Tribal Scrap Tire Management

August 22, 2012
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Presentation Agenda

Mark Schuknecht - Developing a Plan

Mark Hope – Transportation and Markets

Panel Discussion

Amberdawn La France - Tribal Example

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The Plan Process

Getting your process rolling

Five Elements
- Knowledge …
- From Partnerships
- Negotiations
- Ask for assistance
- Never give up

Goals: Stop more piles from building up
       Clean up existing piles
Things You Can Do With Them

- Consolididate & Store them
- Haul them
  - To be Burned
  - To a Collector or Processor
  - To a Landfill
- Shred and or Use them
- Bury them:
Resources

- Environmental Protection Agency Regional Offices
  - Scrap Tire Clean Up Guidebook
    EPA-005-B-06-001
- EPA Scrap Tire Workgroup
  - EPA Regions and States Agencies
  - Trade Associations
  - Industry, Academia, Consultants
Tools
Trade Directories

Go to internet @ ScrapTireNews.com
Locate Your Nearest Tire Fuel User

Consult the Directory and your State Agency for current contacts information
Locate your Nearest Tire Collector, Hauler, and/or Processor

Consult the Directory and your State Agency for current contacts & information
Locate Your Tribe/Reservation
Overlay Maps and determine

How Far Will You Have To Haul The Tires?

Consult the Directory and your State Agency for current contacts information.
How big is your pile and How many tires do you have?

Estimate based on typical geometric shapes

Trapezoid \( V = ((W_1+W_2)HL) / 2 \)

Prism \( V = (HWL) / 2 \)

Pyramid \( V = HWL / 3 \)

Pyramid \( V = (bh/2)H / 3 \)

Cone \( V = h(3.14)r^2 / 3 \)

Conversion Factor (10 passenger tires/ cubic yard) (27 cubic ft/cubic yd)
How big is my pile and How many tire do I have

Cone     Hight=10ft  radius=30ft
Volume = h(3.14)r^2 /3
V=10(3.14) 30^2/3=9500ft^3
/(27 ft^3/yd^3) X (10 tires per yd^3) =3500 tires
How big is my pile? and How many tire do I have?

Trapezoid

Width1=240 – Width2= 220 = 460
Height=10, Length=640
Vol = V=\((W1+W2)HL\)/2 ft³
V= (460x10x640)/2=1,472,000 ft³
\((27 \text{ ft}³/\text{yd}³) \times (10 \text{ tires per yd}³) \) = 540,000 tires
½ million tires
Other things your need to address in your Plan:

**Dumping**

- Dumping is done by individuals or small-scale retailers
- Dumpers tend to be habitual
If Dumping is a Problem
What Can You Do?

• Enforce Existing Regulations and Ordinances as tools

• Talk to your local retailers
If Dumping is a Problem
What Can You Do?

- EPA Reg 5 Doc Illegal Dumping Prevention Guidebook
  EPA905-B-97-001
- Involve your community
- Confiscate dumpers vehicles
- Advertise arrests
Beware of “Dreamers & Schemers”

- Salesmen
  - Pyrolyzing & Microwaving Tires
  - Oversees Tire baling operations
- We will process millions…
- Claim they can “solve the problem”
- Selling unproven technology
Beware of “Dreamers & Schemers”

- They will claim that Tribes have advantage due to sovereignty
  - Perceived as easier deal
  - Approach with a “win-win” opportunity
  - Promise jobs and revenue
  - All we need is your money and space
- Results in new piles, and law suits.
Create a New Trend on Tribal Lands

U.S. Stockpiled Scrap Tires
1990 - 2010

Millions of Scrap Tires (estimates based on state data)

- 1990: 1000
- 1992: 1000
- 1994: 579.3
- 1996: 485.2
- 1998: 288.4
- 2000: 263.2
- 2002: 186.2
- 2004: 128.4
- 2006: 113.6
- 2008: 111.5

(prelim.)

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Panel Discussion

- Questions & Answers
- Open Discussion