

Metro Vancouver Solid Waste Management

Environmental Managers Association of BC
April 16, 2015



TOP ISSUES IN 2014 CIVIC ELECTIONS

According to

THE VANCOUVER SUN

- Waste flow control
- Organics disposal ban
- New waste-to-energy
- Transit system
- Affordable housing
- Etc...

PRESENTATION OUTLINE

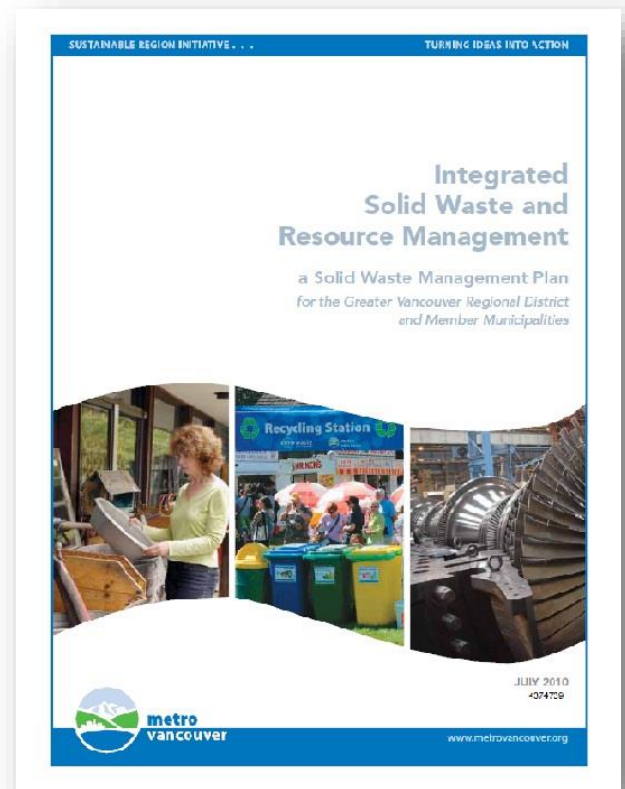
Background

1. Waste flow control
2. Organics disposal ban

BACKGROUND

INTEGRATED SOLID WASTE AND RESOURCE MANAGEMENT PLAN

- 70% diversion by 2015
- Achieved 60% in 2013
- Organics Disposal Ban and Waste Flow Control just two of many initiatives



GOAL 1: MINIMIZE WASTE GENERATION

- Communications ►
- National Zero Waste Council
- Food waste prevention



GOAL 2: MAXIMIZE REUSE, RECYCLING AND MATERIAL RECOVERY

- New Extended Producer Responsibility programs
- Organics and wood disposal bans
- Regulatory framework to encourage diversion
- Expanded recycling at regional facilities



GOAL 3: RECOVER ENERGY FROM WASTE AFTER RECYCLING

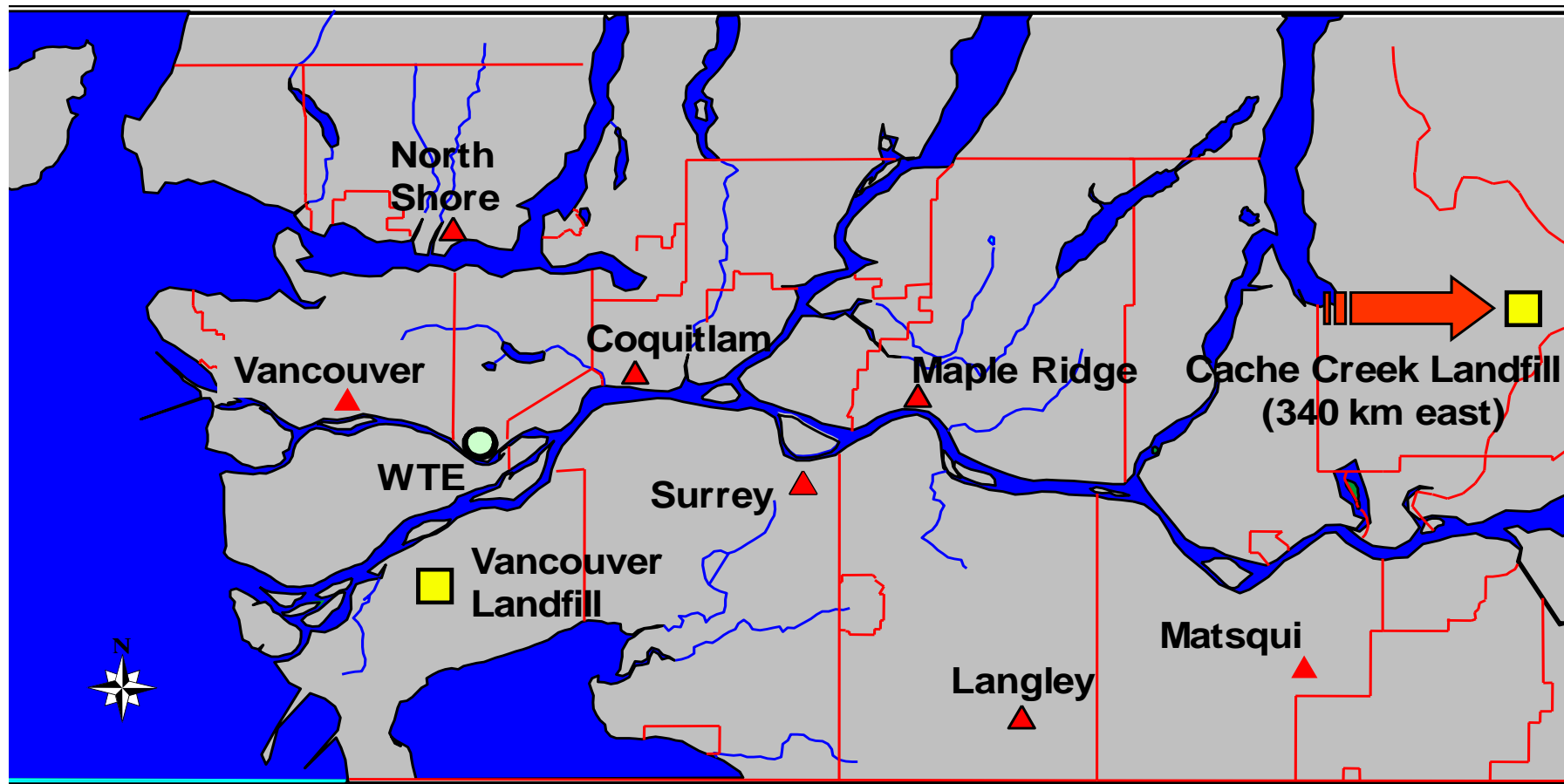
- New Waste-to-Energy for electricity and district heating
- Maximize beneficial use of recovered landfill gas

GOAL 4: LANDFILL REMAINING WASTE AFTER RECYCLING AND ENERGY RECOVERY

- Utilize Vancouver Landfill
- Ensure contingency disposal capacity

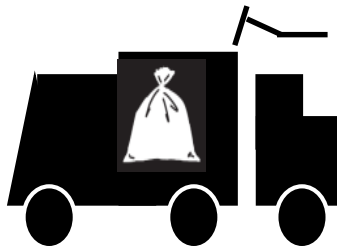
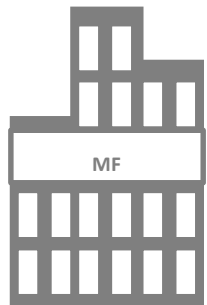
1. WASTE FLOW CONTROL

METRO VANCOUVER REGIONAL FACILITIES



■ Landfill ▲ Transfer Station ● Waste-to-Energy (WTE)

WASTE FLOW CONTROL



**950,000
tonnes/year**

600,000 tonnes
could bypass:

50,000 tonnes in 2012
70,000 tonnes in 2013
100,000 tonnes in 2014

REGIONAL FACILITIES

- \$108/tonne
- Surcharges for banned and prohibited materials

PRIVATE TRANSFER STATIONS IN ADJACENT REGIONAL DISTRICT

- Lower tipping fee
- Avoids MV banned materials requirements

BYLAW 280

Waste bypassing regional system jeopardizes:

- Ability to divert waste from disposal
- All types of future infrastructure
- Viability of existing services

Bylaw 280 was intended to ensure:

- Effective disposal bans
- Equitable garbage tipping fees
- Vibrant recycling market

BYLAW 280

Minister rejected Bylaw 280 despite strong support

- Recycle First Coalition (12 recycling companies)
- Enterra Feed Corp. (Dr. David Suzuki Co-founder)
- SFU Community Trust
- Chair, Kwantlen Environmental Technology Program
- 10 Other Regional Districts (over 90% of BC's population)
- Peter Ladner
- Health Product Stewardship Association
- Sperling Hansen Associates
- Yield Energy Inc.
- Net Zero Waste
- Etc.

REVISED TIPPING FEE BYLAW

In the absence of Bylaw 280:

Comprehensive review of solid waste options

Changes to Tipping Fee to:

- recapture large commercial loads bypassing MV system
- ensure disposal bans are enforced
- recover costs, and maximize economies of scale
- ensure prices reflect cost of managing each load type
- offer competitive tipping fee for large commercial loads
- not increase the rate of illegal dumping

METRO VANCOUVER TIPPING FEE

Effective April 6, 2015

Changed to three tier rate, based on size of load and the actual cost of service delivery at each site
Added Transaction Fee (fixed costs for each load)

Result:

- Small Loads (<1 t) see increased rate
- Medium Loads (1 to 9 t) see no increase
- Large Loads (> 9 t) see reduced rate

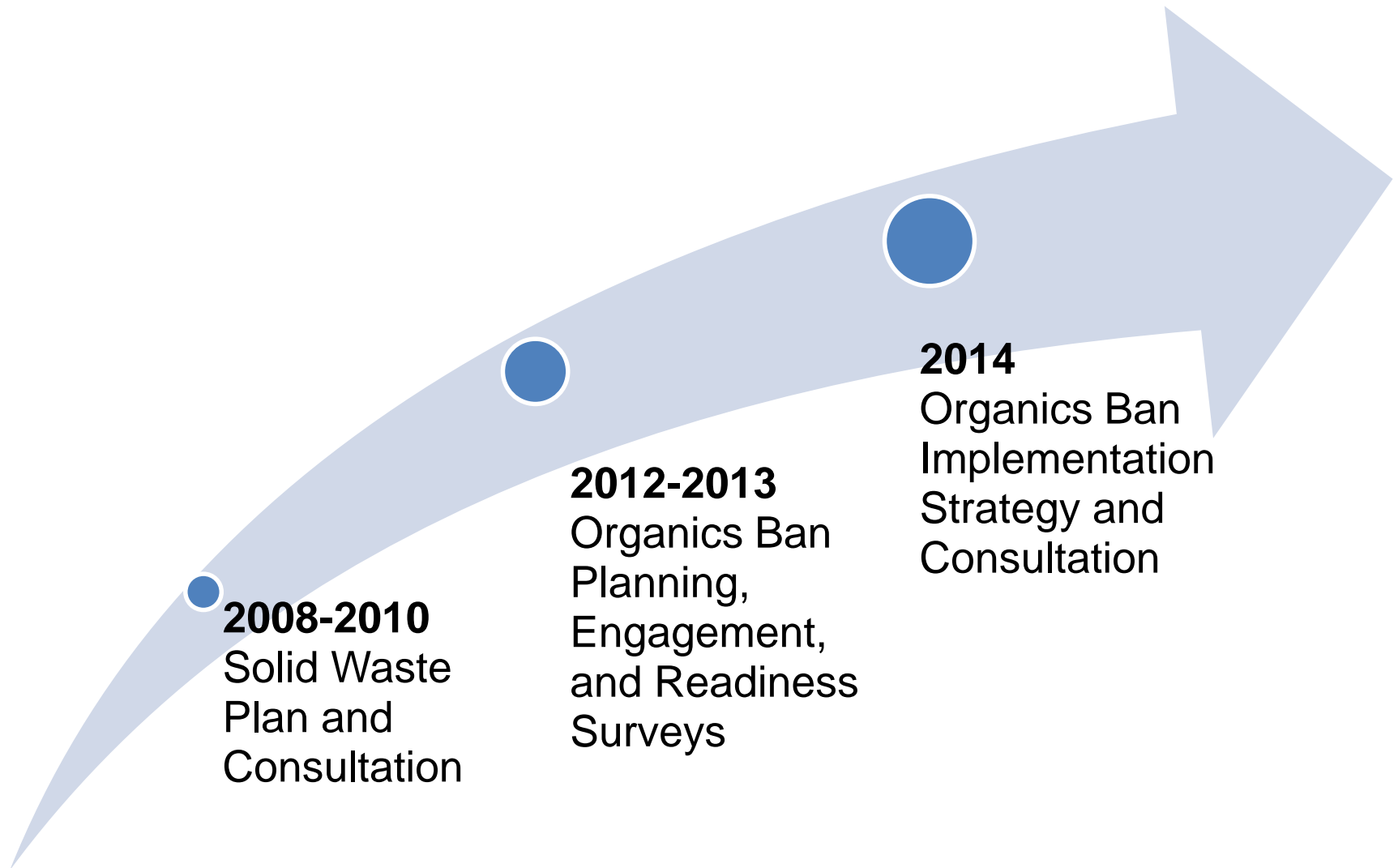
2. ORGANICS DISPOSAL BAN

ORGANICS DISPOSAL BAN

- ~1/3 or more of disposed waste is compostable organics
- Recycling organics:
 - Diverts waste from disposal
 - Creates compost
 - Can create biofuels
 - Prevents landfill methane



CONSULTATION AND ENGAGEMENT



RESPONSE

- Average 20-25 calls/emails per day for 1st month
 - Residential property managers (majority)
 - Residents without curbside collection
 - Residents in multi-family properties
 - Businesses
 - Media
- Haulers: significant outreach to clients

ENFORCEMENT - 2015

- Bans enforced at disposal facilities
- Inspection for visible organics by volume
- Education for 6 months
- 50% surcharge on tipping fee after July 1, 2015
- Survey of residential and business participation



ENFORCEMENT – 2016-2017

- Decrease acceptable threshold of organics in loads in 2016, 2017



ORGANICS OUTREACH

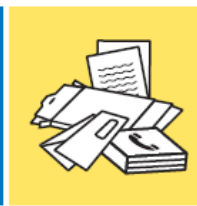
1. Residential campaign with municipalities
2. Business campaign
3. Standardize communications
4. Toolkits and guides



HAZARDOUS
OR DEPOT



MIXED
CONTAINERS



MIXED
PAPER



ORGANICS



CARDBOARD



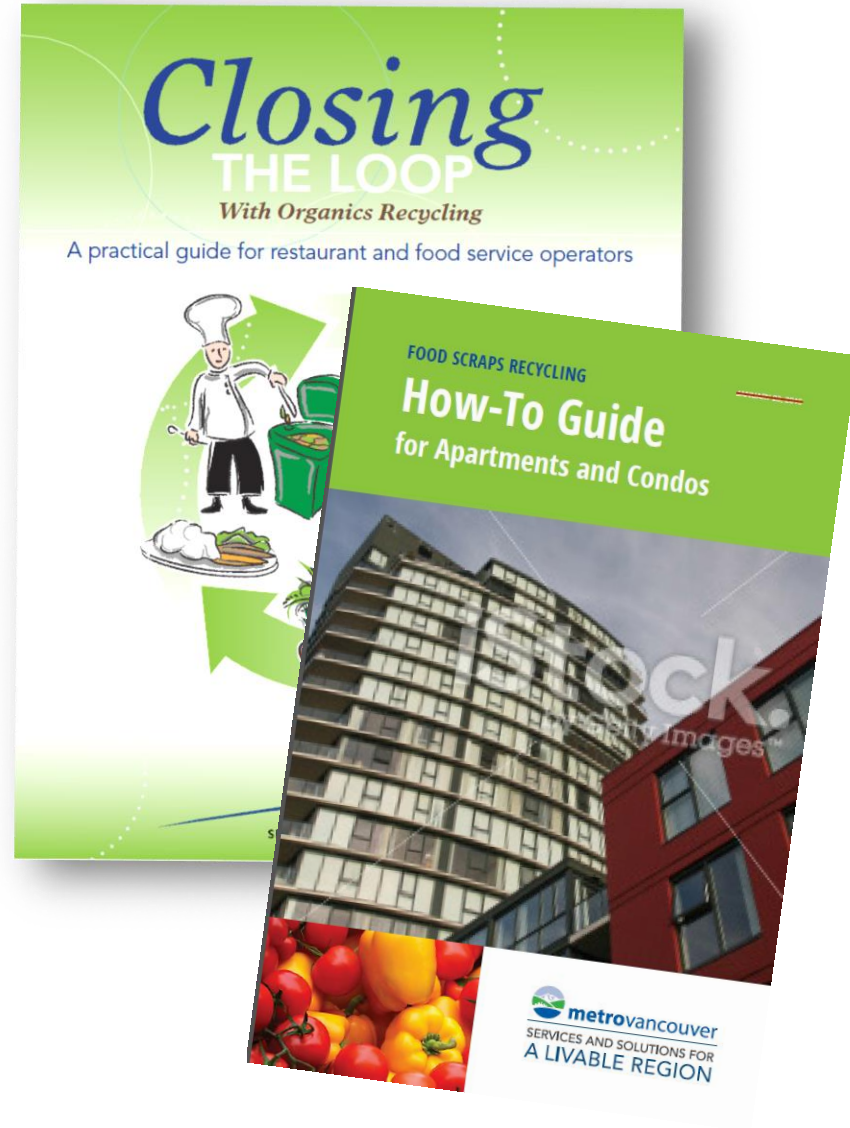
PLASTIC BAGS



GARBAGE

TOOLKITS AND RESOURCES

- Recycling Guides (restaurants, multi-family, property managers)
- On-site Organics Management Options
- Food Donation Guidelines
- Business Case Studies
- Videos
- RCBC Hotline
- MV website



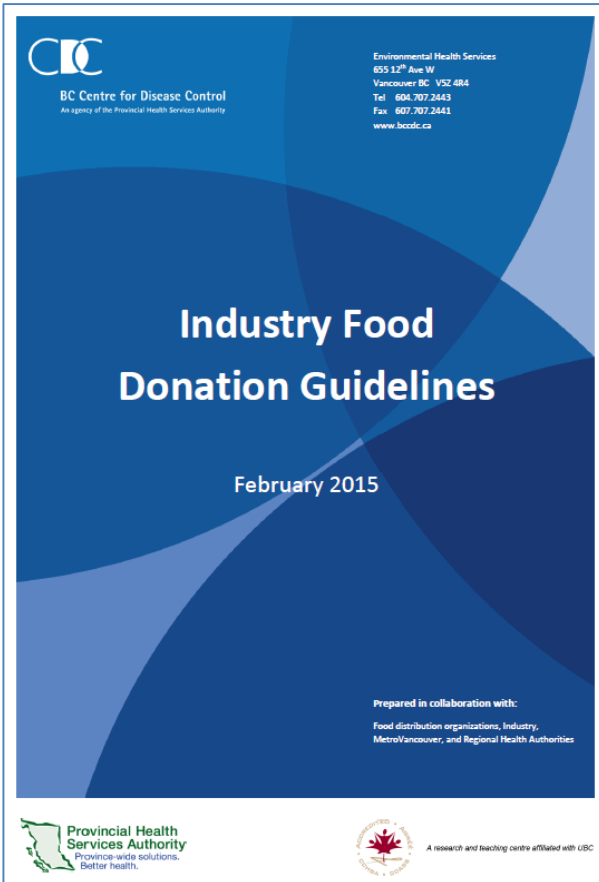
PREVENTING FOOD WASTE



PREVENTING FOOD WASTE



BC Centre for Disease Control
An agency of the Provincial Health Services Authority



PREVENTING FOOD WASTE

FISH LOVERS hate waste

Whether food you love, we can help you waste less! Save up to £20 a week.
For more information visit www.lovefoodhatewaste.gov.uk or
help@lovefoodhatewaste.com



LOVE FOOD
hate waste

CHICKEN LOVERS hate waste

It's so easy without chicken, it's such a deliciously easy and I can bring you delicious
but not to eat alone in the fridge. And it doesn't taste like a chicken salad. I can't eat it
any more. Chicken and I know it. That way it's delicious in my house. Then, if I need a
quick dinner, it's easier to take a lunch, really.

lovefoodhatewaste.com has more helpful recipes to help you waste less food
and save up to £20 a week.



LOVE FOOD
hate waste

BROCCOLI LOVERS hate waste

Broccoli is the business. The way broccoli is with cheese sauce is the best. She always
keeps some well wrapped in the fridge for me. Follow.

Whether food you love, we can help you waste less and save almost £20 a month at
lovefoodhatewaste.com/yours



LOVE FOOD
hate waste



metrovancouver

SERVICES AND SOLUTIONS FOR
A LIVABLE REGION

