

# Advisory Committee

## Solid Waste Management Plan for Lincoln and Lancaster County (Solid Waste Plan 2040)

February 12, 2013



Solid Waste Management Plan for Lincoln and Lancaster County

 **Solid Waste Plan 2040** 

# Purpose of the Plan

*The Solid Waste Plan 2040 will be a guidance document, communication tool, and resource for policy decisions regarding solid waste management systems, facilities, and programs.*

# Agenda

1. Public Meeting Law Acknowledgement & Safety Briefing
2. Call Meeting to Order
3. Roll Call
4. Approve Meeting Minutes from December 11, 2012
5. December 11 Meeting Housekeeping
  - a) How is 18 percent MSW recycling calculated & EPA Methods
  - b) Group Question Summary
6. Module Topics
  - a) Collection System
  - b) Transfer Station and Processing Facilities
  - c) Markets
7. Committee Questions and Discussions

**BREAK**

# Agenda

## BREAK

8. Public Participation
9. Process for Developing Recommendations
10. Interactive Discussion
11. Committee Questions and Discussions
12. Next Advisory Committee Meeting
  - a) Timing, Topics and Notification
13. Public Comment (final 15 minutes)
14. Close Meeting

# Housekeeping – Recycling Rate

## How is 18 % MSW Recycling Calculated:

- $18\% = \frac{\text{Total Diverted}}{(\text{Total Diverted} + \text{Total MSW Disposed})}$

## USEPA Calculation Methods

- Material Flow method vs. Site-Specific method
- USEPA *Measuring Recycling A Guide for State and Local Governments*

# Housekeeping – Group Questions Summary

## Group Questions Summary from December 11, 2012 Meeting

# Topics Modules

## Topics

- Collection System
- Transfer Station and Processing Facilities
- Markets (for recovered/recycled materials)



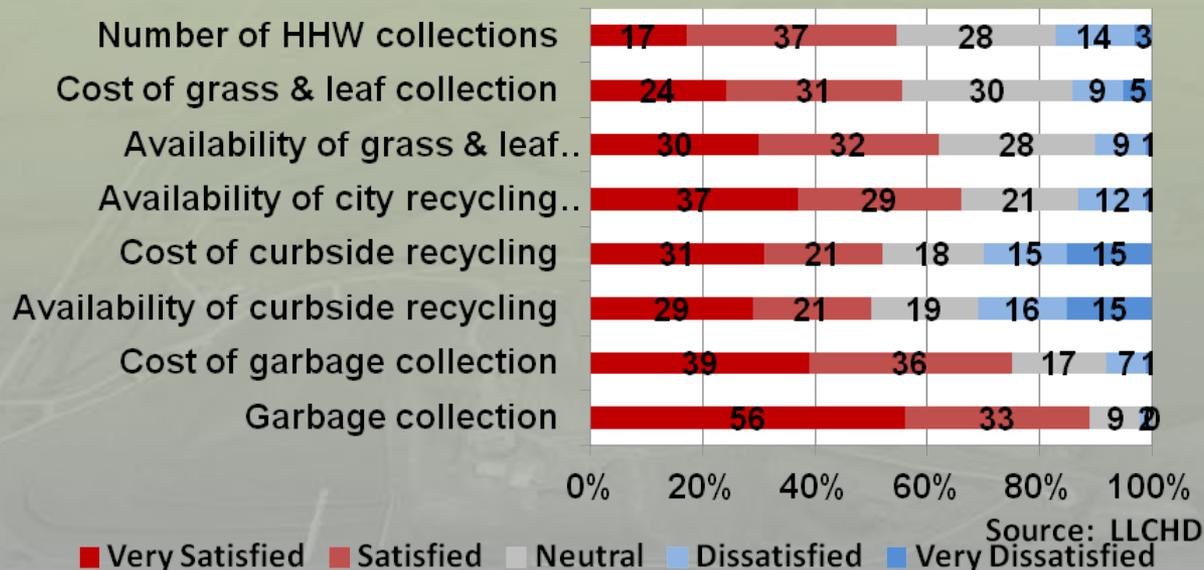
# Collection System

- Satisfaction rates are high with current garbage collection services

## Q7. How satisfied are you with:

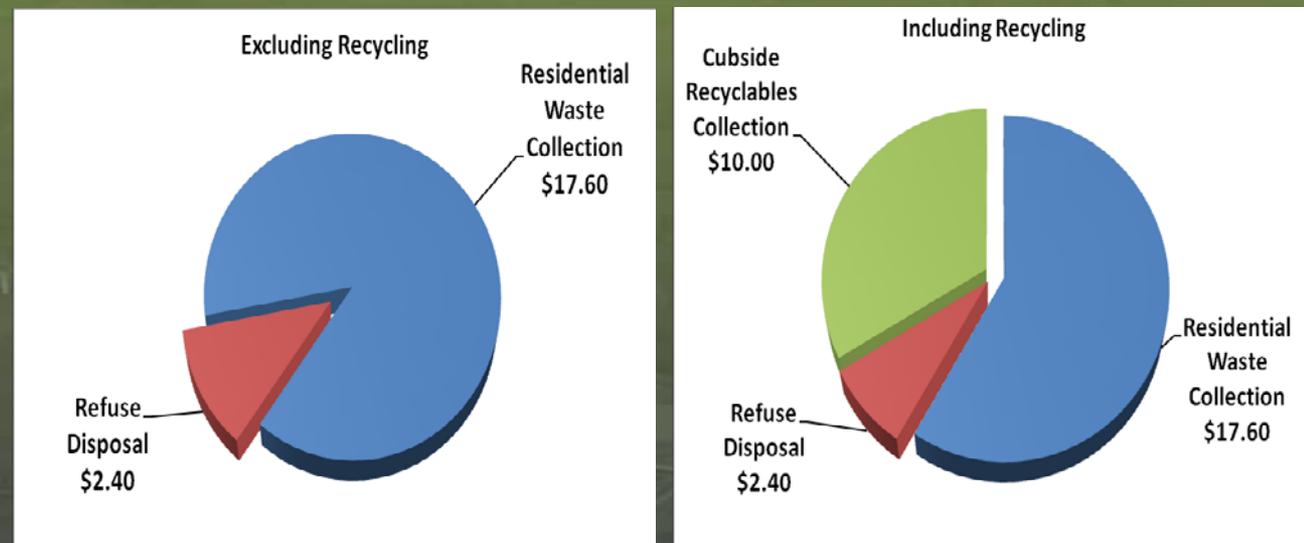
(not showing don't know responses)

Source: LLCHD 10/12



# Collection System

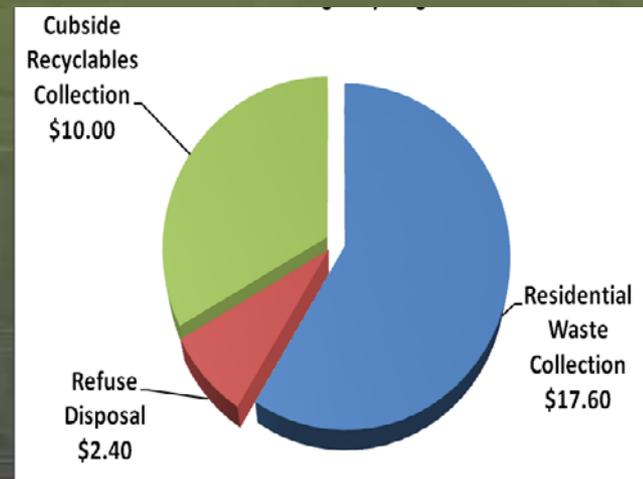
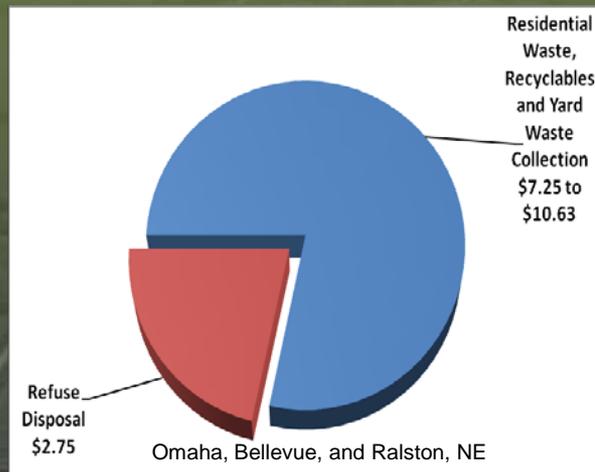
- Collection services are funded directly by users
- The most significant cost component for residential garbage service is collection and hauling



Average Monthly Residential Collection Service Costs – In Lincoln

# Collection System

- Current services are provided on free market basis
- Rates in Lincoln are higher than communities with organized collection programs
- Cost reductions can be achieved through franchises or municipal contracts



Avg. Monthly Res. Collection Costs In Other Nebraska Communities

# Transfer Stations and Processing Facilities

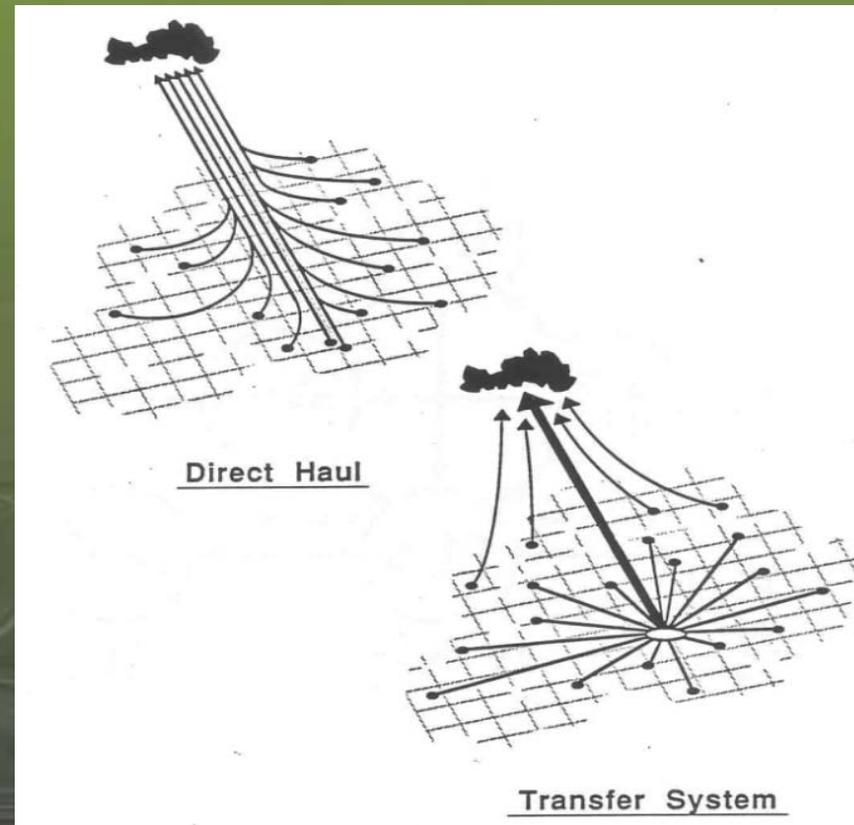
City's North 48<sup>th</sup> Street Transfer Station accepts only small vehicles

Three private waste processing facilities support recycling service providers



# Transfer Stations and Processing Facilities

- Conceptually a transfer station in the southern third of the City may be cost effective
- Conceptually there are benefits to co-locating transfer stations and processing or other diversion facilities



# Transfer Stations and Processing Facilities

- Transfer stations often serve many purposes:
  - Cost savings
  - Control expense
  - Traffic mitigation
  - User convenience
  - Waste screening
  - Facilitate recycling
  - Reduce air emissions
  - Others



# Markets

Markets are affected by:

- Volume of material recovered
- Market demand
- Consumer demand
- Raw material availability, quality and cost

The above factors contribute to fluctuating prices

# Markets

Markets are essential to a successful waste reduction and recycling program

Planning Area materials are generally sent to brokers, which aggregate and ship materials to regional, national or international end users

Revenue is reduced by the costs for transportation and added processing and handling costs

Current outlet for recovered/recycled materials relies on private service providers and private markets (excluding yard waste)

# Markets

Local opportunities, may include:

- Papers
- Glass
- Plastics
- Compost

Role government may play in the support and development of markets:

- Market Incentives
- Market Development

# Markets - Issues

- Most markets are national/international
- Local markets for compost are not large revenue generators and compete with other programs
- Markets for food waste compost is not established
- Market prices for glass have been quite low in comparison to the cost of recovery, processing and transportation
- Prices can experience volatility (risk)
- Local market longevity/sustainability is a key issue

# Committee Questions & Discussion

## Housekeeping

- 18 percent recycling rate calculation
- Group Question Summary

## Collection System

## Transfer Stations and Processing Facilities

## Markets

# Purpose of the Plan

*The Solid Waste Plan 2040 will be a guidance document, communication tool, and resource for policy decisions regarding solid waste management systems, facilities, and programs.*

# Public Participation

Website: [lincoln.ne.gov](http://lincoln.ne.gov)

- keyword: solid waste plan

Social Media

- Facebook
- Twitter

Comment Line

- (402) 441-7738

City Agencies | MyAccount

City of LINCOLN NEBRASKA

Solid Waste Management Plan for Lincoln and Lancaster County

## Solid Waste Plan 2040

lincoln.ne.gov | Public Work and Utilities | Wastewater & Solid Wastes | Recycling & Solid Waste Operations | Solid Waste Plan 2040

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### Solid Waste Plan 2040

The development of a comprehensive, integrated solid waste management plan was identified as a strategy in the Lincoln-Lancaster County 2040 Comprehensive Plan (LPlan 2040). The Solid Waste Management Plan (Solid Waste Plan 2040) will be a guidance document, communication tool, and a resource for policy decisions. The Public Works and Utilities Department and the Lincoln-Lancaster County Health Department will facilitate the development of the Solid Waste Plan 2040. The planning process for Solid Waste Plan 2040 includes numerous opportunities for public participation and involvement.

**Next Advisory Committee Meeting:**  
Tuesday, October 9, 2012  
2:30 p.m. to 4:30 p.m.  
UNL - Lancaster County Extension Education Center  
444 Cherry Creek Road

CITY OF LINCOLN NEBRASKA | LANCASTER NEBRASKA | CITY OF LINCOLN PUBLIC WORKS & UTILITIES | HEALTH DEPARTMENT

Log on to <http://lincoln.ne.gov>  
Search: **solid waste plan**

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# Process for Developing Recommendations

Options

System  
Definition

Final Plan

# Options vs. System Definition vs. Final Plan

## Options

- Identifies a Preferred Path
- Used to create a System Definition

## System Definition

- Present to Public
- Refined for Final Plan Recommendations

## Committee Plan Recommendations:

- Not necessarily tied to the System Definition
- May include phased approach
- May include program specific goals

# Developing System Definition

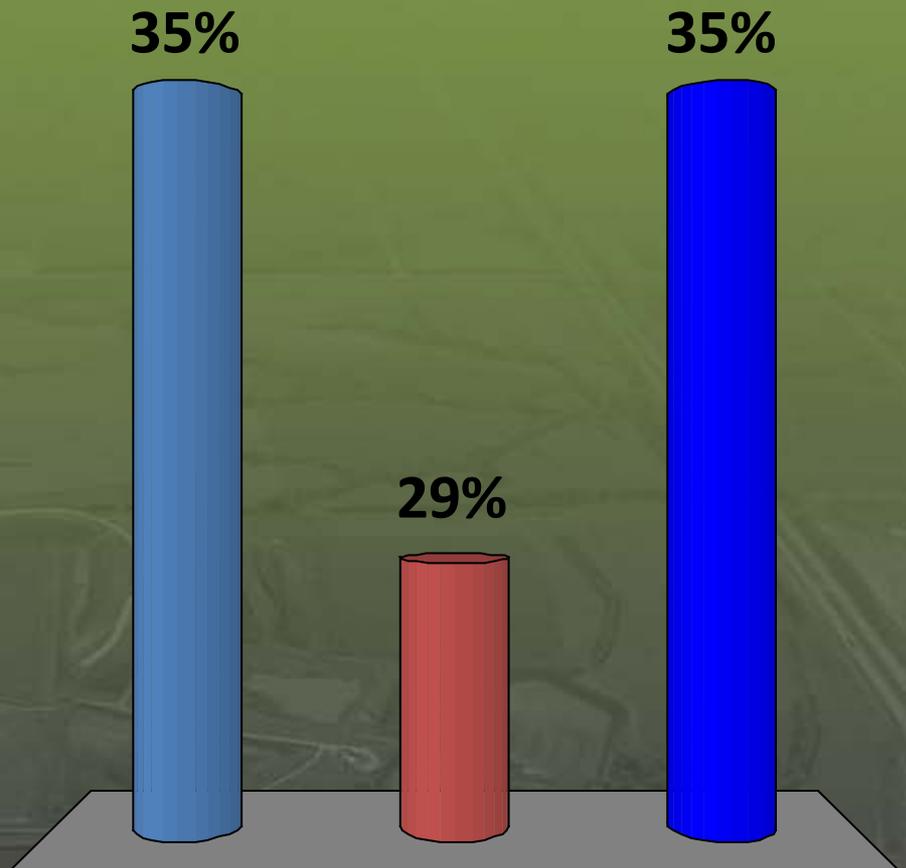
- Purpose
- Ground Rules
- Process



- What constitutes a majority?

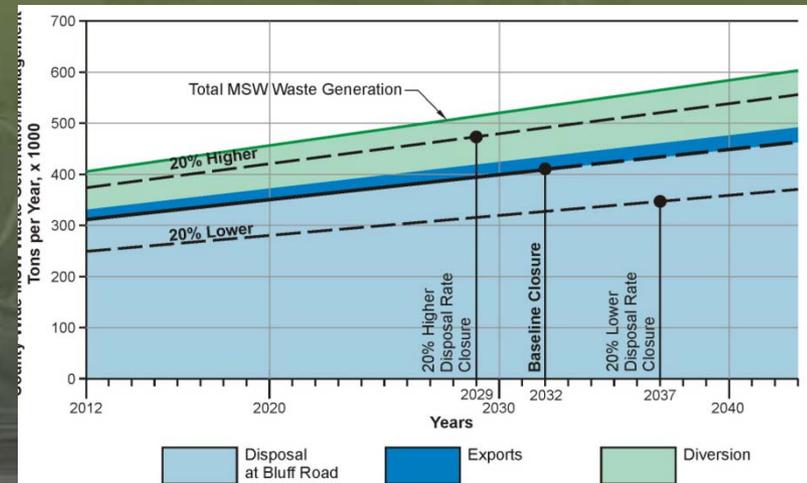
# Which flavor of ice cream do you prefer?

1. Chocolate
2. Vanilla
3. Strawberry

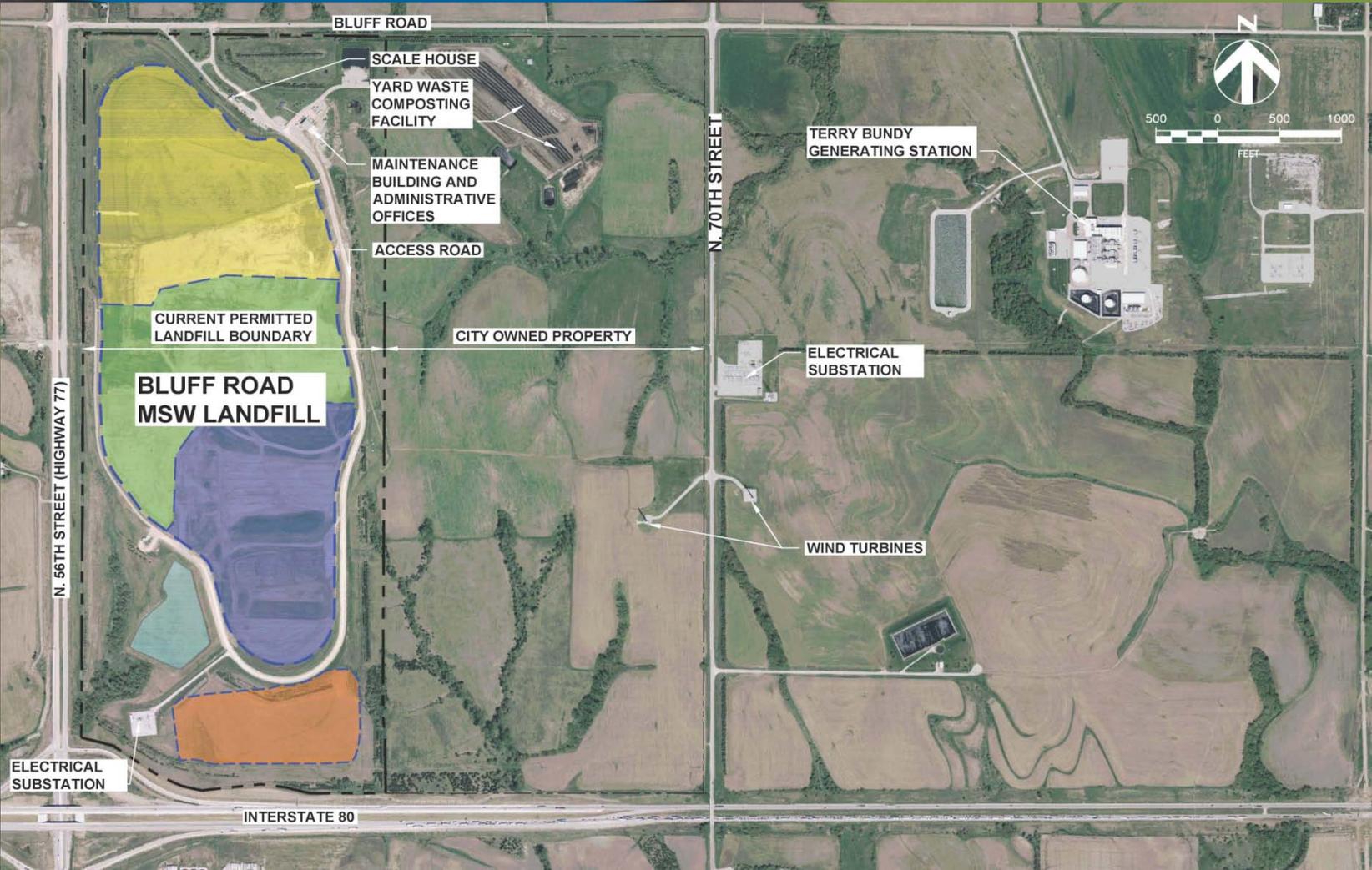


# Disposal – Municipal Solid Waste

- County/municipality shall provide safe and sanitary disposal of solid waste
- Remaining capacity of Bluff Road MSW Landfill
  - Approximately 20 years
- Siting new landfills is **DIFFICULT!**
- Considered necessary
- Typically lowest cost option
- Long-term liability



# Disposal – Municipal Solid Waste



# Municipal Solid Waste Disposal

## Issue:

Current Bluff Road MSW Landfill is projected to reach capacity in less than 20 years (e.g., 2032).

## Options:

- 1) Expand on City-owned property to the east of currently permitted site
- 2) Develop landfill at new location in the County

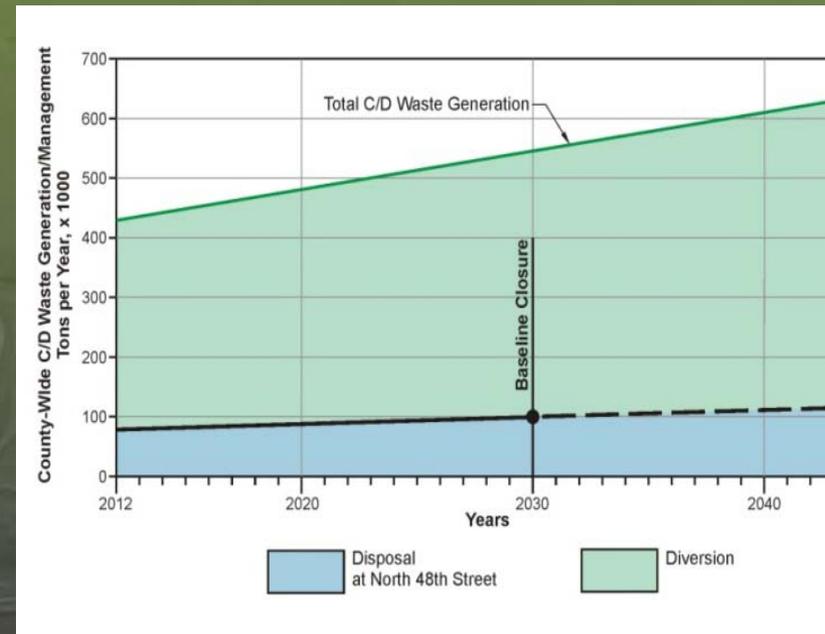
# Municipal Solid Waste Disposal - Polling

Option 1 – Expand on City property

Option 2 - New site in the County

# Disposal - Construction & Demolition Wastes

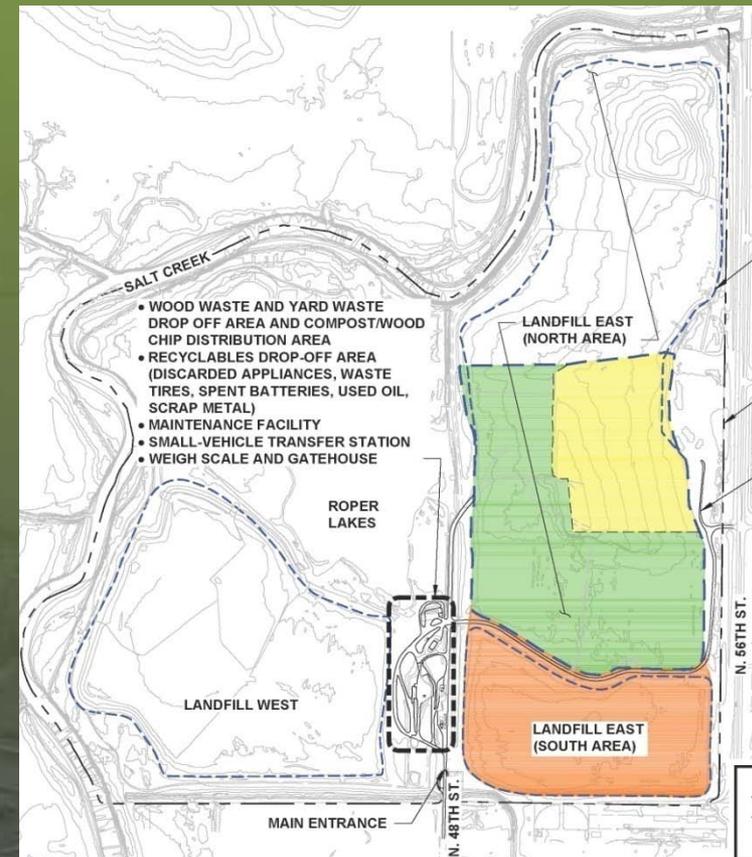
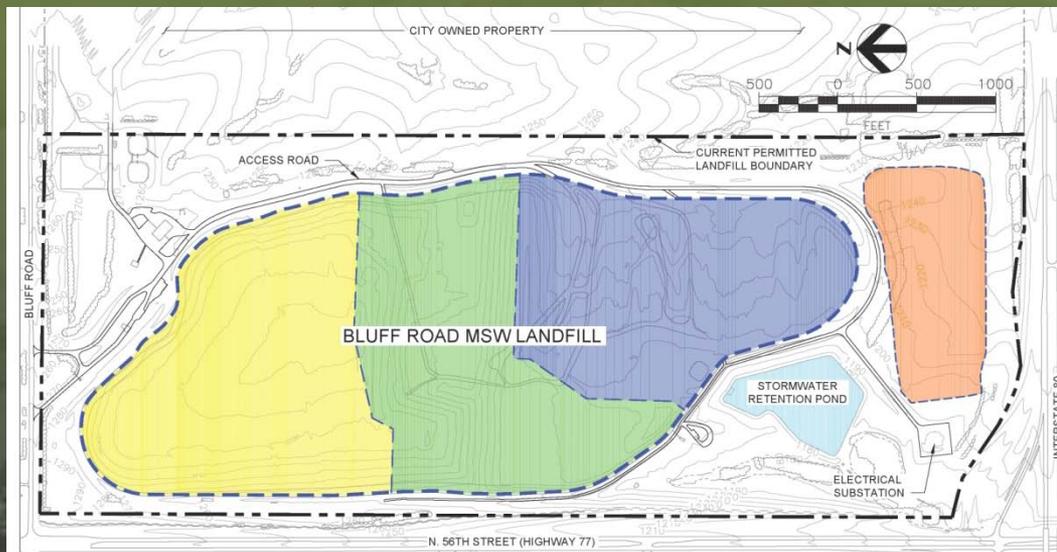
- Remaining capacity – Approximately 18 years
- Siting new landfills is **DIFFICULT!**
- Long-term Capacity Options
  - Expand on City Property
  - Develop New City Site in County
  - Discontinue City Provided Site (New Private C&D waste landfill)



# Disposal - Construction & Demolition Wastes

## Future Disposal Options - Existing City Sites

- Potentially easier to permit
- City-owned & properly zoned
- Necessary infrastructure



# Construction & Demolition Waste Disposal

## Issue:

Current North 48<sup>th</sup> Street C&D Waste Landfill is projected to reach capacity in less than 20 years (e.g., 2030).

## Options:

- 1) Expand on City-owned property:
  - a. South of the current N. 48<sup>th</sup> Street Disposal Area.
  - b. South of the current Bluff Road MSW Landfill Disposal Area.
- 2) Develop New City-owned C&D Waste Landfill at new location in the County.
- 3) Discontinue City-Provided C&D Waste Landfill and rely on privately developed C&D Waste Landfill(s).

# Construction & Demolition Waste Disposal - Polling

Option 1 – Expand on City Property

Option 2 – Develop New City Site in County

Option 3 – Discontinue City Provided Site

# Committee Questions & Discussion

## Process for Developing Recommendations

# Next Advisory Committee Meeting

## Next Meeting:

March 12, 2013

2:30 pm to 4:30 pm

Lincoln/Lancaster County Health Department  
Lower Level Training Room

## Topic:

- Process for Developing Recommendations

# Public Comment

- Guidelines:
  - State name and address
  - Limit your remarks to time allotted – 3 minutes
  - Show respect to the meeting attendees, Advisory Committee members, facilitator and presenter(s)
  - No foul language or inappropriate behavior
  - Follow standard rules of decorum

# Purpose of the Plan

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