformance calculated daily for each battery

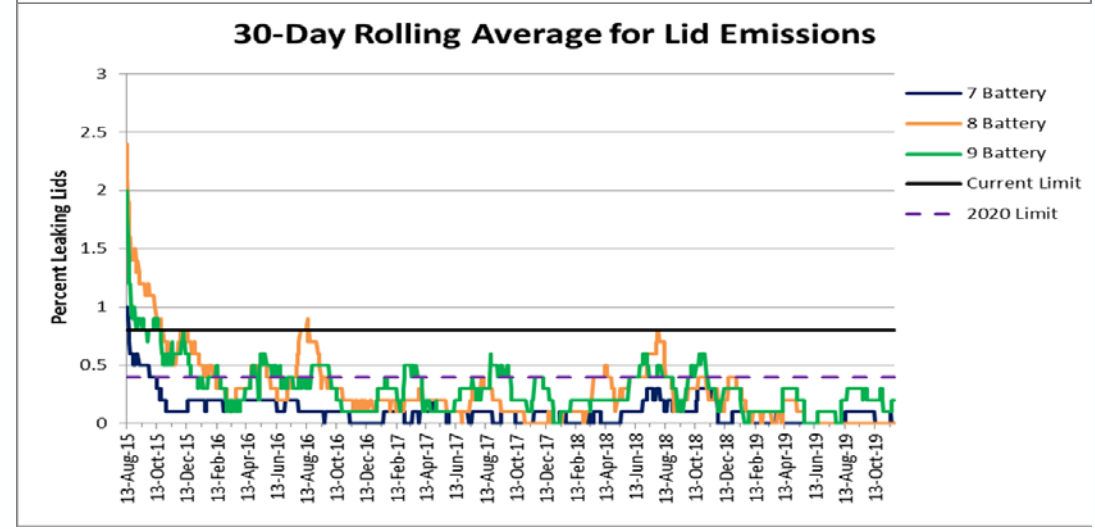
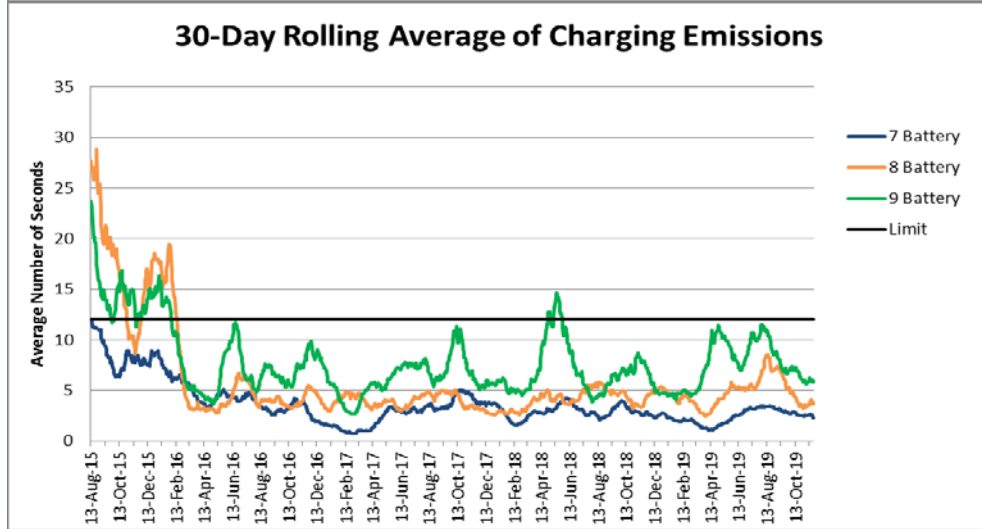
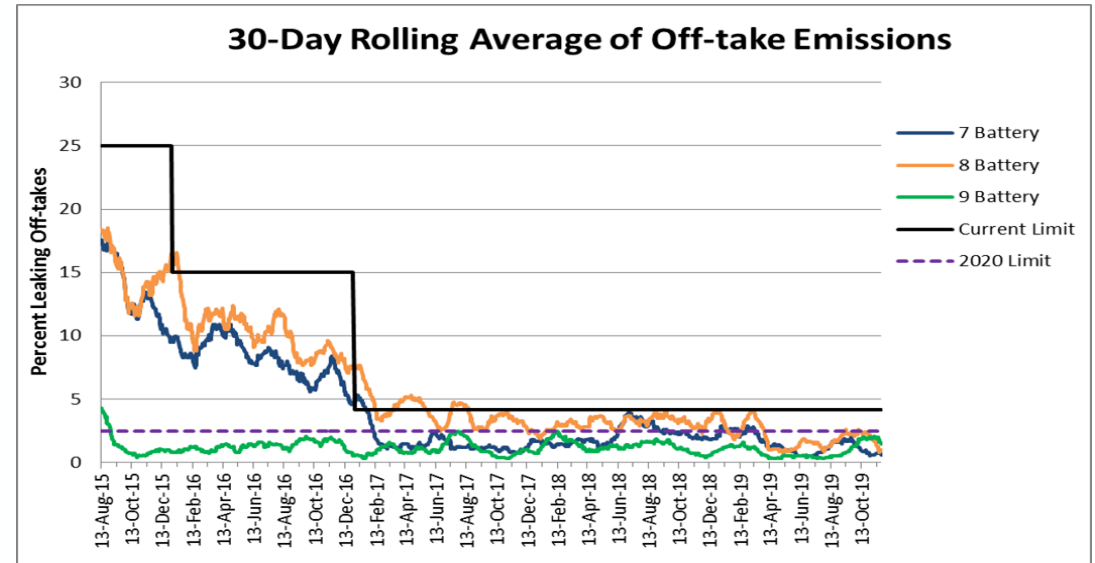
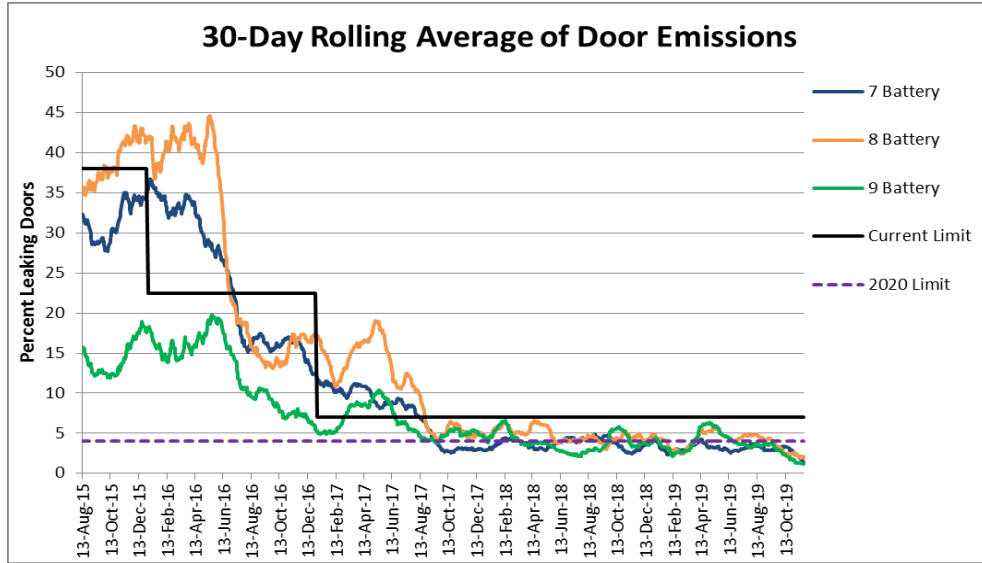
New limits introduced July 2015. Progressive, annual reduction.

Implementation Date	30 day rolling average %			Charging Emission	Pushing Opacity (%)
	Doors	Lids	Off-takes		
July 2, 2015	38	0.8	25	12 sec	50
Jan 1, 2016	22.5	0.8	15	12 sec	50
Jan 1, 2017	7	0.8	4.2	12 sec	50
Jan 1, 2019	7	0.8	4.2	12 sec	40
Jan 1, 2020	4	0.4	2.5	12 sec	30



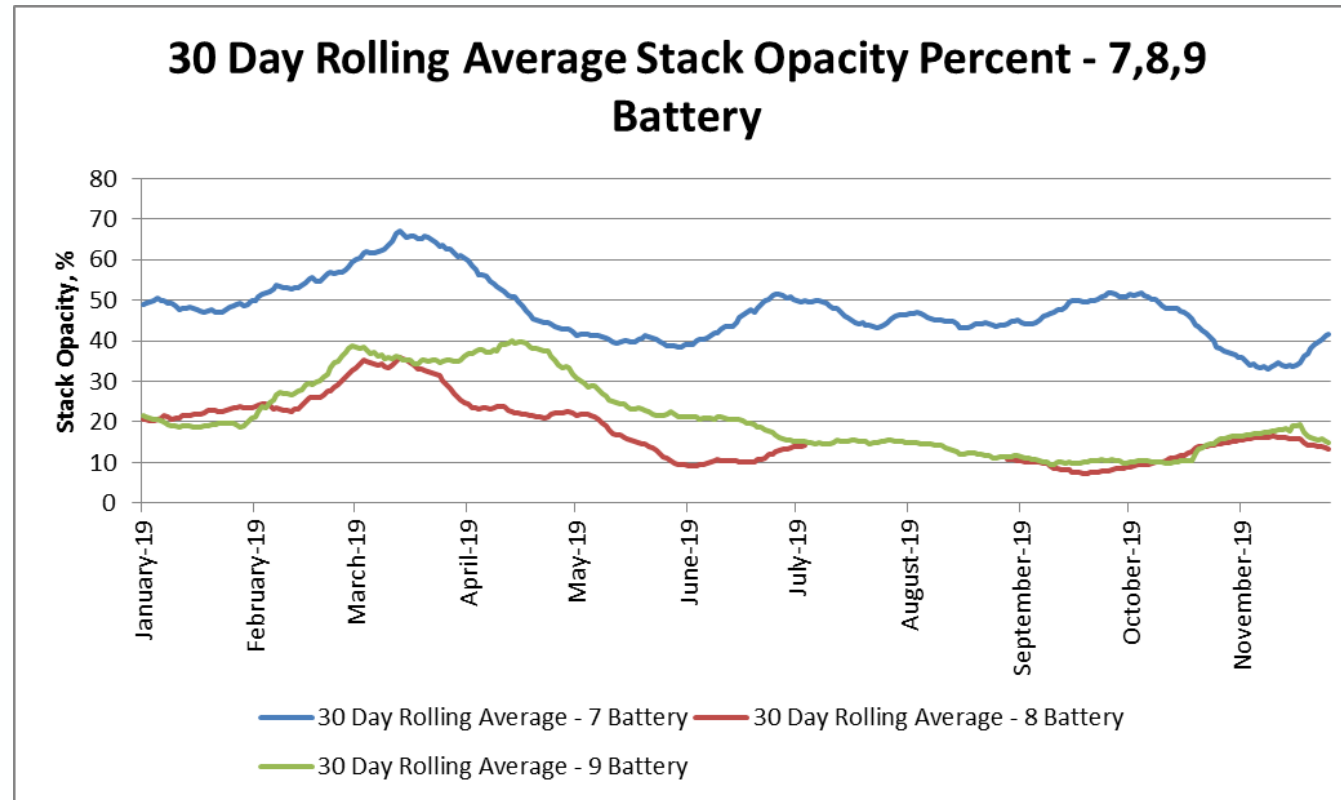
Algamma Steel is now meeting the 2020 limits on all three batteries.

Improved Air Quality - Cokemaking Emissions Performance



All batteries performing below the 2020 limit ahead of schedule.

Progressive Improvement - Cokemaking Opacity Performance



* Lighting strike took #8 battery opacity meter off line from July 3rd to July 25th

- **Continuous corrective actions being undertaken on all batteries**
 - Part of the investment plan to achieve compliance with SSS limits also focuses on reducing stack emissions from cokemaking
 - Intensive Masonry maintenance continues to be required on oven walls and end flues
 - Focus is on reducing intensity of stack emissions

\$20 million investment planned for 2020

Stack Opacity: Trending down, however continued struggle to meet limit.

Pushing Opacity: To date all corrective actions have been successful at reducing pushing opacity below the limit



Public Complaints

There were no public complaints received since the last CLC meeting that related to a matter addressed in the SSS Order.

The following public complaints were received by the company since the last CLC:

- 9 Odour
- 3 Particulate
- 0 Noise

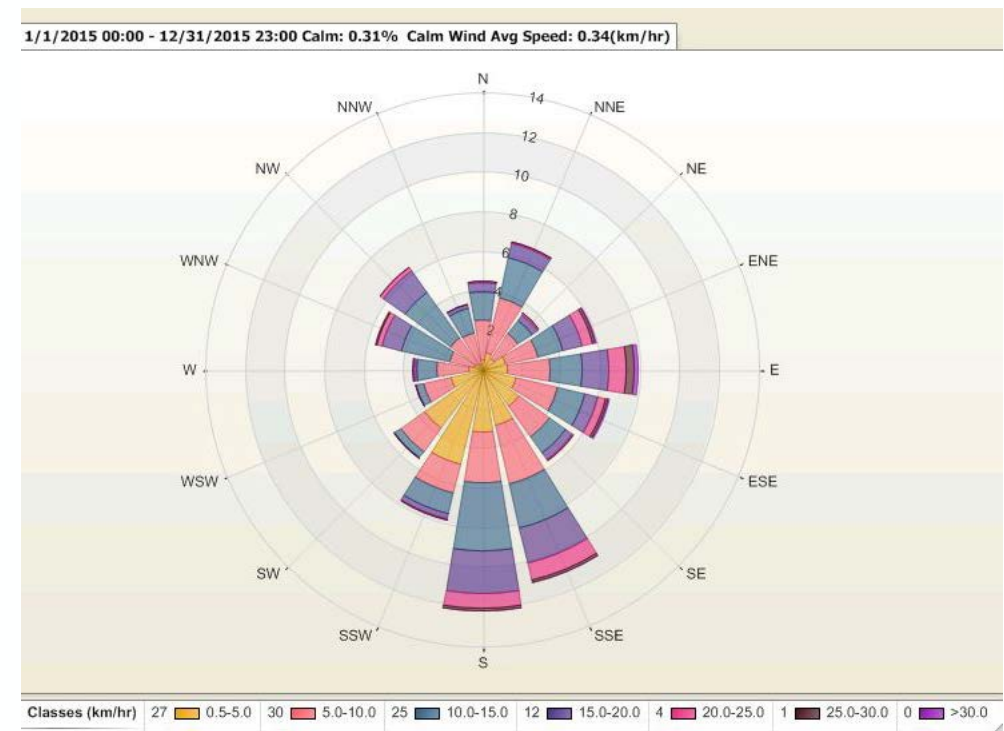
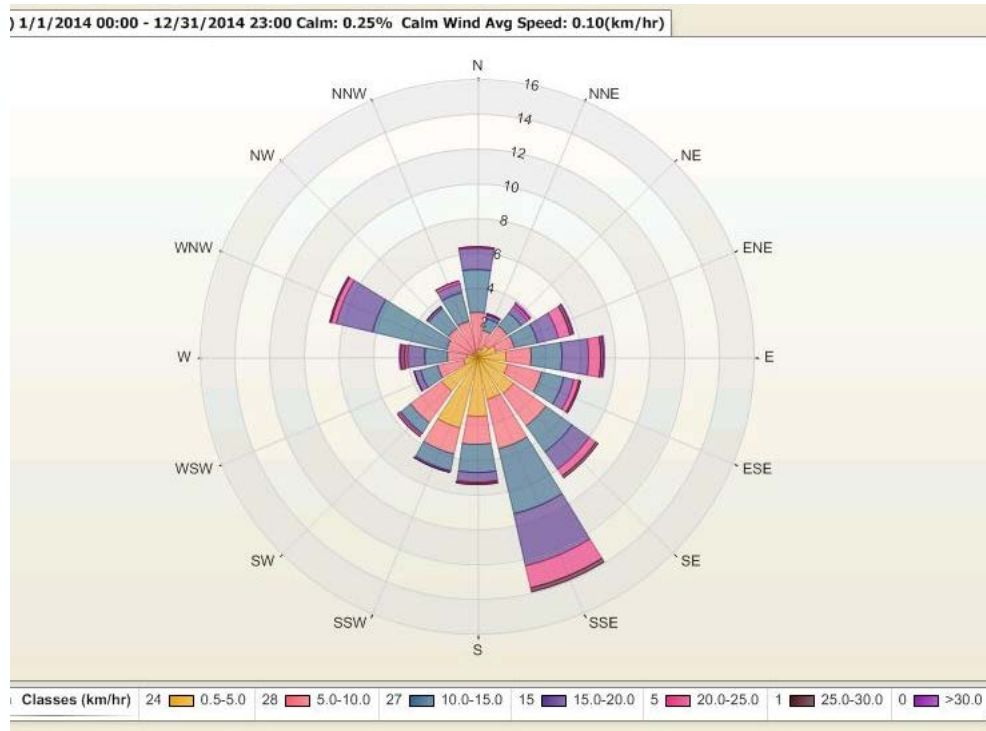
An internal investigation into each public complaint is conducted and a report is submitted to the MECP and a summary is listed on the company website.

Prevailing Winds

The following link shows a visual representation of local predominant winds

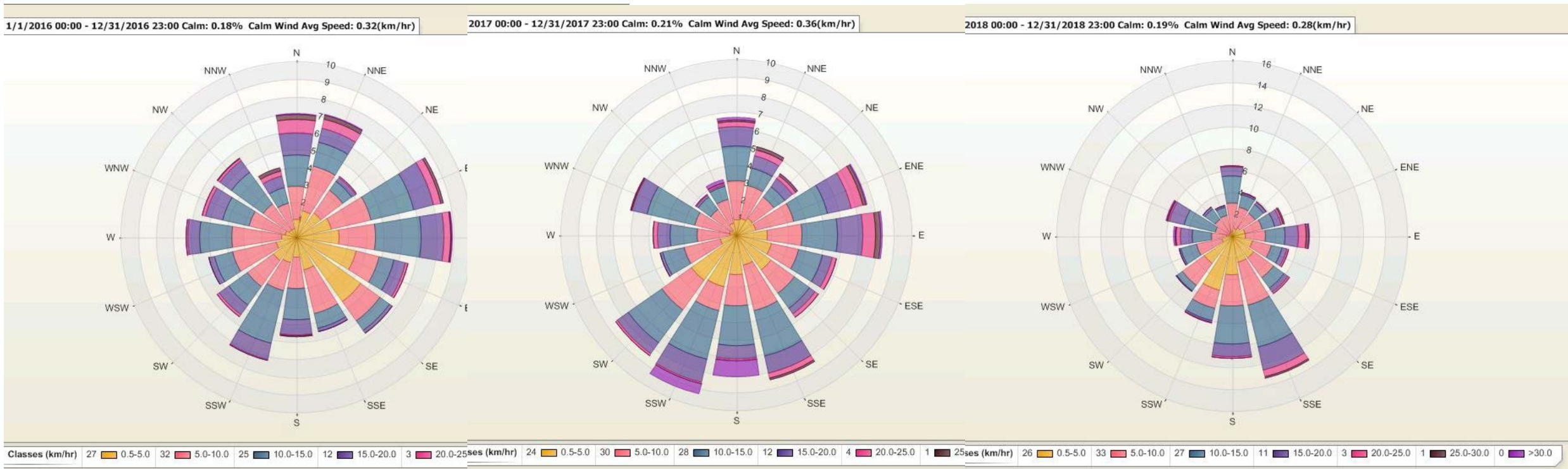
<https://weatherspark.com/y/16136/Average-Weather-in-Sault-Ste.-Marie-Canada-Year-Round>

Each of the following diagrams show annual site specific wind measurements from the past five years



Prevailing Winds

The following diagrams show site specific wind measurements taken over the past five years



Technical Standard

Regulatory Instrument to replace existing SSS's

- A new Technical / Site Specific Standard for multiple air contaminants is under development
- Contaminants include: Particulate, B(a)P, Benzene, Sulfur Dioxide, Total Reduced Sulfur and Metals (x4)

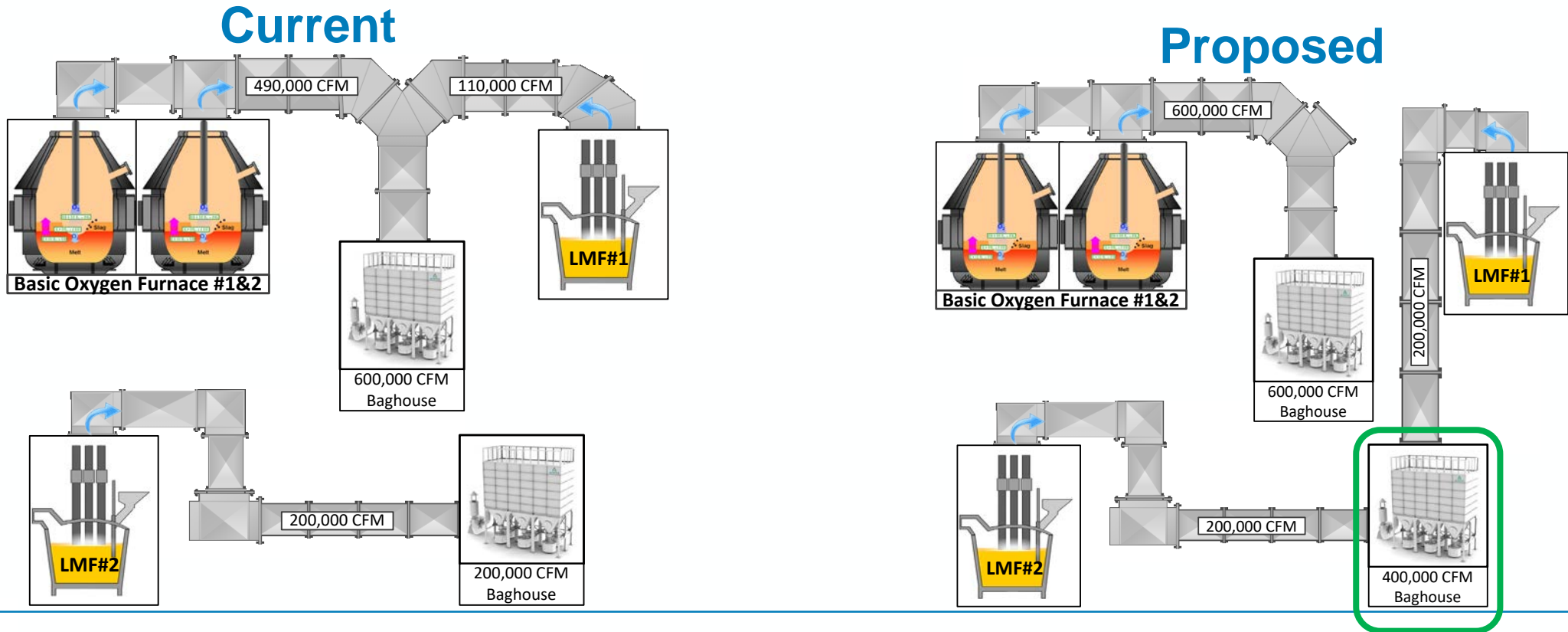
Next steps – Algoma Steel participating in MECP led working groups focusing on:

- Fugitive metal/particulate emissions from on-site roadways; steel-making; slag management;
- Identifying managed sources - current emission sources and air pollution controls;
- Expanding Leak Detection And Repair (LDAR) programs in by-product plants for benzene;
- Coke oven gas de-sulphurization (Federally required by January 1, 2026);
- Development of an Ontario-based emission auditor training and certification program;
- Completing a jurisdictional review of best available emission control techniques globally;
- Industry economic overview and economic feasibility assessment (industry led);
- Development of trigger mechanisms to facilitate a review of the appropriateness of the Technical Standard every 7-8 years

Larger Baghouse Proposed

Application for amendment to existing Compliance Approval

Algoma Steel is applying for approval to install a larger baghouse on its No. 2 Ladle Metallurgy Furnace to improve capture efficiency at both ladle metallurgy treatment stations and at the basic oxygen furnaces (steelmaking).



LEAP - Addressing Legacy Environmental Issues

Legacy Environmental Action Plan (LEAP)

- The LEAP is a risk-based environmental management plan with the objectives of identifying, assessing, managing and mitigating off-site adverse environmental effects caused by Legacy Environmental Contamination at the Site.
- Targeted annual investment - \$3.8 million; totaling \$79.8 million over 21 years

The 2019 total spend was approximately \$3.4 million on the following projects:

- Site wide baseline investigation (2019 investigation complete)
- PCB disposal (complete)
- Dredge Boat Slip (complete)
- Secondary Containment Waste Oil Tanks (complete)
- Secondary Containment Raw Liquor Tanks (under way)
- Legacy Tire Disposal (50% complete)
- Legacy Coke Oven Gas main cleaning (complete)
- Engineering for re-routing blast furnace 30" sewer (underway)
- Engineering Base Line Ditch Water Treatment (underway)

Addressing Legacy Environmental Issues

PCB Removal and Destruction

All known remaining PCB materials were removed and destroyed



Tire Recycling

454 tonnes of legacy oversize tires were recycled

Sediment Dredging from Boat Slip

6200 tonnes of contaminated sediment removed from boat slip



Hydrogeological Investigation

Site wide ground and surface water investigation including 64 new groundwater monitoring wells

Addressing Legacy Environmental Issues

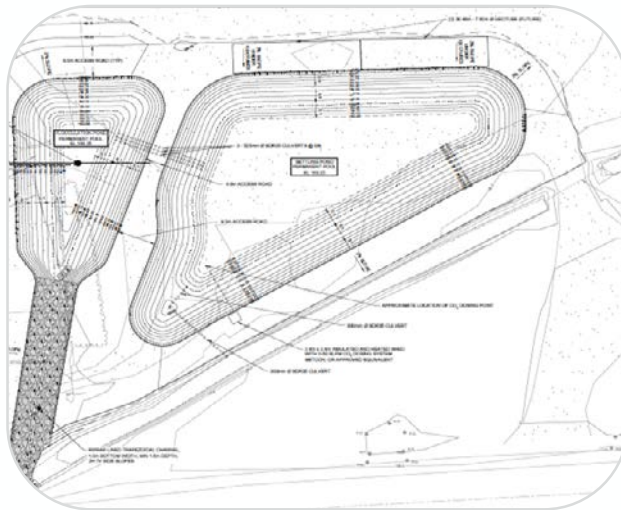
New Secondary Containment on Waste Oil Storage Tanks



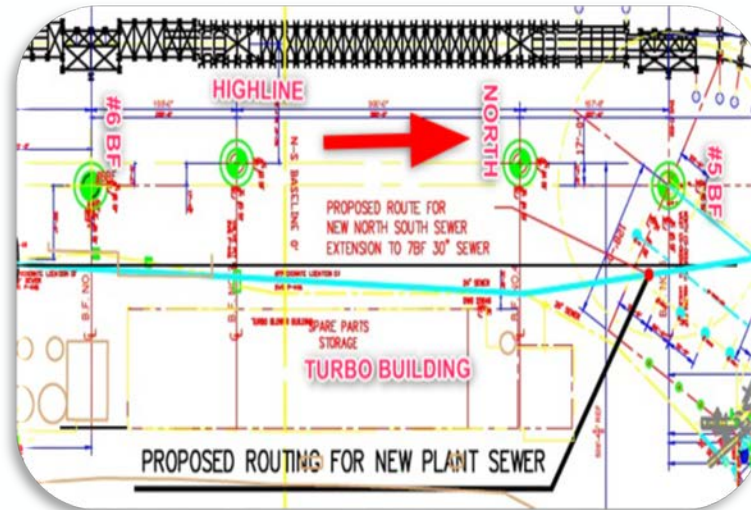
New Secondary Containment on Raw Liquor Storage Tanks



Ground & Surface Water Treatment Facility Engineering Design

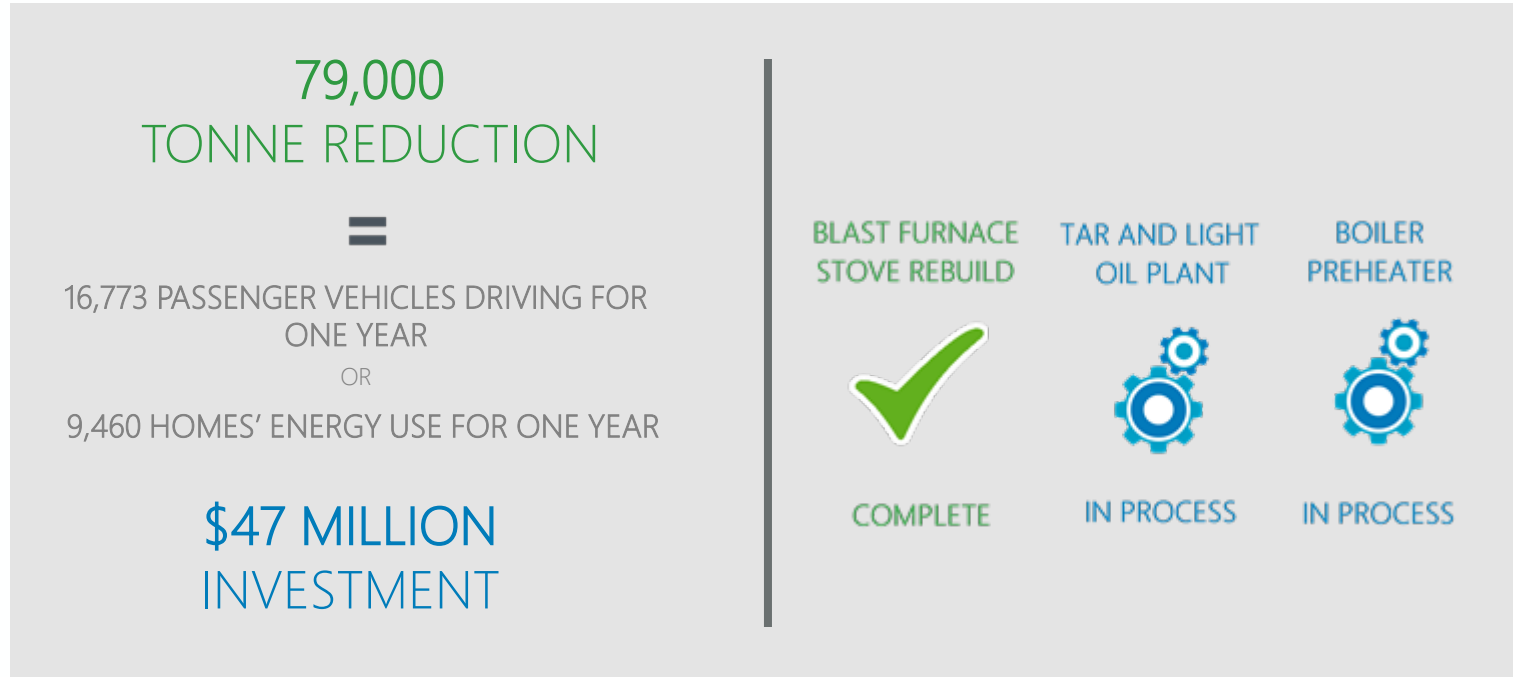


Engineering design to re-route an effluent discharge to a treatment facility



Climate Change Action

Algoma Steel continues to find opportunities to reduce greenhouse gas emissions. In 2019 we earmarked \$47 million for three projects that will deliver a targeted 79,000 tonne reduction.



As a member of the **Canadian Steel Producers Association Climate Change Working Group**, we are exploring technological advancements to deliver a step-change improvement in GHG emissions

Public Open Houses

Next open house scheduled for:

TUESDAY, DECEMBER 10, 2019

4:00 PM – 7:00 PM

NORTHERN COMMUNITY CENTRE

KORAH BRANCH LIBRARY COMMUNITY ROOM – 556 GOULAIS AVENUE

Next Meeting

- Proposed 2019 Schedule:
 - December 10th, 2019 (today)
 - March 10th, 2020