Advisory Committee
Solid Waste Management Plan for Lincoln and Lancaster County (Solid Waste Plan 2040)
October 9, 2012
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.
1. Public Meeting Law Acknowledgement & Safety Briefing
2. Call Meeting to Order
3. Roll Call
4. Approve Meeting Minutes from September 11, 2012
5. Baseline Assessment/Survey
6. Recycling Overview
7. Recycling Topics
   a) Residential Recycling
   b) Commercial Recycling
   c) Construction and Demolition Materials Recycling
8. Committee Questions and Discussions

BREAK
Agenda

**BREAKE**

9. Recycling Topics (continued)
   a) Recycling Incentives
   b) Organic Waste Diversion (Composting)
10. Needs Assessment
11. Public Participation
   a) News Release(s) / Newsletter(s)
12. Revised DRAFT Plan Goals
13. Committee Questions and Discussion
14. Next Advisory Committee Meeting
   a) Timing, Topics and Notification
15. Public Comment (final 15 minutes)
1. Close Meeting
Baseline Assessment/Survey

- 411 Lincoln households were surveyed by phone in August 2012.
- The sample was “weighted” by LLCHD
Q1. How often is your garbage collected by a private waste hauler each week?

- Once per week: 57%
- Twice per week: 36%
- I haul my own: 5%
- Don't know: 2%

Source: LLCHD October 2012
Q1a. How much do you pay per month for garbage service?

- Gave a dollar amount: 66%
- Don't know: 34%

Mean = $23.64
Median = $20.00

Source: LLCHD October 2012
Baseline Assessment/Survey

Bell Curve of Cost for Garbage Service (weighted data)

Source: LLCHD October 2012

Mean = 23.64
Std. Dev. = 10.209
Baseline Assessment/Survey

Q2. Do you recycle aluminum cans, newspaper, cardboard, plastic, or tin cans?

Q2a. Do you have curbside collection of recyclables?

- Yes 66%
- No 34%

Thus, about 24% of households have curbside collection of recyclables.

Source: LLCHD October 2012
Q2a.a. How much do you pay per month for curbside recycling?

- Gave a dollar amount: 70%
- Don't know: 30%
- Mean = $12.21
- Median = $10.00

Source: LLCHD
October 2012
Baseline Assessment/Survey

Q2. Do you recycle aluminum cans, newspaper, cardboard, plastic, or tin cans?

Q2b. Do you take your recyclables to a city/county recycling drop off site?

- Yes: 66%
- No: 34%
- Yes: 85%
- No: 15%

Thus, about 56% use city/county recycling drop off sites.

Source: LLCHD October 2012
Q2d. Do you think curbside collection of recyclables should be offered to every home in Lincoln as part of the basic garbage collection services?

No 15%

Yes 85%

Source: LLCHD
October 2012
Q3. When your yard is mowed, which one of the following happens to the grass clippings?

- Let them fall on yard or use a mulching mower: 40%
- Compost or mulch on my own property: 25%
- Bag them & have them picked up by garbage hauler: 22%
- Hauled away by lawn service company: 7%
- Other: 6%

Source: LLCHD October 2012
Q4. When you have leaves to get rid of in the fall, what do you do with the leaves?

- Bag them & have them picked up by garbage hauler: 31%
- Hauled away by a lawn service company: 7%
- Compost or mulch on my own property: 22%
- Wait until winter & put out with my regular garbage: 5%
- Let them fall on yard or use a mulching mower: 19%
- Other: 16%

Source: LLCHD October 2012
Q5. The health department holds at least six household hazardous waste collection events each year. Have you ever taken household hazardous waste to one of these events?

- Yes: 42%
- No: 58%

Source: LLCHD October 2012
Q6. Do you think a building should be constructed to accept household hazardous waste year round?

Yes 69%

No 31%

Source: LLCHD
October 2012
Q7. How satisfied are you with the following services

Source: LLCHD 10/12

- Number of HHW collections: Very Satisfied 17, Satisfied 37, Neutral 28, Dissatisfied 14, Very Dissatisfied 3
- Cost of grass & leaf collection: Very Satisfied 24, Satisfied 31, Neutral 30, Dissatisfied 9, Very Dissatisfied 5
- Availability of grass & leaf collection: Very Satisfied 30, Satisfied 32, Neutral 28, Dissatisfied 9, Very Dissatisfied 1
- Availability of city recycling: Very Satisfied 37, Satisfied 29, Neutral 21, Dissatisfied 12, Very Dissatisfied 1
- Cost of curbside recycling: Very Satisfied 31, Satisfied 21, Neutral 18, Dissatisfied 15, Very Dissatisfied 15
- Availability of curbside recycling: Very Satisfied 29, Satisfied 21, Neutral 19, Dissatisfied 16, Very Dissatisfied 15
- Cost of garbage collection: Very Satisfied 39, Satisfied 36, Neutral 17, Dissatisfied 7, Very Dissatisfied 1
- Garbage collection: Very Satisfied 56, Satisfied 33, Neutral 9, Dissatisfied 2, Very Dissatisfied 2
Recycling Topics

- Overview
- Residential Recycling
- Commercial Recycling
- Construction & Demolition Materials Recycling
- Recycling Incentives
- Organic Waste Diversion (Composting)
1) Collecting materials
2) Sorting and processing into raw materials that can be used to produce new products
3) Purchasing recycled product

• Objectives:
  – Turns materials that would otherwise become waste into valuable resources

Markets are Key to Success

Solid Waste Management Plan for Lincoln and Lancaster County
Solid Waste Plan 2040
Solid Waste Includes

- Total Waste
  - Municipal Solid Waste (MSW)
    - Residential
    - Commercial (multi-family, businesses, industry and institutions)
    - Recycled and Composted (Residential & Commercial)
  - Construction and Demolition (C&D) Waste
    - C &D Waste Disposed
    - C &D Waste Recycled/Diverted
  - Diversion
Disposal and Diversion - 2011

**Total Waste Generation**
- Diversion, 44%
- Waste Exported, 3%
- Waste Disposed in County, 53%

**Total C&D Waste Generation**
- Diversion, 75%
- Waste Disposed in County, 25%

**Total MSW Generation**
- Diversion, 18%
- Waste Exported, 5%
- Waste Disposed in County, 77%

Diversion % includes Yard Waste
Composition (from NDEQ Study)

Distribution by Weight

- Total Paper Fibers: 44.11%
- Total Plastics: 19.47%
- Total Glass: 4.18%
- Total Metals: 3.20%
- Food: 16.02%
- Diapers: 3.07%
- Textiles/Rubber/Leather: 4.26%
- Yard Waste: 2.88%
- All Other Waste: 2.81%

Distribution by Volume

- Total Paper Fibers
- Total Plastics
- Total Glass
- Total Metals
- Food
- Diapers
- Textiles/Rubber/Leather
- Yard Waste

Solid Waste Management Plan for Lincoln and Lancaster County
Solid Waste Plan 2040
Composition – NDEQ Recycling Potential

• Paper Fiber provides the Greatest Opportunities for Recovery/Recycling

• Recycling Potential – Readily Recoverable
  – 75% of the Metals
  – 50 - 60% of Plastics
    • 27% is PET #1 and HDPE #2

• Glass presents the greatest potential for reuse
  – Given its weight and limited value, these reuse needs tend to be localized
Residential Recycling

Current Systems and Diversion Rates

• Drop-off Centers – 3% of Residential MSW
• Curbside Collection – 5% of Residential MSW
• Yard Waste Composting – 10% of Residential MSW
• Buy-Back Centers – Unknown
Residential Recycling

Program Options

• Drop-off centers
• Buy-back centers – not evaluated
• Curbside collection
  – Free market
    • with minimum service ordinances
  – Franchising (exclusive or non-exclusive)
  – Contracts
• Deposit/refund programs
  – Generally requires statewide program
Commercial Recycling

Current System

• Drop-off Centers – Counted under Residential Waste; Participation Unknown
• Subscription and Buyback – 18 % of Commercial MSW
• Waste Audits/Education
Commercial Recycling

Program Options

• New construction (infrastructure) requirements

• Refuse hauler recycling service
  – Service is offered
  – Service must be provided

• Owner/Operator commercial recycling service
  – Minimum level of recycling services

• Processing facility
Construction & Demolition Materials Recycling

Current System

- C & D Processors – 75% of Total C&D Generation
- North 48th Street Construction and Demolition Waste Landfill
  - Not a Diversion Program
Construction & Demolition Materials Recycling

Program Options

• Regulatory Requirements
  – Mandatory recycling plans
  – Minimum diversion requirements for demo projects
  – Incorporation into disaster response plans

• Market and Diversion Incentives
  – Modify gov’t procurement/purchasing specifications
  – Require the use of recyclable materials
  – Targeted programs
  – Increased landfill fees
  – Disposal bans

• Construction Materials Recycling and Processing Centers
Committee Questions & Discussion

• Baseline Assessment Survey
• Residential Recycling
• Commercial Recycling
• Construction and Demolition Materials Recycling
Agenda

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   b) Organic Waste Diversion (Composting)
9. Needs Assessment

10. Public Participation
    a) News Release(s) / Newsletter(s)

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    a) Timing, Topics and Notification

14. Public Comment (final 15 minutes)

15. Close Meeting
Recycling – Incentives

**Current System**

- Educational & Promotion
- Recycling Drop-off Centers (No charge drop-off sites)
- Waste Audits to Commercial Business
- Material Reuse (via not-for-profits)
- Subsidies (via Occupation Tax and Grants)
- Toxics Reduction through HHW (No charge) and CESQG programs (limited charges)
- Waste exchanges and reuse options
- Assistance with cleanup and mini-grants
- Take back programs by businesses
Recycling - Incentives

Program Options

• Education

• Availability/Access/Convenience

• Fees/Rates
  – Single fee systems
  – Pay-as-you-throw (volume based rates)

• Bans, Restrictions and Mandates
  – Building Specification
  – Demolition and Deconstruction
  – Utilization of Recycled Materials

• Grants or Subsidies
Organic Waste Diversion (Composting)

Current System

- Food Programs (Source Reduction)
- Paper Fibers (Recycling)
- Yard and Wood Waste
  - Christmas Tree Recycling
  - Composting – Bluff Road
  - Drop-off – North 48th Street
  - Curbside Recycling – Voluntary/Subscription
- Livestock Waste Composting

Food Recovery Hierarchy

- Source Reduction
- Feed Hungry People
- Feed Animals
- Industrial Uses
- Composting
- Incineration or Landfill
Organic Waste Diversion (Composting)

Program Options

• Marketing

• Collection and Recovery
  – Wet/Dry Systems
  – Sanitary Sewer Collection Systems

• Composting or Digestion
  – Aerobic Organic Waste Composting
  – Anaerobic Organic Waste Digestion/Composting

Food Recovery Hierarchy

- Source Reduction
- Feed Hungry People
- Feed Animals
- Industrial Uses
- Composting
- Incineration or Landfill
Needs Assessment

Landfill Site Life - Preliminary

Bluff Road  North 48th Street
Public Participation - Update

Activities since last meeting:

• City Press Release - October 5
• Newsletter - October 8
Needs Assessment - Public Participation

Open House

• Live Meeting – Nov. 13
  – 6:00 to 8:00 PM
  – Lincoln/Lancaster County Health Department
    Lower Level Training Room

• On-Line Meeting – Nov. 6 through Nov. 20
  – Link will be provided on website
Needs Assessment - Public Participation

Outreach:
- Electronic Newsletter
- Press Release
- Social Media
- Toll Free Phone Line

Meeting Materials:
- Display Boards
- Comment Forms
Public Participation

Website: lincoln.ne.gov
  – keyword: solid waste plan

Social Media
  – Facebook
  – Twitter

Information Line
(402) 441-7738

Log on to http://lincoln.ne.gov
Search: Solid Waste Plan
Committee Questions & Discussion

Recycling Incentives
Organic Waste Diversion (Composting)
Needs Assessment
Public Participation
Revised Plan Goals
Next Advisory Committee Meeting

Next Meeting:
November 13, 2012
2:30 pm to 4:30 pm
Lincoln/Lancaster County Health Department
Lower Level Training Room

Topic:
• Needs Assessment

Needs Assessment Open House: November 13, 2012
6:00 to 8:00 PM - Lincoln/Lancaster County Health Department- Lower Level Training Room
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