AGENDA

Introductions

Review & Comment on meeting materials
  • Minutes from 9/18 meeting
  • Waste Collection Goals & Objectives

Funding Review (Technical Assistance & Enforcement)

Small Business Technical Assistance
  • Goals & Objectives
  • Campaigns
    – Industry
    – Wellhead
    – Voluntary Reporting
    – Fact Sheets
  • Database
AGENDA

Enforcement
  • Goals & Objectives
  • Article 6
    – Technical Assistance driven
    – Complaint Response

Program Evaluation
  • Goals & Objectives
  • Behavior Change

Next Meeting – November 20, 1 pm – 3 pm
  • Gaps
  • Required Elements
  • Implementation Schedule
Waste Collection Goals - Review

1. Protect ground water, air, surface water, soils and sediments from hazardous waste contamination.

2. Increase the percentage of hazardous waste collected that cannot be prevented through waste reduction in the first place.
Waste Collection Goals - Review

3. Reduce the amount of hazardous waste material that is improperly stored, improperly disposed, or accidentally spilled into the environment.

4. Reduce chemical exposures to protect individuals and workers involved in municipal operations.

*Protect public health through actions that reduce exposure to chemicals in the community.*
Waste Collection Goals - Review

5. Avoid damage to solid waste handling facilities, wastewater treatment plants, on-site septic systems, and storm water facilities.

6. Reduce potential for causing publicly owned waste management facilities such as the landfill, waste transfer stations, wastewater treatment plants and storm water facilities to exceed pollutant discharge limits.

7. Reduce damage to collection and transfer vehicles, disposal equipment, and disruption of treatment facilities by ensuring hazardous waste is kept out of these facilities or systems.
Waste Collection Objectives

1. Continue operating the hazardous waste collection facility and collection events for households and eligible small businesses. Assess how to more efficiently run the facility and events and reduce long term costs.

2. **Operate the hazardous waste collection facility in compliance with all state and local rules and regulations and permit requirements.**

3. Continue operating the used-oil collection site network, establishing new collection sites when possible.
Waste Collection Objectives

4. Assess barriers and benefits to customer participation in the waste collection services and carry out steps to overcome the barriers and increase the benefits.

5. Continue to operate a **operating Swap Shop, the** household hazardous product exchange.

6. Continue to update and practice the emergency disaster plan for assessing potential public health problems associated with disasters, collecting hazardous waste, responding to incidents of contamination, and determining how emergency response services will be funded.
Waste Collection Objectives

7. Facilitate development of manufacturer take-back programs to meet recycling and waste collection needs. Continue to add to network of take-back sites.

8. Prioritize environmentally sound management and recycling of wastes collected.

9. *Improve methods and systems in place for tracking volumes of all waste streams collected so that trends can be evaluated.*
Technical Assistance & Enforcement - Funding

SQG-CPG Base - $127,263
Tipping Fee Match - $42,420
Other - $26,000
Water and Waste Management Transfer - $209,707
Total - $405,390 per year
Small Business Technical Assistance Goals

1. Protect ground water, surface water, soils, sediments, and private property from hazardous materials and hazardous waste contamination.

2. Increase the rate of waste reduction, which conserves resources and reduces demand for disposal and recycling services.

3. Increase the percentage of hazardous waste collected (that cannot be prevented through waste reduction in the first place).
Small Business Technical Assistance Goals

4. Reduce the amount of hazardous materials that is improperly stored, improperly disposed, and accidentally spilled into the environment.

5. Reduce damage to collection and transfer vehicles, and disposal equipment, and reduce disruption of treatment facilities by ensuring hazardous waste is kept out of these facilities or systems.

6. Reduce potential for causing publicly owned facilities such as the landfill or sewage treatment plants to exceed pollutant discharge limits.
Small Business Technical Assistance Objectives

1. Continue delivery of technical assistance services such as campaigns for single-industry groups or geographic areas that result in measurable changes in waste management and compliance.

2. Continue publishing fact sheets and guidebooks that explain available services, laws, and environmental impacts of improper disposal.

3. Continue promoting the use of commercial waste exchanges such as the Industrial Materials Exchange (IMEX).
Small Business Technical Assistance Objectives

4. Continue operating the business waste line.

5. Increase understanding of individual responsibility of proper selection, use, storage, and disposal of hazardous products.

6. Increase understanding of the negative impacts contamination has on property values, insurance rates, and clean-up liability.

7. Develop methods for identifying and reaching new businesses, businesses that change location, or businesses that have shifted from being subject to state to local hazardous waste regulations.
Small Business Technical Assistance Objectives

8. Develop an ongoing technical assistance inspection program for businesses in wellhead protection areas.

9. Establish links with community development agencies that issue business licenses and building permits to provide hazardous waste information early in the licensing or permit process.
Small Business Technical Assistance

Types of Technical Assistance Campaigns:

- **Industry**
  - Ex) Automotive, medical and dental, auto recyclers, dry cleaners, HVAC, marinas, etc.

- **Wellhead**
  - Ex) Allison, McAllister, Tumwater, Grand Mound, Olympia and Lacey

- **Geographical**
  - Ex) Shorelines
Small Business Technical Assistance

Planning:
To begin a Technical Assistance Campaign, time is included to conduct upfront research. This research includes:

– Studying the waste streams of the industry and understanding the concerns/problems of a particular waste stream.

  » Ex) The silver nitrate from the x-ray machines at medical and dental facilities.
Small Business Technical Assistance

Planning (cont):

• Investigate waste reduction technology
  – Ex) Aqueous parts washer, solvent distillation

• Research current disposal/recycling options: Look for alternatives or lower cost methods

• Notify stakeholders – waste vendors, professional organizations: form partnerships
Small Business Technical Assistance Planning

Planning (cont):

• Create a Commercial Parcel Inventory sheet
• Create fact sheets – 22 created
  – Compliance with the Nonpoint source Pollution Ordinance
  – Secondary containment
  – Antifreeze, used oil, and oil filters
  – Doing Business in a Wellhead Protection Area
  – Oil Water Separators
  – Photo Processing Wastes
  – Aqueous Parts Washers
  – Hazardous Materials Management for Retailers
  – Spill Plans
## Commercial Parcel Inventory Form

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<th>Visit Date:</th>
<th>County Staff:</th>
<th>Time On Site:</th>
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<tr>
<td></td>
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<td>Time Off Site:</td>
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<table>
<thead>
<tr>
<th>Business Name:</th>
<th>WHPA:</th>
<th>Business Owner Address:</th>
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<td></td>
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<td>City: State: Zip:</td>
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<table>
<thead>
<tr>
<th>Contact:</th>
<th>Title:</th>
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<table>
<thead>
<tr>
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<th>Mailing Address:</th>
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<td>City:</td>
<td>State: Phone:</td>
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<tr>
<td>Zip:</td>
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<table>
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<th>Parcel #:</th>
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<table>
<thead>
<tr>
<th>Land Owner:</th>
<th>Address:</th>
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<tbody>
<tr>
<td></td>
<td>City: State: Zip: Phone:</td>
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1. **Nature of Property:**
   - Home Business
   - Commercial
   - Industrial
   - Agricultural
   - Other
   - Government Site (Circle one: County, City, State, Federal):

2. **Is the facility:**
   - Owned
   - Rented
   - Leased

3. **What year did you begin conducting business at this site?**

4. **What kind of past businesses have been conducted at the property (give years if possible)?**

5. **Generator Status:**
   - SQG
   - MQG
   - LQG

6. **Has there been past environmental inspections at the facility (Get a copy)?**
   - Yes, Year: No
   - Unknown

7. **Does facility have Material Safety Data Sheets for chemicals on-site?**
   - No
   - Yes

8. **What is your facilities drinking water source?**
   - City water
   - Community well
   - Private well
   - Unknown
   - Name of water system (well #) (if known)

9. **Is there an on-site well?**
   - Active
   - Inactive
   - Decommissioned

   **If well was decommissioned:**
   - Method:
   - Year:
   - Was well decommissioned by a licensed driller?

10. **What is facility’s means of wastewater disposal?**
    - LOTT (if checked, forward CPI to Ken Butti @ LOTT)
    - Other sanitary sewer system [Yelm, Boston Harbor, GM, etc]
    - Community septic
    - On-site septic (Type: Gravity, Mound, Sand filter, Pressure, Other)
    - Unknown
Small Business Technical Assistance Planning

Spill Plans

The Problem
Accidental spills of hazardous materials, hazardous waste, or petroleum products can have negative impacts on public health and the environment. Business owners that use and store dangerous substances can take steps to prevent spills from happening and should know what to do in case a spill does occur.

The Regulatory Requirements
The Thurston County Nonpoint Source Pollution Ordinance (Article VI of the Sanitary Code) provides for protection of the county’s vulnerable water resources. It requires that hazardous waste, petroleum products, and hazardous materials be kept in containers and stored in such a manner and location that if the container is ruptured, the contents will not discharge, flow, be washed, or fall into surface water or ground water.

Although spill plans are not specifically required under the county ordinance, they have proven valuable in minimizing the cost and effort of cleaning up an uncontrolled release of hazardous materials in the environment. You should also be aware that the fire department or the LOTT Wastewater Alliance may require a spill plan, depending on the type and quantity of materials you have.

The Options
The following outline is intended to help business owners and operators write a spill plan. The basic parts of the plan are in bold and underlined type. Below these headlines are listed specific topics to be addressed. Only address those parts and topics that are applicable to your business. If you have more than one business location, you should write a spill plan specific to each location. A current copy of the plan should be made available to all employees at the site at all times.

General Information

A. Briefly describe the business activities, and include a map of storage locations for hazardous materials, hazardous wastes, and petroleum products.
B. List the number, type, and size of storage tanks at all locations on site.
C. List the types and amounts of hazardous materials (products) and hazardous waste that are stored on site.
D. Show the locations of any hazardous material and petroleum product transfer areas on the map.
Conducting Technical Assistance Visits

Inspections are voluntary
- Letter of invitation mailed prior to visits
- Contact made with business to set appointment
- Conduct site visits – priority areas
  - Secondary containment
  - Waste streams
  - General housekeeping
  - Provide information dependent on needs
    - Ex) Compliance with Article VI
    - HazoHouse registration
  - Review Best Management Practices (BMP’s)
  - Issue Notice of Compliance, Notice of Non Compliance or Notice of Violation
# Best Management Practices

**BEST MANAGEMENT PRACTICE RECOMMENDATIONS**

**BUSINESS NAME: ___________________________**  
**DATE: ___________________________**

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<th>Recommendations</th>
<th>Already Doing</th>
<th>Suggested</th>
<th>Implemented (Date)</th>
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<tr>
<td><strong>Recycle:</strong> (list recyclable items)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Waste Disposal:</strong> (list accumulated wastes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Waste Reduction:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control spills/leaks/drips:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Less toxic product substitution:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Miscellaneous Improvements:**

| Proper labeling:           |               |           |                    |
| On-site MSDS:             |               |           |                    |
| On-site spill kit:        |               |           |                    |
| Seal floor drains:        |               |           |                    |
| Implement spill plan:     |               |           |                    |
| Secure tanks and shelving: |               |           |                    |
| Separate incompatible chemicals: |         |           |                    |
| Train staff about hazardous materials: |           |           |                    |
| Maintain catch basin – O/W separator: |       |           |                    |
| Other:                    |               |           |                    |

*The County may contact your business within six months to see if these recommendations have been implemented.*

**Signature:** ___________________________  
**Position:** ___________________________
## Small Business Technical Assistance – Past Activities

<table>
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<tr>
<th>Year</th>
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<th>2006</th>
<th>2007</th>
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<td>TA Visits</td>
<td>145</td>
<td>300</td>
<td>205</td>
<td>290</td>
<td>50%</td>
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<tr>
<td>HW complaints</td>
<td>65</td>
<td>87</td>
<td>116</td>
<td>134</td>
<td>48.5%</td>
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<tr>
<td>Site Reviews</td>
<td>31</td>
<td>22</td>
<td>18</td>
<td>11</td>
<td>-35.5%</td>
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% change is from 2004 through 2007

Site Reviews are applications to the county for a business that has the potential to generate hazardous waste
Enforcement Goals and Objectives

Goals

1. Maintain a high rate of compliance with the Nonpoint Source Pollution Ordinance.
2. Reduce rate of improper storage that could result in spills to the environment.
3. Reduce rate of illegal disposal.
4. Increase the rate of clean-up of contaminated sites that are too small for state agency oversight.
Enforcement Goals and Objectives

Objectives

1. Continue implementing the Nonpoint Source Pollution Ordinance following enforcement guidelines and department policies.

2. Continue integrating compliance into technical assistance campaigns.

3. Improve regulatory coordination and communication among local and state agencies.

4. Participate in creating a linked enforcement tracking system with other county ordinances.
Enforcement

The Thurston County Nonpoint Pollution Ordinance (Article VI of the Sanitary Code) requires that hazardous materials and wastes be handled, stored, and disposed in a manner that is protective of the environment.
Section 4.1 of Article VI

(a) Moderate risk waste and petroleum products including, but not limited to, oil and grease, shall be disposed of by recycling or use of a hazardous waste management facility operating under interim status or with a permit issued by EPA or an authorized state. . . . . No person shall, intentionally or negligently, dump or deposit, or permit the dumping or depositing of any such waste in any other manner, including onto or under the surface of the ground or into surfaces or ground water.
Section 4.1 of Article VI continued

(b) Moderate risk waste, petroleum products, and hazardous materials shall be kept in containers and shall be stored in such a manner and location that if the container is ruptured, the contents will not discharge, flow, be washed or fall into surface water or ground water.

In order to comply with Section 4.1 (b), secondary containment may be required for proper storage of petroleum products and other hazardous liquids.
Enforcement

Thurston County takes enforcement action either during non compliance from technical assistance visits or responding to complaints.

- Enforcement tools:
  - Notice of Non Compliance (NONC) – during TA
  - Notice of Violation – complaints or TA (rare)
  - Civil Infraction
Program Evaluation Goals

1. Continually improve the efficiency and effectiveness of the local hazardous waste program based on evaluation, monitoring, and feedback.

2. Evaluate extent to which services are protecting public health and environmental quality.

3. Evaluate if services are meeting customer service goals.

4. Identify changes in customer needs, customer behaviors, and obstacles for customers to use services.
Program Evaluation Objectives

1. Continue measuring program performance and impacts, and develop additional quantitative measures. Establish annual goals and objectives for major programs and establish a long-term data collection plan.

2. Continue using program evaluation information to modify and update programs.

3. Conduct surveys to determine customer needs, obstacles, and changes in behavior.

4. Identify and provide information to the different stakeholders that need evaluation information about the hazardous waste program.
Program Evaluation Objectives

5. Monitor changes in hazardous materials use, storage, and disposal.

6. Monitor changes in environmental conditions.

7. Monitor changes in community health or the health of sensitive populations.
Program Evaluation

- **Waste Collection**
  - Volumes, Customer Numbers

- **Small Business Technical Assistance**
  - Surveys, Best Management Practices (BMP’s), other environmental data
    - ex) silver in sludge

- **Enforcement**
  - Compliance numbers, time to compliance

- **Education and Outreach**
  - Surveys (phone, shelf, class, follow-ups)
  - Behavior change
Behavior Change

Ask:

- What is behavior change you seek?
- Define audience
- Identify barriers and motivators
  - Surveys, focus groups, interviews
- Test with pilot project
- Measure
Community-Based Social Marketing has taught us...

- Direct contact best
- Media, publications can create awareness but not much change
- Commitment
- Social diffusion, norms
- Incentives, convenience
- Prompts
Next Meeting

November 20, 1 pm – 3 pm

• Gaps
• Required Elements
• Staff recommended program elements and alternatives with measurable objectives
• Discussion
Next Meeting

Discussion topics:

- Used Oil
- Enforcement
- HHW Ordinance
- Electronics
- Paint
- WasteMobile
- HH compliance
- HH Facility
December Meeting

- 5-year plan
- Implementation Schedule
- Discussion