Utah Waste Tire Recycling Program

September 22, 2009
Utah Waste Tire Program

Program History
Legislative Findings

- Disposal of waste tires a statewide concern and recycling should be promoted

- Recycling will decrease the number of tires disposed and will reduce the health and safety hazards

- Legislative intent to encourage the development of the recycling industry and markets for recycled products.
Utah Waste Tire Recycling Act originally passed in 1990

- Fee on new tires sold
  - $1 fee on tires with a rim diameter of 14 inches or less
  - $1.50 for a single bead tire with a rim diameter between 14 and 19.5 inches
  - $2 for a dual bead tire with a rim diameter of 19.5 inches, and
  - $2 for single or dual bead tires with a rim diameter between 20 and 26 inches
  - Fee is collected by dealers on all new tires sold and all new cars sold

- Recycling reimbursement - $21.00 per ton
Utah Waste Tire Program

Current Statute
Features of Current Statute

- Ban on disposal of tires in landfills
  - Whole tires are banned from landfills except when received no more than four at a time
  - Tire shreds may be monofilled
  - Whole tires may be landfilled if received no more than four at a time
  - Tires larger than 24.5 inches and tires from devices moved by human power are excluded
Features of Current Statute Cont.

- Recycling fee of $1.00 per new tire sold
  - Collected on all new tires sold in the state with rim diameter of 24.5 inches and less
  - Collected on all new cars sold in state
  - Not collected on tires for any devise moved by human power
  - Dealers take 2.5% for cost of administration
  - Tax Commission takes 2.5% for cost of collection
Features of Current Statute Cont.

- Recycler and Transporter registration
  - Tire transporters and recyclers must register
  - No recycling reimbursements paid to unregistered recyclers
  - No recycling reimbursement paid to recyclers for tires received from unregistered transporters
  - Tire dealers are not required to register as transporters
  - Recyclers are not required to register as transporters
Features of Current Statute Cont.

- Transporter reporting of tires picked up from dealers required on quarterly basis

- Tire pile cleanup funded
  - Cleanup of piles with no tires added after June 30, 2001 are funded at 100%
  - Cleanup of piles with tires added after June 30, 2001 are funded at 60%
Features of Current Statute Cont.

- Recycling reimbursement for tire recycled within the state:
  - $65.00 per ton for crumb
  - $50.00 per ton for recycling other than crumb
  - $20.00 per ton for beneficial

- Monofilling of shredded tires reimbursed at $20.00 per ton
Features of Current Statute Cont.

- Local health departments responsible for recycling reimbursement administration
- DEQ responsible for determining processes that qualify for rebate
- Civil and criminal penalties
Recycling Definition

Recycling is defined as:

- Recover energy or produce energy,
- Crumb rubber,
- Chipped tires, or
- Ultimate product

Recycler must use 100,000 tires or 1,000 ton per year
Beneficial Use Definition

- Beneficial Use is defined as using chipped tires in a manner that is not recycling, storage, or disposal
- Beneficial use includes:
  - Landfill daily cover
  - Civil engineering purposes
  - Light-weight aggregate fill
  - Septic drain fields (Technology not currently approved by the Division of Water Quality)
Beneficial Use Definition cont.

- Beneficial use does not include:
  - Fences
  - Use as fill other than light-weight fill
Recycling Fee Uses

- Reimbursement to recyclers for recycling and beneficial use
- $5.00 per ton of tires recycled or beneficially used to local health departments for administration of program
- $128,800 for DEQ administration of program
Waste Tire Pile Cleanups

- Cleanups of abandoned piles and piles at municipally operated landfills allowed

- Each pile cleanup is conducted through a competitive bid process – any registered transporter or recycler may bid
Waste Tire Pile Cleanups cont.

- Tires cleaned up must be taken to a registered recycler
- Average cost of cleanups - $93.00 per ton
Utah Waste Tire Program

Waste Tire Fund Current Status
Current Recycling Markets

- Three recyclers currently registered
  - One kiln using tires as fuel
  - One landfill using chips as daily cover
  - One crumb manufacturer
- FY09 percentage of use
  - Crumb 43%
  - Recycling 54%
  - Beneficial use 3%
Fund Revenue

Revenue in Thousands

Fiscal Year

1991 1993 1995 1997 1999 2001 2003 2005 2007 2009

$0 $500 $1,000 $1,500 $2,000 $2,500 $3,000

Utah Division of Solid and Hazardous Waste
Recycling Type

Utah Division of Solid and Hazardous Waste

Recycling Type

Recycling
Beneficial Use
Crumb

Fiscal Year

Tons

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009

Utah Division of Solid and Hazardous Waste
Positive Results

- Currently all waste tires generated in Utah are processed for recycling or beneficial use
- Waste tire piles throughout the state have been cleaned up
- Crumb rubber manufacturer has been able to take advantage of out-of-state markets
Current Issues

- Collection of recycling fee
- Deciding processes eligible for recycling reimbursement
- Recycling market is not independent of the reimbursement
- Relatively small volume of tires available in Utah limits market development
- Oversight of pile cleanups
Current Issues

- High capital cost of recycling equipment limits competition
- Waste tire recycling fund has created a market for all tires generated in Utah but only limited competition
Waste Tire Processing

Utah Division of Solid and Hazardous Waste
Crumb Rubber Manufacture
Crumb Rubber Shipment
Crumb Rubber

Utah Division of Solid and Hazardous Waste
Products
Products
Jumping Jack Flash loves working out and staying sound on Rubber Footing

Impact Absorption • Reduces Dust and Mud • Improves Footing

Crumb Rubber for Horse Arenas is now available in Utah.

With production in Utah, the economics for crumb rubber has greatly improved.

UTAH TIRE RECYCLERS
1398 North Beck Street • Salt Lake City, UT 84116
801-364-7900
Call today for information and a quote on your arena.
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Questions ?