

RMG/SOUTHSIDE RECYCLING HIA Public Engagement Session #3

February 15, 2022



- Review of HIA Process
- Screening & Scoping
- Assessment
 - Existing Conditions
 - Potential Impacts of Southside Recycling
- Recommendations
- Monitoring & Evaluation
- Next Steps





- CDPH's citywide community health improvement plan
- Goal is to close the racial life expectancy gap: 9 years between Black and white Chicagoans, life expectancy declining for Latinx
- Focus on the <u>root causes of health</u> including institutional racism – and supporting community power in decision-making

6 STEPS OF THE HIA PROCESS

WHAT IS A HEALTH IMPACT ASSESSMENT?

A defined process that helps determine the potential effects of a proposed policy, plan, or project on health.

Source: Human Impact Partners. A Health Impact Assessment Toolkit: A Handbook to Conducting HIA, 3rd Edition 1. Screening Determines if an HIA is needed or valuable
 2. Scoping Mentifies the community impacted, potential health effects and key stakeholders
 3. Assessment Uses qualitative and quantitative methods to assess current health conditions and potential impacts

> 4. Recommendations Provides solutions to lessen or enhance health effects

5. Reporting Disseminates findings to key stakeholders, community members and decision makers

6. Monitoring and Evaluation

Tracks changes in health risks, health outcomes and changes in decision making



SCREENING

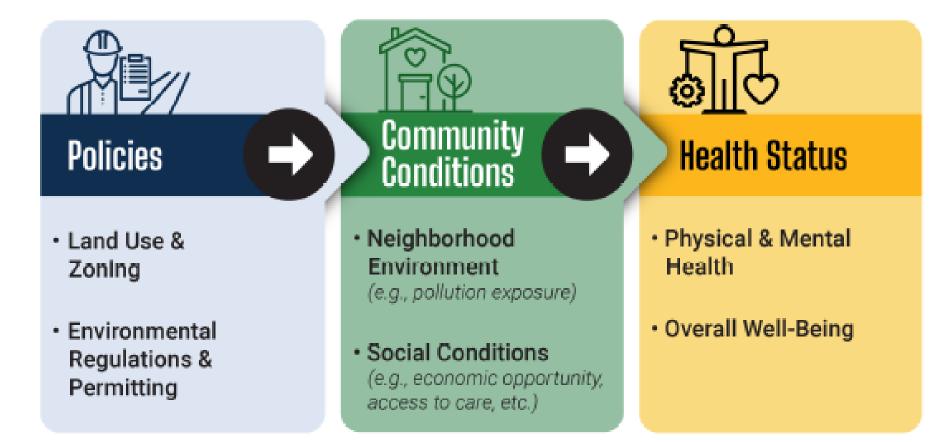


- The potential to explicitly consider environmental justice and health equity in the review of this permitting decision;
- The opportunity to comprehensively review pertinent data not limited to just environmental impacts of the permitted facility, but existing and potential environmental, social and health impacts;
- The support of U.S. EPA;
- CDPH authority to review applications to determine whether or not to grant permits, request additional information, and recommend special conditions or mitigation strategies in the event a permit is granted; and
- The opportunity to highlight broader recommendations for broader policy and process change and discuss these potential strategies with community partners.



SCOPING





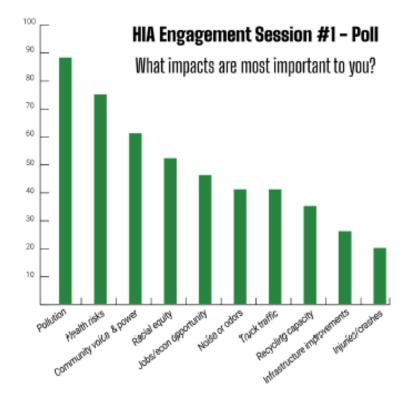


- What are the current community conditions on the Southeast Side?
- What are the **potential impacts** of the proposed Southside Recycling operations on the **environment**, **health**, **and quality of life** for Southeast Side residents?
- Who would **benefit** and who would be **burdened** by a decision to grant the permit? How could we minimize burdens and maximize benefits?
- What did we learn through this process about ways to **improve City and other policies and practices** to promote health and racial equity?

BACKGROUND: LARGE RECYCLING FACILITIES

- Collect and process automobiles, appliances, and other large items containing recyclable material, which they sell to other end users (e.g., manufacturers and foundries).
- **Benefits:** Keep metal materials out of the waste stream and landfills, and reduce the need for environmentally harmful mining activities.
- **Risks:** Unique operational risks include:
 - Reliance on suppliers to de-pollute and separate materials before processing
 - Nature of shredding process creates potential for particulate matter emissions, as well as possibility of explosions/fires

K POTENTIAL IMPACTS FOR ASSESSMENT





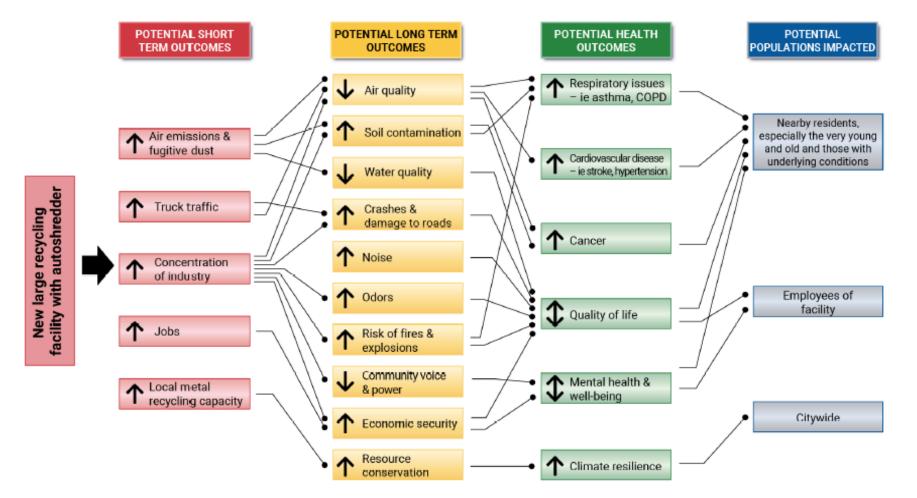














1.

Communities that with the greatest potential to be directly affected by pollution exposure.

2

Communities with the greatest potential to be directly affected by operational impacts such a truck traffic, noise, and odors.

3

Communities that expressed the greatest concern about t he Southside Recycling permit application during town halls and the public comment period.





-Modeling -Mitigation Plans -Traffic Study -Zoning Materials

PERMIT

APPLICATION

MATERIALS

COMMUNITY INPUT ANALYSIS

-2 town halls -4,000+ public comments -Media monitoring -Facilitated small group discussions and surveys EXISTING CONDITIONS ANALYSIS

-Public health data sets

-U.S. EPA Ambient Air Quality Report -ATSDR Health Consultation

(pending)

ENVIRONMENTAL AND HEALTH RISK ASSESMENT

> -Emissions inventory and calculations -On-site soil sampling

-On-site soli sampling -Risk modeling LITERATURE REVIEW

-Environmental justice and cumulative impact frameworks

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ASSESSMENT FINDINGS:

EXISTING CONDITIONS ON THE SOUTHEAST SIDE



EXISTING CONDITIONS ANALYSIS: SOCIAL FACTORS

INDICATOR	SOUTH DEERING	EAST SIDE	HEGEWISCH
People of Color			
Linguistic Isolation			
Economic Hardship			
Children			
Seniors			
Uninsured			
No Primary Care Provider			

Relative to All Chicago Communities





EXISTING CONDITIONS ANALYSIS: ENVIRONMENT

INDICATOR	SOUTH DEERING	EAST SIDE	HEGEWISCH
Toxic Releases			
Industrial Land Use			
Superfund Site Proximity			

Relative to All Chicago Communities



EXISTING CONDITIONS ANALYSIS: HEALTH

INDICATOR	SOUTH DEERING	EAST SIDE	HEGEWISCH
Life Expectancy			
Coronary Heart Disease			
Asthma			
COPD*			
Cancer			
Mental Health			
Physical Health			

Relative to All Chicago Communities

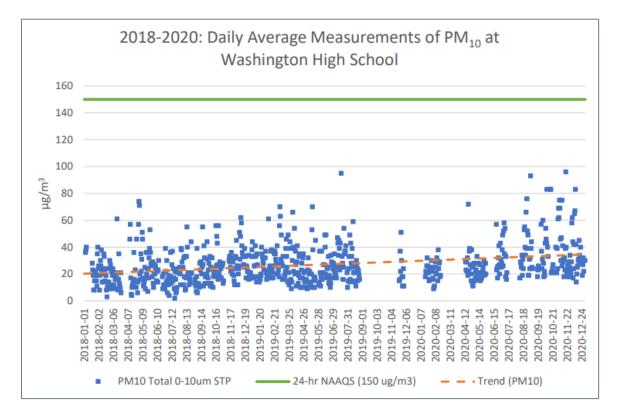


EXISTING CONDITIONS: U.S. EPA FINDINGS

Concentrations of pollutants measured at George Washington High School (closest federal air monitor):

- All measured pollutants have either decreased or remained the same when averaged over the past 10 years
- All measured pollutants have either decreased or remained the same when averaged over the past 3 years—with the exception of coarse particulate matter, which has risen over the past 3 years though it remains within the NAAQ standard

For the last 10 years, annual averages of all metals—like lead and manganese—have been within the long-term health benchmarks.

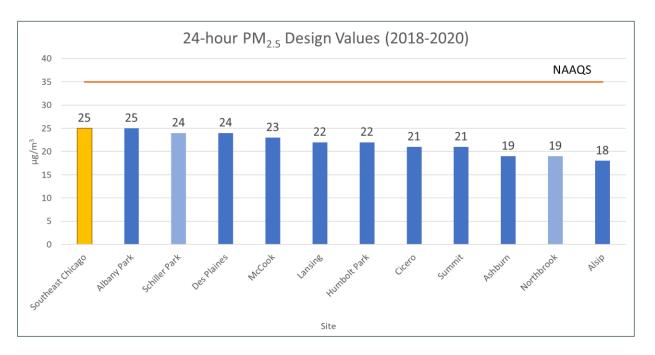


EXISTING CONDITIONS: U.S. EPA FINDINGS

Comparing Southeast Chicago's data to data collected at the other Chicago-area federal air monitors, Southeast Chicago is:

- tied for highest daily fine particulate matter (though within the NAAQ standard)
- in the middle for annual fine particulate matter (6th highest out of 12)
- in the middle for annual coarse particulate matter (2nd highest out of 3)

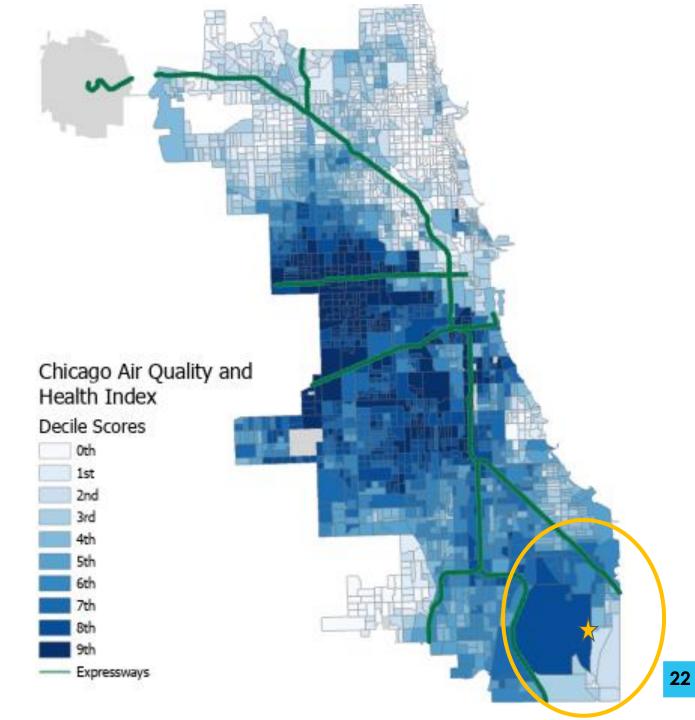
The most recent 12-month rolling averages of manganese near facilities where EPA required special monitoring are all within the long-term health benchmark.



Air Quality & Health Index

Combines community-level data on **air pollution**, **health**, <u>and</u> social factors to identify the areas in our city that are **more vulnerable** to the effects of air pollution.

More vulnerable areas are shown in **darker blue**.



EXISTING CONDITIONS: ATSDR HEALTH CONSULTATION

- CDPH is awaiting the final results of a Health Consultation conducted by the Agency for Toxic Substances and Disease Registry (ATSDR).
- This will characterize how <u>current exposure</u> to particulate matter and metals in the air are affecting the health of Southeast side residents – particularly those who live downwind of the proposed Southside Recycling facility.



ASSESSMENT:

POTENTIAL IMPACTS OF SOUTHSIDE RECYCLING

status quo

Negative

impact

HIA FINDINGS: QUALITY OF LIFE

Assessment Findings

Impact Rating

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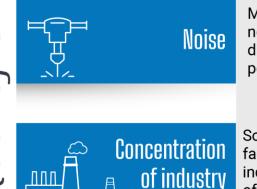


Traffic & street

conditions

During weekday morning peak hours, there would be 70 new trips (personal vehicles and trucks); at weekday evening peak hours, there would be 30 new trips. The traffic study shows that this would maintain an adequate level of service at nearby intersections.

Southside Recycling would employ in excess of 100 people (35 jobs currently unfilled). The company will prioritize hiring from the community and continue to support small recyclers, many of which are led by people of color.



Modeling indicates that the operations will not cause noise above standards outside of the manufacturing district boundary but did not account for noise from any potential explosions.

Southside Recycling would bring a new metal recycling facility to the area. This would continue a trend of industrial development rather than shift to a different type of land use as proposed by some community members.



Maintair Negative Positive Potentia Potentia Positive impact status quo negative impac impact (\bullet) O

Impact Rating

K HIA FINDINGS: ENVIRONMENT

Recycling Impacts Capacity **Explosions** Fires Environmenta Water Pollution Soil Pollution

Assessment Findinas

Under its current proposal, Southside Recycling has the capacity to process up to 500 tons per hour of obsolete metal products.

Explosions/fires are an inherent risk for any metal shredding operation. The permit application includes a Feedstock Management Plan and the RTO system is equipped with controls to prevent explosions. But the risk cannot be reduced to zero.

Industrial facilities on the riverfront pose a risk for pollution. Application includes a Stormwater Pollution Prevention Plan to reduce potential stormwater contamination. Facility treats water before it drains to the City sewers.

On-site soil sampling identified lead concentrations on the RMG property that exceed the industrial Removal Management Level. This presents a risk to workers as well as the potential for particles to be blown or tracked off the site.



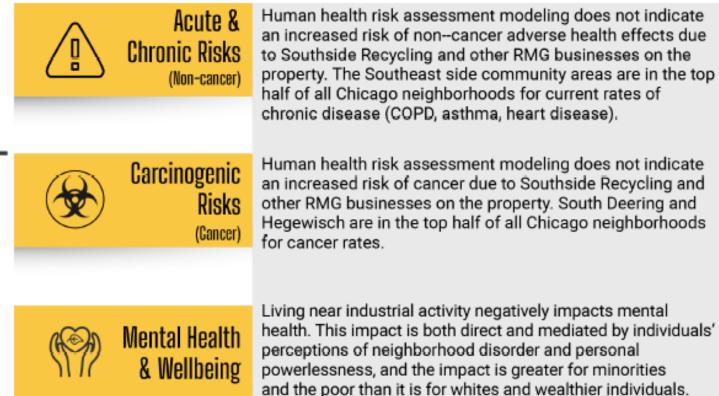
Emission sources at the site include the stockpiling, loading, and unloading of materials; onsite operations such as the crushing, shredding, screening, cutting scrap metal; and mobile equipment and vehicles. Emissions consist primarily of particulates, volatile organic compounds (VOCs), and other gases such as nitrogen oxides (i.e., NOx). Emissions from the shredder will be treated using various pollution control devices, including an RTO, roll-media filter, and scrubber. Dust controls include watering materials and cleaning pavements with a street-sweeper, dust cannons to suppress airborne dust as well as covered conveyors and dust collection and treatment systems. Even with controls in place, emissions are not entirely prevented.

 Positive mpact
 Potential Positive impact
 Maintain status quo e
 Potential negative impact
 Negative impact

 Image: Construction of the state of the state

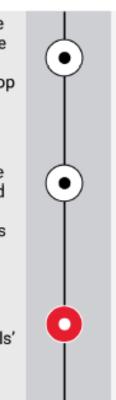
HIA FINDINGS: HEALTH

Health Impacts



Assessment Findings

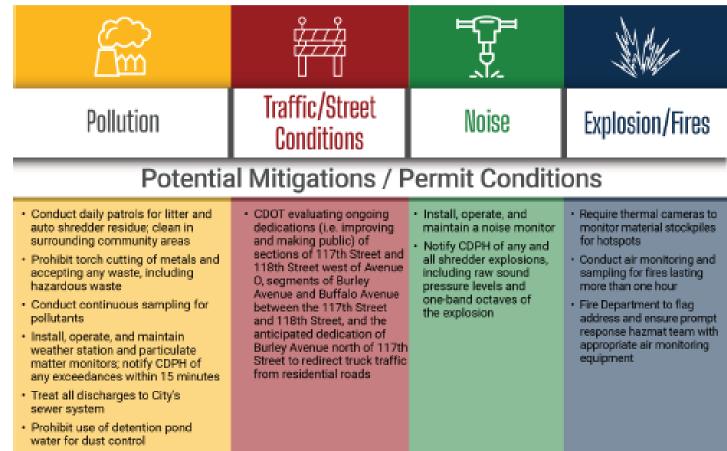
Impact Rating



27



- Current RMG
 commitments
- Additional permit conditions (would require company compliance)
- Do not address community concerns related to concentration of industry



RMG COMPLIANCE HISTORY

- As part of its permitting process for large recycling facilities, CDPH must evaluate the applicant's prior experience in recycling facility operations.
- We consider the history of compliance and any material threats to continued compliance.
- Through the HIA process, CDPH has identified apparent permit violations for other facilities on the RMG property. More information will be provided when our investigation is complete.



HIA RECOMMENDATIONS

POLICY & PROCESS CHANGES

The HIA includes recommendations prioritized by stakeholders to promote health and racial equity, including:

- Increase monitoring, enforcement, and environmental protections for the Southeast Side.
- Embed **cumulative impact** principles in zoning, permitting, and enforcement and engage the community in decision-making.
- Expand and enhance use of **health and racial equity impact assessments** to inform decision-making.

The HIA report will include a monitoring plan with indicators, actions and responsible parties to implement these recommendations.



MONITORING & EVALUATION



MINIMUM ELEMENTS OF HIA

Was the HIA conducted to assess the potential health consequences of a proposed program, policy, project, or plan under consideration by decision-makers, and was it conducted in advance of the decision in question?

Did the HIA involve and engage stakeholders affected by the proposal, particularly vulnerable populations?

Did the HIA systematically consider the full range of potential impacts of the proposal on health determinants, health status, and health equity?

Did the HIA provide a profile of existing conditions for the populations affected by the proposal, including their health outcomes, health determinants, and vulnerable subgroups within the population, relevant to the health issues examined in the HIA?

Did the HIA characterize the proposal's impacts on health, health determinants, and health equity, while documenting data sources and analytic methods, quality of evidence used, methodological assumptions, and limitations?

HIA PROCESS EVALUATION

MINIMUM ELEMENTS OF HIA

Did the HIA provide recommendations, as needed, on feasible and effective actions to promote the positive health impacts and mitigate the negative health impacts of the decision, identifying, where appropriate, alternatives or modifications to the proposal?

Did the HIA produce a publicly accessible report that includes, at minimum, documentation of the HIA's purpose, findings, and recommendations, and either documentation of the processes and methods involved, or reference to an external source of documentation for these processes and methods? Was the report shared with decision-makers and other stakeholders?

Did the HIA propose indicators, actions, and responsible parties, where indicated, for a plan to monitor the implementation of recommendations, as well as health effects and outcomes of the proposal?









- <u>HIA summary report</u> will be published by end of week at <u>www.chicago.gov/city/en/sites/rmg-expansion/home/health-</u> <u>impact-assessment.html</u>.
 - Additional assessment components (including Community Input Analysis, Existing Conditions Assessment, Environmental & Health Risk Assessment, and final ATSDR Health Consultation) posted by February 28.
- Permit decision to be announced at same time. Factors include:
 - Extent of current **community burden and vulnerability**
 - Extent of **potential benefits** to Southeast Side residents
 - Extent of <u>potential negative impacts</u> on environment, health, and quality of life that cannot be adequately addressed through <u>mitigations</u>
 - Actions of the company, including **compliance history**



Q&A