

# Community Liaison Committee Meeting #53

Tuesday June 3<sup>rd</sup>, 2025





**ALGOMA**  
— STEEL INC. —

# Building Better Lives and a Greener Future

**Safety • Teamwork • Integrity • Caring**

With every decision, every action, every day, we will work safely with teamwork, integrity and deep care for our people, their families and the environment.

# Agenda

1. Review of March 18th, 2024 Meeting Notes
2. Membership Items
3. Cokemaking Emissions Performance
4. Review 2024 Fourth Quarterly Report – Ambient Air Quality Monitoring Program
5. Electric Arc Steelmaking and Environmental Permit Applications
6. Legacy Environmental Action Plan
7. Community Engagement
8. Next Meetings

# Membership

## Current Members and Alternates

### Representation

Algoma Steel

MECP

Public

Public

SSM Tribe of Chippewa Indians

Algoma Public Health

Chippewa County Health Dept.

Batchewana First Nation

Garden River First Nation

City of Sault Ste. Marie

United Steel Workers Local 2251

St. Mary's River RAP Coordinator

### Primary Member

Corey Jackson

Lori Jalak

David Trowbridge

Jillian Marquis

Isaac McKechnie

Melissa Francella

Steve Carey

Dan Sayers Jr.

Andrew Mallette

Carl Rumiel

Wayne Hubbard

Lisa Derickx

### Alternate

Giancarlo Perra

Rick Lalonde

Anton Schoahs

Dan Gabor

Robert Schulte

Lauren Febbraro

Suzanne Lieurance

Richard Perrault

Maggie McAuley

Dean Law

# Cokemaking Emissions Performance

## Key Performance Indicators related to Cokemaking Emissions:

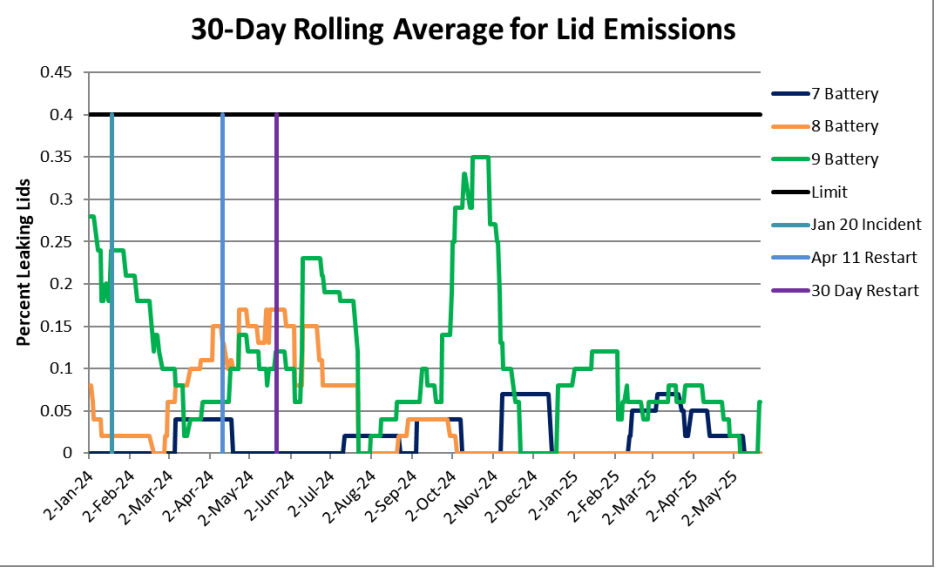
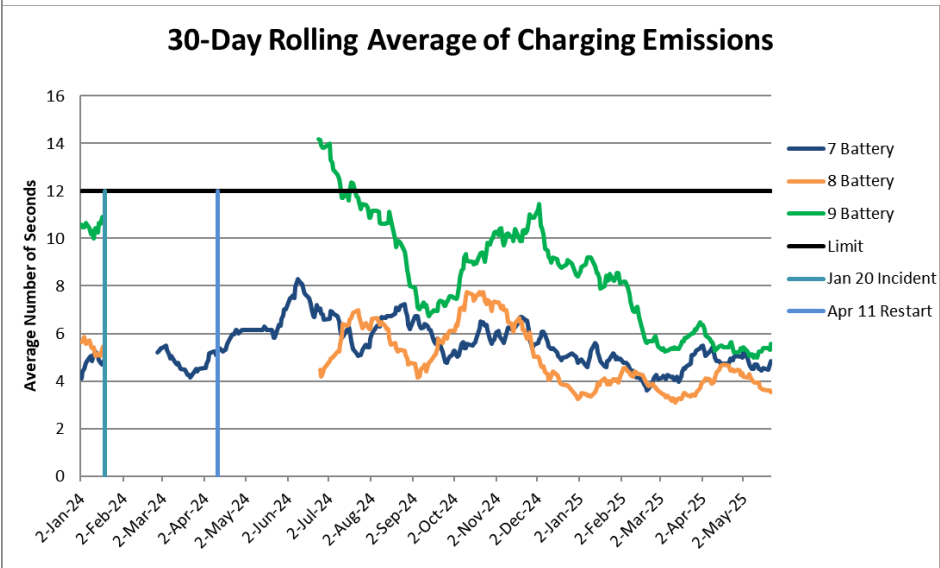
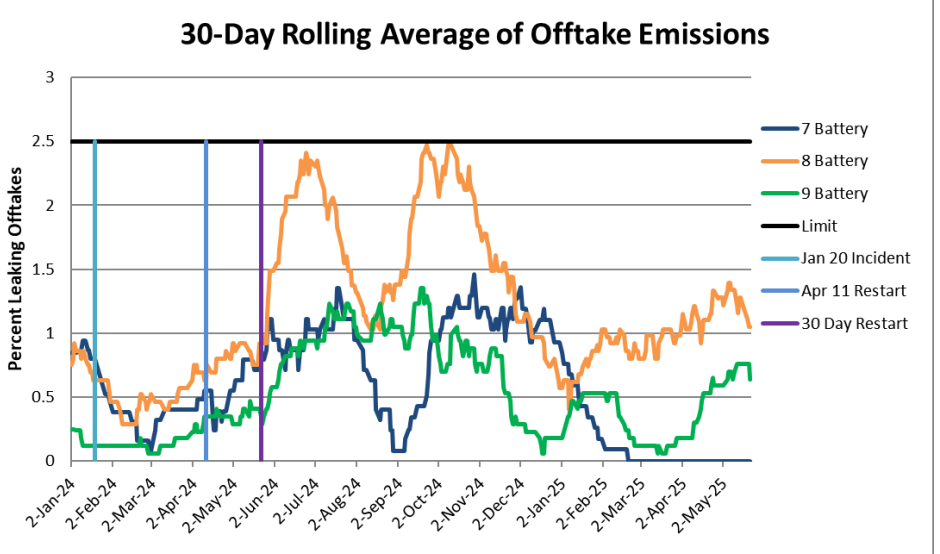
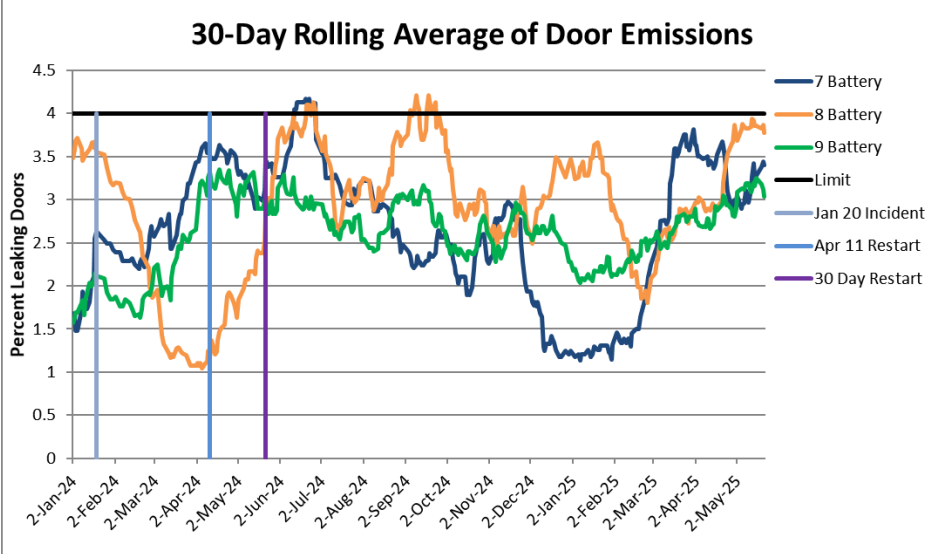
- average intensity of pushing emissions
- average duration of charging emissions
- % lid leaks
- % off-takes leaks
- % door leaks
- Performance is monitored and calculated daily for each battery

## Progressive Annual Reduction

30 Day Rolling Average %					
Implementation Date	Doors	Lids	Off-takes	Charging Emissions	Pushing Opacity (%)
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
<b>Jan. 1, 2020 onward</b>	<b>4</b>	<b>0.4</b>	<b>2.5</b>	<b>12 sec</b>	<b>30</b>

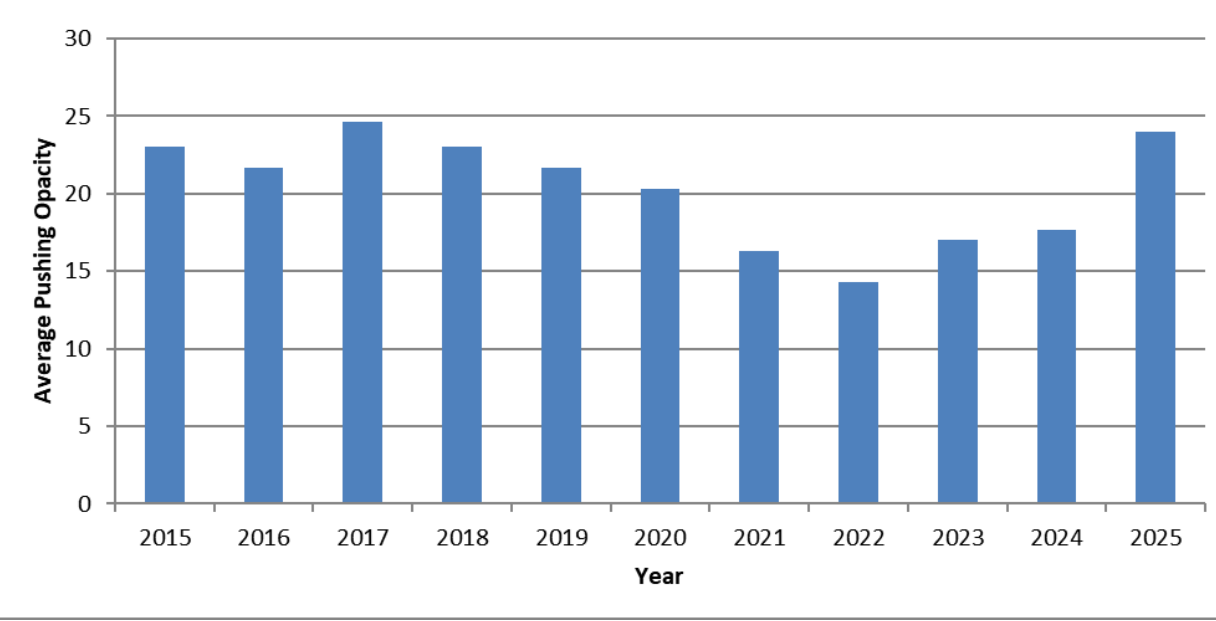
**Algoma Steel is meeting the current leak limits on all three batteries.**

# Cokemaking Emissions Performance

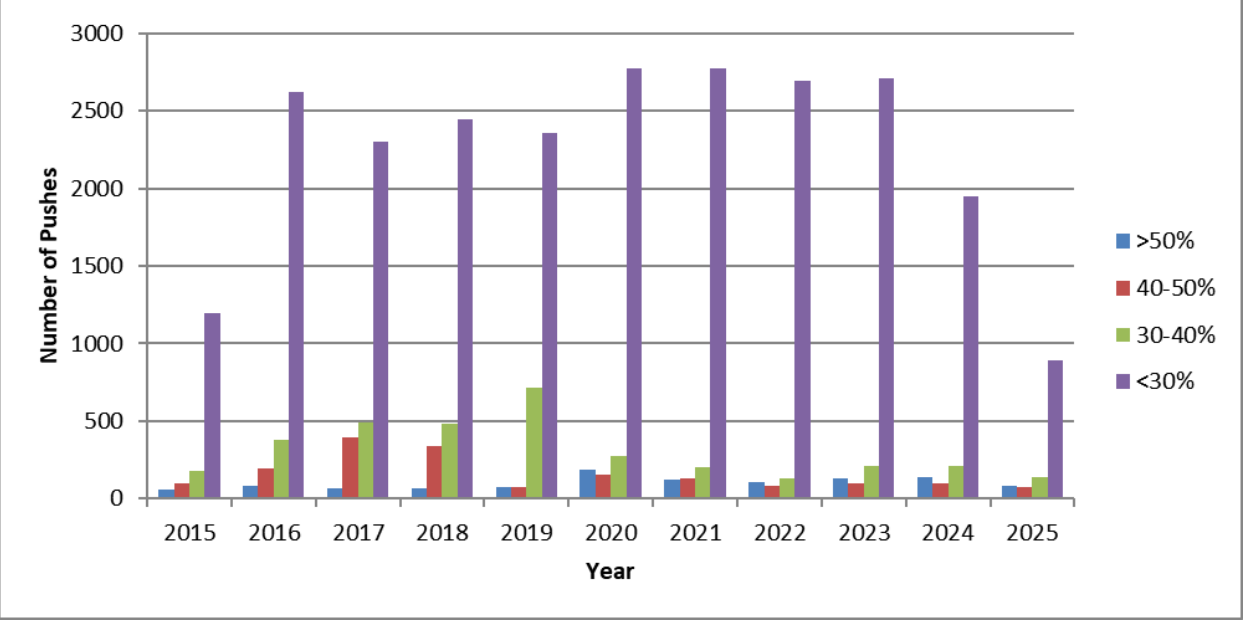


# Cokemaking Emissions Performance

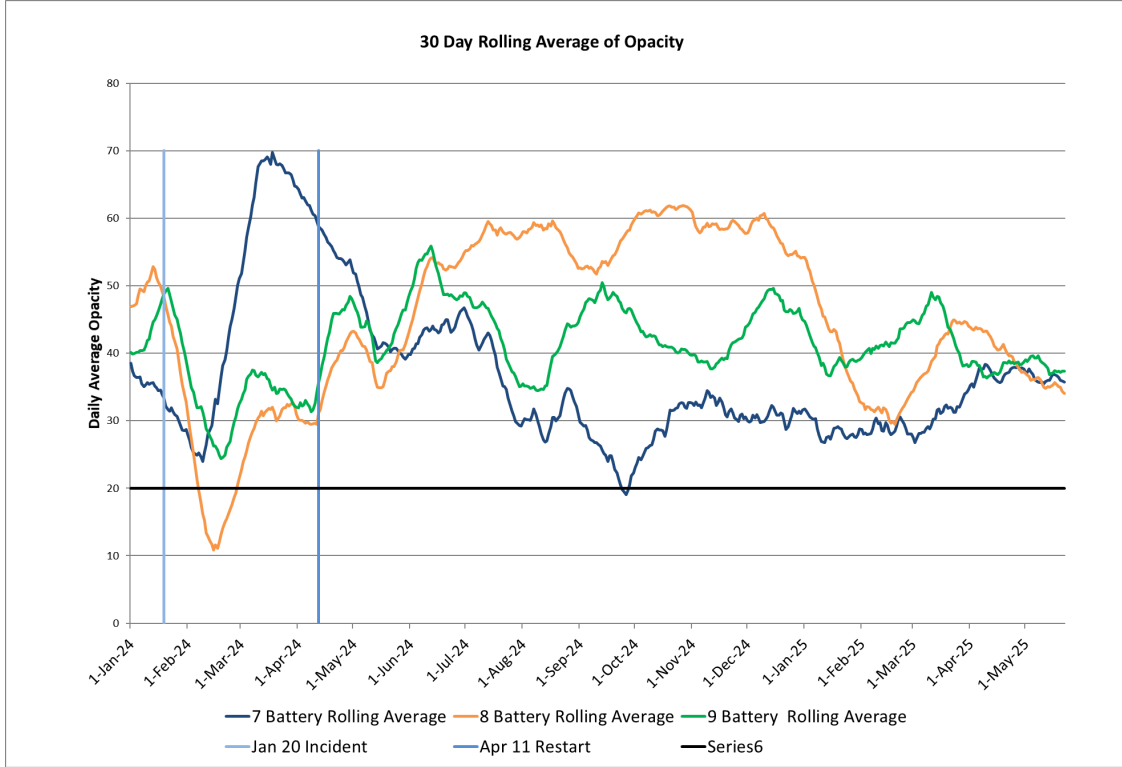
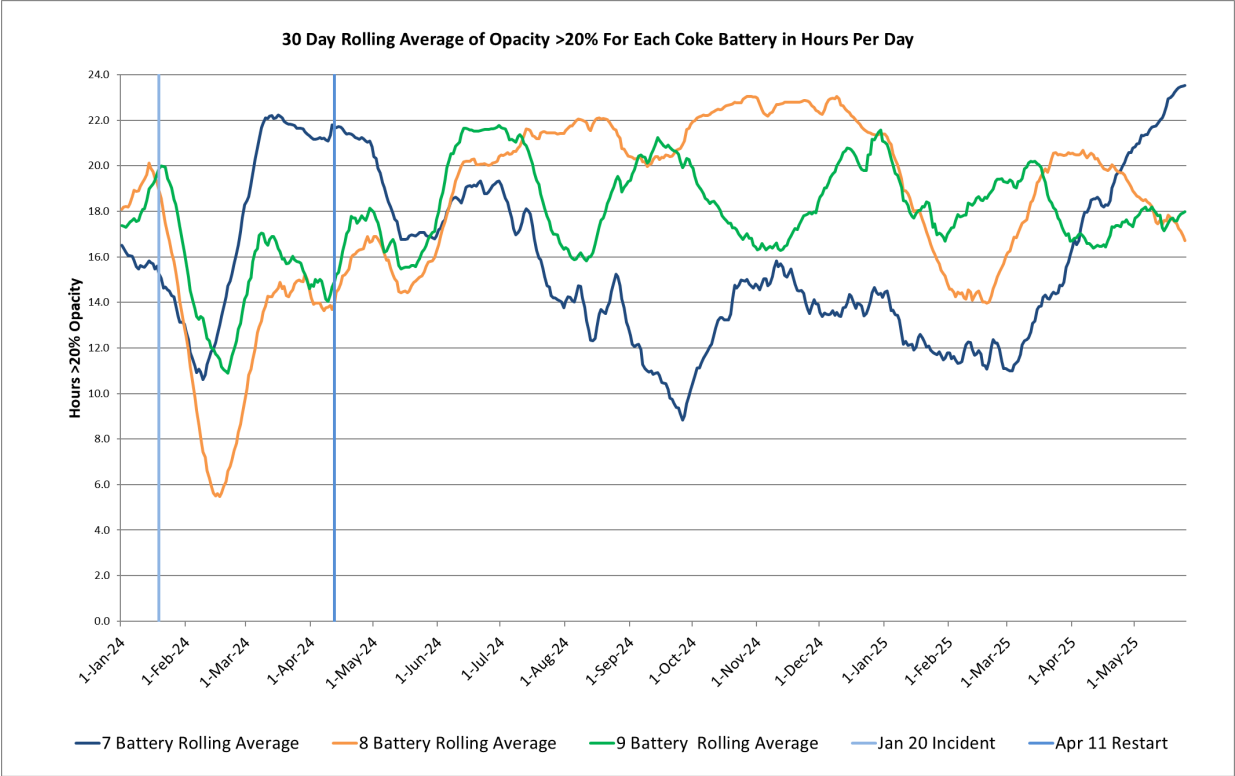
All Batteries Average Pushing Opacity by Year



Number of Audited Pushes by Opacity



# Cokemaking Stack Opacity



# #7 Battery Update

- As a significant milestone in our transition to Electric Arc Steelmaking, Battery #7 at our coke-making facility is being permanently shut down this week.
- #7 battery is our least efficient battery and we do not expect its shutdown to result in any increase to operating cost.



# 2025 First Quarter Report – Ambient Air Quality Monitoring Program

Bonney Street Station (71042)							
Parameter	Units	Maximum	Minimum	Arithmetic Mean (Quarterly)	Standard	Number of Excursions	Guideline, AAQC Criteria
<b>Continuous Parameters (Quarterly)</b>							
Total Reduced Sulphur (TRS) - 24 hour	ppb	7.23	0	1.10	5 ppb (24-hour)	3	5 ppb (24-hour)
Total Reduced Sulphur (TRS) - 10 minute	ppb	27.3	0	0.81	10 ppb (10-minute)	323	10 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 10 minute	ppb	70.6	0	1.03	67 ppb (10-minute)	1	67 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 1 hour	ppb	56.4	0	1.03	40 ppb (1-hour)	78	40 ppb (1-hour)
Sulfur Dioxide (SO <sub>2</sub> ) – 24 hour	ppb	31.0	0	31.0	100 ppb (24-hour)	0	100 ppb (24-hour)
Particulate Matter less than 10 microns (PM <sub>10</sub> ) – 24 Hour	µg/m <sup>3</sup>	56.9	5.30	18.3	N/A	3	50 µg/m <sup>3</sup> (AAQC 24-hour)
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> ) – 24 Hour	µg/m <sup>3</sup>	39.0	1.45	8.66	N/A	3	27 µg/m <sup>3</sup> (AAQC 24-hour)
<b>Non-Continuous Parameters (Quarterly)</b>							
Total Suspended Particulate (TSP)	µg/m <sup>3</sup>	354	15.3	114	120 µg/m <sup>3</sup> (24-hour)	7	120 µg/m <sup>3</sup> (24-hour)
Total Suspended Particulate Manganese	µg/m <sup>3</sup>	0.64	<MDL	0.15	0.4 µg/m <sup>3</sup> (24-hour)	2	0.4 µg/m <sup>3</sup> (24-hour)
Total Suspended Particulate Metals (TSP Metals except Manganese)	µg/m <sup>3</sup>	Various Parameters - No Excursions to Report					
Volatile Organic Compounds (for VOCs except Benzene and Alpha-Pinene)	µg/m <sup>3</sup>	Various Parameters – No Excursions to Report					
Volatile Organic Compounds (Benzene)	µg/m <sup>3</sup>	3.48	0.08	0.63	0.45 (Annual)	1	2.3 µg/m <sup>3</sup> (24-hour)
Volatile Organic Compounds (Alpha-Pinene)	µg/m <sup>3</sup>	281	0.14	37.96	N/A	1	270 µg/m <sup>3</sup> (24-hour)
Poly-cyclic Aromatic Hydrocarbons (Benzo(a)pyrene)	ng/m <sup>3</sup>	22.9	0.04	3.71	0.01 ng/m <sup>3</sup> (Annual)	6	0.05 ng/m <sup>3</sup> (24-hour)

# 2025 First Quarter Report – Ambient Air Quality Monitoring Program

Fourth Avenue – David Kyle Park Station (71082)							
Parameter	Units	Maximum	Minimum	Arithmetic Mean (Quarterly)	Standard	Number of Excursions	Guideline, AAQC Criteria
<b>Continuous Parameters (Quarterly)</b>							
Total Reduced Sulphur (TRS) – 24 hour	ppb	2.79	0	0.99	5 ppb (24-hour)	0	5 ppb (24-hour)
Total Reduced Sulphur (TRS) – 10 minute	ppb	9.3	0	0.82	10 ppb (10-minute)	0	10 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 10 minute	ppb	14.5	0	0	67 ppb (10-minute)	0	67 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 1 hour	ppb	6.9	0	0	40 ppb (1-hour)	0	40 ppb (1-hour)
Sulfur Dioxide (SO <sub>2</sub> ) – 24 hour	ppb	2.80	0	2.80	100 ppb (24-hour)	0	100 ppb (24-hour)
Particulate Matter less than 10 microns (PM <sub>10</sub> ) – 24 hour	µg/m <sup>3</sup>	70.7	2.66	13.5	N/A	2	50 µg/m <sup>3</sup> (24-hour)
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> ) – 24 Hour	µg/m <sup>3</sup>	26.7	0.94	5.72	N/A	0	27 µg/m <sup>3</sup> (AAQC 24-hour)
<b>Non-Continuous Parameters (Quarterly)</b>							
Parameter	Units	Maximum	Minimum	Arithmetic Mean (Quarterly)	Standard	Number of Excursions	Guideline, AAQC Criteria
Total Suspended Particulate (TSP)	µg/m <sup>3</sup>	100	24.60	55.87	120 µg/m <sup>3</sup> (24-hour)	0	120 µg/m <sup>3</sup> (24-hour)
Total Suspended Particulate Metals	µg/m <sup>3</sup>	Various Parameters – No Excursions to Report					
Volatile Organic Compounds (VOCs) except Alpha-Pinene	µg/m <sup>3</sup>	Various Parameters – No Excursions to Report					
Volatile Organic Compounds (Alpha-Pinene)	µg/m <sup>3</sup>	302	0.14	78.55	N/A	1	270 µg/m <sup>3</sup> (24-hour)
Poly-cyclic Aromatic Hydrocarbons (Benzo(a)pyrene)	ng/m <sup>3</sup>	0.32	0.005	0.11	0.01 ng/m <sup>3</sup> (Annual)	2	0.05 ng/m <sup>3</sup> (24-hour)

# 2025 First Quarter Report – Ambient Air Quality Monitoring Program

West & Cathcart Station (71083)							
Parameter	Units	Maximum	Minimum	Arithmetic Mean (Quarterly)	Standard	Number of Excursions	Guideline, AAQC Criteria
<b>Continuous Parameters (Quarterly)</b>							
Total Reduced Sulphur (TRS) – 24 hour	ppb	4.13	0	0.71	5 ppb (24-hour)	0	5 ppb (24-hour)
Total Reduced Sulphur (TRS) – 10 minute	ppb	11.4	0	0.61	10 ppb (10-minute)	2	10 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 10 minute	ppb	70.5	0	0.94	67 ppb (10-minute)	1	67 ppb (10-minute)
Sulfur Dioxide (SO <sub>2</sub> ) – 1 hour	ppb	42.7	0	0.94	40 ppb (1-hour)	4	40 ppb (1-hour)
Sulfur Dioxide (SO <sub>2</sub> ) – 24 hour	ppb	13.7	0	13.7	100 ppb (24-hour)	0	100 ppb (24-hour)
Particulate Matter less than 10 microns (PM <sub>10</sub> ) – 24 hour	µg/m <sup>3</sup>	56.9	2.99	15.3	N/A	0	50 µg/m <sup>3</sup> (AAQC 24-hour)
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> ) – 24 Hour	µg/m <sup>3</sup>	23.8	1.67	6.57	N/A	0	27 µg/m <sup>3</sup> (AAQC 24-hour)
<b>Non-Continuous Parameters (Quarterly)</b>							
Total Suspended Particulate (TSP)	µg/m <sup>3</sup>	268	17.2	77.4	120 µg/m <sup>3</sup> (24-hour)	2	120 µg/m <sup>3</sup> (24-hour)
Total Suspended Particulate Metals (TSP Metals)	µg/m <sup>3</sup>	Various Parameters – No Excursions to Report					
Volatile Organic Compounds (for VOCs except Benzene, Alpha Pinene)	µg/m <sup>3</sup>	Various Parameters - No Excursions to Report					
Volatile Organic Compounds (Benzene)	µg/m <sup>3</sup>	7.83	0.08	1.21	0.45 (Annual)	1	2.3 µg/m <sup>3</sup> (24-hour)
Volatile Organic Compounds (Alpha-Pinene)	µg/m <sup>3</sup>	436	18.9	121	N/A	1	270 µg/m <sup>3</sup> (24-hour)
Poly-cyclic Aromatic Hydrocarbons (Benzo(a)pyrene)	ng/m <sup>3</sup>	17.90	0.01	3.07	0.01 ng/m <sup>3</sup> (Annual)	3	0.05 ng/m <sup>3</sup> (24-hour)



**ALGOMA**  
— STEEL INC. —

# Building a New Era in Steelmaking



# EAF Transformation Project Updates



Then

Now

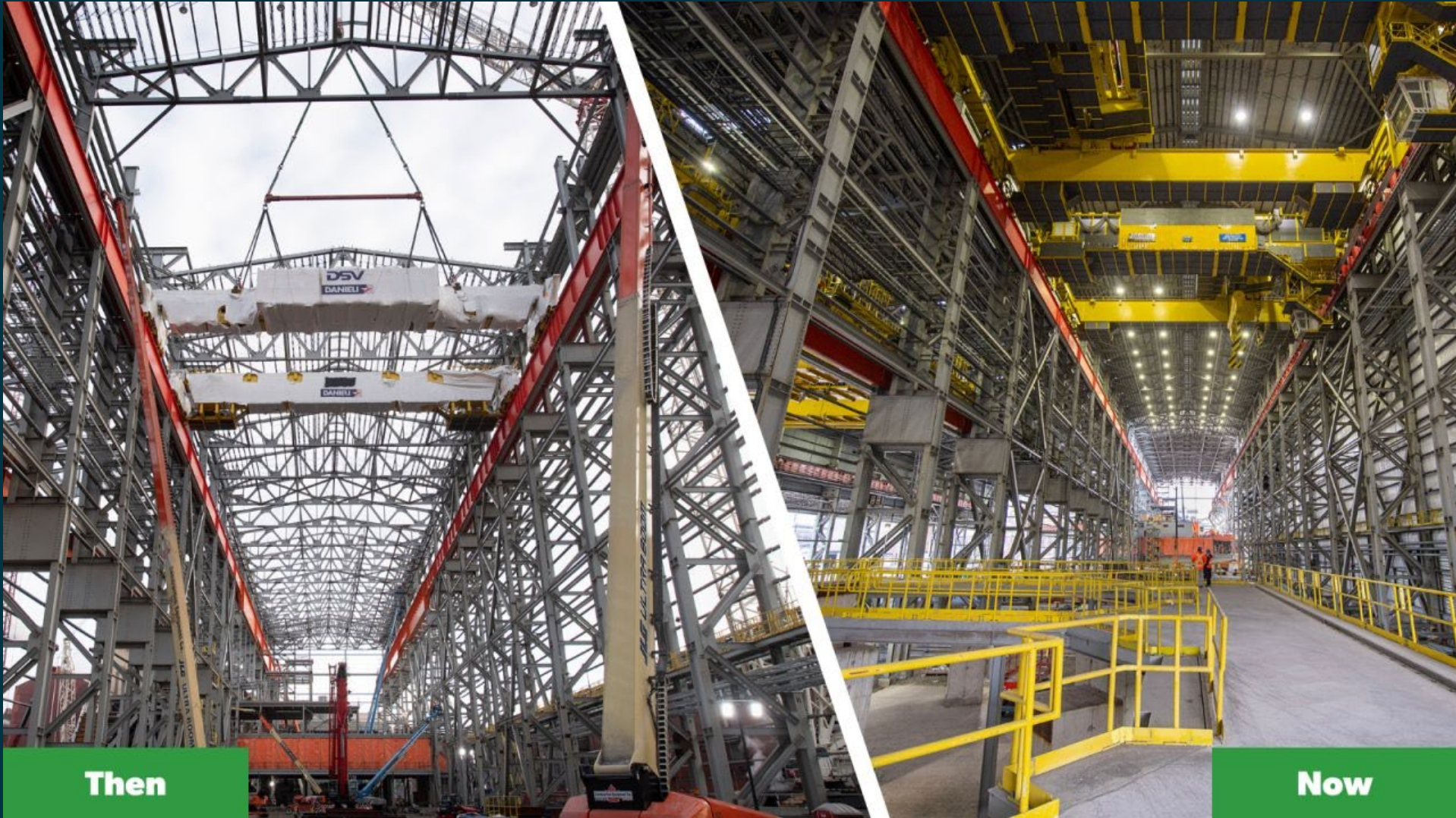
# EAF Transformation Project Updates



Then

Now

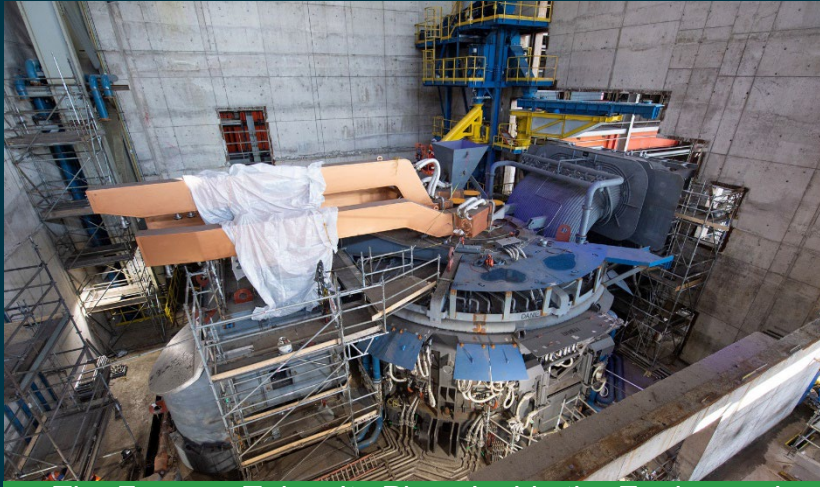
# EAF Transformation Project Updates



**Then**

**Now**

# EAF Transformation Project Updates



The Furnace Takes Its Place Inside the Engineered Furnace Enclosure



Water Treatment Plant Commissioned



Fume Treatment Plant Commissioned



EAF Electrical Substation Tested and Energized

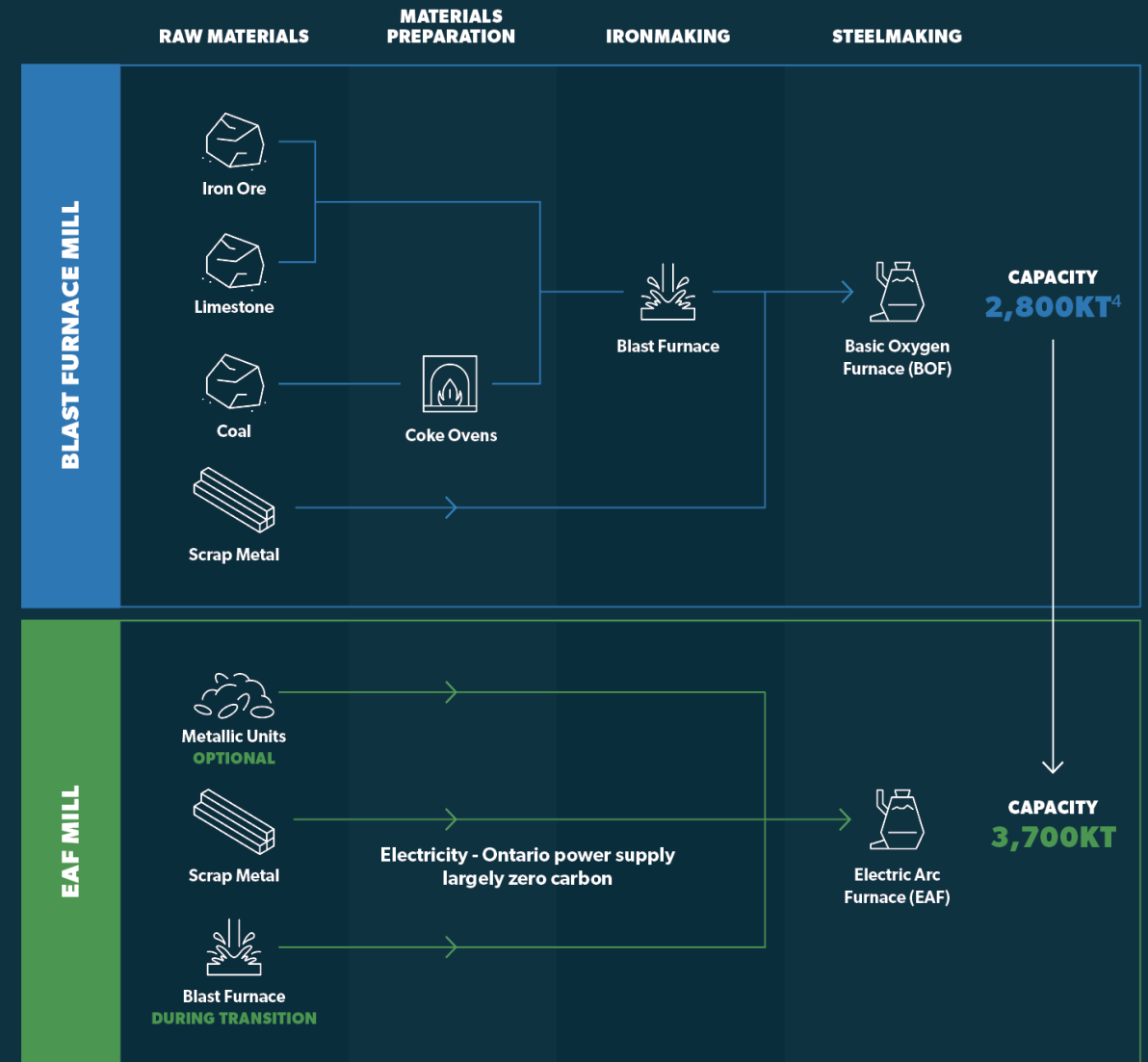
# A Generational Investment Unlocking Significant Value

## Expected Benefits

- Adds ~700kt of finished steel capacity aligning steelmaking capacity to rolling capacity.
- ~70% fewer total CO<sub>2</sub> emissions (annual reduction of 3 million tonnes of CO<sub>2</sub>).
- More flexible operations capable of responding dynamically to market conditions.
- Reduced sustaining CapEx.
- Improves employee productivity (as measured in tons per employee).

**Transforms Algoma Steel into a North American green steel producer.**

(4) Excludes BF#6 which is currently idled.



# EAF Local Economic Impact by the Numbers

**51**

Local Suppliers Engaged

**500**

Construction Jobs Created

**\$880M**

Project Commitments

Project spend as of March 31, 2025

**\$824M**

**\$213M**

Community spend as of May 31, 2025



# Algoma Steel's Shrinking Environmental Footprint: Long-Term Advantages of Electric Arc Steelmaking

		Reduction <sup>1</sup>	% Reduction
GHG EMISSIONS	CO <sub>2</sub>	3.0mm tonnes	70%
	CO <sub>2</sub> /NT PRODUCTION	1.33 tonnes	75%
SO <sub>x</sub> EMISSIONS		4,060 tonnes	82%
NO <sub>x</sub> EMISSIONS		1,604 tonnes	52%
STACK & FUGITIVE EMISSIONS		Complete elimination of Stack and Fugitive Emissions	100%

- Algoma expected to become one of the leading producers of green steel in North America.
- Improves competitiveness for government spending programs where ESG is a criteria.

- Improves profile with select customers who are similarly ESG focused.
- Improves employee engagement.
- Reduction of greenhouse gas emissions may provide for lower annual repayment on the SIF loan.



# Transition to Electric Arc Furnace Steelmaking: Environmental Compliance Approvals

**1** Environmental Compliance  
Approval 1920-DDDQCS for air and  
noise was issued on April 17, 2025.

**2** Environmental Compliance Approval  
5691-CJJKG54 for industrial sewage was  
issued on February 29, 2024.

These environmental compliance approvals cover all of the new equipment related to the EAF transition including both Electric Arc Furnaces, Fume Treatment Plant and Water Treatment Plant.



# EAF Air and Noise ECA Conditions

- 1) EAF Source Testing
- 2) Noise Abatement Projects and Acoustic Audits
- 3) Updated Best Management Plan for Fugitive Dust
- 4) Continuation of Ambient Air Quality Monitoring
- 5) Development of a Public Engagement Plan
- 6) Adherence to the Abatement Plan





# Alternate Standard Requests

## New Standards will govern the operating transition to electric arc steelmaking

- Algoma steel has prepared an Abatement Plan, which has been accepted by the MECP, to bridge the gap until an alternate standard is available under O.Reg. 419. The Abatement Plan is now a part of the EAF Environmental Compliance Approval.
- The Abatement Plan is an evolving emissions management plan which aligns with industry best practices and future requirements of the Industry Technical Standard.
- A separate ERO posting will be issued for the alternative standard when available and an ECA amendment will be required to align with the alternative standard.

We are proud to share that our EAF Melt Shop Building has received the Award of Excellence in the Institutional/Industrial Project category presented by the Canadian Institute of Steel Construction.



# Shoreline Stabilization, Sawmill Bay Dredging, and Site Greening

Algoma's shoreline stabilization project consists of a four year plan to **install 4.1 km of shoreline protection** along the St. Mary's River to prevent future erosion. As of December 2024, the project is valued at \$4.07 million.

The project will resume this summer with the placement of the clean rip-rap and armour stone. Dredging work was undertaken in September and will resume in 2025 to improve vessel access to Sawmill Bay Dock.

The Site Greening initiative is expected to proceed this summer in parallel with completing the armor stone placement. Clean soils are currently on site, and will be used to create seasonal surface water ponding areas, and naturalized green buffer strips vegetated with select native plants and tree species. The focus for the Site Greening initiative this year is along the River Road.



# Update on the Collaborative Algoma University Phytoremediation Project

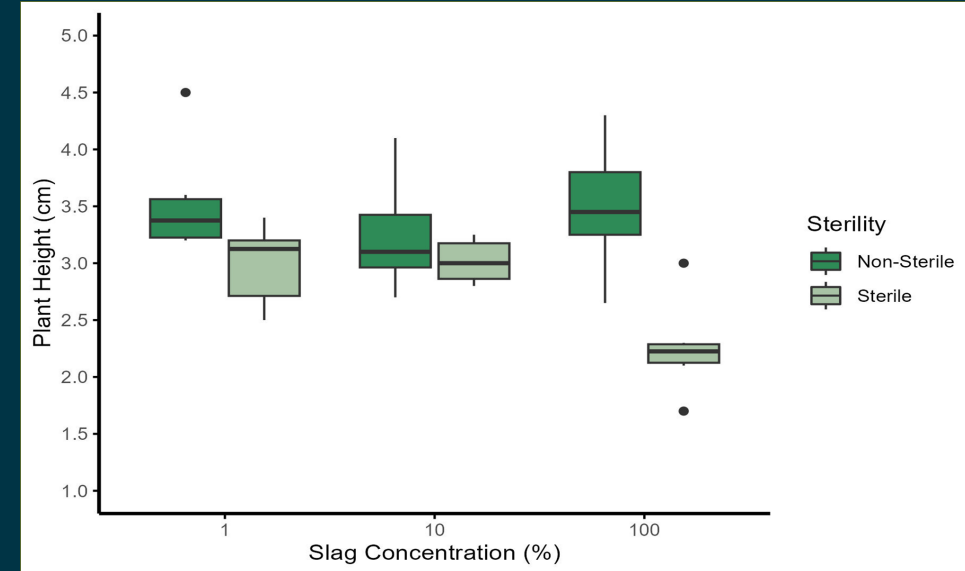
## Plant–microbe interactions in steel slag: can the slag microbiome drive growth outcomes?

**Study:** Quincy grew lettuce (a test plant) in soil mixed with different amounts of slag — both with and without microbes — to see what helped or hurt growth.

**Results:** Microbes made a difference. Plants grew better in non-sterile slag (with microbes) than in sterile slag. Surprisingly, the highest concentration of slag had the strongest microbial benefit.

**What's next?:** We're working on figuring out which microbes are doing the heavy lifting — and how they can help us use industrial waste in greener, smarter ways.

## Results

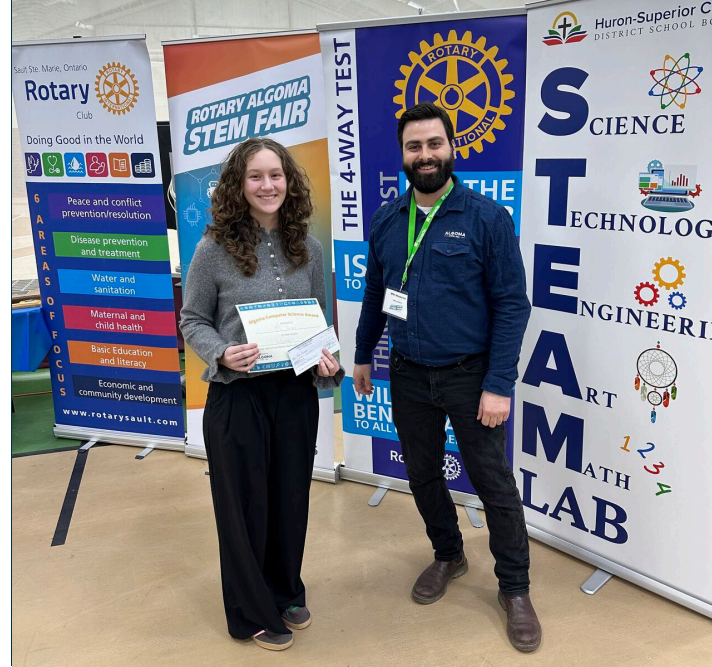


Box plot showing the effects of slag concentration and sterility on *L. sativa* height after 40 days ( $n = 6$ ). Plants in non-sterile slag grew significantly taller ( $3.4 \pm 0.20$  cm) than those in sterile slag ( $2.8 \pm 0.11$  cm;  $F_{1,35} = 20.8$ ,  $p < 0.001$ ). The two-way ANOVA revealed a significant sterility x slag concentration interaction ( $F_{2,35} = 4.1$ ,  $p < 0.03$ ), with the greatest microbial benefit at 100% slag.

# Community Engagement

Algoma Steel is committed to being a good neighbor.

- Quarterly Community Liaison Committee meetings.
- We were proud to once again sponsor and judge the Rotaryfest Science Fair.
- Algoma Steel was honoured to serve as the keynote speaker for the Jane Goodall: *Reasons for Hope* Educational Outreach Series, connecting with over 200 local students on the importance of Sustainability.
- We welcomed Grade 11 and 12 students from St. Mary's College's Manufacturing Process class for an engaging and educational site.
- Proudly sponsored the Economic Impact Award (Business and Individual categories) at the Chamber of Commerce Business Awards.



**Our next Community  
Open House will be  
held: Wednesday,  
June 11<sup>th</sup>, 2025 at  
Algoma Steel**

**We hope to see you  
there!**



# Community Liaison Committee – Next Meetings

Proposed Schedule:

- September 9<sup>th</sup> 2025
- December 2025
- March 2025