

## **Clemm, Hallie (DPW)**

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**From:** Weaver, Zachary D. (EOM)  
**Sent:** Monday, March 18, 2013 11:02 AM  
**To:** Grant, Linda P. (DPW); Yuckenberg, Jason (EOM); Howland, William (DPW)  
**Cc:** Marshall, Karim (DDOE); Clemm, Hallie (DPW); Davis, Christine (DPW)  
**Subject:** RE: Waste to energy hearing  
**Attachments:** 2013-03-18 (Waste to Energy Roundtable).docx

Attached.

ZDW

Zachary D. Weaver  
Policy Analyst, Office of Policy and Legislative Affairs  
Executive Office of Mayor Vincent C. Gray  
Government of the District of Columbia  
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1350 Pennsylvania Avenue, NW  
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202-340-7929 (cellular)  
[ZacharyD.Weaver@dc.gov](mailto:ZacharyD.Weaver@dc.gov)

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**From:** Grant, Linda P. (DPW)  
**Sent:** Thursday, March 14, 2013 4:03 PM  
**To:** Weaver, Zachary D. (EOM); Yuckenberg, Jason (EOM); Howland, William (DPW)  
**Cc:** Marshall, Karim (DDOE); Clemm, Hallie (DPW); Davis, Christine (DPW)  
**Subject:** RE: Waste to energy hearing

Hi, there: Here is DPW's testimony. Please forward the witness list. Thanks. Linda

Linda Grant  
Public Information Officer  
DC Department of Public Works  
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[www.dpw.dc.gov](http://www.dpw.dc.gov) VISIT US ON FACEBOOK!  
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**From:** Weaver, Zachary D. (EOM)  
**Sent:** Thursday, March 14, 2013 2:25 PM  
**To:** Yuckenberg, Jason (EOM); Howland, William (DPW)  
**Cc:** Marshall, Karim (DDOE); Grant, Linda P. (DPW)  
**Subject:** FW: Waste to energy hearing

FYI...

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**From:** William Pickering [<mailto:William.Pickering@dcwater.com>]  
**Sent:** Thursday, March 14, 2013 2:18 PM  
**To:** Weaver, Zachary D. (EOM)  
**Subject:** RE: Waste to energy hearing

Hi Zachary,

The attached testimony is what we plan to present on Monday. Let me know if you have any questions.

Thanks,

Will

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**From:** Weaver, Zachary D. (EOM) [<mailto:zacharyd.weaver@dc.gov>]  
**Sent:** Tuesday, March 12, 2013 9:36 AM  
**To:** William Pickering  
**Subject:** RE: Waste to energy hearing

*I have no objections; when you get a chance can you send me a copy of testimony. I know that DPW will be providing testimony; However, I don't have a copy at this time.*

ZDW

**MONDAY, MARCH 18, 2013**

- **11 AM, ROOM 500, COUNCIL CHAMBER, OVERSIGHT ROUNDTABLE, COMMITTEE  
ON  
TRANSPORTATION AND THE ENVIRONMENT, Mary Cheh, Chairperson**

**“Study of a Waste-to-Energy Facility in the District”.** This roundtable will afford the public an opportunity to comment on this initiative and will allow DPW to discuss the process for this study and the District’s long-term waste management plans.

**Recommended Executive Agency**

Department of Public Works

Zachary D. Weaver  
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**From:** William Pickering [<mailto:William.Pickering@dcwater.com>]  
**Sent:** Tuesday, March 12, 2013 9:09 AM  
**To:** Weaver, Zachary D. (EOM)  
**Subject:** Waste to energy hearing

Hi Zachary,

CM Cheh’s office asked us to provide testimony at next Monday’s waste to energy hearing. They would like us to discuss our digester project that will convert biosolids to renewable energy and reduce greenhouse gases. We believe the hearing will be a good opportunity to showcase our first of its kind project and increase awareness for the environmental initiatives at Blue Plains. Let me know if you have any concerns.

Thanks,

Will



**William Pickering** | Government Relations Manager | District of Columbia Water and Sewer Authority | [william.pickering@dcwater.com](mailto:william.pickering@dcwater.com)  
5000 Overlook Avenue, SW | Washington, DC 20032 | (202) 787-2081 | (202) 286-4923 (cell)

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COUNCIL OF THE DISTRICT OF COLUMBIA  
**COMMITTEE ON TRANSPORTATION & THE ENVIRONMENT**  
MARY M. CHEH, CHAIR

**WITNESS LIST**

COUNCILMEMBER MARY M. CHEH, CHAIRPERSON  
COMMITTEE ON TRANSPORTATION & THE ENVIRONMENT

ANNOUNCES A PUBLIC OVERSIGHT ROUNDTABLE ON

**Study of a Waste-to-Energy Facility in the District**

Monday, March 18, 2013  
2:00 P.M.  
Room 500  
John A. Wilson Building  
1350 Pennsylvania Avenue, N.W.

PUBLIC WITNESSES

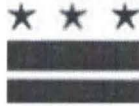
1. Ted Michaels, Energy Recovery Council
2. Barney Shapiro, Tenleytown Trash
3. Brenda Platt, The Institute for Local Self-Reliance
4. Mike Ewall, Energy Justice Network
5. Chris Weiss, DC Environmental Network
6. Jim Dougherty, Sierra Club
7. Michael Sindram

GOVERNMENT WITNESSES

1. Chris Peot, Biosolids Manager, DC Water
2. William O. Howland, Jr., Director, DC Department of Public Works

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**Government of the District of Columbia**



**DC Department of Public Works**

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Testimony of  
**William O. Howland, Jr.**

Director

**“Roundtable on a Waste-to-Energy Facility in the  
District of Columbia”**

COMMITTEE ON TRANSPORTATION AND THE ENVIRONMENT  
Mary Cheh, Chairperson

John A. Wilson Building  
Room 500  
1350 Pennsylvania Avenue, NW  
Washington, DC 20004  
Monday, March 18, 2013

**TESTIMONY OF WILLIAM O. HOWLAND, JR., DIRECTOR  
DC DEPARTMENT OF PUBLIC WORKS  
“ROUNDTABLE ON A WASTE-TO-ENERGY FACILITY IN THE DISTRICT OF  
COLUMBIA”  
BEFORE THE COMMITTEE ON TRANSPORTATION AND  
THE ENVIRONMENT  
MONDAY, MARCH 18, 2013**

Good morning, Chairperson Cheh, members of the Council and staff. I am William O. Howland, Jr., Director of the Department of Public Works. I am here today to present testimony about the Department’s plans to use the grant money we received from the Sustainable DC fund.

Approximately 900,000 tons of solid waste is currently managed in the District. DPW manages 500,000 tons through its two transfer stations. Roughly 100,000 additional tons are reported as recycled by commercial haulers, and 300,000 tons of municipal solid waste are processed through the District’s private sector transfer stations.

DPW collects 135,000 tons per year of solid waste, including 25,000 tons of recyclables and 8,000 tons of leaves from residential properties.

We also collect an additional 50,000 tons of materials through our street and alley cleaning program and citizen drop-off services. District government agencies and contractors servicing government buildings dispose of an additional 42,000 tons at the transfer stations.

The District’s current strategy relies on contracting for all solid waste disposal, recycling, and composting services. We export 225,000 tons of solid waste to the Fairfax County Energy Resource Recovery Facility in Lorton, VA, under an agreement that currently expires on December 31, 2015.

DPW-collected recyclables and organics go to Maryland and Virginia facilities for processing. The total annual cost including transfer station operations is approximately \$20 million.

Mayor Gray’s Sustainable DC goal for waste management is to achieve zero waste in 2032 by producing less waste in the first place and capturing value from everything else through reuse, recycling, composting, and energy production.

To achieve this goal, the District will develop an integrated solid waste management system that redefines solid waste from a burden that just needs to disappear to a resource with economic, environmental and social value.

To determine those values, the District needs to understand exactly what natural and financial capital investments need to be made to sustain the designed system and quantify the benefits that will be realized from its implementation.

The Department of Public Works is using the funding we received from Sustainable DC to develop an evaluation strategy and framework to quantitatively compare the natural and financial



capital investments required by several integrated solid waste management scenarios. Our current solid waste management program will be evaluated as well.

Each scenario will be designed to capture the energy and embedded value of the managed material streams and must include recycling, composting and residuals processing components.

These scenarios will be run through the designed framework to allow us to comparatively evaluate the results.

By quantifying and comparing the investments needed for current baseline operations and the alternatives, the District will be in a better position to identify impact mitigation, cost savings, value creation and positive environmental justice outcomes of the system we choose to develop.

In other words, every solid waste management option –whether it is recycling, composting, anaerobic digestion, incineration, waste conversion or landfilling – has environmental, economic and social costs and benefits. Each of these options creates emissions, each of these options costs money, and each of these options has offsetting positive benefits. We want to understand exactly what these costs and benefits look like for the District and use that data to inform our long term management strategy

If we are successful, this project will achieve the following objectives:

- Meet the goals of the Mayor’s Sustainable DC plan.
- Identify how to economically increase the District’s diversion rate.
- Determine how DC can best capture the embedded energy and economic value of its waste stream.
- Identify the optimal set of disposal strategies to maximize the value of the waste stream while providing economic sustainability over the long term; and
- Identify whether the District should seek jurisdictional partners for the solid waste management system.

Let me take this opportunity to make clear that we do not know what this system will look like and that we have no pre-conceived conclusions that one option is better than another.

What we do know is that even after you offer and encourage source reduction, recycling and composting there is a significant amount of material that still needs to be handled. This study will help chart our path going forward on what is the right combination of disposal options that will promote a sustainable integrated waste management system for the District over the next 25-30 years.

This concludes my remarks. I am happy to respond to your questions. Thank you.



Solid Waste Management Options for the District of Columbia: Sustainability-based Analytics

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Today's Agenda

- DCDPW State of Play
- Strategic Direction
- NCAM Model Use
- Opportunities from Study Data and Results

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Today's Take Away

- Now is the opportunity to re-think and re-structure the flow and management of solid materials reflecting a systematic, integrated approach to managing capital and the environment.
- The District must make informed decisions on choosing a resource management system and operations design that can secure value and return to the DC economy and its citizens in the form of jobs, cost control, renewable energy, energy resiliency, and technological advancement

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**State of Play**

- DCDPW Moving Ahead to Incorporate the Mayor's Sustainability Plan and Goals in Operational Strategy and Planning
  - Zero Waste to Landfills
  - Waste Generation reduced by 15%
  - 20% reuse of Construction/Demolition Material
  - 80% Diversion of waste from landfills
  - 50% reduction in Greenhouse Gases
  - 50% Increase in Renewable Energy
  - Recast materials as reusable and extract asset value
  - Ensure capacity and capability for population growth

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**State of Play**

- With no solid waste processing capacity of its own, the District of Columbia is outsourcing the management of valuable residual assets, and paying to do so (tipping fees, etc. with expiring contracts)
- To meet the Mayor's Sustainability program goals and long-term needs, DPW is identifying environmentally preferable and cost-effective methods for disposition that reward DC first
- Emphasis on recycling has a politically correct *feel* with little empirical evidence of financial or environmental validity.
- The primary focus on traditional recycling options may be foreclosing technology and processes that contribute to multiple goals and targets across the DC Sustainability spectrum

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**DCDPW Strategic Direction**

- What is the strategy for managing the District of Columbia's solid waste over the next 30 years that is:
  - Fiscally responsible
  - Responds to stakeholders' priorities
  - Addresses sustainable practices
  - Uses the best technologies for the waste stream
- Use both an environmental and financial lens to identify and quantify residual material handling options

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**Purpose of the Study**

- Develop an analytic framework to evaluate the highest and best use of air, land, water and money in selecting appropriate technologies and or process strategies to manage solid waste over the next thirty years
- Understand and integrate community priorities
- Identify technology and process options that contribute to the full spectrum of DC Sustainability targets and challenges

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**The Sustainable Basis for Decision-Making**

- Usable supplies of Air, Land and Water are Shrinking Due to Regulation, Conservation and Development
- The District Benefits by Environmentally and Financially Managing Usable Air, Land and Water as Assets
- Natural Capital Asset Management (NCAM) Inventories Used and Reserved Air, Land Water Capacity as Asset with Operational and Potential Market Value.
- These values are the basis of the quantitative analysis applied to current and potential waste management system options to determine the best deal for the District.
- Enables Optimization Decision-Making, rather than Compliance or Avoidance Decision-Making

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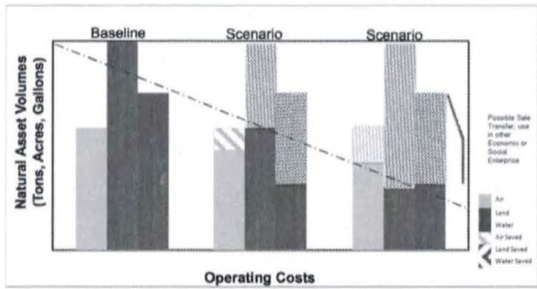
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**NCAM™ EVALUATION ILLUSTRATIVE RESULT**




**Natural Asset Volumes (Tons, Acres, Gallons)**

**Operating Costs**

Possible Sale Transfer, use or other Economic or Social Enterprise

Legend: Air, Land, Water, Air Reserved, Land Reserved, Water Reserved

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## Opportunities from Study Data and Results

NCAM Study inputs and data will cross-cut with other agencies such as DOE

Stakeholder Participation will likely be of political interest

Technology and process scenario options included for value generation contribute to all DC Sustainability Goals, not just DCDPW (E.g., bankable GHG credits, water use reductions, renewable energy production, reduced fuel use, neighborhood energy sourcing)

Results and Recommendations will identify potential asset, development, offset, financial, and credit market values from all aspects of waste management (reduction to disposition) associated with DCDPW technology and process decision-making as current contracts expire.

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